REMEDIAL ACTION WORK PLAN
FOR OPERABLE UNIT 1
FORMER WEST 45TH STREET GAS WORKS
New York, New York
(Site Number V00532)

CONSOLIDATED EDISON CO. OF NEW YORK, INC.
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MAY 2015

Certification

"I, Shane Blauvelt, certify that I am currently a NYS registered professional engineer as defined in 6 NYCRR Part 375 and that this Remedial Action Work Plan was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10)."

Name

9/14/16
Date

PARSONS

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LIST OF ACRONYMS

AMSL	Above Mean Sea Level
BTEX	Benzene, Toluene, Ethylbenzene and Xylene
CAMP	Community Air Monitoring Plan
Con Edison	Consolidated Edison Company of New York
DR	Deed Restriction
EC	Engineering Control
EDR	Environmental Data Resources, Inc.
EE/DR	Environmental Easements/Deed Restrictions
GWQS	Groundwater Quality Standards
HASP	Health and Safety Plan
HSO	Health and Safety Officer
IC	Institutional Control
MGP	West 45th Street Gas Works
MTBE	Methyl Tert-Butyl Ether
MW	Monitoring Well
NAPL	Non-Aqueous Phase Liquid
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
OU-1	Operable Unit 1
PAHs	Polynuclear Aromatic Hydrocarbons
Parsons	Parsons Engineering of New York
PRR	Periodic Review Report
RAOs	Remedial Action Objectives
RAWP	Remedial Action Work Plan
RIR	Remedial Investigation Report
RSCO	Restricted Soil Cleanup Objectives
SCGs	Standards, Criteria and Guidance
SCO	Soil Cleanup Objective
SMP	Site Management Plan
SVOC	Semi-Volatile Organic Compounds

LIST OF ACRONYMS (CONTINUED)

UPS	United Parcel Service
USCO	Unrestricted Soil Cleanup Objectives
USTs	Underground Storage Tanks
VCP	Voluntary Cleanup Agreement
VOC	Volatile Organic Compounds
WQS	Water Quality Standards

SECTION 1

INTRODUCTION

On behalf of Consolidated Edison Company of New York, Inc. (Con Edison), Parsons Engineering of New York, Inc. (Parsons) has prepared this Remedial Action Work Plan (RAWP) for Operable Unit 1 (OU-1) of the Former West 45th Street Gas Works Site (VCA Site No. V00532-2). The OU-1 portion of the Former West 45th Street Gas Works Site (the Site) is located in the Borough of Manhattan in New York City, New York and New York County, New York (Figure 1). For characterization purposes, the site was divided into two distinct areas, designated as OU-1 and OU-2 as shown in Figure 2. This RAWP focuses on the OU-1 portion.

New York State Department of Environmental Conservation (NYSDEC) approved the *Remedial Investigation Report for Operable Unit 1* (Parsons, 2011) on February 4, 2011 and requested that this RAWP be developed for OU-1 of the Site.

The primary objective of this RAWP is to provide the basis for and describe the proposed remedial action for the Site which will address MGP related impacts encountered during the previous investigations conducted at the Site. The investigation activities were performed in accordance with the NYSDEC approved *Site Characterization Work Plan for the Former West 45th Street Works Site* (Parsons, 2005) and the *Remedial Investigation Work Plan* (Parsons, 2006). The results of the investigation activities were presented in the approved *Remedial Investigation Report for Operable Unit 1* (Parsons, 2011). This RAWP has been prepared in accordance with the requirements set forth in 6 NYCRR Part 375 *Environmental Remediation Programs* (6 NYCRR 375) and the NYSDEC's *Final Technical Guidance for Site Investigation and Remediation* (DER 10) (NYSDEC, 2010) and is based on the investigation results previously presented in various reports for the Site.

A description of the procedures and protocols that will be followed while conducting the proposed remedial actions is presented in this RAWP, which includes institutional controls and groundwater monitoring for the Site. The proposed remedial actions presented herein are based on the present and anticipated future use of the Site as a non-residential use. The proposed remedial actions will provide protection of human health and the environment. This document has been organized as follows:

- Section 1 – Introduction;
- Section 2 – Site Description and History;
- Section 3 – Summary of Remedial Investigation and Exposure Assessment;
- Section 4 – Remedial Goals, Remedial Action Objectives and Proposed Remedial Action;
- Section 5 – Schedule;
- Section 6 – Project Management and Organization
- Section 7 – References

SECTION 2

SITE DESCRIPTION AND HISTORY

2.1 SITE DESCRIPTION

The former West 45th Street Gas Works Site occupies portions of Tax Blocks 1092, 1093 and 1107 from 44th to 46th Street, between 11th Avenue and the Hudson River in New York, New York. As mentioned previously, the Site has been divided into two distinct units: OU-1 and OU-2. OU-1, which is the subject of this RAWP, is located between West 44th Street and West 45th Street on Tax Blocks 1092 and 1107 (Figure 2).

The portion of Block 1092 not truncated by roadway reconfiguration includes Tax Lots 7R and 16 (Figure 2). Multiple-story (with basement) concrete buildings used primarily as warehouses or storage currently occupy Tax Lot 7R. Based on a review of New York City building records, the buildings on Lot 7R have basements which are used on a limited basis as a boiler room and book vault. The United Parcel Service (UPS) currently owns Tax Lot 16, which is covered with asphalt and used for truck parking and fueling. UPS currently maintains gasoline and diesel fuel pumps and underground storage tanks (USTs) on the lot. Block 1107 is a portion of the existing waterfront located west of Blocks 1092 and 1093. The area is currently occupied by the West Side Highway and piers along the Hudson River. The Intrepid Sea, Air, and Space Museum visitors' center is located to the north.

There are no known plans to change from the current site usage.

2.2 ADJOINING PROPERTY DESCRIPTION

Various multiple-story buildings occupy the eastern end of Tax Block 1092, along 11th Avenue, which is outside the former MGP footprint. A variety of single level and multiple-story buildings, parking lots, and a parking garage are located within Tax Block 1093, situated across West 45th Street from OU-1. OU-2 comprises the west half of Tax Block 1093. State Highway Route 9A, the Hudson River, and City Pier 21 and 30 are located directly west of the Site. UPS currently owns and operates the building located one block south of Tax Block 1092 which is located between West 43rd and 44th Streets. This building includes an underground parking garage in the eastern portion of the building.

Within a one-quarter mile radius of the West 45th Street Site, the neighboring properties consist of residential buildings, restaurants, commercial storage facilities, commercial and private parking lots, retail stores, tourist attractions, and automotive repair and dry-cleaning facilities. Commercial structures including storage and moving facilities, automotive repair and cleaning companies are present to the northwest and southwest of the Site along Highway Route 9A. The Intrepid Sea, Air, and Space Museum is located to the west of the Site along the Hudson River. Other attractions such as restaurants and recreational activity centers are also located along the piers within the general vicinity of the Site. Residential properties including multi-story apartment buildings, commercial retail facilities as well as public parking lots are present east of the Site.

The areas to the north and south of the Site mainly consist of light industrial and commercial facilities. The area buildings are generally well maintained and the roads are in good condition. The roads receive a heavy volume of traffic. The area has a high density of people working in the businesses and living in the multifamily and high-rise housing.

2.3 SITE HISTORY

The West 45th Street Gas Works (MGP) plant operated from 1877 to 1913. Gas was manufactured using the coal gas process from 1877 to the mid–1890s prior to switching to a carbureted gas process. A complete history of the former MGP site is presented in a report entitled West 45th Street Gas Works Site History Report (Parsons, 2002). A general overview of the site history is provided herein.

Former MGP structures located on OU-1 included a retort house, generator house, purifying house, and five gasholders and associated structures. Four of the gasholders each had a capacity of 375,000 cubic feet and one holder with a capacity of approximately 184,000 cubic feet. Most of the buildings and structures associated with the former MGP facility were removed in 1913. However, subsurface remnants of the gasholders are still present. Following demolition of the MGP structures, portions of the property were sold to other owners. The approximate locations of the former MGP structures are shown on Figure 2.

The entire expanse of Tax Lot 7R has, since 1923, consisted of multiple-story concrete buildings (with basements) used primarily as warehouses or storage. Tax Lot 7R overlies the area of the MGP formerly containing portions of the generator house, condenser, and engine house, as well as parts of the purifying house, retort house, office and meter house, and fire pump (Sanborn, 1911). Since both existing buildings have basements, it is likely that the majority of the former MGP structures and the original ground surfaces have been removed.

Portions of Tax Lot 16 contained bus repair shops and storage structures (including pits under a concrete floor and a laundry) from the 1940s through the 1960s. The remainder of the tax lot has been used for bus or truck parking. Gasoline pumps and underground storage tanks have existed on portions of the property at various points after demolition of the MGP. UPS currently maintains both pumps and USTs on the lot. Lot 16 overlies the former location of the five former gasholder structures. One portion of the lot was excavated to the brick foundation of the holders (at about 10 feet below grade) for new construction, while footings for the same structure were excavated to solid ground, noted to range from 15 to 30 feet below grade (Parsons, 2002). Portions of the gasholders still exist beneath the parking lot, in areas where later structures or USTs were not constructed.

The western end of original Block 1092 currently is under Highway Route 9A. This section of the block once contained portions of the generator house, retort house, coal shed, and various scrubber and coal tar tanks. It is likely that parts of these structures were removed during the significant reconstruction and utility work that has occurred along Highway route 9A.

SECTION 3

SUMMARY OF REMEDIAL INVESTIGATION AND EXPOSURE ASSESSMENT

Previous investigations of OU-1 include a historical research to evaluate ownership, occupancy, use, and operations over time (including pre-gas works use, use during gas works operation, and post-gas works use). A site reconnaissance was conducted in April 2002 to ascertain current conditions and neighboring property use and a review of federal, state, and local databases was conducted to assess other sites in the vicinity that may be impacting the former gas works site and the neighboring properties. Research undertaken included review of in-house documents and photographs provided by Con Edison, as well as materials gathered at the Municipal Archives of the City of New York, Municipal Reference and Research Center of the City of New York, New York City Recorder of Deeds office, New York City Department of Buildings, New York Public Library, Library of Congress, NYSDEC, Environmental Protection Agency, and various web sites that post historical maps and journal articles. Environmental Data Resources, Inc. (EDR) compiled the radius search data for the Site (EDR, 2002). Results of these efforts are documented in a report entitled *West 45th Street Gas Works Site History Report* (Parsons, 2002).

Parsons conducted field investigations at OU-1 in accordance with the NYSDEC and NYSDOH-approved *Site Characterization Work Plan for the Former West 45th Street Works Site* (Parsons, 2005) and the *Remedial Investigation Work Plan* (Parsons, 2006). During these field investigations, soil, soil gas, groundwater, and free product samples were collected for laboratory analysis. All sampling locations are shown on Figure 3. Table 1 provides a summary of each of the samples submitted for laboratory analysis during the field investigation activities. Parsons submitted a *Remedial Investigation Report (RIR*) (Parsons, 2011) summarizing the field investigation results to NYSDEC which was approved on February 4, 2011.

The information gathered during the field investigation activities at the Site are summarized in following subsections.

3.1 SITE GEOLOGY AND HYDROGEOLOGY

The Site is underlain by approximately three to 12 feet of fill material, consisting of sand, gravel and silt with cobbles, cement and brick fragments. In general, deposits of fine to medium grained sand, silt and some gravel underlie the fill. A peat layer was observed ranging from one to four feet in thickness in the soil borings advanced in the vicinity of the UPS building located between West 43rd and West 44th Streets. A north-south cross-section of the Site is shown on Figure 4 (cross section A-A') and two east-west cross sections are shown on Figures 5 and 6 (cross sections B-B' and C-C', respectively).

Suspected bedrock was encountered at depths between 25 and 34 feet within the UPS parking lot, which is elevated in relation to the surrounding areas. Bedrock was generally shallower (between two and 23.5 feet bgs) along the 43rd Street, 44th Street, 45th Street, 46th Street, 11th

Ave and Route 9A sidewalks. Inferred bedrock elevations under the Manhattan Mini Storage and Time Moving & Storage Warehouse buildings are significantly shallower than bedrock elevations where the former gasholders were located. A bedrock trough appears to be present in the vicinity of MW-20 and SB-48. The bedrock trough appears to start in the general vicinity of the former gasholders and terminate under the UPS building prior to West 43rd Street. Sharp variations in bedrock depths may be due to the extreme folding in the natural bedrock that is known to underlie Manhattan. These variations may also be attributed to manmade alterations to bedrock during construction (e.g., streets/utility corridors, subsurface structures, and building foundations). Figure 7 summarizes the suspected bedrock elevations encountered at the Site during the investigation activities based on observations and refusal during drilling activities.

Two sets of groundwater levels were used to assess groundwater flow conditions at the Site. The first set of data was collected between March 13 and 18, 2006 as part of the tidal study; a second round of water levels was obtained on May 22, 2007. Results from both data sets are described below.

Tidal Study Results – March 2006

In March 2006, pressure transducers were installed in six monitoring wells (MW-2, MW-3, MW-5, MW-7, MW-8 and MW-9) for a four day period. The transducers recorded water levels every 10 seconds during the study. The logger data obtained from the tidal study conducted at OU-1 and OU-2 are summarized in Table 2. The water level changes in the monitoring wells were plotted and compared with high and low tide readings obtained from a gauge located at the battery and with barometric readings from La Guardia Airport. The Hudson River is tidal with two high tides and two low tides every day that range over five feet during this period. The hydrograph of the Hudson River water levels and the water level elevations from the six monitoring wells indicate the wells MW-2, MW-3, MW-5, MW-7 and MW-8 do not show tidal fluctuations. During the study period, water levels in these wells showed a decreasing trend with no apparent tidal influence on the shallow aquifer. There appears to be some tidal effects measured in well MW-9. The water levels in monitoring well MW-9 shows some oscillations roughly at the same frequency of the tidal peaks from the Hudson River. However, the oscillations are minor (i.e., 0.1 to 0.2 feet).

Groundwater Gauging Event - May 2007

Groundwater was encountered beneath the Site at elevations ranging from -2.54 to 9.42 feet above mean sea level (AMSL), approximately 1.64 to 10.8 feet bgs. Groundwater levels in monitoring wells MW-4, MW-5 and MW-8 appear to be significantly higher than the general groundwater table surface. This may be due to differential recharge. MW-19 also appears to be high. This well is adjacent to a planter which may be allowing higher rates of infiltration in this area. Wells MW-20 and MW-10 are adjacent to the street and appear to be low. This may be due to utility corridors beneath the street. Utilities can act as drains due to the gravel pack, and/or improperly maintained piping (i.e., broken storm drains). The groundwater levels and corresponding elevations are summarized in Table 2 and on the groundwater contour map (Figure 8). The groundwater contours based on the May 2007 event are generally consistent with the groundwater conditions noted during the March 2006 Tidal Study.

3.2 NATURE AND EXTENT OF IMPACTS

3.2.1 Former MGP Structures, NAPL, and Soil

During the test pit excavations at the OU-1 Site, below grade remains of brick walls were observed to be present at all five former gasholders. Soil borings installed within the former gasholders identified potential steel-lined bottoms in the larger gasholders. However, based on field observations at soil boring SB-33, a holder bottom may not be present in the small gasholder. Non-aqueous phase liquid (NAPL) was observed in close proximity to the former small gasholder.

As shown on Figure 7, NAPL was encountered outside of the gasholders immediately north of West 44th Street and appears to extend south beneath West 44th Street, generally consistent with the apparent bedrock trough in this area. However, NAPL was not observed further to the south beneath the UPS building located between West 44th and 43rd Streets. NAPL was also observed in MW-9, the source of which is unclear. Solidified coal tar material was noted in soil borings SB-43 and SB-44 which are located along West 44th Street and adjacent to two of the larger gasholders (Figure 7). Forensic hydrocarbon fingerprinting of both the solidified coal tar and NAPL materials observed at soil borings SB-39, SB-43 and MW-9 were similar in nature to carbureted water gas tar, suggesting that they originated from former MGP operations. Other than the gasholders, no other remnants of former MGP structures were encountered during the field investigation.

A summary of volatile organic compound (VOC) results for OU-1 and OU-2 soil samples collected during the field investigation activities are shown in Figure 9 and Figure 10, respectively. A summary of semi-volatile organic compound (SVOC) results for OU-1 and OU-2 soil samples collected during the field investigation activities is shown on Figure 11 and Figure 12, respectively. Soil sample results for OU-1 are also summarized in Table 3. Total VOC concentrations in all subsurface soil samples ranged from non-detect to 5,771 ppm. Total SVOC concentrations in all subsurface soil samples ranged from non-detect to 2,867 ppm. The highest total VOC and SVOC concentrations were typically detected in soil samples collected in the vicinity of the former gasholders and apparent bedrock trough that extends to the south of the Site across West 44th Street. The three highest total VOC concentrations and three of the four highest total SVOC concentrations were detected at soil boring locations SB-30, SB-39 and SB-48. These locations are in close proximity to the former gasholders or are located within the apparent bedrock trough. Soil samples collected from within the former large gasholders generally did not exceed the Unrestricted Soil Cleanup Objectives (USCOs) or Restricted Soil Cleanup Objectives (RSCOs) for commercial use for VOCs or SVOCs. However, several USCOs for VOCs and SVOCs and a couple RSCOs for commercial use for SVOCs were exceeded in a soil sample collected from the former small gasholder. Outside of the soil samples that are located within close proximity to the former gasholders at OU-1 and the bedrock trough, two other locations contained more than one VOC concentration above the USCOs, MW-19 and MW-7. However, these locations did not exceed the RSCOs for commercial use. Monitoring well MW-19 is situated immediately adjacent to the former gasholder at OU-2. Monitoring well MW-7 is situated in the vicinity of the former retort house, generator house, and condenser based on information from the Site History Report (Parsons, 2002).

Metals were detected throughout the Site in soil at concentrations exceeding the NYSDEC USCOs or RSCOs for commercial use. Analytical results for metals in soil indicated the presence of 12 metals at concentrations that exceeded the USCOs in at least one of the boring locations. Six metals (arsenic, barium, copper, lead, mercury and cyanide) were detected at concentrations exceeding the RSCOs for commercial use. The exceedances were present throughout the Site with no discernable pattern and are consistent with urban fill materials.

Based on the soil analytical results, the following conclusions were presented in the RIR (Parsons, 2011).

- Subsurface soil at OU-1 appears to be impacted by former MGP operations. Site soils have been impacted primarily with benzene, toluene, ethylbenzene, and xylene (BTEX) and polynuclear aromatic hydrocarbons (PAHs). The greatest impacts to soil were found in areas where visible NAPL was encountered in the subsurface.
- Remnants of former gasholder structures are present within the UPS parking lot. The majority of impacted soils at OU-1 were encountered outside and along the perimeter of the former gasholders, especially the small gasholder, and within an isolated area extending south of the small gasholder.
- Impacted soils encountered at OU-1 appear to be limited to depths greater than nine feet bgs, with the exception of solidified coal tar observed in an isolated area along the northern sidewalk of West 44th Street. Solidified coal tar was observed in this area at depths of between three and five feet bgs.

3.2.2 Groundwater

Table 4 summarizes the laboratory analytical results for VOCs, SVOCs, and metals detected in OU-1 groundwater samples during the May 2007 sampling event. Thirteen VOCs, 20 SVOCs and 21 metal compounds were detected in the groundwater samples collected during this sampling event.

For VOCs, each of the BTEX compounds and isopropylbenzene were detected at concentrations exceeding their applicable Groundwater Quality Standards (GWQS) or guidance values in six of the 11 monitoring wells (MW-5, MW-7, MW-8, MW-9, MW-19 and MW-20) sampled during the May 2007 sampling event. Concentrations exceeding the GWQS for SVOCs were detected in eight of the 11 monitoring wells sampled during this event. No SVOCs were detected above GWQS or guidance values in monitoring wells MW-11, MW-16 and MW-55 during the May 2007 sampling event. Five of the 21 detected metal compounds (i.e., antimony, iron, magnesium, manganese and sodium) were detected at concentrations exceeding the GWQS. Results for the analysis of cyanide indicated all detected concentrations were below the GWQS and available cyanide was not detected in any of the groundwater samples collected during the May 2007 sampling event.

In general, groundwater impacts are primarily limited to the east of Highway Route 9A, and the highest VOC and SVOC concentrations are being detected in monitoring wells MW-9 and MW-19 (Figure 13). Monitoring well MW-9 is located in the vicinity of the UPS refueling area and former gasholders at the Site while MW-10 is located in close proximity to the large gasholder

at OU-2. Methyl tert-butyl ether (MTBE) was detected in monitoring wells MW-5, MW-9 and MW-10 during the May 2007 monitoring event. Two of these monitoring wells, MW-9 and MW-10, are downgradient of the UPS refueling area based on groundwater contours generated during the May 2007 gauging event (Figure 8).

3.2.3 Soil Vapor

Table 5 presents the soil gas analytical results. Thirty-seven compounds were detected in the soil gas samples at concentrations ranging from 0.33 µg/m^3 to 610 µg/m^3. The highest total concentration of VOCs was detected in the sample collected at 1-foot bgs at location MW-9. In addition, this is the only soil gas sample in which MTBE was detected. As previously noted, monitoring well MW-9 is located in the vicinity of the UPS fueling area. VOCs including non-MGP related compounds (Freon, chlorinated compounds or methyl tert-butyl ether) were detected in each of the soil gas samples collected. In general, VOC concentrations were higher in the shallow sample (one foot bgs) at soil gas locations SB-27 and SG-2 while higher VOC concentrations were detected in the deeper sample at SG-3 and MW-9.

3.3 QUALITATIVE HUMAN EXPOSURE ASSESSMENT SUMMARY

The information collected during both the Site Characterization and Remedial Investigation has been used to qualitatively assess potential exposure pathways for the various detected compounds at OU-1.

The Former West 45th Street Gas Works Site is located in a highly urbanized area, which is primarily commercial. Accordingly, the current surface at the Site is covered by concrete, asphalt and buildings. Therefore, surface soils are not a potential exposure pathway.

Results from several subsurface soil samples indicate the presence of solidified coal tar and NAPL-impacted soils, as well as VOC and SVOC concentrations exceeding the USCOs or RSCOs for commercial use. The solidified coal tar impacted soils are located beneath the northern West 44th Street Sidewalk (SB-43 and SB-44) at depths ranging from three to five feet. Therefore, it is unlikely that these materials would be encountered during routine use of this area but they may be exposed during maintenance activities (e.g., utility work). The NAPL-impacted subsurface soils were noted at depths ranging from 12 to 33 feet bgs and are covered by the UPS parking lot, West 44th Street and its associated sidewalks. Soils containing the highest total VOC and SVOC concentrations were detected at depths ranging from nine to 33 feet bgs and were generally located within the same areas as the NAPL impacted soils, as well as under the southern sidewalk of West 46th Street and eastern sidewalk of Highway Route 9A. Due to their depths, it is unlikely that NAPL-impacted subsurface soils, or soils containing the highest total VOC or SVOC concentrations, would be encountered during routine use of the area or during maintenance activities. Exposure to impacted subsurface soils may occur during potential future construction activities. However, there are no known plans for future construction activities at the Site.

Groundwater results identified VOC and SVOC concentrations exceeding GWQS at the Site. These GWQS and guidance values are protective of groundwater quality assuming that groundwater is used as a drinking water source. However, groundwater is currently not used at the Site or this area of Manhattan for a potable water source and there are no plans for future use of potable or commercial/industrial groundwater at the Site. Accordingly, the use of Class GA

standards and guidance values for comparison to site groundwater data is conservative. Given the depth of groundwater at OU-1, between 6 and 11 feet bgs, potential exposure to groundwater may occur during future construction activities or maintenance of deep underground utilities such as sewers.

The Hudson River is located west of the Site. VOC and SVOC concentrations in soil samples collected from soil borings and monitoring wells installed along the bike path, adjacent to the Hudson River and downgradient of the former MGP structures, were all below the RSCOs for commercial use. They were all below the USCOs as well with one exception, acetone. However, acetone is a common laboratory artifact and was not detected in groundwater samples collected from monitoring wells MW-16 or MW-55. No VOCs or SVOCs were detected in groundwater at MW-55 and only one VOC and one SVOC were detected in groundwater at MW-16. The VOC detection in MW-16 was slightly above the GWQS and the SVOC detection was below the GWQS. Both of these monitoring wells are located adjacent to the Hudson River.

Soil gas may be a potential pathway for exposure at OU-1. Soil gas sampling results indicate the presence of VOCs, including non-MGP related compounds (Freon, chlorinated compounds, methyl tert-butyl ether), in soil gas samples collected adjacent to buildings located on Block 1092 including the Time Moving & Storage Warehouse, Manhattan Mini-storage, and the two buildings located on the eastern portion of the block adjacent to 11th Avenue. However, further investigation of potential soil vapor intrusion within the UPS building by Con Edison is not warranted due to following reasons 1) MGP source materials (NAPL) was not encountered in soil borings conducted within the building basement, 2) the area of the building located nearest to NAPL-impacted soils associated with OU-1 is operated primarily as a parking garage with a ventilation system and does not contain ground floor or below grade offices, and 3) results indicate that the western portion of the UPS building where offices are present has not been impacted by former MGP operations at OU-1.

Overall, there is no current pathway for human exposure to impacted soils or groundwater at OU-1 during day-to-day operations. However, exposure to impacted soils or groundwater may be possible during intrusive activities (e.g., repair of underground utilities or structures, potential future construction at the Site).

SECTION 4

REMEDIAL GOALS, REMEDIAL ACTION OBJECTIVES AND PROPOSED REMEDIAL ACTION

4.1 REMEDIAL GOALS

The remedial goal for the Site is to ensure that the MGP-related contamination does not present a threat to human health or the environment considering the manner in which the OU-1 properties are utilized. This goal will be achieved by putting into place a plan to prevent uncontrolled exposure to MGP impacted soil and groundwater.

4.2 APPLICABLE STANDARDS, CRITERIA AND GUIDANCE VALUES

The NYSDEC *DER-10* includes a complete list of Standards, Criteria and Guidance (SCGs). The SCGs for soil and groundwater include the 6 NYCRR Part 375-6 RSCOs for commercial use and the NYSDEC *Division of Water Technical and Operational Guidance Series -Water Quality Standards* (*WQS*) - *6 NYCRR 700 to 706* (NYSDEC, 1998). These SCGs represent available criteria and guidance used by the NYSDEC to evaluate soil and groundwater quality. It should be noted, however, that neither the 375-6 SCOs or WQS are directly applicable to the Site groundwater because the local groundwater is not used as a drinking water source, nor will likely be used in the future due to its impaired quality (e.g., very high sodium chloride levels, historic fill impacts and other non-MGP-related contaminants).

4.3 REMEDIAL ACTION OBJECTIVES

Remedial Action Objectives (RAOs) are medium-specific objectives which achieve protection of public health and the environment. RAOs were established based on contaminated media, identified contaminants of concern, SCGs, and results of the exposure assessment. SCGs are promulgated requirements and non-promulgated guidance which guide Site activities during investigation and remediation. The standards and criteria are set forth in Federal or New York State law and they are either directly applicable or relevant and appropriate to a contaminant, remedial action, location, or other circumstance. Guidance includes non-promulgated criteria which should be considered, for investigation and/or remediation. The following generic RAOs are identified on the NYSDEC website and are to be used at the Site:

Groundwater

RAOs for Public Health Protection:

- Prevent ingestion of groundwater with contaminant levels exceeding drinking water standards.
- Prevent contact with, or inhalation of volatiles, from contaminated groundwater.

RAOs for Environmental Protection:

- Restore ground water aquifer to pre-disposal/pre-release conditions, to the extent practicable.

- Prevent the discharge of contaminants to surface water.

Soil

RAOs for Public Health Protection:

- Prevent ingestion/direct contact with contaminated soil.
- Prevent inhalation of or exposure from contaminants volatilizing from contaminants in soil.

RAOs for Environmental Protection:

- Prevent migration of contaminants that would result in groundwater or surface water contamination.
- Prevent impacts to biota from ingestion/direct contact with soil causing toxicity or impacts from bioaccumulation through the terrestrial food chain.

Currently, 6 NYCRR 375 subchapter 1.8(f)9 requires that land use criterion be considered when selecting a remedy for a site. As per 6 NYCRR 375 subchapter 1.8(g), the use of an individual property is to be either unrestricted or restricted. Unrestricted use is a use without imposed restrictions following remediation to Part 375-6 Remedial Program Soil Cleanup Objectives (SCOs) for unrestricted use (i.e., 6 NYCRR Table 6.8 [a]). Restricted uses include imposed controls and restrictions, such as institutional and engineering controls following remediation to Part 375 SCOs for restricted use such as restricted residential, commercial, or industrial use (i.e., 6 NYRCRR Table 6.8 [b]). The individual properties within OU-1 boundary (i.e., buildings and roads) are already developed and usage is not anticipated to change in the near or long term future. Therefore, proper institutional and engineering controls will be sufficient to achieve the RAOs. In summary, to achieve the remedial goals and RAOs for the OU-1 Site, attainment of Track 4 SCOs for commercial use is proposed in accordance with 6 NYCRR Part 375.

The current zones for each parcel based on the New York City Planning Commission Zoning Map 8c are included in Appendix A.

4.4 PROPOSED REMEDIAL ALTERNATIVE

The proposed remedial alternative consists of the following elements and is summarized on Figure 14;

1. Annual groundwater monitoring using the existing OU-1 monitoring well network.
2. Development and implementation of a SMP which will include a Soil Excavation and Handling Plan that will be implemented during future intrusive activities that will encounter MGP-impacted materials. The plan will include procedures to control site worker exposure to MGP-impacted materials, community air monitoring, and proper soil handling/disposal procedures.
3. Establishment of institutional controls in the form of deed restrictions on those properties within the former MGP site boundary as shown on Figure 14; specifically Manhattan Tax Map Block 1092, Lots 7R and 16. These deed restrictions will note the presence of possible contaminants and require the owner to allow compliance

with conditions of the SMP. Institutional controls on these listed properties will also include a prohibition of groundwater usage, and allow use of the properties for commercial and industrial purposes as defined by local zoning laws.

4. Annual site inspections of areas subject to the SMP conditions or institutional controls identified on Figure 14 of the RAWP, to document the site usage and any change in OU-1 site features (e.g., paving, buildings). Changes to site use and/or site features may require re-evaluation of remedial alternatives and/or the extent of areas requiring SMPs and deed restrictions.

Considering the current and future usage of the OU-1 Site, the remedial alternative outlined above is proposed. As discussed below, and per DER-10 subsection 4.2(a)1, the proposed remedial alternative was evaluated against following two threshold criteria.

- Overall Protection of Public Health and the Environment

This criterion is an assessment of whether the alternative meets requirements that are protective of human health and the environment. Overall protection of human health and the environment considers how the proposed remedial alternative prevents or mitigates potential risks. Since the OU-1 is currently paved or covered with concrete building slabs, the potential for exposure to MGP-impacted soil is minimal. In addition, groundwater on-site and in the vicinity of the Site is not utilized for potable purposes. The proposed remedial alternative consists of the development and implementation of a long-term monitoring program and institutional controls to avoid the creation of a completed exposure pathway.

By developing institutional controls on subsurface soils and institutional and engineering controls for groundwater, the risk of human exposure to residual impacts for soil and groundwater can be significantly limited at OU-1. As per NYSDEC's DER-10, a Site Management Plan (SMP) is required where an implementation of institutional and engineering controls is required. The SMP will be applied to the areas shown on Figure 14.

- Compliance with remedial goals, RAOs, and applicable SCGs

By implementing a SMP, direct contact with soil and groundwater will be eliminated or controlled. Exposure to MGP impacted materials will be under controlled conditions reducing potential risks to workers and the community.

4.4.1 Groundwater Monitoring Program

Groundwater samples will be collected from the existing OU-1 monitoring well network which includes MW-7 to MW-11, MW-16, and MW-20 (Figure 14) on an annual basis. Following four sampling events, the data will be evaluated and a recommendation will be made for future monitoring activities. If appropriate based on the data obtained, site conditions, and site use, Con Edison may request from the NYSDEC and NYSDOH that the monitoring frequency and/or parameters be modified.

During each groundwater monitoring event, a comprehensive round of groundwater levels will also be obtained from all accessible monitoring wells at both OU-1 and OU-2.

4.4.2 Site Management Plan

The purpose of the SMP is to provide:

- A description of EC/ICs for OU-1;
- The basic operation and intended role of each implemented EC/IC;
- A description of the features that should be evaluated during each periodic inspection and compliance certification period;
- A description of plans and procedures to be followed for implementation of EC/ICs, such as the implementation of an Excavation Plan for the safe handling of MGP related impacted soils that may be disturbed during maintenance, redevelopment or subsurface utility repair/relocation;
- Any other provisions necessary to identify or establish methods for implementing the EC/ICs required by the site remedy, as determined by the NYSDEC; and
- A description of the reporting requirements for these controls.
- A description of the key components of the ICs created as to be stated in the Deed Restriction documentation for the portions of the site where they apply (Lots 7A and 16 on Block 1092);

The SMP will be developed for the areas shown on Figure 14 once NYSDEC approves this RAWP for OU-1. At a minimum, the SMP will include following items:

- The notification requirements for future soil disturbance activities that will encounter MGP-impacted materials, including building renovation/expansion, subsurface utility line repair/relocation, and new construction;
- Soil Excavation and Handling Plan;
- A flow chart showing guidelines for intrusive activities (Figure 15)
- Monitoring of ECs for groundwater;
- Requirements for evaluation of the need for additional investigation or further delineation based on accessibility due to new site construction or changes in site use;
- Requirements for annual inspections and certifications in accordance with DER-10; and
- Groundwater Monitoring Program.

4.4.3 Health and Safety

For future intrusive construction activities, the contractor or owner will prepare a site-specific Health and Safety Plan (HASP) that meets the requirements of DER-10, and 29 CFR 1910, 29 CFR 1926, and all other applicable federal, New York State and local laws and regulations.

The New York State Department of Health (NYSDOH) requires that during intrusion activities at contaminated sites, real-time monitoring for VOCs and particulates (i.e., dust) be conducted at the downwind perimeter of each designated work area. This air monitoring should be conducted during future intrusive remediation or construction excavation activities in

accordance with the NYSDOH Generic Community Air Monitoring Plan (CAMP) provided as Appendix B.

The purpose of the air monitoring program is to ensure that the community and general public are not exposed to hazardous constituents at levels above accepted regulatory limits. For the future remediation and construction activities, the worker protection and community air monitoring will be conducted by a contractor or owner's representative who will have the authority to act as the Site Health and Safety Officer (HSO).

4.4.4 Deed Restrictions

The deed restrictions envisioned for the affected property (see areas subject to institutional controls on Figure 14) include the restriction of property use to a commercial purpose and groundwater use restrictions until such time that the soil and groundwater are of acceptable quality as determined by NYSDEC.

4.4.5 Annual Site Inspections

In accordance with DER-10 Section 6.3, a Periodic Review Report (PRR) will be submitted to the NYSDEC to document the efficacy of the institutional controls. An inspection checklist that will be used during the PRR is included in Appendix C. The PRR will be signed by a professional engineer or other qualified environmental professional. If changes are noted, the PRR will include documentation explaining why the certification cannot be rendered and a statement of proposed corrective measures with a proposed schedule for implementing the corrective action.

SECTION 5

SCHEDULE

The schedule presented below is based on completing the RAWP and submitting Deed Restrictions (DR) for the affected OU-1 property. It is anticipated that the Final RAWP will be prepared after public comments are received on this RAWP. It is important to note that the schedule shown below presents the duration of time to complete the described tasks and tasks are dependent upon the successful completion of an earlier task (e.g. Final RAWP cannot be completed until the public comments are received).

Task	Duration
Public Comments	30 Days
Revised RAWP as per the public comments	6 Weeks
Draft SMP	12 Weeks
NYSDEC Comments on SMP	6 Weeks
Deed Restriction(s)	TBD
Final SMP	4 Weeks

SECTION 6

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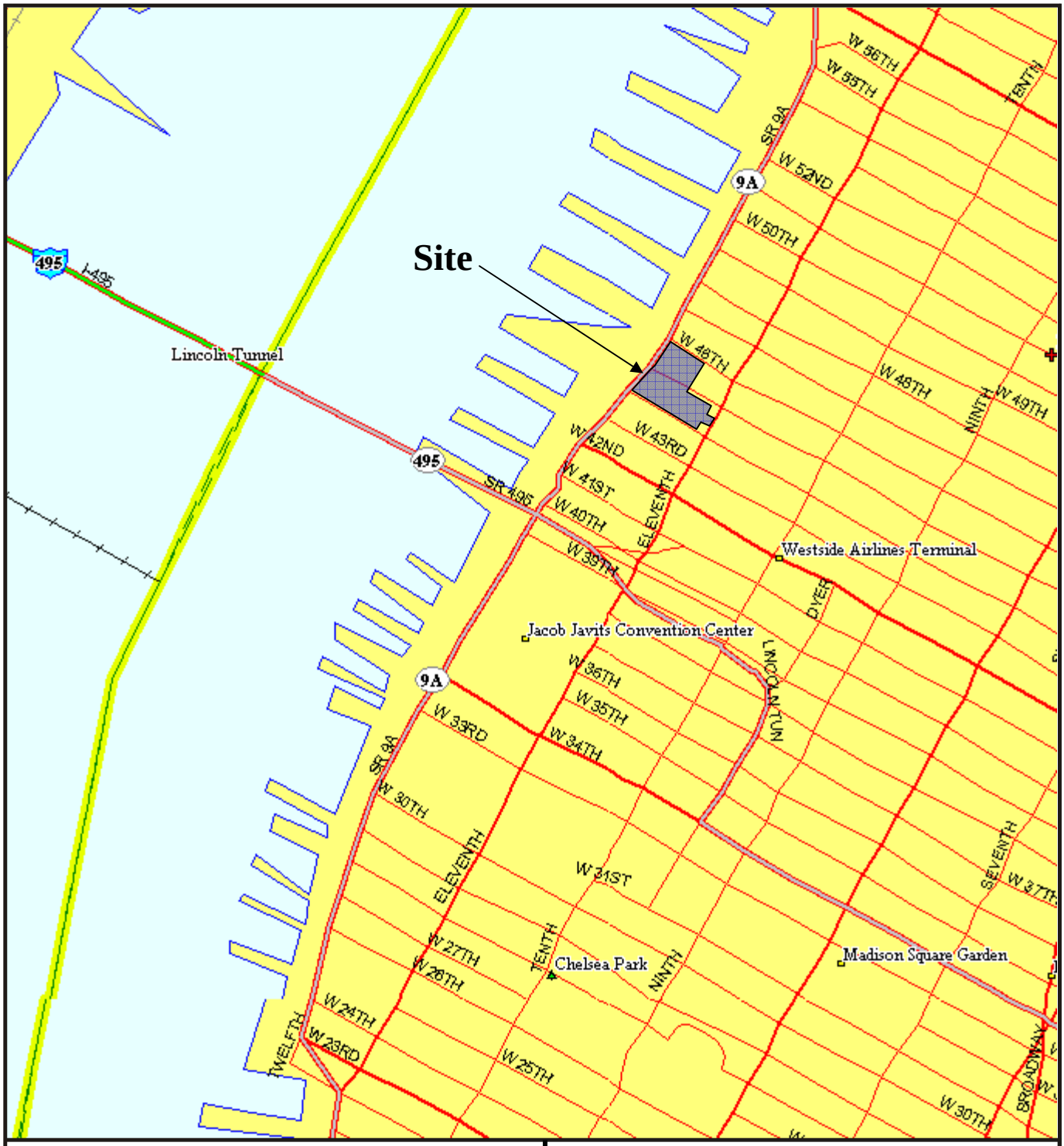
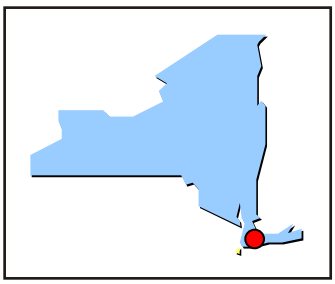
.

FIGURES





New York Quadrangle

LATITUDE: N40° 45' 46"
LONGITUDE: W73° 59' 56"

N

0.200 MI

Figure 1

CONSOLIDATED EDISON

NEW YORK, NEW YORK

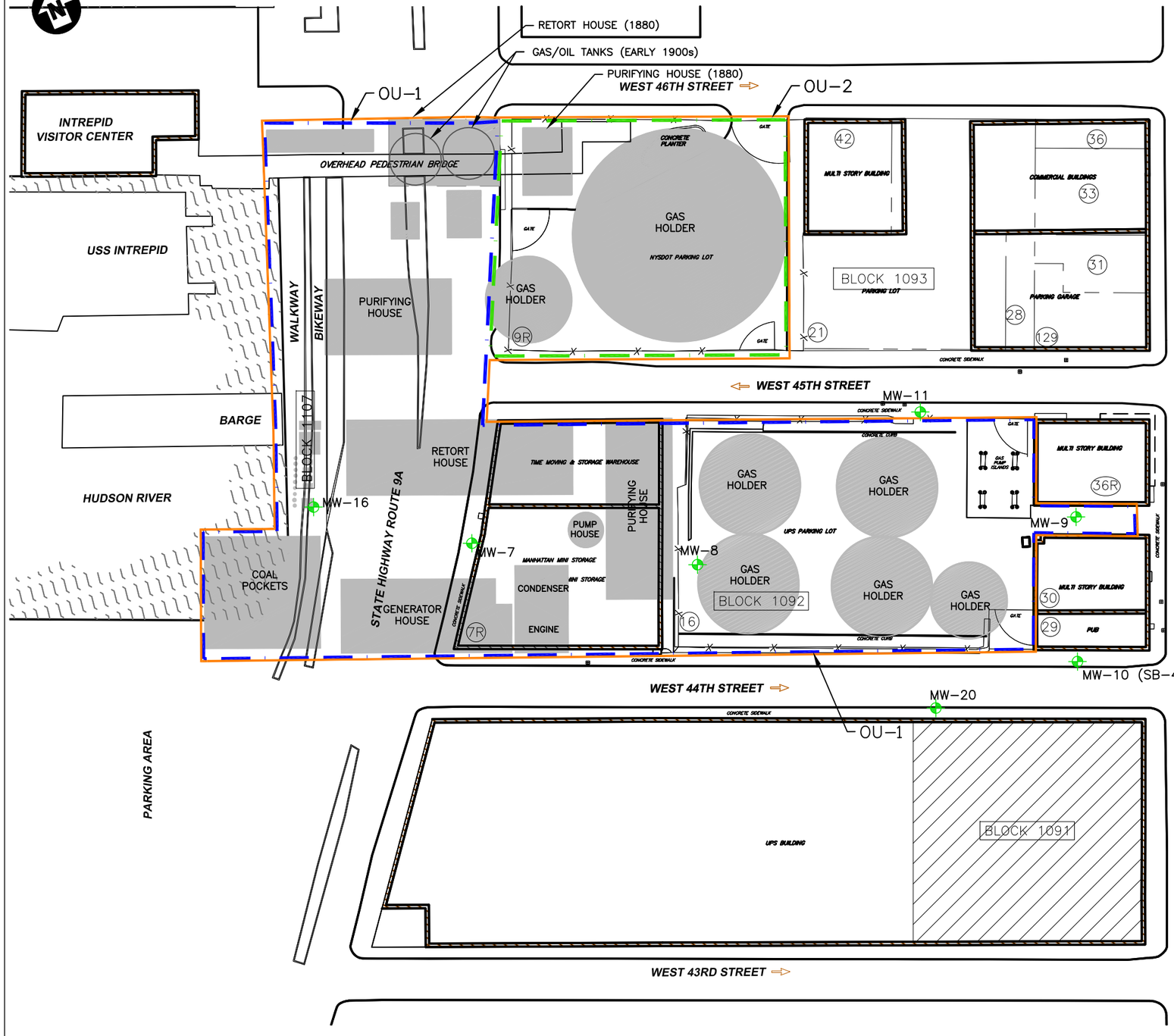
SITE LOCATION MAP

FORMER WEST 45th STREET GAS WORKS

PARSONS

301 PLAINFIELD ROAD, SUITE 350, SYRACUSE, N.Y. 13212 * (315) 451-9560
Offices in Principal Cities

P:\ConEd741280\CAD\45TH\SITELOC.PPT



LEGEND:

- CURRENT FEATURES
- HISTORICAL FEATURES (LOCATIONS ARE APPROXIMATE)
- EXISTING BUILDING
- CHAIN LINK FENCE
- LIMITS OF OU–1
- LIMITS OF OU–2
- OVERALL SITE BOUNDARY
- BLOCK 1093 — TAX BLOCK NUMBER
- (21) — TAX LOT NUMBER FOR PARCELS WITHIN FORMER MGP
- TAX LOT BOUNDARIES
- APPROXIMATE EXTENT OF UPS PARKING GARAGE

100 50 0 100 200

SCALE: 1"=100'

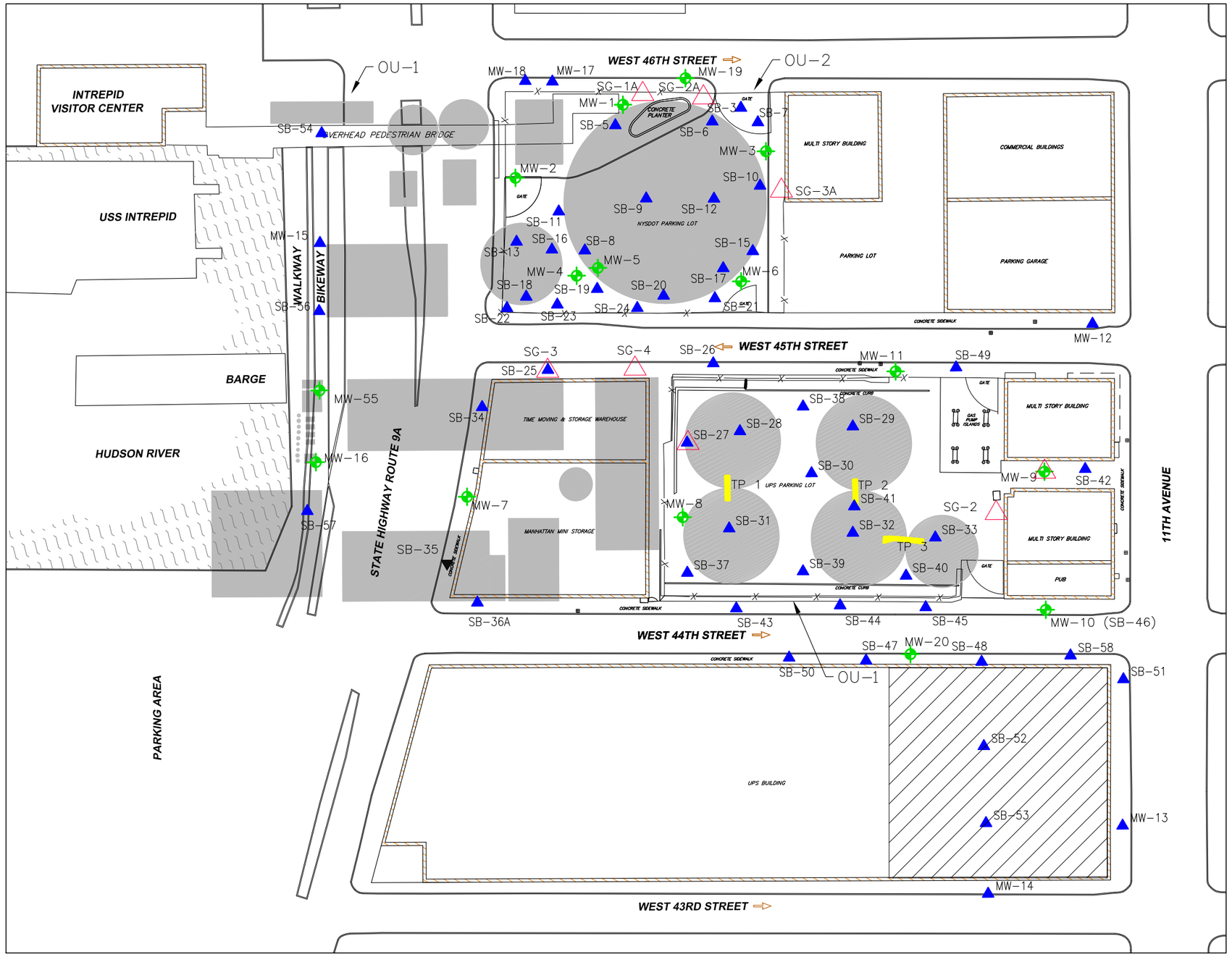
FILE NAME: P:\CONED\446672 – W45TH OU2\CAD\10-28-14\446672-SK001-FIG 2.DWG
PLOT DATE: 10/28/2014 3:01 PM PLOTTED BY: RUSSO, JILL

FIGURE 2

CONSOLIDATED EDISON OF NEW YORK
WEST 45th STREET
NEW YORK, NEW YORK

FORMER MGP STRUCTURES

PARSONS
301 PLAINFIELD ROAD, SUITE 350, SYRACUSE, N.Y. 13212, PHONE: 315–451–9560



LEGEND:

- CURRENT FEATURES
- HISTORICAL FEATURES (LOCATIONS ARE APPROXIMATE)
- EXISTING BUILDING
- CHAIN LINK FENCE
- MW-1 — MONITORING WELL
- SB-5 — SOIL BORING
- SB-35 — SOIL BORING WAS NOT ADVANCED DUE TO THE PRESENCE OF A SUBSURFACE OBSTRUCTION.
- SG-1A — SOIL GAS
- TEST PIT
- APPROXIMATE EXTENT OF UPS PARKING GARAGE

NOTE:

MONITORING WELLS WERE NOT INSTALLED AT MW-12, MW-13, MW-14, MW-15, MW-17 AND MW-18. GROUNDWATER WAS NOT OBSERVED IN THE BORINGS AT THESE LOCATIONS.

100 50 0 100 200

SCALE: 1"=100'

FIGURE 3

CONSOLIDATED EDISON OF NEW YORK
WEST 45th STREET
NEW YORK, NEW YORK

SAMPLE LOCATION MAP

PARSONS
301 PLAINFIELD ROAD, SUITE 350, SYRACUSE, N.Y. 13212, PHONE: 315-451-9560

FILE NAME: P:\CONED\446672 - W45TH OU2\CAD\10-28-14\446672-SK004-FIG 3.DWG
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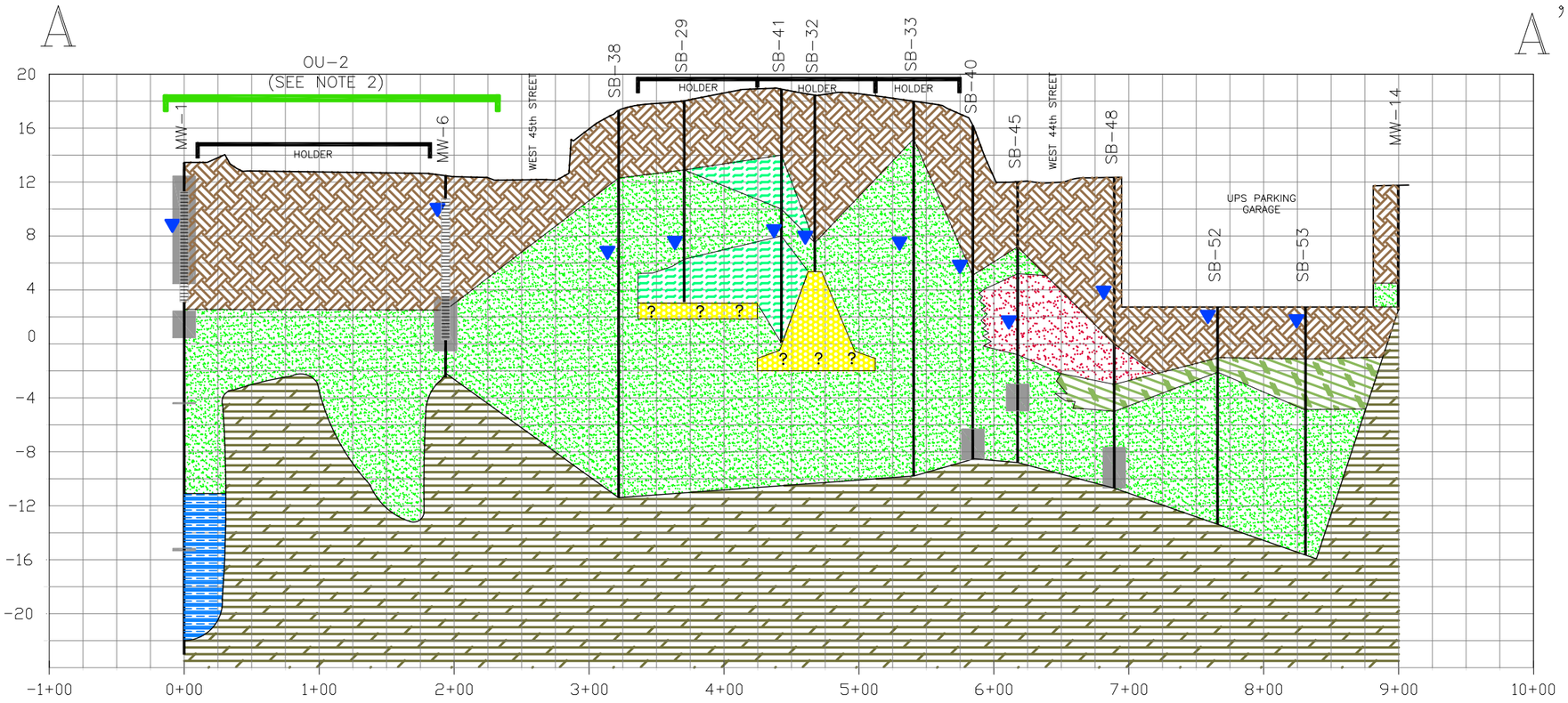

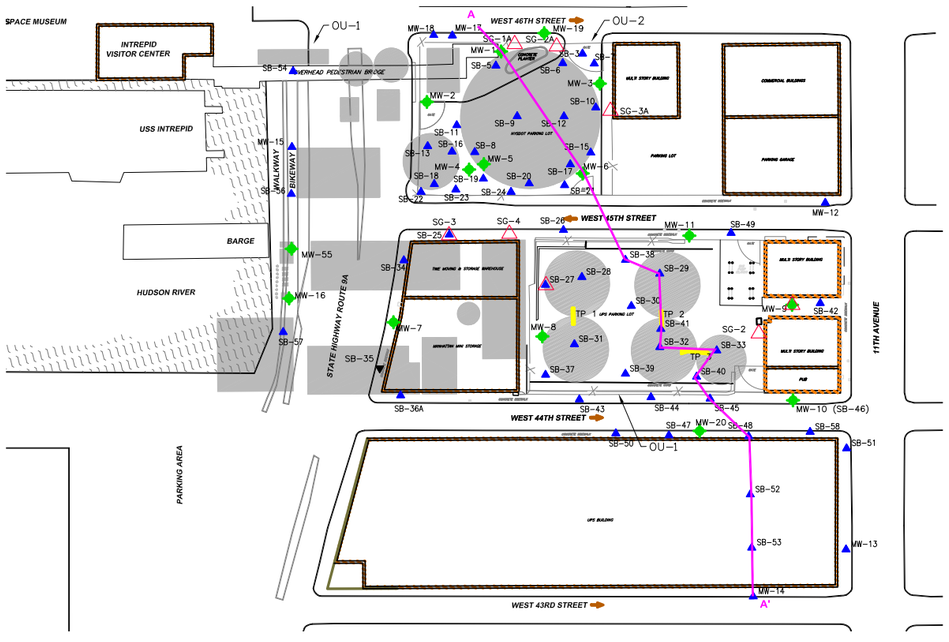

KEY MAP SHOWING CROSS-SECTION LINE A-A'

LEGEND:

- FILL (SAND, GRAVEL, BRICK, CONCRETE)
- SILT
- SAND
- PEAT
- CLAY
- GRAVEL
- SUSPECTED BEDROCK
- SUSPECTED HOLDER BOTTOM
- VISIBLE NAPL OR SOLIDIFIED COAL TAR
- ELEVATION OF WATER TABLE
- WELL SCREEN FOR MONITORING WELL
- SOIL BORING

NOTES:

1. ELEVATIONS BASED ON NAVD88.
2. SUBSURFACE CONDITIONS AT OU-2 WERE TAKEN FROM THE SITE CHARACTERIZATION REPORT FOR THE FORMER WEST 45th STREET WORKS SITE OU-2 (PARSONS, 2003).

10 5 0 10 20

SCALE: 1"=10'

VERTICAL SCALE

100 50 0 100 200

SCALE: 1"=100'

HORIZONTAL SCALE

FIGURE 4

CONSOLIDATED EDISON OF NEW YORK
WEST 45th STREET
NEW YORK, NEW YORK

CROSS SECTION A-A'

PARSONS
290 ELWOOD DAVIS ROAD, SUITE 312, LIVERPOOL, N.Y. 13088, PHONE: 315-451-9560

FILE NAME: P:\CONED\442145 - WEST 45TH STREET\CAD\RIR REPORT\442145RIR006.DWG
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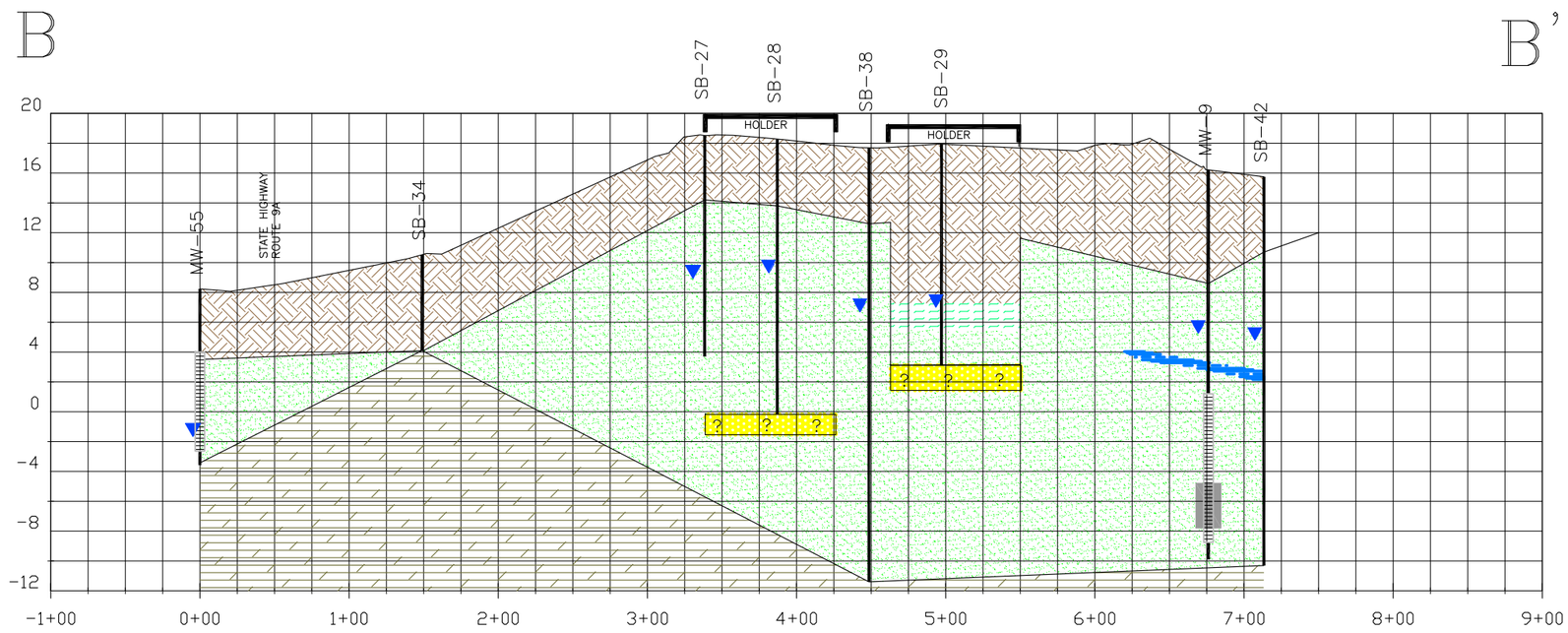

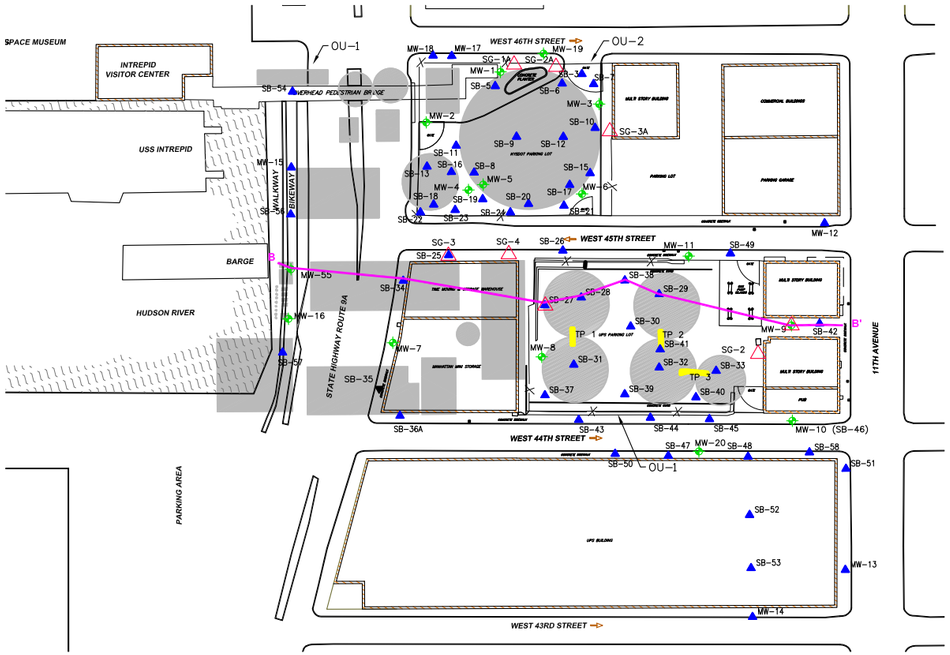

KEY MAP
SHOWING CROSS-SECTION LINE B-B'

LEGEND:

- FILL (SAND, GRAVEL, BRICK, CONCRETE)
- SILT
- SAND
- PEAT
- CLAY
- GRAVEL
- SUSPECTED BEDROCK
- SUSPECTED HOLDER BOTTOM
- VISIBLE NAPL OR SOLIDIFIED COAL TAR
- ELEVATION OF WATER TABLE
- WELL SCREEN FOR MONITORING WELL
- SOIL BORING

NOTE: ELEVATIONS BASED ON NAVD88.

10 5 0 10 20

SCALE: 1"=10'
VERTICAL SCALE

100 50 0 100 200

SCALE: 1"=100'
HORIZONTAL SCALE

FIGURE 5

CONSOLIDATED EDISON OF NEW YORK
WEST 45th STREET
NEW YORK, NEW YORK

CROSS SECTION B-B'

PARSONS
290 ELWOOD DAVIS ROAD, SUITE 312, LIVERPOOL, N.Y. 13088, PHONE: 315-451-9560

FILE NAME: P:\CONED\442145 - WEST 45TH STREET\CAD\RIR REPORT\442145RIR006.DWG
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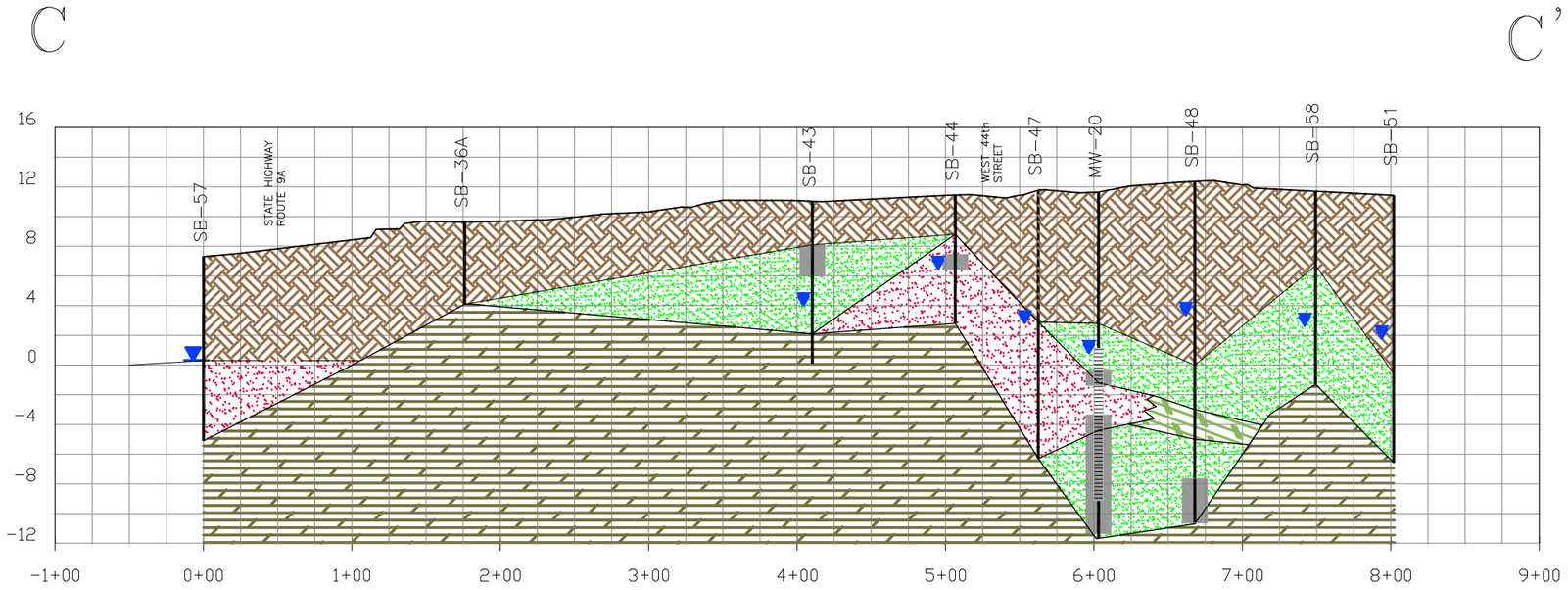

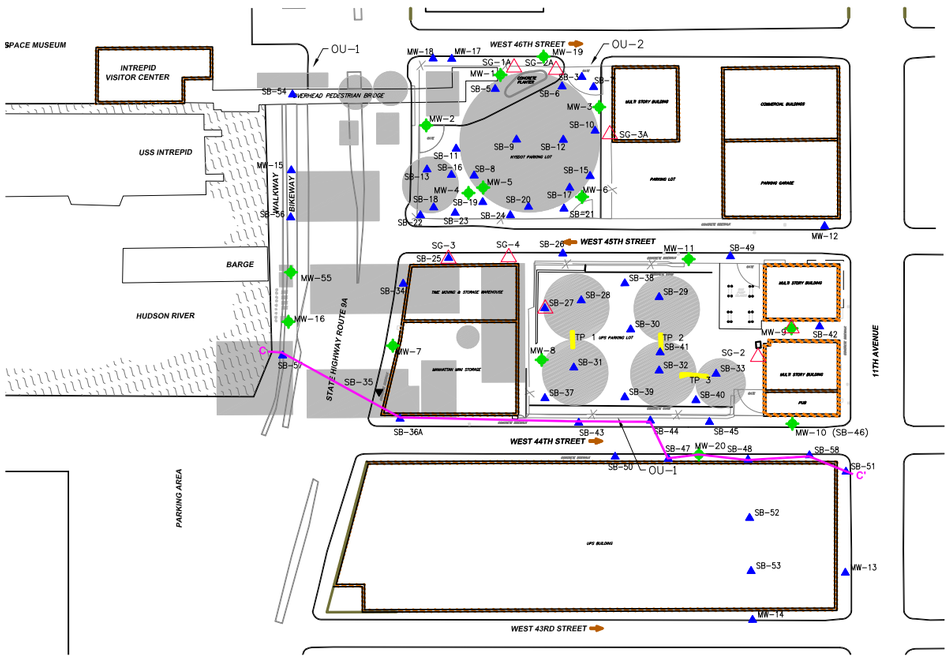

KEY MAP
SHOWING CROSS-SECTION LINE C-C'

LEGEND:

- FILL (SAND, GRAVEL, BRICK, CONCRETE)
- SILT
- SAND
- PEAT
- CLAY
- GRAVEL
- SUSPECTED BEDROCK
- SUSPECTED HOLDER BOTTOM
- VISIBLE NAPL OR SOLIDIFIED COAL TAR
- ELEVATION OF WATER TABLE
- WELL SCREEN FOR MONITORING WELL
- SOIL BORING

NOTE: ELEVATIONS BASED ON NAVD88.

10 5 0 10 20

SCALE: 1"=10'
VERTICAL SCALE

100 50 0 100 200

SCALE: 1"=100'
HORIZONTAL SCALE

FIGURE 6

CONSOLIDATED EDISON OF NEW YORK
WEST 45th STREET
NEW YORK, NEW YORK

CROSS SECTION C-C'

PARSONS
290 ELWOOD DAVIS ROAD, SUITE 312, LIVERPOOL, N.Y. 13088, PHONE: 315-451-9560

FILE NAME: P:\CONED\442145 - WEST 45TH STREET\CAD\RIR REPORT\442145RIR006.DWG
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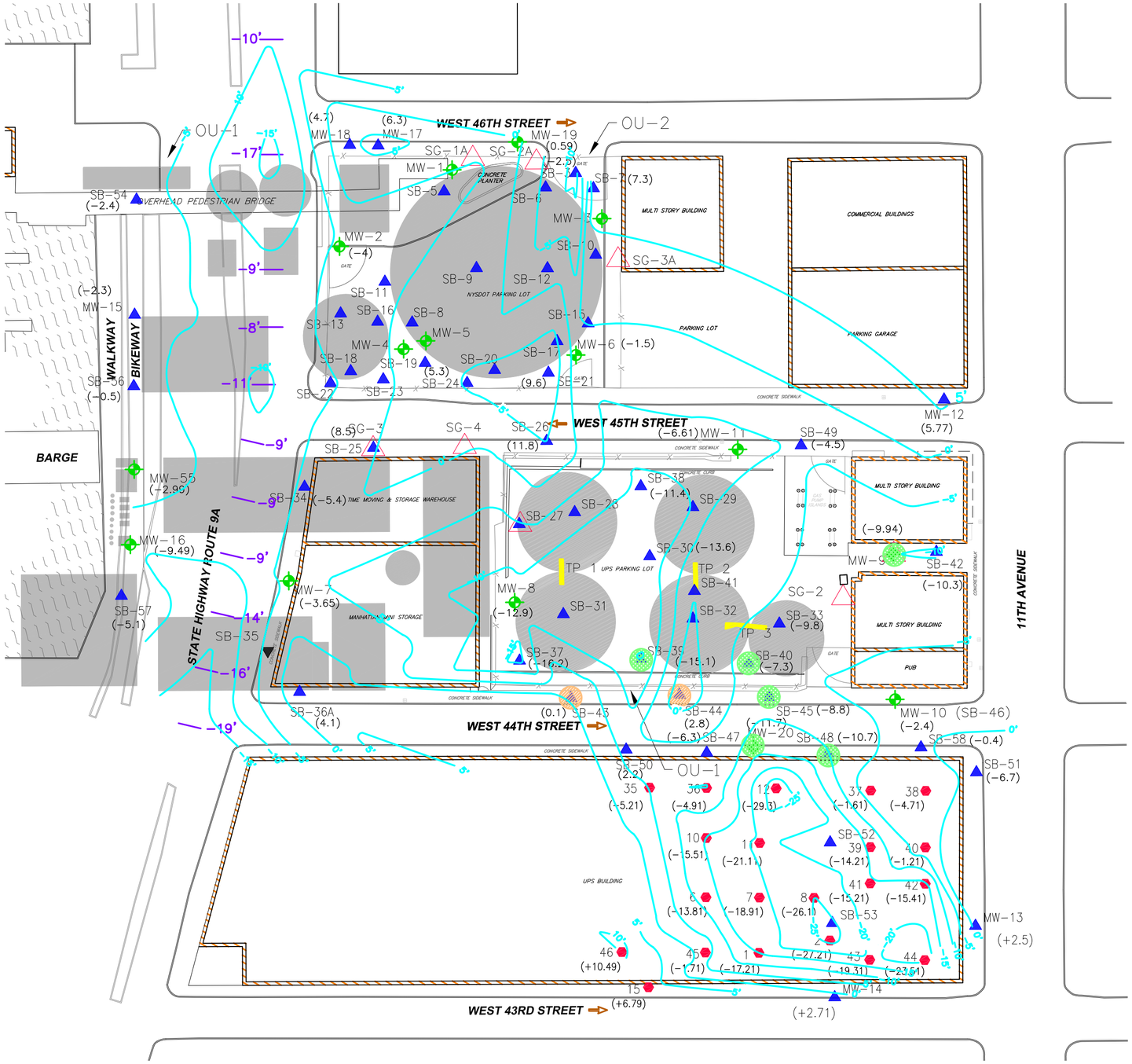

LEGEND:

- CURRENT FEATURES
- HISTORICAL FEATURES (LOCATIONS ARE APPROXIMATE)
- EXISTING BUILDING
- CHAIN LINK FENCE
- MEDIAN
- MW-1 — MONITORING WELL
- SB-5 — SOIL BORING
- TEST PIT
- HISTORICAL BORINGS
- (10.15) — SUSPECTED BEDROCK ELEVATION (NAVD88)
- SOLIDIFIED COAL TAR OBSERVED
- NAPL OBSERVED
- -10 — INTERCEPTING SEWER
- -10 — SUSPECTED BEDROCK ELEVATION 5 FT CONTOURS (DASHED WHERE INFERRED)
- SB-35 ▼ — SOIL BORING SB-35 WAS NOT ADVANCED DUE TO THE PRESENCE SUBSURFACE OBSTRUCTION.

NOTES:

1. CONTOURS TO BEDROCK ARE BASED ON INTERPRETATION OF AVAILABLE DESCRIPTIONS OF BORING LOGS AND FIELD NOTES.

2. CONTOURS HAVE BEEN DRAWN IN REFERENCE TO NATURAL BEDROCK STRUCTURE, TRENDING IN A NORTHEAST DIRECTION, DIPPING AT APPROXIMATELY 55 TO 75 DEGREES SOUTHWEST.

3. ELEVATIONS ALONG STATE HIGHWAY ROUTE 9A WERE TAKEN FROM THE CITY OF NEW YORK BUREAU OF WATER POLLUTION CONTROL SEWER MAPS (INTERCEPTING SEWER), JULY 1968.

4. NON-BEDROCK REFUSAL WAS ENCOUNTERED AT MW-1, MW-3, MW-4, MW-5, SB-27, SB-28, SB-29, SB-31, SB-32 AND SB-41.

5. HISTORICAL BORING LOCATIONS AND ELEVATIONS ARE ESTIMATED BASED ON HISTORICAL DRAWINGS OBTAINED FROM UPS DATED 1959. IT WAS ASSUMED ELEVATIONS ILLUSTRATED ON THE HISTORICAL DRAWINGS WERE BASED ON NGVD29. ELEVATIONS WERE CONVERTED TO NAVD88.

6. ELEVATIONS BASED ON NAVD88.

COAL TAR OBSERVATIONS

LOCATION	APPROXIMATE DEPTH OBSERVED (FEET bgs)
SB-43	3-5'
SB-44	4-5'

NAPL OBSERVATIONS

LOCATION	APPROXIMATE DEPTH OBSERVED (FEET bgs)
MW-9	21-24'
MW-20	12-13'; 15-23'
SB-39	31-33'
SB-40	23-25'
SB-45	15-17'
SB-48	20-23'

80 40 0 80 160

SCALE: 1"=80'

FIGURE 7

CONSOLIDATED EDISON OF NEW YORK
WEST 45th STREET
NEW YORK, NEW YORK

SUSPECTED BEDROCK ELEVATIONS AND NAPL SUMMARY

PARSONS
301 PLAINFIELD ROAD, SUITE 350, SYRACUSE, N.Y. 13212, PHONE: 315-451-9560

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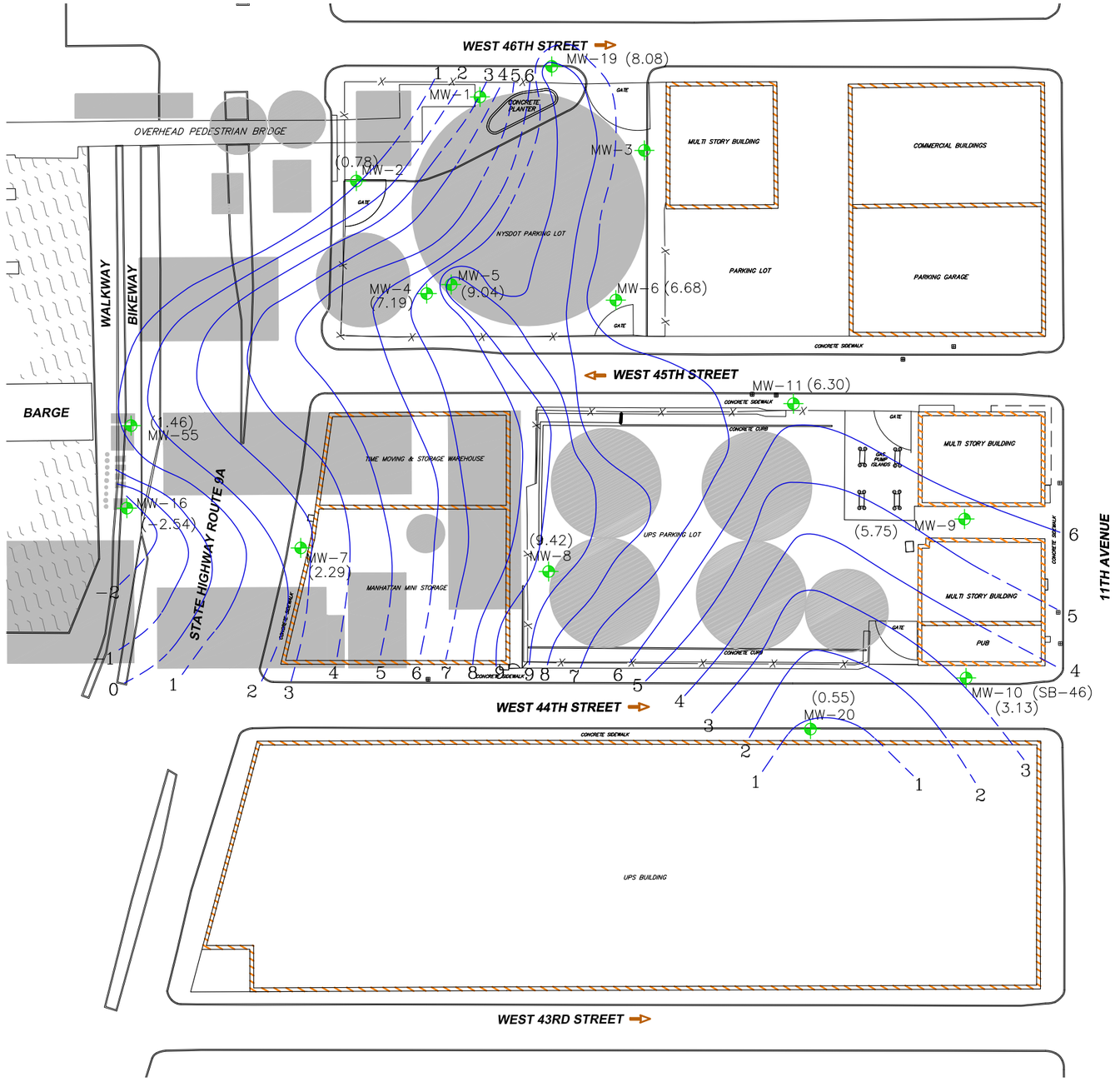

LEGEND

CURRENT FEATURES

HISTORICAL FEATURES (LOCATIONS ARE APPROXIMATE)

EXISTING BUILDING

(0.39) GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL (NAVD 88) BASED ON 5/22/07 WATER LEVEL MEASUREMENTS.

CHAIN LINK FENCE

MW-7 MONITORING WELL

GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)

NOTES:

1. MW-1 WAS DAMAGED AND NOT USEABLE.

2. MW-3 NOT ACCESSIBLE, COVERED BY CONSTRUCTION TRAILER.

100 50 0 100 200

SCALE: 1"=100'

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FIGURE 8

CONSOLIDATED EDISON OF NEW YORK
WEST 45th STREET
NEW YORK, NEW YORK

GROUNDWATER CONTOUR MAP

PARSONS
290 ELWOOD DAVIS ROAD, SUITE 312, LIVERPOOL, N.Y. 13088, PHONE: 315-451-9560

MW–19	9–11'	13–15'
BENZENE	12	2
ETHYL BENZENE	46	3.7
ISOPROPYLBENZENE	1.8	0.2
STYRENE	0.25	0.094
TOLUENE	2.1	2.1
m/p–XYLENES	51	4.6
o–XYLENE	22	2
TOTAL VOCs	***135.15***	***14.694***

SB–30	7–9'	32–32.5'	32.5'
ACETONE	ND	ND	0.017
BENZENE	ND	650	0.69
BROMODICHLOROMETHANE	ND	1.7	ND
2–BUTANONE	ND	7	ND
cis–1,3–DICHLOROPROPENE	ND	27	ND
CYCLOHEXANE	ND	12	ND
DIBROMODICHLOROMETHANE	ND	2.8	ND
1,1–DICHLOROETHENE	ND	1.8	ND
1,2–DICHLOROETHANE	ND	18	ND
ETHYL BENZENE	0.007	1200	2.2
2–HEXANONE	ND	45	ND
ISOPROPYLBENZENE	ND	100	ND
4–METHYL–2–PENTANONE	ND	27	ND
METHYLCYCLOHEXANE	ND	51	ND
METHYLENE CHLORIDE	0.01	ND	ND
STYRENE	ND	190	0.93
TOLUENE	ND	1400	2.5
1,1,2,2–TETRACHLOROETHANE	ND	5.3	ND
1,1,2–TRICHLOROETHANE	ND	4.4	ND
m/p–XYLENES	ND	1400	4.6
o–XYLENE	0.0066	580	3.9
TOTAL VOCs	***0.0236***	***5770.7***	***14.837***

SB–38	5–7'	27–29'	29'
BENZENE	0.044	0.032	0.2
CARBON DISULFIDE	0.0046	0.0064	0.008
ETHYL BENZENE	0.047	0.02	0.055
METHYLENE CHLORIDE	0.013	ND	ND
STYRENE	0.0041	ND	0.011
TOLUENE	0.079	0.046	0.21
m/p–XYLENES	0.063	0.023	0.081
o–XYLENE	0.025	0.01	0.031
TOTAL VOCs	***0.2797***	***0.1374***	***0.596***

SB–29	7–9'	11–13'	13–15'
BENZENE	ND	0.19	ND
CARBON DISULFIDE	ND	0.0032	ND
CYCLOHEXANE	ND	0.0033	ND
ETHYL BENZENE	ND	0.016	ND
ISOPROPYLBENZENE	0.00064	0.011	ND
METHYLCYCLOHEXANE	ND	0.011	ND
METHYLENE CHLORIDE	0.0024	ND	ND
STYRENE	ND	0.011	ND
TOLUENE	ND	0.16	ND
m/p–XYLENES	ND	0.06	ND
o–XYLENE	0.002	0.028	ND
TOTAL VOCs	***0.00504***	***0.4935***	***ND***

MW/SB–17	5–7'
ISOPROPYLBENZENE	0.0012
METHYLENE CHLORIDE	0.016
NAPHTHALENE	0.0067
n–BUTYLBENZENE	0.0044
SEC–BUTYLBENZENE	0.0017
1,2,4–TRIMETHYLBENZENE	0.015
1,3,5–TRIMETHYLBENZENE	0.0054
TOTAL VOCs	***0.0504***

MW–11	3.5–4'	8–10'	18–20'
ACETONE	0.64	ND	0.0029
BENZENE	ND	0.003	ND
ISOPROPYLBENZENE	ND	0.0014	ND
METHYLENE CHLORIDE	R	0.0018	0.0013
NAPHTHALENE	ND	0.028	0.0024
tert–BUTYLBENZENE	ND	0.0012	ND
1,2,4–TRIMETHYLBENZENE	ND	0.0015	ND
TOTAL VOCs	***0.64***	***0.0369***	***0.0066***

SB–54	7–9'	9–11'
ACETONE	0.066	0.036
TOTAL VOCs	***0.066***	***0.036***

MW/SB–15	7–9'
ACETONE	0.034
TOTAL VOCs	***0.034***

SB–26	5–7'
2–BUTANONE	0.02
TOTAL VOCs	***0.02***

SB–56	7–9'
ACETONE	0.066
TOTAL VOCs	***0.066***

MW–8	9–11'	31–33'
ACETONE	4.4	3.8
BENZENE	ND	0.18
2–BUTANONE	1.6	1.5
ETHYL BENZENE	0.083	0.95
METHYLCYCLOHEXANE	ND	0.19
TETRACHLOROETHENE	0.25	0.23
TOLUENE	ND	0.28
m/p–XYLENES	0.18	0.91
o–XYLENE	0.12	0.41
TOTAL VOCs	***6.633***	***8.45***

MW–55	7–9'	11–15'
ACETONE	ND	0.035
TOTAL VOCs	***ND***	***0.035***

MW–16	15–17'	17–19'
ACETONE	0.076	0.065
BENZENE	ND	0.0074
CARBON DISULFIDE	0.0069	ND
CYCLOHEXANE	ND	0.011
ETHYL BENZENE	0.021	0.019
ISOPROPYLBENZENE	0.0094	ND
METHYLCYCLOHEXANE	ND	0.063
m/p–XYLENES	0.0078	0.0073
o–XYLENE	0.012	0.0088
TOTAL VOCs	***0.1331***	***0.1815***

SB–57	7–9'	11–13'
CARBON DISULFIDE	0.023	0.023
TOTAL VOCs	***0.023***	***0.023***

MW–7	9–11'
ACETONE	44
BENZENE	1.4
2–BUTANONE	16
ETHYL BENZENE	88
ISOPROPYLBENZENE	17
TOLUENE	9.5
m/p–XYLENES	47
o–XYLENE	51
TOTAL VOCs	***273.9***

SB–36A	5–5.5'
ACETONE	0.04
BENZENE	0.012
ETHYL BENZENE	0.0085
STYRENE	0.016
TOLUENE	0.024
m/p–XYLENES	0.068
o–XYLENE	0.074
TOTAL VOCs	***0.2425***

SB–31	11–13'	15–17'
BENZENE	0.026	ND
ETHYL BENZENE	0.016	ND
TOLUENE	0.034	ND
m/p–XYLENES	0.03	ND
o–XYLENE	0.013	ND
TOTAL VOCs	***0.119***	***ND***

SB–37	23–25'	32–34'
BENZENE	4.5	0.0037
CARBON DISULFIDE	0.014	0.006
ETHYL BENZENE	18	ND
STYRENE	0.088	ND
TOLUENE	8.2	ND
m/p–XYLENES	24	ND
o–XYLENE	11	ND
TOTAL VOCs	***65.802***	***0.0097***

SB–43	1–3'	7–9'
ACETONE	0.044	0.05
BENZENE	0.016	0.16
CARBON DISULFIDE	ND	0.015
ETHYL BENZENE	0.23	2.5
ISOPROPYLBENZENE	0.065	0.74
STYRENE	0.012	0.047
TOLUENE	0.088	1
m/p–XYLENES	0.32	2.9
o–XYLENE	0.31	2.4
TOTAL VOCs	***1.085***	***9.812***

SB–39	5–7'	31–33'
ACETONE	ND	0.32
BENZENE	0.015	330
2–BUTANONE	ND	0.84
ETHYL BENZENE	0.031	960
STYRENE	ND	3.9
TOLUENE	0.039	1000
m/p–XYLENES	0.037	970
o–XYLENE	0.017	400
TOTAL VOCs	***0.139***	***3665.06***

SB–50	5–7'	9–11'
ACETONE	0.024	0.024
2–BUTANE	0.0049	ND
CARBON DISULFIDE	ND	0.0013
TOTAL VOCs	***0.0289***	***0.0037***

SB–44	7–9'
ACETONE	0.14
BENZENE	0.24
2–BUTANONE	0.075
ETHYL BENZENE	0.75
ISOPROPYLBENZENE	0.18
METHYLCYCLOHEXANE	0.097
STYRENE	0.029
TOLUENE	0.031
m/p–XYLENES	0.47
o–XYLENE	0.4
TOTAL VOCs	***2.412***

MW–20	15–17'	21–23'	23–25'
BENZENE	0.016	0.98	0.23
ETHYL BENZENE	0.08	0.15	0.77
ISOPROPYLBENZENE	0.016	0.0058	0.11
STYRENE	ND	0.0042	ND
TOLUENE	ND	0.53	0.13
m/p–XYLENES	0.027	0.24	0.62
o–XYLENE	0.33	0.13	0.36
TOTAL VOCs	***0.172***	***2.04***	***2.22***

TP–3	5–10'	10'
BENZENE	ND	0.0028
TOTAL VOCs	***ND***	***0.0028***

SB–49	7–9'	17–19'
METHYL tert–butyl ETHER	ND	0.0064
METHYLENE CHLORIDE	0.0019	ND
tert–butyl ALCOHOL	0.011	R
TOTAL VOCs	***0.129***	***0.0064***

MW–12	8–10'
METHYLENE CHLORIDE	0.0074
TOTAL VOCs	***0.0074***

SB–41	9–11'	19–21'
CARBON DISULFIDE	ND	0.014
2–HEXANONE	ND	0.18
TOTAL VOCs	***ND***	***0.194***

SB–32	11–13'
BENZENE	0.14
CARBON DISULFIDE	0.023
ETHYL BENZENE	0.012
METHYLENE CHLORIDE	0.015
TOLUENE	0.034
m/p–XYLENES	0.02
o–XYLENE	0.0087
TOTAL VOCs	***0.2527***

MW–9	21–23'	25–27'
BENZENE	2.6	0.019
ETHYL BENZENE	43	0.013
TOLUENE	6.8	ND
m/p–XYLENES	30	0.0098
o–XYLENE	17	0.0071
TOTAL VOCs	***99.4***	***0.0489***

SB–42	17–19'	25–27'
CARBON DISULFIDE	ND	0.0043
METHYL tert–butyl ETHER	ND	0.0033
TOTAL VOCs	***ND***	***0.0076***

SB–33	17–19'	DUP. 17–19'	27–28'
ACETONE	4.2	0.65	ND
BENZENE	22	13	ND
2–BUTANONE	0.79	0.098	ND
CARBON DISULFIDE	ND	0.021	ND
ETHYL BENZENE	49	13	ND
STYRENE	0.023	0.025	ND
TETRACHLOROETHENE	ND	ND	0.033
TOLUENE	6.1	1.4	ND
m/p–XYLENES	47	16	ND
o–XYLENE	26	8.1	ND
TOTAL VOCs	***157.113***	***52.294***	***0.033***

SB–40	0.5–1.0'	9–11'	23–25'
ACETONE	0.032	ND	ND
BENZENE	0.0044	0.0066	14
CARBON DISULFIDE	ND	ND	0.0027
ETHYL BENZENE	0.084	0.069	58
METHYLENE CHLORIDE	0.13	ND	ND
STYRENE	ND	ND	0.021
TOLUENE	0.013	0.015	4.2
m/p–XYLENES	0.095	0.036	40
o–XYLENE	0.22	0.03	22
TOTAL VOCs	***0.5784***	***0.1566***	***138.22***

SB–46(MW–10)	11–13'	13–15'
ACETONE	ND	0.15
BENZENE	ND	0.2
2–BUTANONE	ND	0.045
CARBON DISULFIDE	ND	0.0098
ETHYL BENZENE	ND	0.011
ISOPROPYLBENZENE	ND	0.033
TOLUENE	ND	0.0038
m/p–XYLENES	ND	0.016
o–XYLENE	ND	0.012
TOTAL VOCs	***ND***	***0.4806***

SB–51	12–14'	16–18'
METHYL CHLORIDE	ND	0.0013
tert–butyl–ALCOHOL	R	0.0099
TOTAL VOCs	***ND***	***0.0112***

SB–48	20–21'	23'
BENZENE	550	ND
ETHYL BENZENE	310	ND
ISOPROPYLBENZENE	6.7	ND
STYRENE	670	0.18
TOLUENE	1100	ND
m/p–XYLENES	870	0.17
o–XYLENE	400	0.1
TOTAL VOCs	***3906.7***	***0.45***

SB–45	5–7'	19–21'
BENZENE	0.32	0.75
2–BUTANONE	0.035	ND
ETHYL BENZENE	0.027	26
ISOPROPYLBENZENE	ND	4.3
METHYLCYCLOHEXANE	ND	0.18
STYRENE	0.0077	ND
TOLUENE	0.056	0.68
m/p–XYLENES	0.017	21
o–XYLENE	0.0067	11
TOTAL VOCs	***0.4694***	***63.91***

SB–52	12–14'	14–16'
BENZENE	0.021	ND
ETHYL BENZENE	0.058	0.42
ISOPROPYLBENZENE	ND	0.041
m/p–XYLENES	0.027	0.3
o–XYLENE	0.026	0.2
TOTAL VOCs	***0.132***	***0.961***

LEGEND

CURRENT FEATURES

HISTORICAL FEATURES (LOCATIONS ARE APPROXIMATE)

EXISTING BUILDING

CHAIN LINK FENCE

SG–2 SOIL GAS LOCATION

SB–28 SOIL BORING

MW–7 MONITORING WELL

TP 1 TEST PIT LOCATION

SOIL CLEANUP OBJECTIVE(S) EXCEEDED

NOTES:

1. ALL CONCENTRATIONS ARE IN PARTS PER MILLION (ppm).
2. GREY SHADED VALUES EXCEED 6 NYCRR PART 375 UNRESTRICTED SOIL CLEANUP OBJECTIVES.
3. ORANGE SHADED VALUES EXCEED BOTH THE 6 NYCRR PART 375 UNRESTRICTED AND RESTRICTED COMMERCIAL SOIL CLEANUP OBJECTIVES.
4. ND = NOT DETECTED
5. R = REJECTED VALUE
6. VOCs WERE NOT DETECTED IN SUBSURFACE SOIL SAMPLES FROM MW–14, MW–18, SB–27, SB–47, SB–53, SB–58 AND TP–2.
7. SOIL SAMPLES WERE NOT ANALYZED FOR VOCs AT MW–13, SB–25, SB–28 AND SB–34 DUE TO POOR RECOVERY.
8. ANALYTICAL RESULTS ARE NOT SHOWN FOR LOCATIONS AT OU–2.

SEE FIGURE 10 FOR OU–2 SVOC DATA

WEST 46TH STREET

WEST 45TH STREET

WEST 44TH STREET

WEST 43RD STREET

11TH AVENUE

STATE HIGHWAY ROUTE 9A

WALKWAY

BIKEWAY

OVERHEAD PEDESTRIAN BRIDGE

CONCRETE PLANTER

NYSDOT PARKING LOT

MULTI STORY BUILDING

COMMERCIAL BUILDINGS

PARKING LOT

PARKING GARAGE

CONCRETE SIDEWALK

CONCRETE CURB

GAS PUMP ISLANDS

GATE

TIME MOVING & STORAGE WAREHOUSE

UPS PARKING LOT

MANHATTAN MINI STORAGE

PUB

UPS BUILDING

MW–1 MW–2 MW–3 MW–4 MW–5 MW–6 MW–7 MW–8 MW–9 MW–10 (SB–46) MW–11 MW–12 MW–13 (NOTE 7) MW–14 MW–15 MW–16 MW–17 MW–18 MW–19 MW–20

SB–1A SB–2A SB–3 SB–5 SB–6 SB–7 SB–8 SB–9 SB–10 SB–11 SB–12 SB–13 SB–15 SB–16 SB–17 SB–18 SB–19 SB–20 SB–21 SB–22 SB–23 SB–24 SB–25 (NOTE 7) SB–26 SB–27 SB–28 (NOTE 7) SB–29 SB–30 SB–31 SB–32 SB–33 SB–34 (NOTE 7) SB–35 SB–36A SB–37 SB–38 SB–39 SB–40 SB–41 SB–42 SB–43 SB–44 SB–45 SB–47 SB–48 SB–49 SB–50 SB–51 SB–52 SB–53 SB–54 SB–55 SB–56 SB–57 SB–58

SG–1A SG–2A SG–3 SG–3A SG–4 SG–2

TP 1 TP 2 TP 3

0 40 80 160

SCALE: 1"=80'

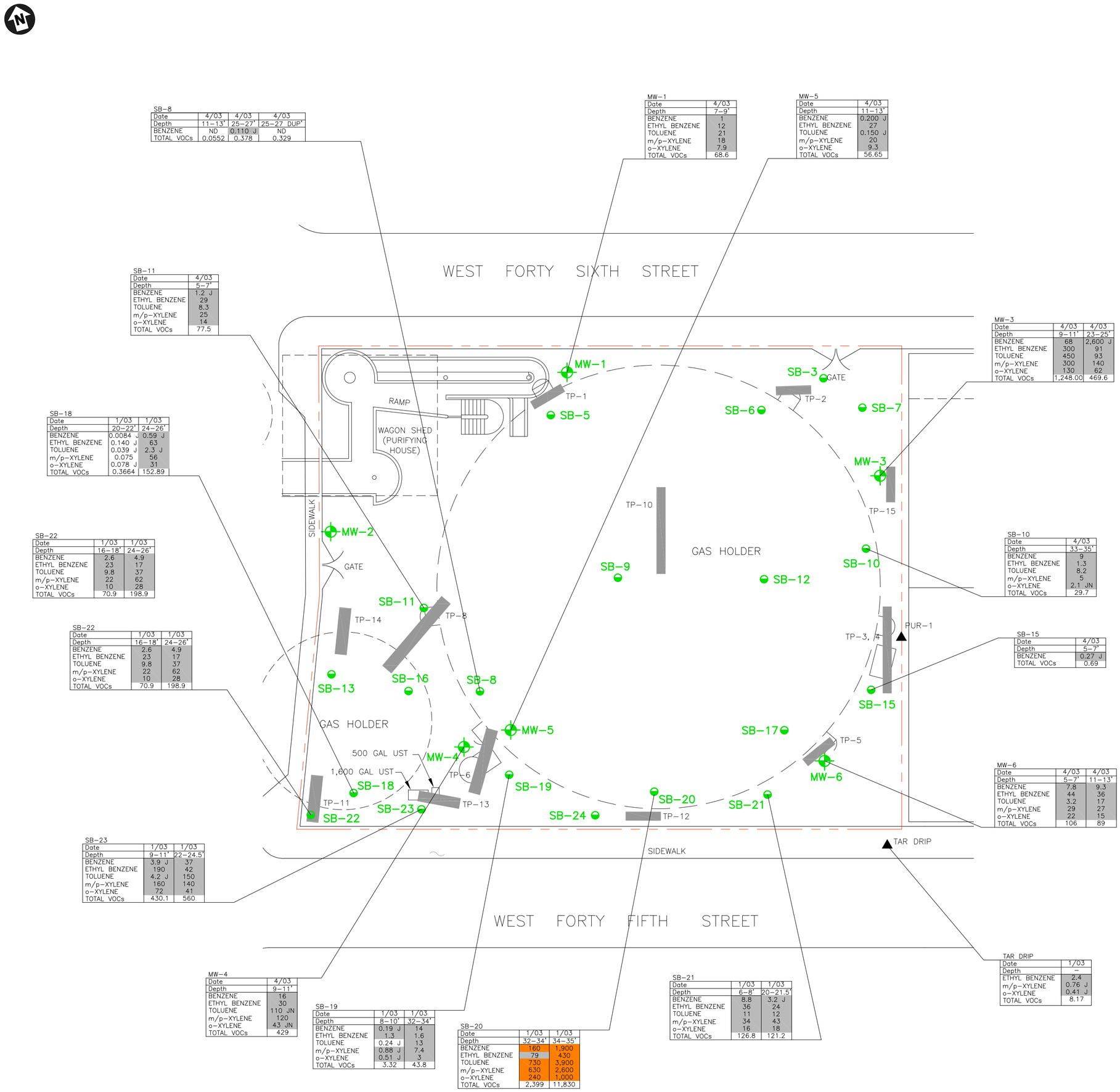
FILE NAME: P:\CONED\446672 – W45TH OU2\CAD\10–28–14\446672–SK002–FIG 9.DWG
PLOT DATE: 10/31/2014 10:25 AM PLOTTED BY: RUSSO, JILL

FIGURE 9

CONSOLIDATED EDISON
FORMER WEST 45th STREET GAS WORKS (OU–1)
NEW YORK, NY

SUMMARY OF OU–1 VOCs DETECTED IN SUBSURFACE SOIL

PARSONS
301 PLAINFIELD ROAD, SUITE 350, SYRACUSE, N.Y. 13212, PHONE: 315–451–9560



SB-8			
Date	4/03	4/03	4/03
Depth	11–13'	25–27'	25–27' DUP'
BENZENE	ND	0.110 J	ND
TOTAL VOCs	0.0552	0.378	0.329

MW-1	
Date	4/03
Depth	7–9'
BENZENE	1
ETHYL BENZENE	12
TOLUENE	21
m/p–XYLENE	18
o–XYLENE	7.9
TOTAL VOCs	68.6

MW-5	
Date	4/03
Depth	11–13'
BENZENE	0.200 J
ETHYL BENZENE	27
TOLUENE	0.150 J
m/p–XYLENE	20
o–XYLENE	9.3
TOTAL VOCs	56.65

SB-11	
Date	4/03
Depth	5–7'
BENZENE	1.2 J
ETHYL BENZENE	29
TOLUENE	8.3
m/p–XYLENE	25
o–XYLENE	14
TOTAL VOCs	77.5

MW-3		
Date	4/03	4/03
Depth	9–11'	23–25'
BENZENE	68	2,600 J
ETHYL BENZENE	300	91
TOLUENE	450	93
m/p–XYLENE	300	140
o–XYLENE	130	62
TOTAL VOCs	1,248.00	469.6

SB-18		
Date	1/03	1/03
Depth	20–22'	24–26'
BENZENE	0.0084 J	0.59 J
ETHYL BENZENE	0.140 J	63
TOLUENE	0.039 J	2.3 J
m/p–XYLENE	0.075	56
o–XYLENE	0.078 J	31
TOTAL VOCs	0.3664	152.89

SB-22		
Date	1/03	1/03
Depth	16–18'	24–26'
BENZENE	2.6	4.9
ETHYL BENZENE	23	17
TOLUENE	9.8	37
m/p–XYLENE	22	62
o–XYLENE	10	28
TOTAL VOCs	70.9	198.9

SB-10	
Date	4/03
Depth	33–35'
BENZENE	9
ETHYL BENZENE	1.3
TOLUENE	8.2
m/p–XYLENE	5
o–XYLENE	2.1 JN
TOTAL VOCs	29.7

SB-22		
Date	1/03	1/03
Depth	16–18'	24–26'
BENZENE	2.6	4.9
ETHYL BENZENE	23	17
TOLUENE	9.8	37
m/p–XYLENE	22	62
o–XYLENE	10	28
TOTAL VOCs	70.9	198.9

SB-15	
Date	4/03
Depth	5–7'
BENZENE	0.27 J
TOTAL VOCs	0.69

MW-6		
Date	4/03	4/03
Depth	5–7'	11–13'
BENZENE	7.8	9.3
ETHYL BENZENE	44	36
TOLUENE	3.2	17
m/p–XYLENE	29	27
o–XYLENE	22	15
TOTAL VOCs	106	89

SB-23		
Date	1/03	1/03
Depth	9–11'	22–24.5'
BENZENE	3.9 J	37
ETHYL BENZENE	190	42
TOLUENE	4.2 J	150
m/p–XYLENE	160	140
o–XYLENE	72	41
TOTAL VOCs	430.1	560

MW-4	
Date	4/03
Depth	9–11'
BENZENE	16
ETHYL BENZENE	30
TOLUENE	110 JN
m/p–XYLENE	120
o–XYLENE	43 JN
TOTAL VOCs	429

SB-19		
Date	1/03	1/03
Depth	8–10'	32–34'
BENZENE	0.19 J	14
ETHYL BENZENE	1.3	1.6
TOLUENE	0.24 J	13
m/p–XYLENE	0.88 J	7.4
o–XYLENE	0.51 J	3
TOTAL VOCs	3.32	43.8

SB-20		
Date	1/03	1/03
Depth	32–34'	34–35'
BENZENE	160	1,900
ETHYL BENZENE	79	430
TOLUENE	730	3,900
m/p–XYLENE	630	2,600
o–XYLENE	240	1,000
TOTAL VOCs	2,399	11,830

SB-21		
Date	1/03	1/03
Depth	6–8'	20–21.5'
BENZENE	8.8	3.2 J
ETHYL BENZENE	36	24
TOLUENE	11	12
m/p–XYLENE	34	43
o–XYLENE	16	18
TOTAL VOCs	126.8	121.2

TAR DRIP	
Date	1/03
Depth	–
ETHYL BENZENE	2.4
m/p–XYLENE	0.76 J
o–XYLENE	0.41 J
TOTAL VOCs	8.17

LEGEND:

PROPERTY BOUNDARY

FORMER MGP STRUCTURES

SB-23 SOIL BORING LOCATION

MW-1 MONITORING WELL LOCATION

TEST PIT LOCATION

GRAB SAMPLE LOCATION

NOTES:

ALL CONCENTRATIONS ARE IN PARTS PER MILLION (PPM)

47 J SHADED VALUES EXCEEDS 6 NYCRR PART 375 UNRESTRICTED SOIL USE CLEANUP OBJECTIVES

110 J BOLD VALUES EXCEEDS 6 NYCRR PART 375 UNRESTRICTED AND COMMERCIAL USE SOIL CLEANUP OBJECTIVES

VOCs	6 NYCRR Part 375 Unrestricted Use Soil Cleanup Objectives	6 NYCRR Part 375 Commercial Use Soil Cleanup
Benzene	0.06	44
Ethyl Benzene	1	390
Toluene	0.7	500
m/p-Xylene	0.26	500
o-Xylene		

30 15 0 30 60

SCALE: 1"=30'

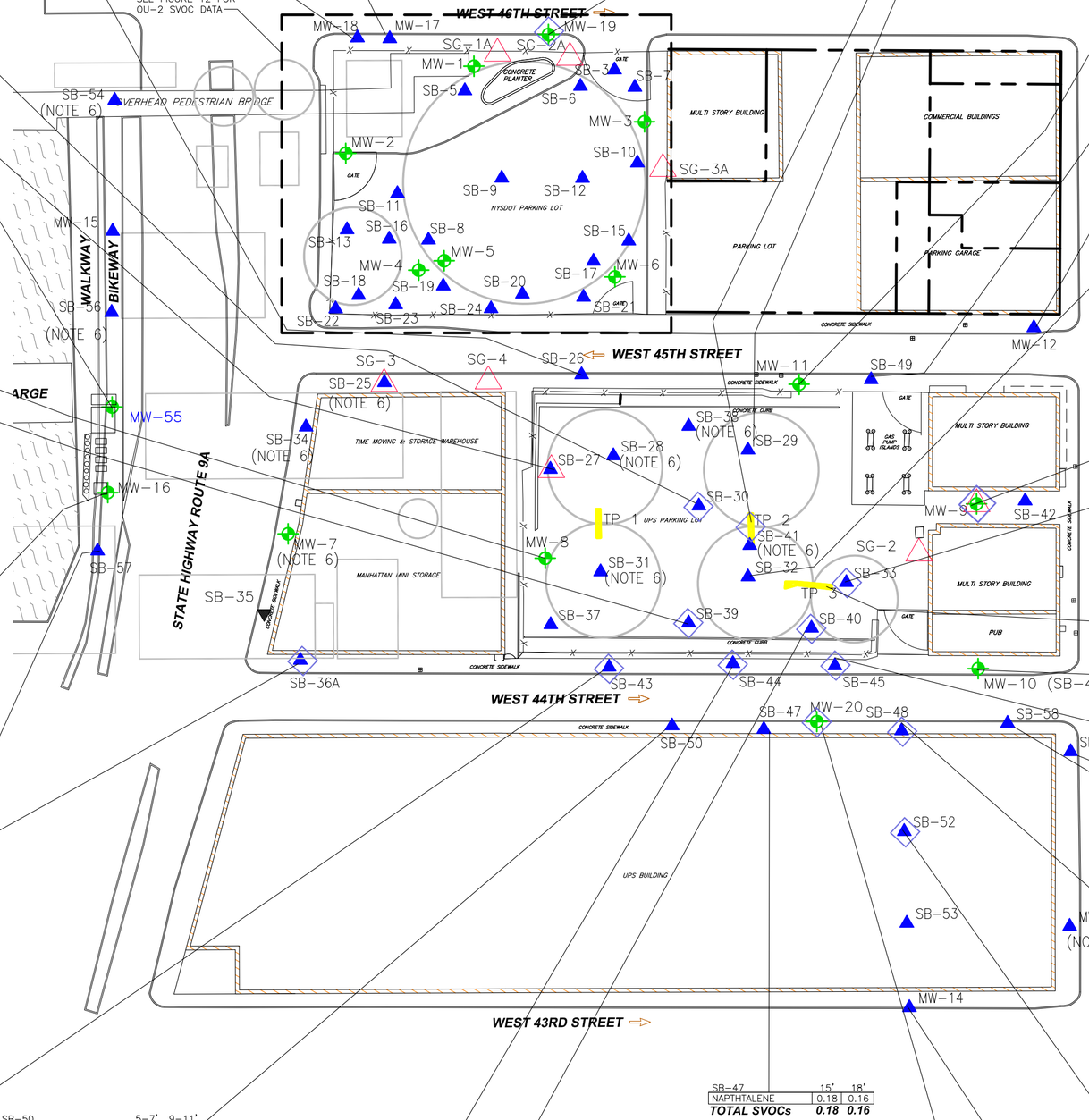
FIGURE 10

CONSOLIDATED EDISON
FORMER WEST 45th STREET GAS WORKS (OU-2)
NEW YORK, NY

SUMMARY OF OU-2 VOC EXCEEDANCES IN SUBSURFACE SOIL

PARSONS
301 PLAINFIELD ROAD, SUITE 350, SYRACUSE, N.Y. 13212, PHONE: 315-451-9560

FILE NAME: P:\CONED\446672 – W45TH OU2\CAD\10-28-14\446672-SK006-FIG 10.DWG
PLOT DATE: 10/30/2014 1:01 PM PLOTTED BY: RUSSO, JILL



MW/SB-18	5–7'	DUP 5–7''
FLUORANTHENE	ND	0.11
PHENANTHRENE	ND	0.21
PYRENE	ND	0.13
TOTAL SVOCs	***ND***	***0.45***

SB-30	32–32.5'
1,1–BIPHENYL	23
ACENAPHTHENE	4.2
ACENAPHTHYLENE	5.9
ANTHRACENE	3.7
BENZO(a)ANTHRACENE	6
BENZO(a)PYRENE	2.6
BENZO(b)FLUORANTHENE	3.5
CHRYSENE	8.6
FLUORANTHENE	12
FLUORENE	8.5
2–METHYLNAPHTHALENE	230
NAPHTHALENE	1600
PHENANTHRENE	35
PYRENE	18
TOTAL SVOCs	***1961***

SB-26	5–7'
BENZO(a)ANTHRACENE	0.098
BENZO(a)PYRENE	0.074
BENZO(b)FLUORANTHENE	0.094
CHRYSENE	0.11
FLUORANTHENE	0.16
PHENANTHRENE	0.1
PYRENE	0.22
TOTAL SVOCs	***0.856***

SB-27	15–17'
BENZO(a)ANTHRACENE	0.42
BENZO(b)FLUORANTHENE	0.49
FLUORANTHENE	1
PHENANTHRENE	0.75
PYRENE	0.83
TOTAL SVOCs	***3.49***

MW-55	7–9'
BIS(2–ETHYLHEXYL)PHTHALATE	0.22
ACENAPHTHENE	0.11
ANTHRACENE	0.13
BENZO(a)ANTHRACENE	0.59
BENZO(a)PYRENE	0.56
BENZO(b)FLUORANTHENE	0.68
BENZO(g,h,i)PERYLENE	0.22
BENZO(k)FLUORANTHENE	0.21
CHRYSENE	0.63
FLUORANTHENE	1
INDENO(1,2,3–cd)PYRENE	0.19
PHENANTHRENE	0.45
PYRENE	1.1
TOTAL SVOCs	***6.09***

MW-8	9–11'
1,1–BIPHENYL	0.7
ACENAPHTHENE	0.41
FLUORENE	0.53
2–METHYLNAPHTHALENE	6.6
NAPHTHALENE	2.1
PHENANTHRENE	1.4
TOTAL SVOCs	***11.74***

SB-39	31–33'
1,1–BIPHENYL	4
DIBENZOFURAN	0.55
3+4–METHYLPHENOLS	6.8
ACENAPHTHENE	1.1
ACENAPHTHYLENE	3.4
ANTHRACENE	2.8
BENZO(a)ANTHRACENE	2.5
BENZO(a)PYRENE	1.1
BENZO(b)FLUORANTHENE	1.4
BENZO(k)FLUORANTHENE	0.51
CHRYSENE	2.8
FLUORANTHENE	4.3
FLUORENE	4
2–METHYLNAPHTHALENE	79
NAPHTHALENE	550
PHENANTHRENE	17
PYRENE	7.4
TOTAL SVOCs	***688.66***

MW-16	15–17'
BENZO(a)ANTHRACENE	0.14
BENZO(a)PYRENE	0.18
BENZO(b)FLUORANTHENE	0.17
BENZO(g,h,i)PERYLENE	0.11
CHRYSENE	0.15
FLUORANTHENE	0.26
INDENO(1,2,3–cd)PYRENE	0.089
PHENANTHRENE	0.2
PYRENE	0.35
TOTAL SVOCs	***1.649***

SB-57	7–9'	11–13'
BENZO(b)FLUORANTHENE	0.075	ND
PYRENE	0.13	ND
TOTAL SVOCs	***0.205***	***ND***

SB-36A	5–5.5'
1,1–BIPHENYL	1.3
CARBAZOLE	0.32
DIBENZOFURAN	1.3
N–NITROSODIPHENYLAMINE	1.2
ACENAPHTHENE	2.9
ACENAPHTHYLENE	9.6
ANTHRACENE	11
BENZO(a)ANTHRACENE	20
BENZO(a)PYRENE	11
BENZO(b)FLUORANTHENE	11
BENZO(g,h,i)PERYLENE	2.7
BENZO(k)FLUORANTHENE	5.3
CHRYSENE	26
DIBENZ(a,h)ANTHRACENE	0.49
FLUORANTHENE	20
FLUORENE	10
INDENO(1,2,3–cd)PYRENE	0.51
2–METHYLNAPHTHALENE	11
NAPHTHALENE	6.2
PHENANTHRENE	50
PYRENE	36
TOTAL SVOCs	***237.82***

SB-43	1–3'	7–9'
1,1–BIPHENYL	0.87	8.1
CARBAZOLE	ND	0.8
DIBENZOFURAN	ND	1.5
ACENAPHTHENE	2.2	14
ACENAPHTHYLENE	3	6.8
ANTHRACENE	3	11
BENZO(a)ANTHRACENE	7.6	16
BENZO(a)PYRENE	6.1	10
BENZO(b)FLUORANTHENE	7.6	9.5
BENZO(g,h,i)PERYLENE	1.3	1.3
BENZO(k)FLUORANTHENE	2.6	2.5
CHRYSENE	8.7	16
DIBENZ(a,h)ANTHRACENE	ND	0.27
FLUORANTHENE	9.1	17
FLUORENE	3.3	15
INDENO(1,2,3–cd)PYRENE	0.68	0.6
2–METHYLNAPHTHALENE	7.7	72
NAPHTHALENE	7.1	81
PHENANTHRENE	13	56
PYRENE	12	37
TOTAL SVOCs	***95.85***	***376.37***

SB-50	5–7'	9–11'
DI–N–BUTYLPHTHALATE	0.16	0.13
DI–N–OCTYL–PHTHALATE	0.071	ND
ACENAPHTHYLENE	0.015	ND
ANTHRACENE	0.019	ND
BENZO(a)ANTHRACENE	0.078	ND
BENZO(a)PYRENE	0.07	ND
BENZO(b)FLUORANTHENE	0.061	ND
BENZO(g,h,i)PERYLENE	0.058	ND
BENZO(k)FLUORANTHENE	0.052	ND
CHRYSENE	0.077	ND
DIBENZ(a,h)ANTHRACENE	0.012	ND
FLUORANTHENE	0.14	ND
INDENO(1,2,3–cd)PYRENE	0.045	ND
PHENANTHRENE	0.094	ND
PYRENE	0.14	ND
TOTAL SVOCs	***1.092***	***0.13***

SB-44	7–9'
1,1–BIPHENYL	4.8
CARBAZOLE	0.9
DIBENZOFURAN	1.1
ACENAPHTHENE	9.1
ACENAPHTHYLENE	4.3
ANTHRACENE	6.6
BENZO(a)ANTHRACENE	8.3
BENZO(a)PYRENE	4.7
BENZO(b)FLUORANTHENE	4
BENZO(g,h,i)PERYLENE	0.92
BENZO(k)FLUORANTHENE	3
CHRYSENE	9.8
DIBENZ(a,h)ANTHRACENE	0.19
FLUORANTHENE	11
FLUORENE	9.9
INDENO(1,2,3–cd)PYRENE	0.36
2–METHYLNAPHTHALENE	40
NAPHTHALENE	48
PHENANTHRENE	31
PYRENE	21
TOTAL SVOCs	***218.97***

SB-40	0.5–1.0'	9–11'	23–25'
1,1–BIPHENYL	1.9	0.35	6.6
CARBAZOLE	ND	ND	0.29
DIBENZOFURAN	0.46	ND	0.91
ACENAPHTHENE	5.7	0.67	16
ACENAPHTHYLENE	2.7	1.7	5.8
ANTHRACENE	4.3	1.3	5.7
BENZO(a)ANTHRACENE	5.6	1	7.7
BENZO(a)PYRENE	3.3	0.9	3.3
BENZO(b)FLUORANTHENE	3.6	0.29	3.4
BENZO(g,h,i)PERYLENE	0.74	ND	ND
BENZO(k)FLUORANTHENE	1.2	1	0.64
CHRYSENE	6.5	1	8.1
FLUORANTHENE	6.4	1.4	4
FLUORENE	2.8	1.3	6.9
INDENO(1,2,3–cd)PYRENE	0.65	ND	ND
2–METHYLNAPHTHALENE	5.1	0.39	63
NAPHTHALENE	16	3	110
PHENANTHRENE	15	4	27
PYRENE	8.8	1.6	16
TOTAL SVOCs	***90.75***	***19.90***	***285.34***

MW-20	15–17'	21–23'	23–25'
1,1–BIPHENYL	0.94	6.1	0.17
BIS(2–ETHYLHEXYL)PHTHALATE	0.34	0.11	ND
CARBAZOLE	ND	0.3	ND
DIBENZOFURAN	0.17	0.92	ND
DI–N–BUTYLPHTHALATE	ND	ND	0.076
ACENAPHTHENE	1.1	16	0.53
ACENAPHTHYLENE	1.6	7.7	0.19
ANTHRACENE	1.4	9.2	0.29
BENZO(a)ANTHRACENE	1.3	8.2	0.22
BENZO(a)PYRENE	0.96	5.6	0.15
BENZO(b)FLUORANTHENE	0.62	4.1	0.093
BENZO(g,h,i)PERYLENE	0.44	1.8	ND
BENZO(k)FLUORANTHENE	0.24	1.5	ND
CHRYSENE	1.2	7.2	0.21
DIBENZ(a,h)ANTHRACENE	ND	0.26	ND
FLUORANTHENE	1.8	10	0.34
FLUORENE	1.8	13	0.37
INDENO(1,2,3–cd)PYRENE	0.34	1.2	ND
2–METHYLNAPHTHALENE	7.4	65	1.3
NAPHTHALENE	16	110	2.6
PHENANTHRENE	6.5	30	0.95
PYRENE	2.5	18	0.46
TOTAL SVOCs	***45.71***	***316.13***	***7.749***

MW-14	7–9'
DI–N–BUTYLPHTHALATE	0.15
ANTHRACENE	0.013
BENZO(a)ANTHRACENE	0.046
BENZO(a)PYRENE	0.031
BENZO(b)FLUORANTHENE	0.021
BENZO(g,h,i)PERYLENE	0.027
BENZO(k)FLUORANTHENE	0.029
CHRYSENE	0.049
FLUORANTHENE	0.081
INDENO(1,2,3–cd)PYRENE	0.021
PHENANTHRENE	0.056
PYRENE	0.088
TOTAL SVOCs	***0.612***

SB-47	15'	18'
NAPHTHALENE	0.18	0.16
TOTAL SVOCs	***0.18***	***0.16***

SB-48	20–21'	23'
1,1–BIPHENYL	46	1.4
CARBAZOLE	1.6	ND
DIBENZOFURAN	11	0.21
ACENAPHTHENE	23	0.62
ACENAPHTHYLENE	170	4.7
ANTHRACENE	70	2.1
BENZO(a)ANTHRACENE	62	2
BENZO(a)PYRENE	36	1.2
BENZO(b)FLUORANTHENE	27	0.75
BENZO(g,h,i)PERYLENE	11	0.7
BENZO(k)FLUORANTHENE	13	0.34
CHRYSENE	60	1.9
DIBENZ(a,h)ANTHRACENE	5.2	0.088
FLUORANTHENE	93	2.7
FLUORENE	110	2.7
INDENO(1,2,3–cd)PYRENE	28	0.45
2–METHYLNAPHTHALENE	520	12
NAPHTHALENE	1200	25
PHENANTHRENE	240	7.1
PYRENE	140	3.9
TOTAL SVOCs	***2866.8***	***69.858***

SB-52	12–14'	14–16'
1,1–BIPHENYL	0.11	5.8
CARBAZOLE	ND	0.077
DIBENZOFURAN	ND	0.55
ACENAPHTHENE	0.37	19
ACENAPHTHYLENE	0.076	2.7
ANTHRACENE	0.21	8.9
BENZO(a)ANTHRACENE	0.17	6.4
BENZO(a)PYRENE	0.11	4.3
BENZO(b)FLUORANTHENE	0.082	3.5
BENZO(g,h,i)PERYLENE	0.045	1.9
BENZO(k)FLUORANTHENE	ND	1.1
CHRYSENE	0.15	5.7
DIBENZ(a,h)ANTHRACENE	0.26	0.57
FLUORANTHENE	0.23	10
FLUORENE	ND	9.8
INDENO(1,2,3–cd)PYRENE	ND	1.6
2–METHYLNAPHTHALENE	0.72	51
NAPHTHALENE	1.3	130
PHENANTHRENE	0.78	29
PYRENE	0.34	14
TOTAL SVOCs	***4.953***	***305.897***

SB-51	12–14'	16–18'
DI–N–BUTYLPHTHALATE	ND	0.021
FLUORANTHENE	0.014	ND
PHENANTHRENE	0.015	ND
PYRENE	0.016	ND
TOTAL SVOCs	***0.045***	***0.021***

SB-58	7–9'	11–13'
BIS(2–ETHYLHEXYL)PHTHALATE	0.35	ND
2–METHYLNAPHTHALENE	0.17	ND
PHENANTHRENE	0.14	ND
TOTAL SVOCs	***0.66***	***ND***

MW-10 (SB-46)	11–13'	13–15'
BIS(2–ETHYLHEXYL)PHTHALATE	ND	0.095
ANTHRACENE	ND	0.072
BENZO(a)ANTHRACENE	ND	0.38
BENZO(a)PYRENE	ND	0.29
BENZO(b)FLUORANTHENE	ND	0.38
BENZO(g,h,i)PERYLENE	ND	0.072
BENZO(k)FLUORANTHENE	ND	0.14
CHRYSENE	ND	0.36
FLUORANTHENE	ND	0.82
2–METHYLNAPHTHALENE	ND	0.39
PHENANTHRENE	ND	0.22
PYRENE	ND	0.81
TOTAL SVOCs	***ND***	***4.029***

SB-45	5–7'	19–21'
ACETOPHENONE	0.15	ND
1,1–BIPHENYL	1	3.8
BIS(2–ETHYLHEXYL)PHTHALATE	ND	0.12
CARBAZOLE	0.15	0.39
DIBENZOFURAN	0.44	0.78
N–NITROSODIPHENYLAMINE	0.5	ND
ACENAPHTHENE	10	12
ACENAPHTHYLENE	2.3	2.4
ANTHRACENE	4.8	5.8
BENZO(a)ANTHRACENE	4	5.5
BENZO(a)PYRENE	3.4	3.8
BENZO(b)FLUORANTHENE	2.9	3.4
BENZO(g,h,i)PERYLENE	0.96	0.93
BENZO(k)FLUORANTHENE	1.2	1.9
CHRYSENE	3.7	5.8
DIBENZ(a,h)ANTHRACENE	0.11	0.15
FLUORANTHENE	6.8	7
FLUORENE	5.7	7.2
INDENO(1,2,3–cd)PYRENE	0.38	0.38
2–METHYLNAPHTHALENE	19	38
NAPHTHALENE	1.1	74
PHENANTHRENE	18	21
PYRENE	14	13
TOTAL SVOCs	***100.59***	***207.4***

SB-33	17–19'	27–28'	DUP. 27–28'
1,1–BIPHENYL	1	ND	6.1
CARBAZOLE	ND	ND	0.75
DIBENZOFURAN	ND	ND	1.3
2,4–DIMETHYLPHENOL	1.3	ND	1.2
3+4–METHYLPHENOLS	0.56	ND	0.59
PHENOL	ND	ND	0.36
ACENAPHTHENE	2.5	ND	14
ACENAPHTHYLENE	1	ND	5.5
ANTHRACENE	1.6	ND	9.4
BENZO(a)ANTHRACENE	1.6	ND	9.8
BENZO(a)PYRENE	1.1	ND	5.5
BENZO(b)FLUORANTHENE	0.83	ND	4.6
BENZO(g,h,i)PERYLENE	0.41	ND	1.2
BENZO(k)FLUORANTHENE	ND	ND	1.8
CHRYSENE	1.8	ND	10
FLUORANTHENE	2	ND	11
FLUORENE	1.9	ND	11
INDENO(1,2,3–cd)PYRENE	0.42	ND	1.3
2–METHYLNAPHTHALENE	12	0.97	59
NAPHTHALENE	26	3	86
PHENANTHRENE	7	ND	32
PYRENE	2.6	ND	15
TOTAL SVOCs	***65.62***	***3.97***	***287.4***

TP-3	5–10'	10'
ANTHRACENE	ND	0.11
BENZO(a)ANTHRACENE	0.096	0.2
BENZO(a)PYRENE	0.12	0.19
BENZO(b)FLUORANTHENE	0.15	0.2
BENZO(g,h,i)PERYLENE	0.065	0.085
CHRYSENE	0.16	0.27
FLUORANTHENE	0.1	0.27
INDENO(1,2,3–cd)PYRENE	0.26	0.28
NAPHTHALENE	0.069	ND
PHENANTHRENE	0.091	0.4
PYRENE	0.21	0.52
TOTAL SVOCs	***1.321***	***2.465***

MW-19	9–11'	13–15'
1,1–BIPHENYL	0.43	0.083
CARBAZOLE	0.14	ND
DIBENZOFURAN	0.26	ND
DI–N–BUTYLPHTHALATE	ND	0.064
ACENAPHTHENE	0.76	0.18
ACENAPHTHYLENE	0.66	0.12
ANTHRACENE	1.1	0.25
BENZO(a)ANTHRACENE	1.3	0.25
BENZO(a)PYRENE	0.95	0.19
BENZO(b)FLUORANTHENE	0.76	0.16
BENZO(g,h,i)PERYLENE	0.27	ND
BENZO(k)FLUORANTHENE	0.25	ND
CHRYSENE	1.1	0.24
FLUORANTHENE	2.6	0.59
FLUORENE	2.9	0.66
INDENO(1,2,3–cd)PYRENE	0.2	ND
2–METHYLNAPHTHALENE	1.7	0.46
NAPHTHALENE	5.6	1.4
PHENANTHRENE	9.6	1.7
PYRENE	3.9	0.81
TOTAL SVOCs	***34.05***	***7.074***

MW/SB-17	5–7'
ANTHRACENE	0.029
BENZO(a)ANTHRACENE	0.014
CHRYSENE	0.026
FLUORANTHENE	0.035
FLUORENE	0.064
2–METHYLNAPHTHALENE	0.36
NAPHTHALENE	0.033
INDENO(1,2,3–cd)PYRENE	ND
PHENANTHRENE	0.18
PYRENE	0.051
TOTAL SVOCs	***0.612***

TP-2	3–7'	7'
DIBENZOFURAN	ND	0.059
ACENAPHTHENE	ND	0.069
ACENAPHTHYLENE	0.06	0.083
ANTHRACENE	0.13	0.23
BENZO(a)ANTHRACENE	0.58	0.95
BENZO(a)PYRENE	0.63	0.96
BENZO(b)FLUORANTHENE	0.95	1.3
BENZO(g,h,i)PERYLENE	0.14	0.17
BENZO(k)FLUORANTHENE	0.34	0.57
CHRYSENE	0.6	0.98
FLUORANTHENE	1.2	1.6
FLUORENE	ND	0.077
INDENO(1,2,3–cd)PYRENE	0.15	0.24
2–METHYLNAPHTHALENE	ND	0.082
NAPHTHALENE	ND	0.2
PHENANTHRENE	0.56	1.1
PYRENE	1.1	1.7
TOTAL SVOCs	***6.44***	***10.37***

SB-29	11–13'	13–15'
BENZO(b)FLUORANTHENE	0.06	ND
FLUORANTHENE	0.092	ND
2–METHYLNAPHTHALENE	0.4	ND
NAPHTHALENE	0.34	ND
PHENANTHRENE	0.12	ND
PYRENE	0.1	ND
TOTAL SVOCs	***1.112***	***ND***

MW-11	3.5–4'	8–10'	18–20'
BIS(2–ETHYLHEXYL)PHTHALATE	0.022	0.25	0.062
CARBAZOLE	ND	0.084	ND
DI–N–BUTYLPHTHALATE	ND	0.11	0.12
DI–N–OCTYL PHTHALATE	0.016	ND	ND
ACENAPHTHYLENE	0.077	ND	ND
ANTHRACENE	0.025	0.25	ND
BENZO(a)ANTHRACENE	0.11	0.14	ND
BENZO(a)PYRENE	0.15	0.13	ND
BENZO(b)FLUORANTHENE	0.13	0.12	ND
BENZO(g,h,i)PERYLENE	0.15	0.029	ND
BENZO(k)FLUORANTHENE	0.1	0.11	ND
CHRYSENE	0.13	0.19	ND
DIBENZ(a,h)ANTHRACENE	0.032	ND	ND
FLUORANTHENE	0.16	0.32	ND
INDENO(1,2,3–cd)PYRENE	0.11	0.026	ND
2–METHYLNAPHTHALENE	ND	4.9	ND
NAPHTHALENE	0.031	1	ND
PHENANTHRENE	0.073	1.5	ND
PYRENE	0.15	0.31	ND
TOTAL SVOCs	***1.466***	***9.469***	***0.182***

SB-49	17–19'
DI–N–BUTYLPHTHALATE	0.2
TOTAL SVOCs	***0.2***

MW-12	8–10'
BIS(2–ETHYLHEXYL)PHTHALATE	0.24
DI–N–BUTYLPHTHALATE	0.089
TOTAL SVOCs	***0.329***

SB-32	9–11'
1,1–BIPHENYL	0.17
FLUORANTHENE	0.12
FLUORENE	0.16
2–METHYLNAPHTHALENE	1.3
NAPHTHALENE	0.49
PHENANTHRENE	0.35
PYRENE	0.13
TOTAL SVOCs	***2.72***

MW-9	21–23'	25–27'
1,1–BIPHENYL	35	ND
DIBENZOFURAN	5.4	ND
ACENAPHTHENE	110	0.12
ACENAPHTHYLENE	15	ND
ANTHRACENE	58	0.15
BENZO(a)ANTHRACENE	33	0.12
BENZO(a)PYRENE	22	0.077
BENZO(b)FLUORANTHENE	15	0.049
BENZO(g,h,i)PERYLENE	3.7	ND
BENZO(k)FLUORANTHENE	6.2	ND
CHRYSENE	31	0.12
DIBENZ(a,h)ANTHRACENE	0.57	ND
FLUORANTHENE	66	0.17
FLUORENE	72	0.14
INDENO(1,2,3–cd)PYRENE	4.4	ND
2–METHYLNAPHTHALENE	320	ND
NAPHTHALENE	770	ND
PHENANTHRENE	170	0.63
PYRENE	69	0.32
TOTAL SVOCs	***1806.27***	***1.896***

LEGEND

- CURRENT FEATURES
- HISTORICAL FEATURES (LOCATIONS ARE APPROXIMATE)
- EXISTING BUILDING
- CHAIN LINK FENCE
- SG–2 SOIL GAS LOCATION
- SB–28 SOIL BORING
- MW–5 MONITORING WELL
- TP 1 TEST PIT LOCATION
- SOIL CLEANUP OBJECTIVE(S) EXCEEDED

NOTES:

1. ALL CONCENTRATIONS ARE IN PARTS PER MILLION (ppm).
2. GREY SHADED VALUES EXCEED 6 NYCRR PART 375 UNRESTRICTED SOIL CLEANUP OBJECTIVES.
3. ORANGE SHADED VALUES EXCEED BOTH THE 6 NYCRR PART 375 UNRESTRICTED AND RESTRICTED COMMERCIAL SOIL CLEANUP OBJECTIVES.
4. ND = NOT DETECTED
5. SVOCs WERE NOT DETECTED IN SUBSURFACE SOIL SAMPLES FROM SB–37, SB–42 AND SB–53.
6. SOIL SAMPLES WERE NOT ANALYZED FOR SVOCs AT MW–7, MW–13, MW–15, SB–25, SB–28, SB–31, SB–34, SB–38, SB–41, SB–54, AND SB–56 DUE TO POOR RECOVERY.
7. ANALYTICAL RESULTS ARE NOT SHOWN FOR LOCATIONS AT OU–2.

80 40 0 80 160

SCALE: 1"=80'

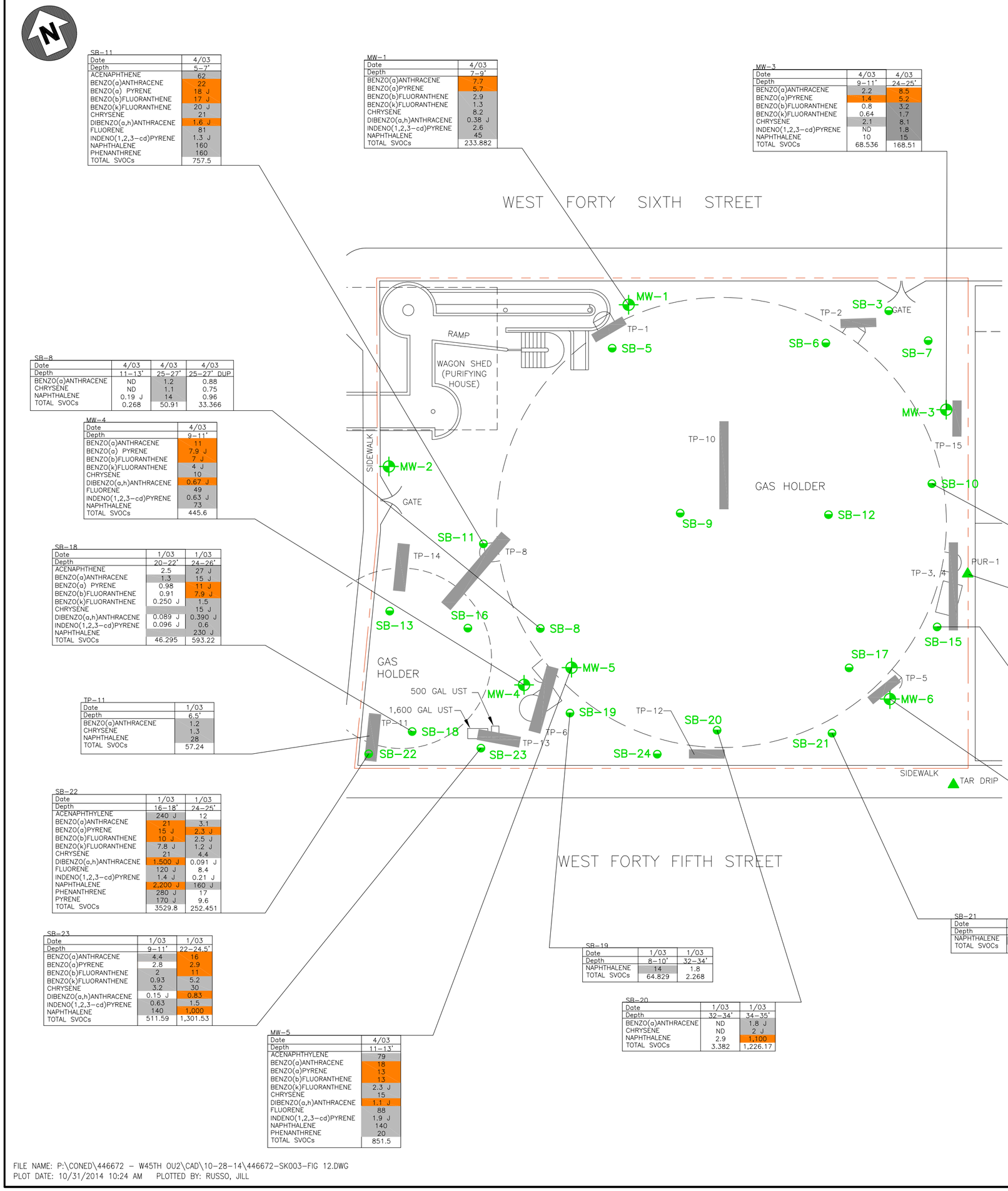
FIGURE 11

CONSOLIDATED EDISON
FORMER WEST 45th STREET GAS WORKS (OU–1)
NEW YORK, NY

SUMMARY OF OU–1 SVOCs DETECTED IN SUBSURFACE SOIL

PARSONS
301 PLAINFIELD ROAD, SUITE 350, SYRACUSE, N.Y. 13212, PHONE: 315–451–9560

FILE NAME: P:\CONED\446672 – W45TH OU2\CAD\10–28–14\446672–SK008–FIG 11.DWG
PLOT DATE: 10/30/2014 1:05 PM PLOTTED BY: RUSSO, JILL



SB-11

Date	4/03
Depth	5–7'
ACENAPHTHENE	62
BENZO(a)ANTHRACENE	22
BENZO(a) PYRENE	18 J
BENZO(b)FLUORANTHENE	17 J
BENZO(k)FLUORANTHENE	20 J
CHRYSENE	21
DIBENZO(a,h)ANTHRACENE	1.6 J
FLUORENE	81
INDENO(1,2,3–cd)PYRENE	1.3 J
NAPHTHALENE	160
PHENANTHRENE	160
TOTAL SVOCs	757.5

MW-1

Date	4/03
Depth	7–9'
BENZO(a)ANTHRACENE	7.7
BENZO(a)PYRENE	5.7
BENZO(b)FLUORANTHENE	2.9
BENZO(k)FLUORANTHENE	1.3
CHRYSENE	8.2
DIBENZO(a,h)ANTHRACENE	0.38 J
INDENO(1,2,3–cd)PYRENE	2.6
NAPHTHALENE	45
TOTAL SVOCs	233.882

MW-3

Date	4/03	4/03
Depth	9–11'	24–25'
BENZO(a)ANTHRACENE	2.2	8.5
BENZO(a)PYRENE	1.4	5.2
BENZO(b)FLUORANTHENE	0.8	3.2
BENZO(k)FLUORANTHENE	0.64	1.7
CHRYSENE	2.1	8.1
INDENO(1,2,3–cd)PYRENE	ND	1.8
NAPHTHALENE	10	15
TOTAL SVOCs	68.536	168.51

SB-8

Date	4/03	4/03	4/03
Depth	11–13'	25–27'	25–27' DUP
BENZO(a)ANTHRACENE	ND	1.2	0.88
CHRYSENE	ND	1.1	0.75
NAPHTHALENE	0.19 J	14	0.96
TOTAL SVOCs	0.268	50.91	33.366

MW-4

Date	4/03
Depth	9–11'
BENZO(a)ANTHRACENE	11
BENZO(a) PYRENE	7.9 J
BENZO(b)FLUORANTHENE	7 J
BENZO(k)FLUORANTHENE	4 J
CHRYSENE	10
DIBENZO(a,h)ANTHRACENE	0.67 J
FLUORENE	49
INDENO(1,2,3–cd)PYRENE	0.63 J
NAPHTHALENE	73
TOTAL SVOCs	445.6

SB-18

Date	1/03	1/03
Depth	20–22'	24–26'
ACENAPHTHENE	2.5	27 J
BENZO(a)ANTHRACENE	1.3	15 J
BENZO(a) PYRENE	0.98	11 J
BENZO(b)FLUORANTHENE	0.91	7.9 J
BENZO(k)FLUORANTHENE	0.250 J	1.5
CHRYSENE		15 J
DIBENZO(a,h)ANTHRACENE	0.089 J	0.390 J
INDENO(1,2,3–cd)PYRENE	0.096 J	0.6
NAPHTHALENE		230 J
TOTAL SVOCs	46.295	593.22

TP-11

Date	1/03
Depth	6.5'
BENZO(a)ANTHRACENE	1.2
CHRYSENE	1.3
NAPHTHALENE	28
TOTAL SVOCs	57.24

SB-22

Date	1/03	1/03
Depth	16–18'	24–25'
ACENAPHTHYLENE	240 J	12
BENZO(a)ANTHRACENE	21	3.1
BENZO(a)PYRENE	15 J	2.3 J
BENZO(b)FLUORANTHENE	10 J	2.5 J
BENZO(k)FLUORANTHENE	7.8 J	1.2 J
CHRYSENE	21	4.4
DIBENZO(a,h)ANTHRACENE	1.500 J	0.091 J
FLUORENE	120 J	8.4
INDENO(1,2,3–cd)PYRENE	1.4 J	0.21 J
NAPHTHALENE	2,200 J	160 J
PHENANTHRENE	280 J	17
PYRENE	170 J	9.6
TOTAL SVOCs	3529.8	252.451

SB-23

Date	1/03	1/03
Depth	9–11'	22–24.5'
BENZO(a)ANTHRACENE	4.4	16
BENZO(a)PYRENE	2.8	2.9
BENZO(b)FLUORANTHENE	2	11
BENZO(k)FLUORANTHENE	0.93	5.2
CHRYSENE	3.2	30
DIBENZO(a,h)ANTHRACENE	0.15 J	0.83
INDENO(1,2,3–cd)PYRENE	0.63	1.5
NAPHTHALENE	140	1,000
TOTAL SVOCs	511.59	1,301.53

MW-5

Date	4/03
Depth	11–13'
ACENAPHTHYLENE	79
BENZO(a)ANTHRACENE	18
BENZO(a)PYRENE	13
BENZO(b)FLUORANTHENE	13
BENZO(k)FLUORANTHENE	2.3 J
CHRYSENE	15
DIBENZO(a,h)ANTHRACENE	1.1 J
FLUORENE	88
INDENO(1,2,3–cd)PYRENE	1.9 J
NAPHTHALENE	140
PHENANTHRENE	20
TOTAL SVOCs	851.5

SB-19

Date	1/03	1/03
Depth	8–10'	32–34'
NAPHTHALENE	14	1.8
TOTAL SVOCs	64.829	2.268

SB-20

Date	1/03	1/03
Depth	32–34'	34–35'
BENZO(a)ANTHRACENE	ND	1.8 J
CHRYSENE	ND	2 J
NAPHTHALENE	2.9	1,100
TOTAL SVOCs	3.382	1,226.17

SB-10

Date	4/03
Depth	33–35'
NAPHTHALENE	49
TOTAL SVOCs	53.657

PUR-1

Date	4/03
Depth	–
ACENAPHTHYLENE	240 J
BENZO(a)ANTHRACENE	110 J
BENZO(a)PYRENE	110 J
BENZO(b)FLUORANTHENE	340 J
BENZO(g,h,i)PERYLENE	160 J
BENZO(k)FLUORANTHENE	140 J
CHRYSENE	160 J
FLUORENE	67 J
INDENO(1,2,3–cd)PYRENE	69 J
PYRENE	130 J
TOTAL SVOCs	1,679

SB-15

Date	4/03
Depth	5–7'
BENZO(a)ANTHRACENE	14
BENZO(a)PYRENE	1.1
CHRYSENE	1.2
TOTAL SVOCs	67.66

MW-6

Date	4/03	1/03
Depth	5–7'	24–25'
DIBENZOFURAN	1.9	11
ACENAPHTHENE	14	89
BENZO(a)ANTHRACENE	6.8	28
BENZO(a)PYRENE	5.5	24
BENZO(b)FLUORANTHENE	5.1	16 JN
BENZO(k)FLUORANTHENE	1.6 J	13 JN
CHRYSENE	6.9	26
DIBENZO(a,h)ANTHRACENE	0.48 J	1 J
FLUORENE	39	110
INDENO(1,2,3–cd)PYRENE	0.68 J	2.7 J
NAPHTHALENE	52	260
PHENANTHRENE	79	310
TOTAL SVOCs	338.65	1,711.7

SB-21

Date	1/03	1/03
Depth	6–8'	20–21.5'
NAPHTHALENE	130	9.9
TOTAL SVOCs	154.05	10.93

LEGEND:

- PROPERTY BOUNDARY
- FORMER MGP STRUCTURES
- SB-23 SOIL BORING LOCATION
- MW-1 MONITORING WELL LOCATION
- TEST PIT LOCATION
- GRAB SOIL SAMPLE

NOTES:

ALL CONCENTRATIONS ARE IN PARTS PER MILLION (ppm)

47 J SHADED VALUES EXCEEDS 6 NYCRR PART 375 UNRESTRICTED USE SOIL CLEANUP OBJECTIVES

110 J BOLD AND SHADED VALUES EXCEEDS 6 NYCRR PART 375 UNRESTRICTED AND COMMERCIAL USE SOIL CLEANUP OBJECTIVES

SVOCs	6 NYCRR Part 375 Unrestricted Use Soil Cleanup Objectives 12/14/2006	6 NYCRR Part 375 Commercial Use Soil Cleanup Objectives 12/14/2006
Dibenzofuran	7	350
Acenaphthene	20	500
Acenaphthylene	100	500
Anthracene	100	500
Benzo(a)anthracene	1	5.6
Benzo(a)pyrene	1	1
Benzo(b)fluoranthene	1	5.6
Benzo(g,h,i)perylene	100	500
Benzo(k)fluoranthene	0.8	56
Chrysene	1	56
Dibenz(a,h)anthracene	0.33	0.56
Fluoranthene	100	500
Fluorene	30	500
Indeno(1,2,3-cd)pyrene	0.5	5.6
Naphthalene	12	500
Phenanthrene	100	500
Pyrene	100	500

30 15 0 30 60

SCALE: 1"=30'

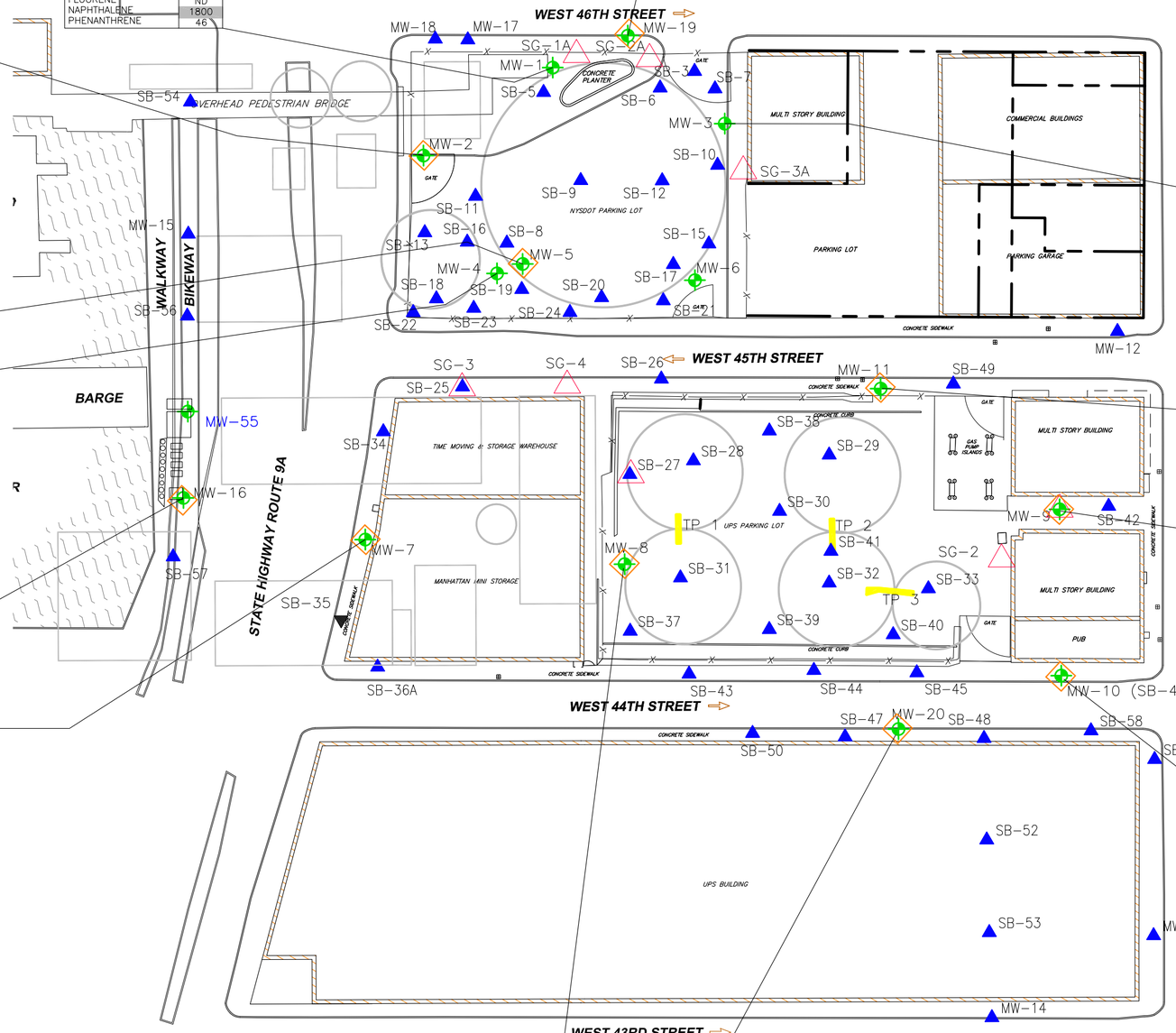
FIGURE 12

CONSOLIDATED EDISON
FORMER WEST 45th STREET GAS WORKS (OU-2)
NEW YORK, NY

SUMMARY OF OU-2 VOC EXCEEDANCES IN SUBSURFACE SOIL

PARSONS
301 PLAINFIELD ROAD, SUITE 350, SYRACUSE, N.Y. 13212, PHONE: 315-451-9560

FILE NAME: P:\CONED\446672 - W45TH OU2\CAD\10-28-14\446672-SK003-FIG 12.DWG
PLOT DATE: 10/31/2014 10:24 AM PLOTTED BY: RUSSO, JILL



MW-2	5/03	5/07
VOCs		
BENZENE	280	ND
ETHYL BENZENE	33	ND
ISOPROPYLBENZENE	NA	ND
STYRENE	1.8 JN	ND
TOLUENE	6.6	ND
m/p-XYLENES	10	ND
o-XYLENE	20 JN	ND
SVOCs		
ACENAPHTHENE	33	36
FLUORENE	4.7 J	2.2 J
PHENANTHRENE	2 J	ND

MW-1	5/03
VOCs	
BENZENE	11000
ETHYL BENZENE	3100
ISOPROPYLBENZENE	NA
STYRENE	3100
TOLUENE	16000
m/p-XYLENES	5500
o-XYLENE	2400
SVOCs	
2-METHYLPHENOL	ND
3+4-METHYLPHENOLS	28
ACENAPHTHENE	10 J
FLUORENE	ND
NAPHTHALENE	1800
PHENANTHRENE	46

MW-19	5/10/07
VOCs	
ACETONE	21
BENZENE	32000
2-BUTANONE	16
CYCLOHEXANE	2.9
ETHYL BENZENE	8000
ISOPROPYLBENZENE	94
STYRENE	28
TOLUENE	13000
m/p-XYLENES	6800
o-XYLENE	3000
SVOCs	
ACETOPHENONE	16
1,1-BIPHENYL	17
CARBAZOLE	16
DIBENZOFURAN	6.7
2,4-DIMETHYLPHENOL	39
2-METHYLPHENOL	21
3+4-METHYLPHENOLS	23
PHENOL	53
ACENAPHTHENE	27
ACENAPHTHYLENE	4.9
ANTHRACENE	4.9
FLUORANTHENE	3.5
FLUORENE	60
2-METHYLNAPHTHALENE	130
NAPHTHALENE	1400
PHENANTHRENE	61
PYRENE	4.1

MW-3	5/03
VOCs	
BENZENE	45000
ETHYL BENZENE	13000
ISOPROPYLBENZENE	NA
STYRENE	10000
TOLUENE	66000
m/p-XYLENES	19000
o-XYLENE	8200
SVOCs	
2-METHYLPHENOL	14
3+4-METHYLPHENOLS	13
ACENAPHTHENE	21
FLUORENE	78 J
NAPHTHALENE	1600
PHENANTHRENE	95 J

MW-5	5/03	5/07
VOCs		
BENZENE	1000 J	200
ETHYL BENZENE	990 J	250
ISOPROPYLBENZENE	NA	32
STYRENE	160 J	3.7 J
TOLUENE	790 J	110
m/p-XYLENES	690 J	150
o-XYLENE	390 JN	90
SVOCs		
ACENAPHTHENE	52	16
FLUORENE	23	11
NAPHTHALENE	290	460
PHENANTHRENE	8.7 J	13

MW-11	5/10/07
VOCs	
ACETONE	42
BENZENE	11
CYCLOHEXANE	2
ISOPROPYLBENZENE	2.2
METHYLCYCLOHEXANE	1.7
TOLUENE	1.2
o-XYLENE	1
SVOCs	
NAPHTHALENE	2.1

MW-4	3/17/06	5/10/07
VOCs		
BENZENE	4100	4000
ETHYL BENZENE	4200	4300
ISOPROPYLBENZENE	NA	NA
STYRENE	390 JN	440 J
TOLUENE	3300	3400
m/p-XYLENES	3400	3600
o-XYLENE	1400 JN	1500
SVOCs		
3+4-METHYLPHENOLS	2.3 J	2.6 J
ACENAPHTHENE	69	80
FLUORENE	36	43
NAPHTHALENE	2300	2300
PHENANTHRENE	59	70

MW-9	3/17/06	3/17/06	DUP.	5/22/07
VOCs				
BENZENE		6000	4800	4000
CARBON DISULFIDE		ND	ND	1.2
CYCLOHEXANE		2.7	2.7	2.4
ETHYL BENZENE		1700	2200	2100
ISOPROPYLBENZENE		100	100	71
METHYLCYCLOHEXANE		ND	ND	35
METHYL-TERT-BUTYL ETHER		2.6	2.7	ND
STYRENE		21	ND	3
TOLUENE		1500	1100	170
m/p-XYLENES		1600	1200	1200
o-XYLENE		1200	810	840
SVOCs				
ACETOPHENONE		ND	ND	7.2
1,1-BIPHENYL		44	42	39
CARBAZOLE		6.1	6.1	4.4
DIBENZOFURAN		4.4	4.1	4
PHENOL		7.9	9.3	ND
ACENAPHTHENE		150	130	110
ACENAPHTHYLENE		12	11	10
ANTHRACENE		11	9.8	6.7
BENZO(a)ANTHRACENE		3.3	2.3	NA
BENZO(a)PYRENE		2.1	ND	NA
BENZO(b)FLUORANTHENE		1.4	ND	NA
CHRYSENE		2.8	2.1	NA
FLUORANTHENE		3	2.4	2.7
FLUORENE		38	36	37
2-METHYLNAPHTHALENE		430	590	520
NAPHTHALENE		4600	4400	4400
PHENANTHRENE		53	48	38
PYRENE		10	8.2	3.7

MW-16	5/8/07
VOCs	
BENZENE	1.3
SVOCs	
BIS(2-ETHYLHEXYL)PHTHALATE	1.6

MW-7	3/17/06	5/10/07
VOCs		
ACETONE	490	ND
BENZENE	200	94
2-BUTANONE	94	ND
CARBON DISULFIDE	5.7	ND
CHLOROFORM	5.1	ND
ETHYL BENZENE	530	260
2-HEXANONE	2.6	ND
ISOPROPYLBENZENE	39	15
STYRENE	3.7	1.8
TOLUENE	300	160
m/p-XYLENES	290	150
o-XYLENE	350	180
SVOCs		
ACETOPHENONE	8.4	8.1
BENZALDEHYDE	ND	25
1,1-BIPHENYL	26	10
BIS(2-ETHYLHEXYL)PHTHALATE	3	ND
CARBAZOLE	7.1	2.6
DIBENZOFURAN	ND	1.8
2,4-DIMETHYLPHENOL	29	ND
2-METHYLPHENOL	3.6	ND
3+4-METHYLPHENOLS	17	ND
PHENOL	12	ND
ACENAPHTHENE	64	27
ACENAPHTHYLENE	28	6.6
ANTHRACENE	34	2.9
BENZO(a)ANTHRACENE	40	NA
BENZO(a)PYRENE	27	NA
BENZO(b)FLUORANTHENE	28	NA
BENZO(g,h,i)PERYLENE	4.2	NA
BENZO(k)FLUORANTHENE	31	NA
CHRYSENE	46	NA
DIBENZ(a,h)ANTHRACENE	1.7	NA
FLUORANTHENE	44	1.5
FLUORENE	43	13
2-METHYLNAPHTHALENE	360	170
NAPHTHALENE	1700	910
PHENANTHRENE	130	17
PYRENE	64	2.7

MW-10	3-31-06	5-10-07	5-10-07 DUP
VOCs			
BENZENE	ND	2300	2300
CYCLOHEXANE	R	2	2.3
1,2-DICHLOROETHANE	9.4	NA	NA
cis-1,2-DICHLOROETHENE	30	NA	NA
ETHYLBENZENE	ND	17	18
ISOPROPYLBENZENE	ND	49	50
METHYL-TERT-BUTYL ETHER	ND	28	28
METHYLCYCLOHEXANE	ND	1.7	1.6
TETRACHLOROETHENE	0.73	NA	NA
TOLUENE	ND	2.4	2.1
m/p-XYLENES	ND	15	15
o-XYLENE	ND	13	13
SVOCs			
1,1-BIPHENYL	1.9	ND	ND
CARBAZOLE	1.8	2.2	2.4
DIBENZOFURAN	ND	1.3	1.4
PHENOL	12	ND	ND
ACENAPHTHENE	130	84	91
ACENAPHTHYLENE	1.6	1.6	ND
FLUORENE	13	11	12
2-METHYLNAPHTHALENE	130	98	110
NAPHTHALENE	36	15	16
PHENANTHRENE	8.2	9.1	9.9

MW-8	3/17/06	5/22/07
VOCs		
BENZENE	1200	1100
CYCLOHEXANE	3.1	1.8
ETHYL BENZENE	640	330
ISOPROPYLBENZENE	29	29
METHYLCYCLOHEXANE	8.9	3.8
STYRENE	8.7	1.4
TOLUENE	890	150
m/p-XYLENES	550	250
o-XYLENE	270	110
SVOCs		
1,1-BIPHENYL	1.8	1.6
3+4-METHYLPHENOLS	2.9	ND
PENTACHLOROPHENOL	ND	13
PHENOL	7.3	ND
ACENAPHTHENE	2.8	2.5
FLUORENE	ND	1.5
2-METHYLNAPHTHALENE	45	29
NAPHTHALENE	590	380
PHENANTHRENE	2.1	2.5

MW-20	5/22/07
VOCs	
BENZENE	4700
CYCLOBENZENE	1.1
ETHYL BENZENE	740
ISOPROPYLBENZENE	64
STYRENE	1.8
TOLUENE	56
m/p-XYLENES	130
o-XYLENE	210
SVOCs	
1,1-BIPHENYL	39
CARBAZOLE	3.8
PHENOL	6.7
ACENAPHTHENE	150
ACENAPHTHYLENE	9.9
ANTHRACENE	10
FLUORANTHENE	39
FLUORENE	44
2-METHYLNAPHTHALENE	290
NAPHTHALENE	2400
PHENANTHRENE	57
PYRENE	4.8

NYSDEC Class GA Groundwater Standards/Guidance Values	
VOCs	
Benzene	1
Ethyl Benzene	5
Isopropylbenzene	5
Styrene	5
Toluene	5
m/p-Xylenes	5
o-Xylene	5
SVOCs	
2-Methylphenol	1
3+4-Methylphenols	1
Acenaphthene	20 (G)
Fluorene	50 (G)
Naphthalene	10 (G)
Phenanthrene	50 (G)

LEGEND

- CURRENT FEATURES
- HISTORICAL FEATURES (LOCATIONS ARE APPROXIMATE)
- EXISTING BUILDING
- CHAIN LINK FENCE
- SG-2 SOIL GAS LOCATION
- SB-28 SOIL BORING
- MW-5 MONITORING WELL
- TEST PIT LOCATION
- STANDARD OR GUIDANCE VALUE EXCEEDED
- 80 SHADED VALUES EXCEEDS NYSDEC TOGS 1.1.1 STANDARDS

ALL CONCENTRATIONS ARE IN PARTS PER BILLION (ug/L)

NOTES:

1. ALL CONCENTRATIONS ARE IN PARTS PER BILLION (ppb).
2. SHADED VALUES EXCEED NYSDEC GROUNDWATER QUALITY STANDARD OR GUIDANCE VALUE (TOGS 1.1.1).
3. ND = NOT DETECTED
4. NA = NOT ANALYZED
5. VOCs AND SVOCs WERE NOT DETECTED IN GROUNDWATER SAMPLES COLLECTED FROM MW-55.
6. GROUNDWATER SAMPLES WERE NOT COLLECTED FROM LOCATIONS MW-6, MW-12 THROUGH MW-15, 17 AND 18.

80 40 0 80 160

SCALE: 1"=80'

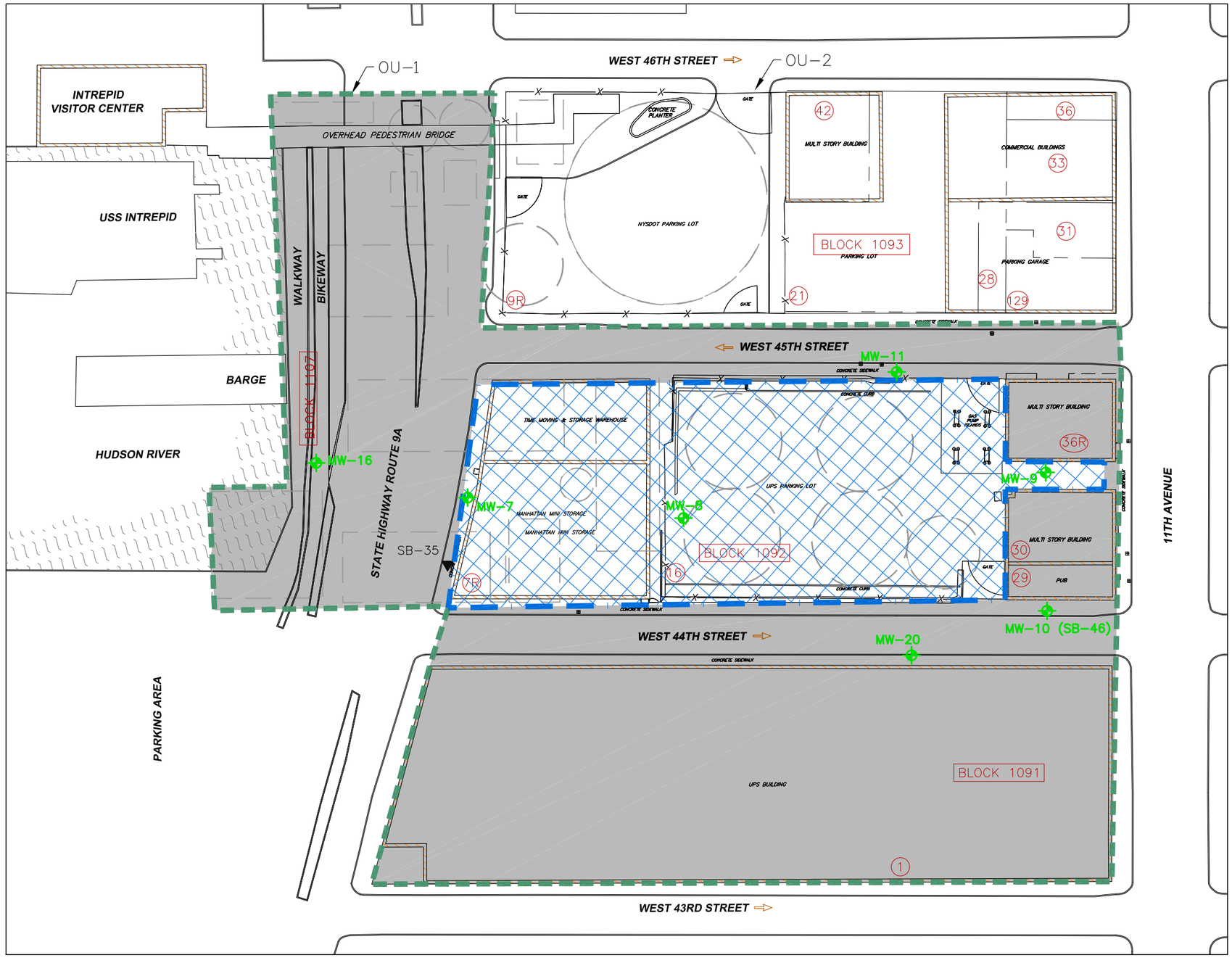
FIGURE 13

CONSOLIDATED EDISON
FORMER WEST 45th STREET GAS WORKS (OU-1)
NEW YORK, NY

SUMMARY OF VOCs & SVOCs DETECTED IN GROUNDWATER

PARSONS
301 PLAINFIELD ROAD, SUITE 350, SYRACUSE, N.Y. 13212, PHONE: 315-451-9560

FILE NAME: P:\CONED\446672 - W45TH OU2\CAD\10-28-14\446672-SK007-FIG 13.DWG
PLOT DATE: 10/31/2014 10:27 AM PLOTTED BY: RUSSO, JILL



LEGEND:

- CURRENT FEATURES
- HISTORICAL FEATURES (LOCATIONS ARE APPROXIMATE)
- EXISTING BUILDING
- CHAIN LINK FENCE
- MW-1 OU-1 MONITORING WELL
- AREA SUBJECT TO INSTITUTIONAL CONTROLS REQUIREMENTS
- AREA SUBJECT TO SITE MANAGEMENT PLAN CONDITIONS ONLY
- BLOCK 1093 TAX BLOCK NUMBER
- 21 TAX LOT NUMBER FOR PARCELS WITHIN FORMER MGP
- TAX LOT BOUNDARIES

100 50 0 100 200

SCALE: 1"=100'

FIGURE 14

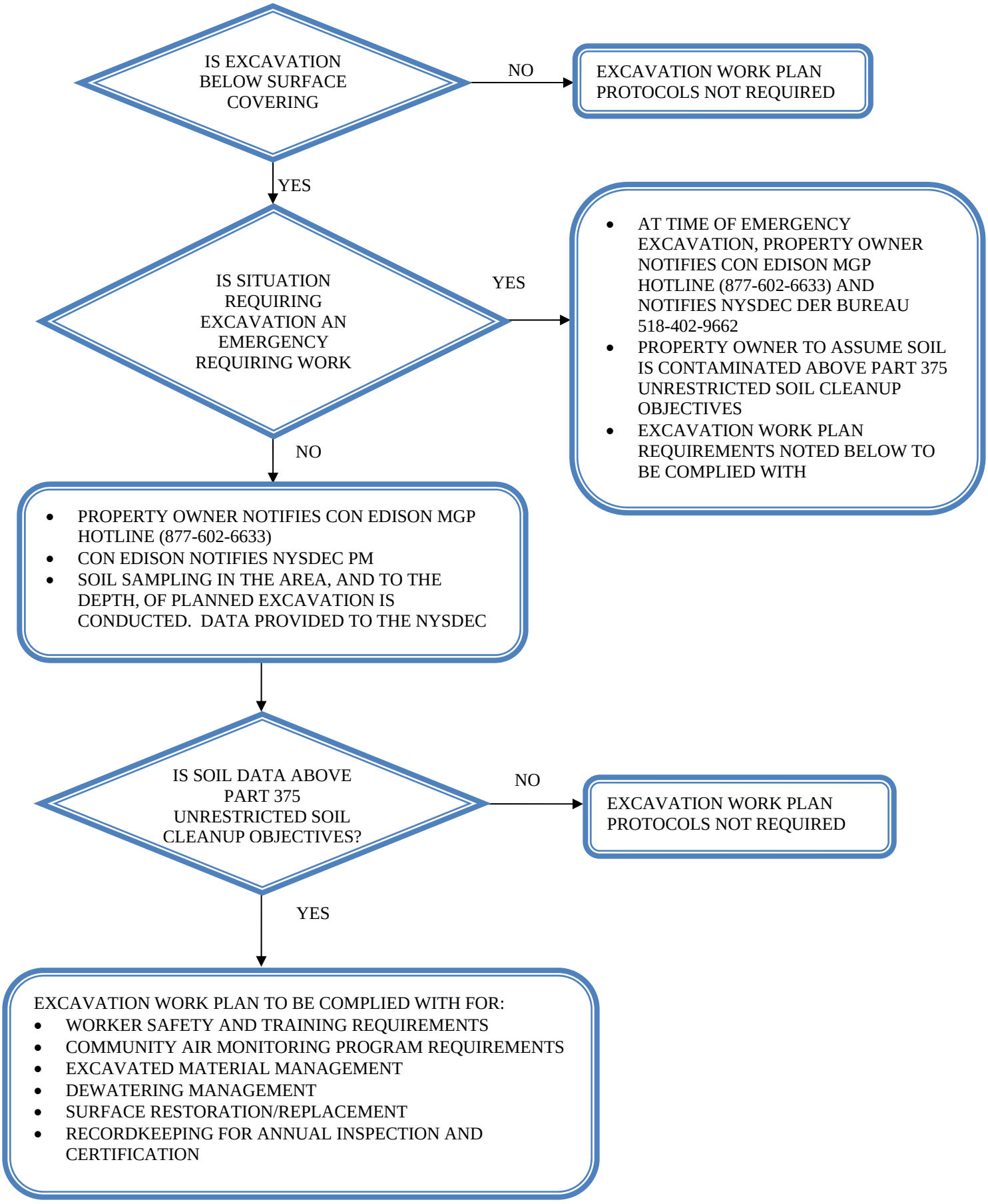
CONSOLIDATED EDISON OF NEW YORK
WEST 45th STREET
NEW YORK, NEW YORK

PROPOSED REMEDIAL ALTERNATIVE

PARSONS
301 PLAINFIELD ROAD, SUITE 350, SYRACUSE, N.Y. 13212, PHONE: 315-451-9560

FILE NAME: P:\CONED\446672 - W45TH OU2\CAD\10-28-14\446672-SK005-FIG 14.DWG
PLOT DATE: 10/28/2014 2:58 PM PLOTTED BY: RUSSO, JILL

Figure 15
Former West 45th Street Gas Works Site – OU 1
Remedial Action Work Plan
INTRUSIVE ACTIVITIES GUIDELINES



TABLES

Table 1
Remedial Action Work Plan
West 45th Street Operable Unit 1 - Sample Summary

Location	Sample ID	Depth (bgs)	TCL VOCs	TCL SVOCs	TAL Metals	Cyanide	Hydrocarbon Fingerprint	Available Cyanide	TO-15
SOIL SAMPLES									
MW-7	MW-7 (9-11)	9-11'	X						
MW-8	MW-8 (9-11)	9-11'	X	X	X	X			
	MW-8 (31-33)	31-33'	X						
MW-9	MW-9 (21-23)	21-23'	X	X	X	X	X		
	MW-9 (25-27)	25-27'	X	X	X	X			
MW-10	SB-46 (11-13)	11-13'	X	X	X	X			
	SB-46 (13-15)	13-15'	X	X	X	X			
MW-11	MW-11 (3.5-4)	3.5-4	X	X	X	X			
	MW-11 (8-10)	8-10'	X	X	X	X			
	MW-11 (18-20)	18-20'	X	X	X	X			
MW-12	MW-12(8-10)	8-10'	X	X	X	X			
MW-14	MW-14(7-9)	7-9'	X	X	X	X			
MW-15	MW-15(7-9)	7-9'	X						
MW-16	MW-16(15-17)	15-17'	X	X	X	X			
	MW-16(17-19)	17-19	X						
MW-17	MW-17(5-7)	5-7'	X	X	X	X			
MW-18	MW-18(5-7)	5-7'	X	X	X	X			
	MW-18(500-700)*	5-7'	X	X	X	X			
MW-19	MW-19(9-11)	9-11'	X	X	X	X			
	MW-19(13-15)	13-15'	X	X	X	X			
MW-20	MW-20(15-17)	15-17'	X	X	X	X			
	MW-20(21-23)	21-23'	X	X	X	X			
	MW-20(23-25)	23-25'	X	X	X	X			
MW-55	MW-55(7-9)	7-9'	X	X	X	X			
	MW-55(11-13)	11-13'	X						
SB-26	SB-26 (5-7)	5-7'	X	X	X	X			
SB-27	SB-27 (9-11)	9-11'	X						
	SB-27 (15-17)	15-17'	X	X	X	X			
SB-29	SB-29 (7-9)	7-9'	X						
	SB-29 (11-13)	11-13'	X	X	X	X			
	SB-29 (13-15)	13-15'	X	X	X	X			
SB-30	SB-30 (7-9)	7-9'	X						
	SB-30 (32-32.5)	32-32.5'	X	X	X	X			
	SB-30 (32.5)	32.5'	X						
SB-31	SB-31 (11-13)	11-13'	X		X				
	SB-31 (15-17)	15-17'	X						
SB-32	SB-32 (9-11)	9-11'		X	X	X			
	SB-32 (11-13)	11-13'	X						
SB-33	SB-33 (17-19)	17-19'	X	X	X	X			
	SB-33 (17-19)*	17-19'	X	X	X	X			
	SB-33 (27-28)	27-28'	X	X	X	X			
SB-36A	SB-36A (5-5.5)	5-5.5'	X	X	X	X			
SB-37	SB-37 (23-25)	23-25'	X						
	SB-37 (32-34)	32-34'	X	X	X	X			
SB-38	SB-38 (5-7)	5-7'	X						
	SB-38 (27-29)	27-29'	X						
	SB-38 (29)	29'	X						
SB-39	SB-39 (5-7)	5-7'	X						
	SB-39 (29-31)	29-31'					X		
	SB-39 (31-33)	31-33'	X	X	X	X			
SB-40	SB-40 (0.5-1.0)	0.5-1.0'	X	X	X	X			
	SB-40 (9-11)	9-11'	X	X	X	X			
	SB-40 (23-25)	23-25'	X	X	X	X			
SB-41	SB-41 (9-11)	9-11'	X						
	SB-41 (19-21)	19-21'	X						
SB-42	SB-42 (17-19)	17-19'	X	X	X	X			
	SB-42 (25-27)	25-27'	X						
SB-43	SB-43 (1-3)	1-3'	X	X	X	X			
	SB-43 (3.5')	3.5'					X		
	SB-43 (7-9)	7-9'	X	X	X	X			
SB-44	SB-44 (7-9)	7-9'	X	X	X	X			
SB-45	SB-45 (5-7)	5-7'	X	X	X	X			
	SB-45 (19-21)	19-21'	X	X	X	X			
SB-46	SB-46 (11-13)	11-13'	X	X	X	X			
	SB-46 (13-15)	13-15'	X	X	X	X			

Table 1
Remedial Action Work Plan
West 45th Street Operable Unit 1 - Sample Summary

Location	Sample ID	Depth (bgs)	TCL VOCs	TCL SVOCs	TAL Metals	Cyanide	Hydrocarbon Fingerprint	Available Cyanide	TO-15
SB-47	SB-47(15)	15'	X	X	X	X			
	SB-47 (18)	18'	X	X	X	X			
SB-48	SB-48 (20-21)	20-21'	X	X	X	X			
	SB-48 (23)	23'	X	X	X	X			
SB-49	SB-49(7-9)	7-9'	X						
	SB-49(17-19)	17-19'	X	X	X	X			
SB-50	SB-50(5-7)	5-7'	X	X	X	X			
	SB-50(9-11)	9-11'	X	X	X	X			
SB-51	SB-51(12-14)	12-14'	X	X	X	X			
	SB-51(16-18)	16-18'	X	X	X	X			
SB-52	SB-52(12-14)	12-14'	X	X	X	X			
	SB-52(14-16)	14-16'	X	X	X	X			
SB-53	SB-53(15-17)	15-17'	X	X	X	X			
	SB-53(17-19)	17-19'	X	X	X	X			
SB-54	SB-54(7-9)	7-9'	X						
	SB-54(9-11)	9-11'	X						
SB-56	SB-56(7-9)	7-9'	X						
SB-57	SB-57(7-9)	7-9'	X	X	X	X			
	SB_57(11-13)	11-13'	X	X	X	X			
SB-58	SB-58(7-9)	7-9'	X	X	X	X			
	SB-58(11-13)	11-13'	X	X	X	X			
TP-2	TP-2 (3-7)	3-7'	X	X	X	X			
	TP-2 (7)	7'	X	X	X	X			
TP-3	TP-3 (5-10)	5-10'	X	X	X	X			
	TP-3 (10)	10'	X	X	X	X			
GROUNDWATER SAMPLES									
MW-7	MW-7	NA	X	X	X	X		X	
MW-7 Diss	MW-7 Diss	NA			X				
MW-8	MW-8	NA	X	X	X	X		X	
MW-9	MW-9	NA	X	X	X	X		X	
MW-9 Diss	MW-9 Diss	NA			X				
MW-9	MW-9*	NA	X	X	X	X		X	
MW-9 Diss	MW-9 Diss*	NA			X				
MW-10	MW-10	NA	X	X	X	X		X	
MW-2	MW-2	NA	X	X	X	X		X	
MW-2 Diss	MW-2 Diss	NA			X				
MW-5	MW-5	NA	X	X	X	X		X	
MW-7	MW-7	NA	X	X	X	X		X	
MW-8	MW-8	NA	X	X	X	X		X	
MW-9	MW-9	NA	X	X	X	X		X	
MW-10	MW-10	NA	X	X	X	X		X	
MW-10	MW-100*	NA	X	X	X	X		X	
MW-11	MW-11	NA	X	X	X	X		X	
MW-11 Diss	MW-11 Diss	NA			X				
MW-16	MW-16	NA	X	X	X	X		X	
MW-19	MW-19	NA	X	X	X	X		X	
MW-20	MW-20	NA	X	X	X	X		X	
MW-55	MW-55	NA	X	X	X	X		X	
SOIL GAS SAMPLES									
MW-9	MW-9 (1')	1'							X
MW-9	MW-9 (6')	6'							X
SB-27	SB-27 (1')	1'							X
SB-27	SB-27 (1')*	1'							X
SB-27	SB-27 (6')	6'							X
SG-2	SG-2 (1')	1'							X
SG-2	SG-2 (6')	6'							X
SG-3	OU-1 SG-3 (1')	1'							X
SG-3	OU-1 SG-3 (4')	4'							X
SG-4	OU-1 SG-4 (1')	1'							X

1) Due to poor recovery and insufficient sample volume, a number of samples could not be submitted for all analyses at monitoring well locations MW-7, 8, 15, 16, 55 and soil boring locations SB-27, 29-32, 37-39, 41, 42, 49, 54 and 56.

* Indicates a duplicate sample.

Table 2
Remedial Action Work Plan
West 45th Street Operable Unit 1 - Summary of Groundwater Elevations

Tidal Study - March 2006

Well ID	Highest Groundwater Elevation (feet AMSL)	Lowest Groundwater Elevation (feet AMSL)	Average Groundwater Elevation (feet AMSL)	Range of Groundwater Elevations (feet)
MW-2	0.57	0.32	0.39	0.25
MW-3	6.88	6.2	6.37	0.68
MW-4	7.48	7.05	7.24	0.43
MW-5	8.59	8.28	8.44	0.31
MW-6	7.37	6.77	7.12	0.6
MW-7	2.21	1.83	1.94	0.38
MW-8	9.33	9.11	9.32	0.22
MW-9	5.41	4.71	4.76	0.7

Groundwater Gauging Event - May 2007

Well ID	Depth to Water (1) (feet)	Top of Casing Elevation (feet AMSL)	Groundwater Elevation (feet AMSL)
MW-2	8.29	9.07	0.78
MW-3	See Note 2	12.03	NA
MW-4	2.71	9.9	7.19
MW-5	1.64	10.68	9.04
MW-6	4.1	10.78	6.68
MW-7	7.61	9.9	2.29
MW-8	8.7	18.12	9.42
MW-9	10.49	16.24	5.75
MW-10	9.23	12.36	3.13
MW-11	6.46	12.76	6.30
MW-16	10.45	7.91	-2.54
MW-19	6.22	14.3	8.08
MW-20	10.8	11.35	0.55
MW-55	9.89	11.35	1.46

Notes:
(1) Measured from top of PVC well casing on May 22, 2007.
(2) Well not accessible. Covered by construction trailer.
AMSL = Above Mean Sea Level
NA = Not Available
Elevations are based on the North American Vertical Datum of 1988 (NAVD88).

Table 3
Remedial Action Work Plan
West 45th Street Operable Unit 1 - Validated Subsurface Soil Analytical Data
Detected Compound Summary

Consolidated Edison W 45th Street Validated Soil Analytical Data Detected Compound Summary		6 NYCRR Part 375 Unrestricted Use Soil Cleanup Objectives 12/14/2006	6 NYCRR Part 375 Restricted Soil Cleanup Objectives Commercial Use 12/14/2006	Sample ID: Lab Sample Id: Depth: Source: SDG: Matrix: Sampled: Validated:	MW- 7(9-11) X1835-02 9-11' Chemtech X1835 SOIL 3/4/2006 5/15/2006	MW- 8(9-11) X1835-09 9-11' Chemtech X1835 SOIL 3/7/2006 5/15/2006	MW- 8(31-33) X1835-10 31-33' Chemtech X1835 SOIL 3/7/2006 5/15/2006	MW- 9(21-23) X1508-14 21-23' Chemtech X1508 SOIL 2/10/2006 6/14/2006	MW- 9(25-27) X1508-15 25-27' Chemtech X1508 SOIL 2/10/2006 6/14/2006	MW-11(3.5-4.0') 010700779-1 3.5-4.0' EMSL Analytical 10700779 Soil 2/19/2007 6/6/2007
CAS NO.	COMPOUND			UNITS:						
	VOLATILES									
67-64-1	Acetone	0.05	500	mg/Kg	44 J	4.4 J	3.8 J	ND	ND	0.64 J
71-43-2	Benzene	0.06	44	mg/Kg	1.4 J	ND	0.18 J	2.6 J	0.019 J	ND
75-27-4	Bromodichloromethane	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
78-93-3	2-Butanone	0.12	500	mg/Kg	16 J	1.6 J	1.5 J	ND	ND	ND
75-65-0	tert-Butyl Alcohol	--	--	mg/Kg	NA	NA	NA	NA	NA	R
104-51-8	n-Butylbenzene	12	500	mg/Kg	NA	NA	NA	NA	NA	ND
135-98-8	sec-Butylbenzene	11	500	mg/Kg	NA	NA	NA	NA	NA	ND
98-06-6	tert-Butylbenzene	5.9	500	mg/Kg	NA	NA	NA	NA	NA	ND
75-15-0	Carbon Disulfide	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
110-82-7	Cyclohexane	--	--	mg/Kg	ND	ND	ND	ND	ND	NA
124-48-1	Dibromochloromethane	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
75-35-4	1,1-Dichloroethene	0.33	500	mg/Kg	ND	ND	ND	ND	ND	ND
107-06-2	1,2-Dichloroethane	0.02	30	mg/Kg	ND	ND	ND	ND	ND	ND
10061-01-5	cis-1,3-Dichloropropene	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
100-41-4	Ethyl Benzene	1	390	mg/Kg	88	0.083 J	0.95	43	0.013 J	ND
591-78-6	2-Hexanone	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
98-82-8	Isopropylbenzene	--	--	mg/Kg	17	ND	ND	ND	ND	ND
108-10-1	4-Methyl-2-Pentanone	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
1634-04-4	Methyl tert-butyl Ether	0.93	500	mg/Kg	ND	ND	ND	ND	ND	ND
108-87-2	Methylcyclohexane	--	--	mg/Kg	ND	ND	0.19 J	ND	ND	NA
75-09-2	Methylene Chloride	0.05	500	mg/Kg	ND	ND	ND	ND	ND	R
91-20-3	Naphthalene	12	500	mg/Kg	NA	NA	NA	NA	NA	ND
100-42-5	Styrene	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
79-00-5	1,1,2-Trichloroethane	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
79-34-5	1,1,2,2-Tetrachloroethane	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
127-18-4	Tetrachloroethene	1.3	150	mg/Kg	ND	0.25 J	0.23 J	ND	ND	ND
108-88-3	Toluene	0.7	500	mg/Kg	9.5	ND	0.28 J	6.8	ND	ND
95-63-6	1,2,4-Trimethylbenzene	3.6	190	mg/Kg	NA	NA	NA	NA	NA	ND
108-67-8	1,3,5-Trimethylbenzene	8.4	190	mg/Kg	NA	NA	NA	NA	NA	ND
136777-61-2	m/p-Xylenes	0.26	500	mg/Kg	47	0.18 J	0.91 J	30	0.0098 J	ND
1330-20-7	o-Xylene	0.26		mg/Kg	51	0.12 J	0.41 J	17	0.0071 J	ND
	Total VOCs				**273.9**	**6.633**	**8.45**	**99.4**	**0.0489**	**0.64**

Notes:
(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Programs (December 2006)
(2) -- indicates no cleanup objective or background level is available.
(3) NA indicates compound was not analyzed for.
(4) ND indicates compound was not detected.
(5) J indicates an estimated concentration.
(6) R indicates a rejected value.
(7) Shaded values exceed 6 NYCRR Part 375 Unrestricted Soil Cleanup Objectives.
(8) **Bold** and boxed values exceed 6 NYCRR Part 375 Restricted Soil Cleanup Objectives for Commercial Use.

Table 3
Remedial Action Work Plan
West 45th Street Operable Unit 1 - Validated Subsurface Soil Analytical Data
Detected Compound Summary

Consolidated Edison W 45th Street Validated Soil Analytical Data Detected Compound Summary		6 NYCRR Part 375 Unrestricted Use Soil Cleanup Objectives 12/14/2006	6 NYCRR Part 375 Restricted Soil Cleanup Objectives Commercial Use 12/14/2006	Sample ID: Lab Sample Id: Depth: Source: SDG: Matrix: Sampled: Validated:	MW- 7(9-11) X1835-02 9-11' Chemtech X1835 SOIL 3/4/2006 5/15/2006	MW- 8(9-11) X1835-09 9-11' Chemtech X1835 SOIL 3/7/2006 5/15/2006	MW- 8(31-33) X1835-10 31-33' Chemtech X1835 SOIL 3/7/2006 5/15/2006	MW- 9(21-23) X1508-14 21-23' Chemtech X1508 SOIL 2/10/2006 6/14/2006	MW- 9(25-27) X1508-15 25-27' Chemtech X1508 SOIL 2/10/2006 6/14/2006	MW-11(3.5-4.0') 010700779-1 3.5-4.0' EMSL Analytical 10700779 Soil 2/19/2007 6/6/2007
CAS NO.	COMPOUND			UNITS:						
	SEMIVOLATILES									
98-86-2	Acetophenone	--	--	mg/Kg	NA	ND	NA	ND	ND	NA
92-52-4	1,1-Biphenyl	--	--	mg/Kg	NA	0.7 J	NA	35	ND	NA
117-81-7	Bis(2-ethylhexyl)phthalate	--	--	mg/Kg	NA	ND	NA	ND	ND	0.022
86-74-8	Carbazole	--	--	mg/Kg	NA	ND	NA	ND	ND	ND
132-64-9	Dibenzofuran	7	350	mg/Kg	NA	ND	NA	5.4	ND	ND
105-67-9	2,4-Dimethylphenol	--	--	mg/Kg	NA	ND	NA	ND	ND	ND
84-74-2	Di-n-butylphthalate	--	--	mg/Kg	NA	ND	NA	ND	ND	ND
117-84-0	Di-n-octyl phthalate	--	--	mg/Kg	NA	ND	NA	ND	ND	0.016
106-44-5	3+4-Methylphenols	0.33	500	mg/Kg	NA	ND	NA	ND	ND	NA
86-30-6	N-Nitrosodiphenylamine	--	--	mg/Kg	NA	ND	NA	ND	ND	ND
108-95-2	Phenol	0.33	500	mg/Kg	NA	ND	NA	ND	ND	ND
	PAHs									
83-32-9	Acenaphthene	20	500	mg/Kg	NA	0.41 J	NA	110 J	0.12 J	ND
208-96-8	Acenaphthylene	100	500	mg/Kg	NA	ND	NA	15	ND	0.077
120-12-7	Anthracene	100	500	mg/Kg	NA	ND	NA	58	0.15 J	0.025
120-12-7	Benzo(a)anthracene	1	5.6	mg/Kg	NA	ND	NA	**33 J**	0.12 J	0.11
50-32-8	Benzo(a)pyrene	1	1	mg/Kg	NA	ND	NA	**22 J**	0.077 J	0.15
205-99-2	Benzo(b)fluoranthene	1	5.6	mg/Kg	NA	ND	NA	**15**	0.049 J	0.13
191-24-2	Benzo(g,h,i)perylene	100	500	mg/Kg	NA	ND	NA	3.7	ND	0.15
207-08-9	Benzo(k)fluoranthene	0.8	56	mg/Kg	NA	ND	NA	6.2	ND	0.1
218-01-9	Chrysene	1	56	mg/Kg	NA	ND	NA	31	0.12 J	0.13
53-70-3	Dibenz(a,h)anthracene	0.33	0.56	mg/Kg	NA	ND	NA	**0.57 J**	ND	0.032
206-44-0	Fluoranthene	100	500	mg/Kg	NA	ND	NA	66	0.17 J	0.16
86-73-7	Fluorene	30	500	mg/Kg	NA	0.53 J	NA	72	0.14 J	ND
193-39-5	Indeno(1,2,3-cd)pyrene	0.5	5.6	mg/Kg	NA	ND	NA	4.4	ND	0.11
91-57-6	2-Methylnaphthalene	--	--	mg/Kg	NA	6.6	NA	320	ND	ND
91-20-3	Naphthalene	12	500	mg/Kg	NA	2.1	NA	**770**	ND	0.031
85-01-8	Phenanthrene	100	500	mg/Kg	NA	1.4 J	NA	170	0.63	0.073
129-00-0	Pyrene	100	500	mg/Kg	NA	ND	NA	69 J	0.32 J	0.15
	Total PAHs	**--**	**--**	**mg/Kg**		**11.04**		**1765.87**	**1.896**	**1.428**
	Total SVOCs	**--**	**--**	**mg/Kg**		**11.74**		**1806.27**	**1.896**	**1.466**

Notes:
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Table 3
Remedial Action Work Plan
West 45th Street Operable Unit 1 - Validated Subsurface Soil Analytical Data
Detected Compound Summary

Consolidated Edison W 45th Street Validated Soil Analytical Data Detected Compound Summary		6 NYCRR Part 375 Unrestricted Use Soil Cleanup Objectives 12/14/2006	6 NYCRR Part 375 Restricted Soil Cleanup Objectives Commercial Use 12/14/2006	Sample ID: Lab Sample Id: Depth: Source: SDG: Matrix: Sampled: Validated:	MW- 7(9-11) X1835-02 9-11' Chemtech X1835 SOIL 3/4/2006 5/15/2006	MW- 8(9-11) X1835-09 9-11' Chemtech X1835 SOIL 3/7/2006 5/15/2006	MW- 8(31-33) X1835-10 31-33' Chemtech X1835 SOIL 3/7/2006 5/15/2006	MW- 9(21-23) X1508-14 21-23' Chemtech X1508 SOIL 2/10/2006 6/14/2006	MW- 9(25-27) X1508-15 25-27' Chemtech X1508 SOIL 2/10/2006 6/14/2006	MW-11(3.5-4.0') 010700779-1 3.5-4.0' EMSL Analytical 10700779 Soil 2/19/2007 6/6/2007
CAS NO.	COMPOUND			UNITS:						
	INORGANICS									
7429-90-5	Aluminum	--	--	mg/Kg	NA	4570	NA	3060 J	4770 J	4600 J
7440-36-0	Antimony	--	--	mg/Kg	NA	ND	NA	ND	ND	ND
7440-38-2	Arsenic	13	16	mg/Kg	NA	6.29	NA	0.987 J	0.78 J	3
7440-39-3	Barium	350	400	mg/Kg	NA	265 J	NA	56.8	85.1 J	47
7440-41-7	Beryllium	7.2	590	mg/Kg	NA	0.3 J	NA	0.263 J	0.325 J	ND
7440-43-9	Cadmium	2.5	9.3	mg/Kg	NA	0.231 J	NA	ND	ND	ND
7440-70-2	Calcium	--	--	mg/Kg	NA	7710	NA	1470 J	3280 J	2600 J
7440-47-3	Chromium	--	--	mg/Kg	NA	11.2	NA	10.6	14.2 J	8.7 J
7440-48-4	Cobalt	--	--	mg/Kg	NA	6.19	NA	4.46 J	5.73 J	4.3
7440-50-8	Copper	50	270	mg/Kg	NA	49.6	NA	13.7	15.5 J	41
7439-89-6	Iron	--	--	mg/Kg	NA	10400	NA	7040 J	9850 J	14000 J
7439-92-1	Lead	63	1,000	mg/Kg	NA	113	NA	3.58	4.42 J	75 J
7439-95-4	Magnesium	--	--	mg/Kg	NA	3200	NA	1330 J	3280 J	1500 J
7439-96-5	Manganese	1,600	10,000	mg/Kg	NA	95.7	NA	723 J	720 J	110 J
7439-97-6	Mercury	0.18	2.8	mg/Kg	NA	0.095	NA	0.012	ND	0.15
7440-02-0	Nickel	30	310	mg/Kg	NA	14.6	NA	8.14	10.1 J	9.5
7440-09-7	Potassium	--	--	mg/Kg	NA	2200	NA	767 J	2270 J	740
7782-49-2	Selenium	3.9	1,500	mg/Kg	NA	ND	NA	0.454 J	0.692 J	ND
7440-22-4	Silver	2	1,500	mg/Kg	NA	R	NA	0.89 J	1.11 J	ND
7440-23-5	Sodium	--	--	mg/Kg	NA	676	NA	183 J	137 J	ND
7440-28-0	Thallium	--	--	mg/Kg	NA	ND	NA	ND	1.56	ND
7440-62-2	Vanadium	--	--	mg/Kg	NA	27.2 J	NA	13.3 J	21.1 J	12 J
7440-66-6	Zinc	109	10,000	mg/Kg	NA	181	NA	16.9 J	24.7 J	77
57-12-5	Cyanide	27	27	mg/Kg	NA	1.29	NA	ND	ND	ND

Notes:
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West 45th Street Operable Unit 1 - Validated Subsurface Soil Analytical Data
Detected Compound Summary

Consolidated Edison W 45th Street Validated Soil Analytical Data Detected Compound Summary		6 NYCRR Part 375 Unrestricted Use Soil Cleanup Objectives 12/14/2006	6 NYCRR Part 375 Restricted Soil Cleanup Objectives Commercial Use 12/14/2006	Sample ID: Lab Sample Id: Depth: Source: SDG: Matrix: Sampled: Validated:	MW-11(8-10') 010701015-3 8-10' EMSL Analytical 10701015 Soil 3/2/2007 6/20/2007	MW-11(18-20') 010701015-4 18-20' EMSL Analytical 10701015 Soil 3/2/2007 6/20/2007	MW-12(8-10') 010701015-2 8-10' EMSL Analytical 10701015 Soil 3/2/2007 6/20/2007	MW-14(7-9') 010700957-2 7-9' EMSL Analytical 10700957 Soil 2/28/2007 6/19/2007	MW-15(7-9) Y2489-02 7-9' Chemtech Y2489 SOIL 4/26/2007 6/20/2007	MW-16(15-17) Y2518-04 15-17' Chemtech Y2518 SOIL 4/27/2007 6/21/2007
CAS NO.	COMPOUND			UNITS:						
	VOLATILES									
67-64-1	Acetone	0.05	500	mg/Kg	ND	0.0029 J	ND	ND	0.034 J	0.076 J
71-43-2	Benzene	0.06	44	mg/Kg	0.003	ND	ND	ND	ND	ND
75-27-4	Bromodichloromethane	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
78-93-3	2-Butanone	0.12	500	mg/Kg	ND	ND	ND	ND	ND	ND
75-65-0	tert-Butyl Alcohol	--	--	mg/Kg	R	R	R	R	NA	NA
104-51-8	n-Butylbenzene	12	500	mg/Kg	ND	ND	ND	ND	NA	NA
135-98-8	sec-Butylbenzene	11	500	mg/Kg	ND	ND	ND	ND	NA	NA
98-06-6	tert-Butylbenzene	5.9	500	mg/Kg	0.0012	ND	ND	ND	NA	NA
75-15-0	Carbon Disulfide	--	--	mg/Kg	ND	ND	ND	ND	ND	0.0069 J
110-82-7	Cyclohexane	--	--	mg/Kg	NA	NA	NA	NA	ND	ND
124-48-1	Dibromochloromethane	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
75-35-4	1,1-Dichloroethene	0.33	500	mg/Kg	ND	ND	ND	ND	ND	ND
107-06-2	1,2-Dichloroethane	0.02	30	mg/Kg	ND	ND	ND	ND	ND	ND
10061-01-5	cis-1,3-Dichloropropene	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
100-41-4	Ethyl Benzene	1	390	mg/Kg	ND	ND	ND	ND	ND	0.021 J
591-78-6	2-Hexanone	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
98-82-8	Isopropylbenzene	--	--	mg/Kg	0.0014	ND	ND	ND	ND	0.0094 J
108-10-1	4-Methyl-2-Pentanone	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
1634-04-4	Methyl tert-butyl Ether	0.93	500	mg/Kg	ND	ND	ND	ND	ND	ND
108-87-2	Methylcyclohexane	--	--	mg/Kg	NA	NA	NA	NA	ND	ND
75-09-2	Methylene Chloride	0.05	500	mg/Kg	0.0018 J	0.0013 J	0.0074 J	ND	ND	ND
91-20-3	Naphthalene	12	500	mg/Kg	0.028 J	0.0024	ND	ND	NA	NA
100-42-5	Styrene	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
79-00-5	1,1,2-Trichloroethane	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
79-34-5	1,1,2,2-Tetrachloroethane	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
127-18-4	Tetrachloroethene	1.3	150	mg/Kg	ND	ND	ND	ND	ND	ND
108-88-3	Toluene	0.7	500	mg/Kg	ND	ND	ND	ND	ND	ND
95-63-6	1,2,4-Trimethylbenzene	3.6	190	mg/Kg	0.0015 J	ND	ND	ND	NA	NA
108-67-8	1,3,5-Trimethylbenzene	8.4	190	mg/Kg	ND	ND	ND	ND	NA	NA
136777-61-2	m/p-Xylenes	0.26	500	mg/Kg	ND	ND	ND	ND	ND	0.0078 J
1330-20-7	o-Xylene	0.26		mg/Kg	ND	ND	ND	ND	ND	0.012 J
	Total VOCs				**0.0369**	**0.0066**	**0.0074**	**ND**	**0.034**	**0.1331**

Notes:
(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Programs (December 2006)
(2) -- indicates no cleanup objective or background level is available.
(3) NA indicates compound was not analyzed for.
(4) ND indicates compound was not detected.
(5) J indicates an estimated concentration.
(6) R indicates a rejected value.
(7) Shaded values exceed 6 NYCRR Part 375 Unrestricted Soil Cleanup Objectives.
(8) **Bold** and boxed values exceed 6 NYCRR Part 375 Restricted Soil Cleanup Objectives for Commercial Use.

Table 3
Remedial Action Work Plan
West 45th Street Operable Unit 1 - Validated Subsurface Soil Analytical Data
Detected Compound Summary

Consolidated Edison W 45th Street Validated Soil Analytical Data Detected Compound Summary		6 NYCRR Part 375 Unrestricted Use Soil Cleanup Objectives 12/14/2006	6 NYCRR Part 375 Restricted Soil Cleanup Objectives Commercial Use 12/14/2006	Sample ID: Lab Sample Id: Depth: Source: SDG: Matrix: Sampled: Validated:	MW-11(8-10') 010701015-3 8-10' EMSL Analytical 10701015 Soil 3/2/2007 6/20/2007	MW-11(18-20') 010701015-4 18-20' EMSL Analytical 10701015 Soil 3/2/2007 6/20/2007	MW-12(8-10') 010701015-2 8-10' EMSL Analytical 10701015 Soil 3/2/2007 6/20/2007	MW-14(7-9') 010700957-2 7-9' EMSL Analytical 10700957 Soil 2/28/2007 6/19/2007	MW-15(7-9) Y2489-02 7-9' Chemtech Y2489 SOIL 4/26/2007 6/20/2007	MW-16(15-17) Y2518-04 15-17' Chemtech Y2518 SOIL 4/27/2007 6/21/2007
CAS NO.	COMPOUND			UNITS:						
	SEMIVOLATILES									
98-86-2	Acetophenone	--	--	mg/Kg	NA	NA	NA	NA	NA	ND
92-52-4	1,1-Biphenyl	--	--	mg/Kg	NA	NA	NA	NA	NA	ND
117-81-7	Bis(2-ethylhexyl)phthalate	--	--	mg/Kg	0.25 J	0.062	0.24	ND	NA	ND
86-74-8	Carbazole	--	--	mg/Kg	0.084	ND	ND	ND	NA	ND
132-64-9	Dibenzofuran	7	350	mg/Kg	ND	ND	ND	ND	NA	ND
105-67-9	2,4-Dimethylphenol	--	--	mg/Kg	ND	ND	ND	ND	NA	ND
84-74-2	Di-n-butylphthalate	--	--	mg/Kg	0.11	0.12	0.089	0.15	NA	ND
117-84-0	Di-n-octyl phthalate	--	--	mg/Kg	ND	ND	ND	ND	NA	ND
106-44-5	3+4-Methylphenols	0.33	500	mg/Kg	NA	NA	NA	NA	NA	ND
86-30-6	N-Nitrosodiphenylamine	--	--	mg/Kg	ND	ND	ND	ND	NA	ND
108-95-2	Phenol	0.33	500	mg/Kg	ND	ND	ND	ND	NA	ND
	PAHs									
83-32-9	Acenaphthene	20	500	mg/Kg	ND	ND	ND	ND	NA	ND
208-96-8	Acenaphthylene	100	500	mg/Kg	ND	ND	ND	ND	NA	ND
120-12-7	Anthracene	100	500	mg/Kg	0.25	ND	ND	0.013	NA	ND
120-12-7	Benzo(a)anthracene	1	5.6	mg/Kg	0.14 J	ND	ND	0.046	NA	0.14 J
50-32-8	Benzo(a)pyrene	1	1	mg/Kg	0.13	ND	ND	0.031	NA	0.18 J
205-99-2	Benzo(b)fluoranthene	1	5.6	mg/Kg	0.12	ND	ND	0.021	NA	0.17 J
191-24-2	Benzo(g,h,i)perylene	100	500	mg/Kg	0.029	ND	ND	0.027	NA	0.11 J
207-08-9	Benzo(k)fluoranthene	0.8	56	mg/Kg	0.11	ND	ND	0.029	NA	ND
218-01-9	Chrysene	1	56	mg/Kg	0.19 J	ND	ND	0.049	NA	0.15 J
53-70-3	Dibenz(a,h)anthracene	0.33	0.56	mg/Kg	ND	ND	ND	ND	NA	ND
206-44-0	Fluoranthene	100	500	mg/Kg	0.32	ND	ND	0.081	NA	0.26 J
86-73-7	Fluorene	30	500	mg/Kg	ND	ND	ND	ND	NA	ND
193-39-5	Indeno(1,2,3-cd)pyrene	0.5	5.6	mg/Kg	0.026	ND	ND	0.021	NA	0.089 J
91-57-6	2-Methylnaphthalene	--	--	mg/Kg	4.9	ND	ND	ND	NA	ND
91-20-3	Naphthalene	12	500	mg/Kg	1	ND	ND	ND	NA	ND
85-01-8	Phenanthrene	100	500	mg/Kg	1.5	ND	ND	0.056	NA	0.2 J
129-00-0	Pyrene	100	500	mg/Kg	0.31 J	ND	ND	0.088	NA	0.35 J
	Total PAHs	**--**	**--**	**mg/Kg**	**9.025**	**ND**	**ND**	**0.462**		**1.649**
	Total SVOCs	**--**	**--**	**mg/Kg**	**9.469**	**0.182**	**0.329**	**0.612**		**1.649**

Notes:
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Remedial Action Work Plan
West 45th Street Operable Unit 1 - Validated Subsurface Soil Analytical Data
Detected Compound Summary

Consolidated Edison W 45th Street Validated Soil Analytical Data Detected Compound Summary		6 NYCRR Part 375 Unrestricted Use Soil Cleanup Objectives 12/14/2006	6 NYCRR Part 375 Restricted Soil Cleanup Objectives Commercial Use 12/14/2006	Sample ID: Lab Sample Id: Depth: Source: SDG: Matrix: Sampled: Validated:	MW-11(8-10') 010701015-3 8-10' EMSL Analytical 10701015 Soil 3/2/2007 6/20/2007	MW-11(18-20') 010701015-4 18-20' EMSL Analytical 10701015 Soil 3/2/2007 6/20/2007	MW-12(8-10') 010701015-2 8-10' EMSL Analytical 10701015 Soil 3/2/2007 6/20/2007	MW-14(7-9') 010700957-2 7-9' EMSL Analytical 10700957 Soil 2/28/2007 6/19/2007	MW-15(7-9) Y2489-02 7-9' Chemtech Y2489 SOIL 4/26/2007 6/20/2007	MW-16(15-17) Y2518-04 15-17' Chemtech Y2518 SOIL 4/27/2007 6/21/2007
CAS NO.	COMPOUND			UNITS:						
	INORGANICS									
7429-90-5	Aluminum	--	--	mg/Kg	3600 J	2900 J	8500 J	6200 J	NA	10100
7440-36-0	Antimony	--	--	mg/Kg	ND	ND	ND	ND	NA	26.2 J
7440-38-2	Arsenic	13	16	mg/Kg	1.6 J	1 J	2 J	2.2 J	NA	5.51
7440-39-3	Barium	350	400	mg/Kg	28	26	41	95 J	NA	85 J
7440-41-7	Beryllium	7.2	590	mg/Kg	ND	ND	ND	ND	NA	0.45 J
7440-43-9	Cadmium	2.5	9.3	mg/Kg	ND	ND	ND	ND	NA	1.28
7440-70-2	Calcium	--	--	mg/Kg	1700 J	950 J	1000 J	1300 J	NA	60700 J
7440-47-3	Chromium	--	--	mg/Kg	6.2	10	14	13 J	NA	21.9 J
7440-48-4	Cobalt	--	--	mg/Kg	2.6 J	3 J	5 J	4.6 J	NA	7.38 J
7440-50-8	Copper	50	270	mg/Kg	6.7 J	6.4 J	12 J	16 J	NA	18.4
7439-89-6	Iron	--	--	mg/Kg	5700 J	6100 J	13000 J	19000 J	NA	11900 J
7439-92-1	Lead	63	1,000	mg/Kg	15 J	2.4 J	5.8 J	8.8 J	NA	123 J
7439-95-4	Magnesium	--	--	mg/Kg	1000	1100	2500	2500 J	NA	14300
7439-96-5	Manganese	1,600	10,000	mg/Kg	61 J	53 J	120 J	R	NA	465 J
7439-97-6	Mercury	0.18	2.8	mg/Kg	0.042	ND	ND	0.034 J	NA	0.3 J
7440-02-0	Nickel	30	310	mg/Kg	4.4 J	6.3 J	10 J	11 J	NA	16.1
7440-09-7	Potassium	--	--	mg/Kg	290 J	520 J	890 J	730 J	NA	3300 J
7782-49-2	Selenium	3.9	1,500	mg/Kg	ND	ND	ND	ND	NA	ND
7440-22-4	Silver	2	1,500	mg/Kg	ND	ND	ND	2 J	NA	0.404 J
7440-23-5	Sodium	--	--	mg/Kg	ND	ND	330 J	ND	NA	1310
7440-28-0	Thallium	--	--	mg/Kg	ND	ND	ND	ND	NA	ND
7440-62-2	Vanadium	--	--	mg/Kg	7.6 J	13 J	20 J	13 J	NA	29.9
7440-66-6	Zinc	109	10,000	mg/Kg	18 J	11 J	30 J	25 J	NA	112 J
57-12-5	Cyanide	27	27	mg/Kg	ND	ND	ND	ND	NA	ND

Notes:
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West 45th Street Operable Unit 1 - Validated Subsurface Soil Analytical Data
Detected Compound Summary

Consolidated Edison W 45th Street Validated Soil Analytical Data Detected Compound Summary		6 NYCRR Part 375 Unrestricted Use Soil Cleanup Objectives 12/14/2006	6 NYCRR Part 375 Restricted Soil Cleanup Objectives Commercial Use 12/14/2006	Sample ID: Lab Sample Id: Depth: Source: SDG: Matrix: Sampled: Validated:	MW-16(17-19) Y2518-05 17-19' Chemtech Y2518 SOIL 4/27/2007 6/21/2007	MW-17(5-7') 010700970-1 5-7' EMSL Analytical 10700970 Soil 3/1/2007 6/19/2007	MW-18(5-7) Y2633-05 5-7' Chemtech Y2633 SOIL 5/7/2007 6/24/2007	Dup of MW-18(5-7) MW-18(500-700) Y2633-06 5-7' Chemtech Y2633 SOIL 5/7/2007 6/24/2007	MW-19(9-11) Y2633-01 9-11' Chemtech Y2633 SOIL 5/7/2007 6/24/2007	MW-19(13-15) Y2633-04 13-15' Chemtech Y2633 SOIL 5/7/2007 6/24/2007
CAS NO.	COMPOUND			UNITS:						
	VOLATILES									
67-64-1	Acetone	0.05	500	mg/Kg	0.065 J	ND	ND	ND	ND	ND
71-43-2	Benzene	0.06	44	mg/Kg	0.0074 J	ND	ND	ND	12	2 J
75-27-4	Bromodichloromethane	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
78-93-3	2-Butanone	0.12	500	mg/Kg	ND	ND	ND	ND	ND	ND
75-65-0	tert-Butyl Alcohol	--	--	mg/Kg	NA	R	NA	NA	NA	NA
104-51-8	n-Butylbenzene	12	500	mg/Kg	NA	0.0044	NA	NA	NA	NA
135-98-8	sec-Butylbenzene	11	500	mg/Kg	NA	0.0017	NA	NA	NA	NA
98-06-6	tert-Butylbenzene	5.9	500	mg/Kg	NA	ND	NA	NA	NA	NA
75-15-0	Carbon Disulfide	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
110-82-7	Cyclohexane	--	--	mg/Kg	0.011 J	NA	ND	ND	ND	ND
124-48-1	Dibromochloromethane	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
75-35-4	1,1-Dichloroethene	0.33	500	mg/Kg	ND	ND	ND	ND	ND	ND
107-06-2	1,2-Dichloroethane	0.02	30	mg/Kg	ND	ND	ND	ND	ND	ND
10061-01-5	cis-1,3-Dichloropropene	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
100-41-4	Ethyl Benzene	1	390	mg/Kg	0.019 J	ND	ND	ND	46	3.7 J
591-78-6	2-Hexanone	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
98-82-8	Isopropylbenzene	--	--	mg/Kg	ND	0.0012	ND	ND	1.8	0.2
108-10-1	4-Methyl-2-Pentanone	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
1634-04-4	Methyl tert-butyl Ether	0.93	500	mg/Kg	ND	ND	ND	ND	ND	ND
108-87-2	Methylcyclohexane	--	--	mg/Kg	0.063	NA	ND	ND	ND	ND
75-09-2	Methylene Chloride	0.05	500	mg/Kg	ND	0.016 J	ND	ND	ND	ND
91-20-3	Naphthalene	12	500	mg/Kg	NA	0.0067	NA	NA	NA	NA
100-42-5	Styrene	--	--	mg/Kg	ND	ND	ND	ND	0.25 J	0.094
79-00-5	1,1,2-Trichloroethane	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
79-34-5	1,1,2,2-Tetrachloroethane	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
127-18-4	Tetrachloroethene	1.3	150	mg/Kg	ND	ND	ND	ND	ND	ND
108-88-3	Toluene	0.7	500	mg/Kg	ND	ND	ND	ND	2.1	2.1 J
95-63-6	1,2,4-Trimethylbenzene	3.6	190	mg/Kg	NA	0.015	NA	NA	NA	NA
108-67-8	1,3,5-Trimethylbenzene	8.4	190	mg/Kg	NA	0.0054	NA	NA	NA	NA
136777-61-2	m/p-Xylenes	0.26	500	mg/Kg	0.0073 J	ND	ND	ND	51	4.6 J
1330-20-7	o-Xylene	0.26		mg/Kg	0.0088 J	ND	ND	ND	22	2 J
	Total VOCs				**0.1815**	**0.0504**	**ND**	**ND**	**135.15**	**14.694**

Notes:
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Detected Compound Summary

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CAS NO.	COMPOUND			UNITS:						
	SEMIVOLATILES									
98-86-2	Acetophenone	--	--	mg/Kg	NA	NA	ND	ND	ND	ND
92-52-4	1,1-Biphenyl	--	--	mg/Kg	NA	NA	ND	ND	0.43	0.083 J
117-81-7	Bis(2-ethylhexyl)phthalate	--	--	mg/Kg	NA	ND	ND	ND	ND	ND
86-74-8	Carbazole	--	--	mg/Kg	NA	ND	ND	ND	0.14 J	ND
132-64-9	Dibenzofuran	7	350	mg/Kg	NA	ND	ND	ND	0.26 J	ND
105-67-9	2,4-Dimethylphenol	--	--	mg/Kg	NA	ND	ND	ND	ND	ND
84-74-2	Di-n-butylphthalate	--	--	mg/Kg	NA	ND	ND	ND	ND	0.064 J
117-84-0	Di-n-octyl phthalate	--	--	mg/Kg	NA	ND	ND	ND	ND	ND
106-44-5	3+4-Methylphenols	0.33	500	mg/Kg	NA	NA	ND	ND	ND	ND
86-30-6	N-Nitrosodiphenylamine	--	--	mg/Kg	NA	ND	ND	ND	ND	ND
108-95-2	Phenol	0.33	500	mg/Kg	NA	ND	ND	ND	ND	ND
	PAHs									
83-32-9	Acenaphthene	20	500	mg/Kg	NA	ND	ND	ND	0.76	0.18 J
208-96-8	Acenaphthylene	100	500	mg/Kg	NA	ND	ND	ND	0.66	0.12 J
120-12-7	Anthracene	100	500	mg/Kg	NA	0.029	ND	ND	1.1	0.25 J
120-12-7	Benzo(a)anthracene	1	5.6	mg/Kg	NA	0.014	ND	ND	1.3	0.25 J
50-32-8	Benzo(a)pyrene	1	1	mg/Kg	NA	ND	ND	ND	0.95	0.19 J
205-99-2	Benzo(b)fluoranthene	1	5.6	mg/Kg	NA	ND	ND	ND	0.76	0.16 J
191-24-2	Benzo(g,h,i)perylene	100	500	mg/Kg	NA	ND	ND	ND	0.27 J	ND
207-08-9	Benzo(k)fluoranthene	0.8	56	mg/Kg	NA	ND	ND	ND	0.25 J	ND
218-01-9	Chrysene	1	56	mg/Kg	NA	0.026	ND	ND	1.1	0.24 J
53-70-3	Dibenz(a,h)anthracene	0.33	0.56	mg/Kg	NA	ND	ND	ND	ND	ND
206-44-0	Fluoranthene	100	500	mg/Kg	NA	0.035	ND	0.11 J	2.6	0.59
86-73-7	Fluorene	30	500	mg/Kg	NA	0.064	ND	ND	2.9	0.66
193-39-5	Indeno(1,2,3-cd)pyrene	0.5	5.6	mg/Kg	NA	ND	ND	ND	0.2 J	ND
91-57-6	2-Methylnaphthalene	--	--	mg/Kg	NA	0.36	ND	ND	1.7	0.46
91-20-3	Naphthalene	12	500	mg/Kg	NA	0.033	ND	ND	5.6 J	1.4
85-01-8	Phenanthrene	100	500	mg/Kg	NA	0.18	ND	0.21 J	9.6 J	1.7
129-00-0	Pyrene	100	500	mg/Kg	NA	0.051	ND	0.13 J	3.9 J	0.81
	Total PAHs	**--**	**--**	**mg/Kg**		**0.792**	**ND**	**0.45**	**33.65**	**7.01**
	Total SVOCs	**--**	**--**	**mg/Kg**		**0.792**	**ND**	**0.45**	**34.48**	**7.157**

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CAS NO.	COMPOUND			UNITS:						
	INORGANICS									
7429-90-5	Aluminum	--	--	mg/Kg	NA	3200	28900	10400	6690	4000
7440-36-0	Antimony	--	--	mg/Kg	NA	ND	15.8 J	ND	ND	ND
7440-38-2	Arsenic	13	16	mg/Kg	NA	ND	ND	0.735 J	1.21	1.24
7440-39-3	Barium	350	400	mg/Kg	NA	28	375 J	130 J	46.5 J	36.4 J
7440-41-7	Beryllium	7.2	590	mg/Kg	NA	ND	0.315 J	0.234 J	0.346	0.372
7440-43-9	Cadmium	2.5	9.3	mg/Kg	NA	ND	0.475 J	ND	ND	ND
7440-70-2	Calcium	--	--	mg/Kg	NA	7300 J	4210	2860	4100	4840
7440-47-3	Chromium	--	--	mg/Kg	NA	13	75.4 J	26.5 J	13.5 J	10.8 J
7440-48-4	Cobalt	--	--	mg/Kg	NA	2.8	30.5 J	10.3 J	5.29	4.23
7440-50-8	Copper	50	270	mg/Kg	NA	7	55.1	27.1	14	9.48
7439-89-6	Iron	--	--	mg/Kg	NA	9900 J	49200	21500	12400	8070
7439-92-1	Lead	63	1,000	mg/Kg	NA	7.6	6.63	14.8	14	5.4
7439-95-4	Magnesium	--	--	mg/Kg	NA	6800 J	14800 J	4840 J	2780	2330
7439-96-5	Manganese	1,600	10,000	mg/Kg	NA	160 J	298	202	224	604
7439-97-6	Mercury	0.18	2.8	mg/Kg	NA	ND	0.054	0.044	0.016	0.014
7440-02-0	Nickel	30	310	mg/Kg	NA	5.4 J	35	13.2	10.4	9.61
7440-09-7	Potassium	--	--	mg/Kg	NA	740 J	13500 J	3790 J	1100	987
7782-49-2	Selenium	3.9	1,500	mg/Kg	NA	ND	ND	0.198 J	ND	ND
7440-22-4	Silver	2	1,500	mg/Kg	NA	ND	ND	ND	ND	ND
7440-23-5	Sodium	--	--	mg/Kg	NA	160	1320 J	371 J	394 J	351 J
7440-28-0	Thallium	--	--	mg/Kg	NA	ND	ND	ND	ND	ND
7440-62-2	Vanadium	--	--	mg/Kg	NA	15 J	166 J	55.8 J	18.9	20.7
7440-66-6	Zinc	109	10,000	mg/Kg	NA	11 J	103	57.1	33.1	ND
57-12-5	Cyanide	27	27	mg/Kg	NA	ND	ND	ND	ND	ND

Notes:
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Table 3
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West 45th Street Operable Unit 1 - Validated Subsurface Soil Analytical Data
Detected Compound Summary

Consolidated Edison W 45th Street Validated Soil Analytical Data Detected Compound Summary		6 NYCRR Part 375 Unrestricted Use Soil Cleanup Objectives 12/14/2006	6 NYCRR Part 375 Restricted Soil Cleanup Objectives Commercial Use 12/14/2006	Sample ID: Lab Sample Id: Depth: Source: SDG: Matrix: Sampled: Validated:	MW-20(15-17) Y2633-11 15-17' Chemtech Y2633 SOIL 5/8/2007 6/24/2007	MW-20(21-23) Y2633-12 21-23' Chemtech Y2633 SOIL 5/8/2007 6/24/2007	MW-20(23-25) Y2633-13 23-25' Chemtech Y2633 SOIL 5/8/2007 6/24/2007	MW-55(7-9) Y2518-02 7-9' Chemtech Y2518 SOIL 4/27/2007 6/21/2007	MW-55(11-15) Y2518-03 11-15' Chemtech Y2518 SOIL 4/27/2007 6/21/2007	SB-26(5-7) X1835-03 5-7' Chemtech X1835 SOIL 3/6/2006 5/15/2006
CAS NO.	COMPOUND			UNITS:						
	VOLATILES									
67-64-1	Acetone	0.05	500	mg/Kg	ND	ND	ND	ND	0.035 J	ND
71-43-2	Benzene	0.06	44	mg/Kg	0.016 J	0.98	0.23	ND	ND	ND
75-27-4	Bromodichloromethane	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
78-93-3	2-Butanone	0.12	500	mg/Kg	ND	ND	ND	ND	ND	0.02 J
75-65-0	tert-Butyl Alcohol	--	--	mg/Kg	NA	NA	NA	NA	NA	NA
104-51-8	n-Butylbenzene	12	500	mg/Kg	NA	NA	NA	NA	NA	NA
135-98-8	sec-Butylbenzene	11	500	mg/Kg	NA	NA	NA	NA	NA	NA
98-06-6	tert-Butylbenzene	5.9	500	mg/Kg	NA	NA	NA	NA	NA	NA
75-15-0	Carbon Disulfide	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
110-82-7	Cyclohexane	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
124-48-1	Dibromochloromethane	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
75-35-4	1,1-Dichloroethene	0.33	500	mg/Kg	ND	ND	ND	ND	ND	ND
107-06-2	1,2-Dichloroethane	0.02	30	mg/Kg	ND	ND	ND	ND	ND	ND
10061-01-5	cis-1,3-Dichloropropene	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
100-41-4	Ethyl Benzene	1	390	mg/Kg	0.08	0.15	0.77 J	ND	ND	ND
591-78-6	2-Hexanone	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
98-82-8	Isopropylbenzene	--	--	mg/Kg	0.016 J	0.0058 J	0.11	ND	ND	ND
108-10-1	4-Methyl-2-Pentanone	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
1634-04-4	Methyl tert-butyl Ether	0.93	500	mg/Kg	ND	ND	ND	ND	ND	ND
108-87-2	Methylcyclohexane	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
75-09-2	Methylene Chloride	0.05	500	mg/Kg	ND	ND	ND	ND	ND	ND
91-20-3	Naphthalene	12	500	mg/Kg	NA	NA	NA	NA	NA	NA
100-42-5	Styrene	--	--	mg/Kg	ND	0.0042 J	ND	ND	ND	ND
79-00-5	1,1,2-Trichloroethane	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
79-34-5	1,1,2,2-Tetrachloroethane	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
127-18-4	Tetrachloroethene	1.3	150	mg/Kg	ND	ND	ND	ND	ND	ND
108-88-3	Toluene	0.7	500	mg/Kg	ND	0.53	0.13	ND	ND	ND
95-63-6	1,2,4-Trimethylbenzene	3.6	190	mg/Kg	NA	NA	NA	NA	NA	NA
108-67-8	1,3,5-Trimethylbenzene	8.4	190	mg/Kg	NA	NA	NA	NA	NA	NA
136777-61-2	m/p-Xylenes	0.26	500	mg/Kg	0.027 J	0.24	0.62	ND	ND	ND
1330-20-7	o-Xylene	0.26		mg/Kg	0.033	0.13	0.36	ND	ND	ND
	Total VOCs				**0.172**	**2.04**	**2.22**	**ND**	**0.035**	**0.02**

Notes:
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Consolidated Edison W 45th Street Validated Soil Analytical Data Detected Compound Summary		6 NYCRR Part 375 Unrestricted Use Soil Cleanup Objectives 12/14/2006	6 NYCRR Part 375 Restricted Soil Cleanup Objectives Commercial Use 12/14/2006	Sample ID: Lab Sample Id: Depth: Source: SDG: Matrix: Sampled: Validated:	MW-20(15-17) Y2633-11 15-17' Chemtech Y2633 SOIL 5/8/2007 6/24/2007	MW-20(21-23) Y2633-12 21-23' Chemtech Y2633 SOIL 5/8/2007 6/24/2007	MW-20(23-25) Y2633-13 23-25' Chemtech Y2633 SOIL 5/8/2007 6/24/2007	MW-55(7-9) Y2518-02 7-9' Chemtech Y2518 SOIL 4/27/2007 6/21/2007	MW-55(11-15) Y2518-03 11-15' Chemtech Y2518 SOIL 4/27/2007 6/21/2007	SB-26(5-7) X1835-03 5-7' Chemtech X1835 SOIL 3/6/2006 5/15/2006
CAS NO.	COMPOUND			UNITS:						
	SEMIVOLATILES									
98-86-2	Acetophenone	--	--	mg/Kg	ND	ND	ND	ND	NA	ND
92-52-4	1,1-Biphenyl	--	--	mg/Kg	0.94	6.1	0.17 J	ND	NA	ND
117-81-7	Bis(2-ethylhexyl)phthalate	--	--	mg/Kg	0.34 J	0.11 J	ND	0.22 J	NA	ND
86-74-8	Carbazole	--	--	mg/Kg	ND	0.3 J	ND	ND	NA	ND
132-64-9	Dibenzofuran	7	350	mg/Kg	0.17 J	0.92	ND	ND	NA	ND
105-67-9	2,4-Dimethylphenol	--	--	mg/Kg	ND	ND	ND	ND	NA	ND
84-74-2	Di-n-butylphthalate	--	--	mg/Kg	ND	ND	0.076 J	ND	NA	ND
117-84-0	Di-n-octyl phthalate	--	--	mg/Kg	ND	ND	ND	ND	NA	ND
106-44-5	3+4-Methylphenols	0.33	500	mg/Kg	ND	ND	ND	ND	NA	ND
86-30-6	N-Nitrosodiphenylamine	--	--	mg/Kg	ND	ND	ND	ND	NA	ND
108-95-2	Phenol	0.33	500	mg/Kg	ND	ND	ND	ND	NA	ND
	PAHs									
83-32-9	Acenaphthene	20	500	mg/Kg	1.1	16	0.53	ND	NA	ND
208-96-8	Acenaphthylene	100	500	mg/Kg	1.6	7.7	0.19 J	0.11 J	NA	ND
120-12-7	Anthracene	100	500	mg/Kg	1.4	9.2	0.29 J	0.13 J	NA	ND
120-12-7	Benzo(a)anthracene	1	5.6	mg/Kg	1.3	**8.2**	0.22 J	0.59	NA	0.098 J
50-32-8	Benzo(a)pyrene	1	1	mg/Kg	0.96	**5.6 J**	0.15 J	0.56	NA	0.074 J
205-99-2	Benzo(b)fluoranthene	1	5.6	mg/Kg	0.62	4.1 J	0.093 J	0.68	NA	0.094 J
191-24-2	Benzo(g,h,i)perylene	100	500	mg/Kg	0.44 J	1.8 J	ND	0.22 J	NA	ND
207-08-9	Benzo(k)fluoranthene	0.8	56	mg/Kg	0.24 J	1.5 J	ND	0.21 J	NA	R
218-01-9	Chrysene	1	56	mg/Kg	1.2	7.2	0.21 J	0.63	NA	0.11 J
53-70-3	Dibenz(a,h)anthracene	0.33	0.56	mg/Kg	ND	0.26 J	ND	ND	NA	ND
206-44-0	Fluoranthene	100	500	mg/Kg	1.8	10	0.34 J	1	NA	0.16 J
86-73-7	Fluorene	30	500	mg/Kg	1.8	13	0.37 J	ND	NA	ND
193-39-5	Indeno(1,2,3-cd)pyrene	0.5	5.6	mg/Kg	0.34 J	1.2 J	ND	0.19 J	NA	ND
91-57-6	2-Methylnaphthalene	--	--	mg/Kg	7.4 J	65	1.3	ND	NA	ND
91-20-3	Naphthalene	12	500	mg/Kg	16 J	110	2.6	ND	NA	ND
85-01-8	Phenanthrene	100	500	mg/Kg	6.5 J	30	0.95	0.45	NA	0.1 J
129-00-0	Pyrene	100	500	mg/Kg	2.5	18	0.46	1.1	NA	0.22 J
	Total PAHs	**--**	**--**	**mg/Kg**	**45.2**	**308.76**	**7.703**	**5.87**		**0.856**
	Total SVOCs	**--**	**--**	**mg/Kg**	**46.65**	**316.19**	**7.949**	**6.09**		**0.856**

Notes:
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CAS NO.	COMPOUND			UNITS:						
	INORGANICS									
7429-90-5	Aluminum	--	--	mg/Kg	9790	4060	4360	25100	NA	7620
7440-36-0	Antimony	--	--	mg/Kg	ND	ND	ND	ND	NA	ND
7440-38-2	Arsenic	13	16	mg/Kg	1.71	ND	ND	**32.7**	NA	3.65
7440-39-3	Barium	350	400	mg/Kg	82.8 J	65 J	58 J	**544 J**	NA	68 J
7440-41-7	Beryllium	7.2	590	mg/Kg	0.552	0.268 J	0.216 J	0.932 J	NA	0.458 J
7440-43-9	Cadmium	2.5	9.3	mg/Kg	ND	ND	ND	3.97	NA	ND
7440-70-2	Calcium	--	--	mg/Kg	1180	815	772	2450 J	NA	1760
7440-47-3	Chromium	--	--	mg/Kg	19.7 J	10.7 J	9.11 J	71.2 J	NA	17.4
7440-48-4	Cobalt	--	--	mg/Kg	7.61	4.66	3.93	30.8 J	NA	8.88
7440-50-8	Copper	50	270	mg/Kg	16.7	9.81	7.59	72	NA	21.5
7439-89-6	Iron	--	--	mg/Kg	17700	9970	8230	52700 J	NA	18000
7439-92-1	Lead	63	1,000	mg/Kg	7.24	3.17	3.79	223 J	NA	11.3
7439-95-4	Magnesium	--	--	mg/Kg	3310	1670	1600	15000	NA	2900
7439-96-5	Manganese	1,600	10,000	mg/Kg	446	419	332	508 J	NA	137
7439-97-6	Mercury	0.18	2.8	mg/Kg	0.014	ND	0.013	0.55 J	NA	0.042
7440-02-0	Nickel	30	310	mg/Kg	16.7	12.1	8.77	27	NA	16.3
7440-09-7	Potassium	--	--	mg/Kg	2190	785	881	2020 J	NA	1220
7782-49-2	Selenium	3.9	1,500	mg/Kg	ND	ND	ND	ND	NA	ND
7440-22-4	Silver	2	1,500	mg/Kg	ND	ND	ND	0.8 J	NA	R
7440-23-5	Sodium	--	--	mg/Kg	412 J	312 J	322 J	614	NA	433 J
7440-28-0	Thallium	--	--	mg/Kg	ND	ND	ND	ND	NA	ND
7440-62-2	Vanadium	--	--	mg/Kg	27	18.1	13.1	138	NA	21.1 J
7440-66-6	Zinc	109	10,000	mg/Kg	39.4	ND	ND	476 J	NA	46
57-12-5	Cyanide	27	27	mg/Kg	ND	ND	ND	ND	NA	ND

Notes:
(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Programs (December 2006)
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CAS NO.	COMPOUND			UNITS:						
	VOLATILES									
67-64-1	Acetone	0.05	500	mg/Kg	ND	ND	ND	ND	ND	ND
71-43-2	Benzene	0.06	44	mg/Kg	ND	ND	ND	0.19	ND	ND
75-27-4	Bromodichloromethane	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
78-93-3	2-Butanone	0.12	500	mg/Kg	ND	ND	ND	ND	ND	ND
75-65-0	tert-Butyl Alcohol	--	--	mg/Kg	NA	NA	NA	NA	NA	NA
104-51-8	n-Butylbenzene	12	500	mg/Kg	NA	NA	NA	NA	NA	NA
135-98-8	sec-Butylbenzene	11	500	mg/Kg	NA	NA	NA	NA	NA	NA
98-06-6	tert-Butylbenzene	5.9	500	mg/Kg	NA	NA	NA	NA	NA	NA
75-15-0	Carbon Disulfide	--	--	mg/Kg	ND	ND	ND	0.0032 J	ND	ND
110-82-7	Cyclohexane	--	--	mg/Kg	ND	ND	ND	0.0033 J	ND	ND
124-48-1	Dibromochloromethane	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
75-35-4	1,1-Dichloroethene	0.33	500	mg/Kg	ND	ND	ND	ND	ND	ND
107-06-2	1,2-Dichloroethane	0.02	30	mg/Kg	ND	ND	ND	ND	ND	ND
10061-01-5	cis-1,3-Dichloropropene	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
100-41-4	Ethyl Benzene	1	390	mg/Kg	ND	ND	ND	0.016	ND	0.007 J
591-78-6	2-Hexanone	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
98-82-8	Isopropylbenzene	--	--	mg/Kg	ND	ND	0.00064 J	0.011	ND	ND
108-10-1	4-Methyl-2-Pentanone	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
1634-04-4	Methyl tert-butyl Ether	0.93	500	mg/Kg	ND	ND	ND	ND	ND	ND
108-87-2	Methylcyclohexane	--	--	mg/Kg	ND	ND	ND	0.011	ND	ND
75-09-2	Methylene Chloride	0.05	500	mg/Kg	ND	ND	0.0024 J	ND	ND	0.01 J
91-20-3	Naphthalene	12	500	mg/Kg	NA	NA	NA	NA	NA	NA
100-42-5	Styrene	--	--	mg/Kg	ND	ND	ND	0.011	ND	ND
79-00-5	1,1,2-Trichloroethane	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
79-34-5	1,1,2,2-Tetrachloroethane	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
127-18-4	Tetrachloroethene	1.3	150	mg/Kg	ND	ND	ND	ND	ND	ND
108-88-3	Toluene	0.7	500	mg/Kg	ND	ND	ND	0.16	ND	ND
95-63-6	1,2,4-Trimethylbenzene	3.6	190	mg/Kg	NA	NA	NA	NA	NA	NA
108-67-8	1,3,5-Trimethylbenzene	8.4	190	mg/Kg	NA	NA	NA	NA	NA	NA
136777-61-2	m/p-Xylenes	0.26	500	mg/Kg	ND	ND	ND	0.06	ND	ND
1330-20-7	o-Xylene	0.26		mg/Kg	ND	ND	0.002 J	0.028	ND	0.0066 J
	Total VOCs				**ND**	**ND**	**0.00504**	**0.4935**	**ND**	**0.0236**

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CAS NO.	COMPOUND			UNITS:						
	SEMIVOLATILES									
98-86-2	Acetophenone	--	--	mg/Kg	NA	ND	NA	ND	ND	NA
92-52-4	1,1-Biphenyl	--	--	mg/Kg	NA	ND	NA	ND	ND	NA
117-81-7	Bis(2-ethylhexyl)phthalate	--	--	mg/Kg	NA	ND	NA	ND	ND	NA
86-74-8	Carbazole	--	--	mg/Kg	NA	ND	NA	ND	ND	NA
132-64-9	Dibenzofuran	7	350	mg/Kg	NA	ND	NA	ND	ND	NA
105-67-9	2,4-Dimethylphenol	--	--	mg/Kg	NA	ND	NA	ND	ND	NA
84-74-2	Di-n-butylphthalate	--	--	mg/Kg	NA	ND	NA	ND	ND	NA
117-84-0	Di-n-octyl phthalate	--	--	mg/Kg	NA	ND	NA	ND	ND	NA
106-44-5	3+4-Methylphenols	0.33	500	mg/Kg	NA	ND	NA	ND	ND	NA
86-30-6	N-Nitrosodiphenylamine	--	--	mg/Kg	NA	ND	NA	ND	ND	NA
108-95-2	Phenol	0.33	500	mg/Kg	NA	ND	NA	ND	ND	NA
	PAHs									
83-32-9	Acenaphthene	20	500	mg/Kg	NA	ND	NA	ND	ND	NA
208-96-8	Acenaphthylene	100	500	mg/Kg	NA	ND	NA	ND	ND	NA
120-12-7	Anthracene	100	500	mg/Kg	NA	ND	NA	ND	ND	NA
120-12-7	Benzo(a)anthracene	1	5.6	mg/Kg	NA	0.42 J	NA	ND	ND	NA
50-32-8	Benzo(a)pyrene	1	1	mg/Kg	NA	ND	NA	ND	ND	NA
205-99-2	Benzo(b)fluoranthene	1	5.6	mg/Kg	NA	0.49 J	NA	0.06 J	ND	NA
191-24-2	Benzo(g,h,i)perylene	100	500	mg/Kg	NA	ND	NA	ND	ND	NA
207-08-9	Benzo(k)fluoranthene	0.8	56	mg/Kg	NA	ND	NA	ND	ND	NA
218-01-9	Chrysene	1	56	mg/Kg	NA	ND	NA	ND	ND	NA
53-70-3	Dibenz(a,h)anthracene	0.33	0.56	mg/Kg	NA	ND	NA	ND	ND	NA
206-44-0	Fluoranthene	100	500	mg/Kg	NA	1 J	NA	0.092 J	ND	NA
86-73-7	Fluorene	30	500	mg/Kg	NA	ND	NA	ND	ND	NA
193-39-5	Indeno(1,2,3-cd)pyrene	0.5	5.6	mg/Kg	NA	ND	NA	ND	ND	NA
91-57-6	2-Methylnaphthalene	--	--	mg/Kg	NA	ND	NA	0.4 J	ND	NA
91-20-3	Naphthalene	12	500	mg/Kg	NA	ND	NA	0.34 J	ND	NA
85-01-8	Phenanthrene	100	500	mg/Kg	NA	0.75 J	NA	0.12 J	ND	NA
129-00-0	Pyrene	100	500	mg/Kg	NA	0.83 J	NA	0.1 J	ND	NA
	Total PAHs	**--**	**--**	**mg/Kg**		**3.49**		**1.112**	**ND**	
	Total SVOCs	**--**	**--**	**mg/Kg**		**3.49**		**1.112**	**ND**	

Notes:
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Table 3
Remedial Action Work Plan
West 45th Street Operable Unit 1 - Validated Subsurface Soil Analytical Data
Detected Compound Summary

Consolidated Edison W 45th Street Validated Soil Analytical Data Detected Compound Summary		6 NYCRR Part 375 Unrestricted Use Soil Cleanup Objectives 12/14/2006	6 NYCRR Part 375 Restricted Soil Cleanup Objectives Commercial Use 12/14/2006	Sample ID: Lab Sample Id: Depth: Source: SDG: Matrix: Sampled: Validated:	SB-27(9-11) X1591-06 9-11' Chemtech X1591 SOIL 2/15/2006 5/1/2006	SB-27(15-17) X1591-07 15-17' Chemtech X1591 SOIL 2/15/2006 5/1/2006	SB-29(7-9) X1591-02 7-9' Chemtech X1591 SOIL 2/14/2006 5/1/2006	SB-29(11-13) X1591-03 11-13' Chemtech X1591 SOIL 2/14/2006 5/1/2006	SB-29(13-15) X1591-04 13-15' Chemtech X1591 SOIL 2/14/2006 5/1/2006	SB-30(7-9) X1418-11 7-9' Chemtech X1418 SOIL 2/1/2006 6/14/2006
CAS NO.	COMPOUND			UNITS:						
	INORGANICS									
7429-90-5	Aluminum	--	--	mg/Kg	NA	13400 J	NA	9920 J	13700 J	NA
7440-36-0	Antimony	--	--	mg/Kg	NA	R	NA	R	14 J	NA
7440-38-2	Arsenic	13	16	mg/Kg	NA	1.05 J	NA	2.17	4.78	NA
7440-39-3	Barium	350	400	mg/Kg	NA	167 J	NA	224 J	**1050 J**	NA
7440-41-7	Beryllium	7.2	590	mg/Kg	NA	0.397 J	NA	0.394 J	0.192 J	NA
7440-43-9	Cadmium	2.5	9.3	mg/Kg	NA	ND	NA	ND	0.113 J	NA
7440-70-2	Calcium	--	--	mg/Kg	NA	11800 J	NA	12800 J	32400 J	NA
7440-47-3	Chromium	--	--	mg/Kg	NA	38.7 J	NA	15.7 J	41.7 J	NA
7440-48-4	Cobalt	--	--	mg/Kg	NA	16.3	NA	12.6	17.5	NA
7440-50-8	Copper	50	270	mg/Kg	NA	40.5 J	NA	40.5 J	50.5 J	NA
7439-89-6	Iron	--	--	mg/Kg	NA	22400 J	NA	13500 J	31800 J	NA
7439-92-1	Lead	63	1,000	mg/Kg	NA	38.9 J	NA	123 J	647 J	NA
7439-95-4	Magnesium	--	--	mg/Kg	NA	8240 J	NA	8560 J	7600 J	NA
7439-96-5	Manganese	1,600	10,000	mg/Kg	NA	163 J	NA	238 J	290 J	NA
7439-97-6	Mercury	0.18	2.8	mg/Kg	NA	0.115 J	NA	0.414 J	0.093 J	NA
7440-02-0	Nickel	30	310	mg/Kg	NA	30.3	NA	22.8	27	NA
7440-09-7	Potassium	--	--	mg/Kg	NA	8270 J	NA	5590 J	13400 J	NA
7782-49-2	Selenium	3.9	1,500	mg/Kg	NA	1.24 J	NA	1.07 J	2.79	NA
7440-22-4	Silver	2	1,500	mg/Kg	NA	ND	NA	ND	ND	NA
7440-23-5	Sodium	--	--	mg/Kg	NA	288 J	NA	294 J	1230 J	NA
7440-28-0	Thallium	--	--	mg/Kg	NA	0.829 J	NA	ND	ND	NA
7440-62-2	Vanadium	--	--	mg/Kg	NA	39 J	NA	19.7 J	100 J	NA
7440-66-6	Zinc	109	10,000	mg/Kg	NA	109 J	NA	90.8 J	504 J	NA
57-12-5	Cyanide	27	27	mg/Kg	NA	0.813	NA	6.77	ND	NA

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Detected Compound Summary

Consolidated Edison W 45th Street Validated Soil Analytical Data Detected Compound Summary		6 NYCRR Part 375 Unrestricted Use Soil Cleanup Objectives 12/14/2006	6 NYCRR Part 375 Restricted Soil Cleanup Objectives Commercial Use 12/14/2006	Sample ID: Lab Sample Id: Depth: Source: SDG: Matrix: Sampled: Validated:	SB-30(32-32.5) X1418-09 32-32.5' Chemtech X1418 SOIL 2/1/2006 6/14/2006	SB-30(32.5) X1418-10 32.5' Chemtech X1418 SOIL 2/1/2006 6/14/2006	SB-31(11-13) X1508-12 11-13' Chemtech X1508 SOIL 2/10/2006 6/14/2006	SB-31(15-17) X1508-13 15-17' Chemtech X1508 SOIL 2/10/2006 6/14/2006	SB-32(9-11) X1508-09 9-11' Chemtech X1508 SOIL 2/9/2006 6/14/2006	SB-32(11-13) X1508-10 11-13' Chemtech X1508 SOIL 2/9/2006 6/14/2006
CAS NO.	COMPOUND			UNITS:						
	VOLATILES									
67-64-1	Acetone	0.05	500	mg/Kg	ND	0.017 J	ND	ND	NA	ND
71-43-2	Benzene	0.06	44	mg/Kg	**650 J**	0.69 J	0.026 J	ND	NA	0.14 J
75-27-4	Bromodichloromethane	--	--	mg/Kg	1.7 J	ND	ND	ND	NA	ND
78-93-3	2-Butanone	0.12	500	mg/Kg	7 J	ND	ND	ND	NA	ND
75-65-0	tert-Butyl Alcohol	--	--	mg/Kg	NA	NA	NA	NA	NA	NA
104-51-8	n-Butylbenzene	12	500	mg/Kg	NA	NA	NA	NA	NA	NA
135-98-8	sec-Butylbenzene	11	500	mg/Kg	NA	NA	NA	NA	NA	NA
98-06-6	tert-Butylbenzene	5.9	500	mg/Kg	NA	NA	NA	NA	NA	NA
75-15-0	Carbon Disulfide	--	--	mg/Kg	ND	ND	ND	ND	NA	0.023 J
110-82-7	Cyclohexane	--	--	mg/Kg	12 J	ND	ND	ND	NA	ND
124-48-1	Dibromochloromethane	--	--	mg/Kg	2.8 J	ND	ND	ND	NA	ND
75-35-4	1,1-Dichloroethene	0.33	500	mg/Kg	1.8 J	ND	ND	ND	NA	ND
107-06-2	1,2-Dichloroethane	0.02	30	mg/Kg	18 J	ND	ND	ND	NA	ND
10061-01-5	cis-1,3-Dichloropropene	--	--	mg/Kg	27 J	ND	ND	ND	NA	ND
100-41-4	Ethyl Benzene	1	390	mg/Kg	**1200 J**	2.2 J	0.016 J	ND	NA	0.012 J
591-78-6	2-Hexanone	--	--	mg/Kg	45 J	ND	ND	ND	NA	ND
98-82-8	Isopropylbenzene	--	--	mg/Kg	100 J	ND	ND	ND	NA	ND
108-10-1	4-Methyl-2-Pentanone	--	--	mg/Kg	27 J	ND	ND	ND	NA	ND
1634-04-4	Methyl tert-butyl Ether	0.93	500	mg/Kg	ND	ND	ND	ND	NA	ND
108-87-2	Methylcyclohexane	--	--	mg/Kg	51 J	ND	ND	ND	NA	ND
75-09-2	Methylene Chloride	0.05	500	mg/Kg	ND	ND	ND	ND	NA	0.015 J
91-20-3	Naphthalene	12	500	mg/Kg	NA	NA	NA	NA	NA	NA
100-42-5	Styrene	--	--	mg/Kg	190 J	0.93 J	ND	ND	NA	ND
79-00-5	1,1,2-Trichloroethane	--	--	mg/Kg	4.4 J	ND	ND	ND	NA	ND
79-34-5	1,1,2,2-Tetrachloroethane	--	--	mg/Kg	53 J	ND	ND	ND	NA	ND
127-18-4	Tetrachloroethene	1.3	150	mg/Kg	ND	ND	ND	ND	NA	ND
108-88-3	Toluene	0.7	500	mg/Kg	**1400 J**	2.5 J	0.034	ND	NA	0.034 J
95-63-6	1,2,4-Trimethylbenzene	3.6	190	mg/Kg	NA	NA	NA	NA	NA	NA
108-67-8	1,3,5-Trimethylbenzene	8.4	190	mg/Kg	NA	NA	NA	NA	NA	NA
136777-61-2	m/p-Xylenes	0.26	500	mg/Kg	**1400 J**	4.6 J	0.03 J	ND	NA	0.02 J
1330-20-7	o-Xylene	0.26		mg/Kg	**580 J**	3.9 J	0.013 J	ND	NA	0.0087 J
	Total VOCs				**5770.7**	**14.837**	**0.119**	**ND**		**0.2527**

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Detected Compound Summary

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CAS NO.	COMPOUND			UNITS:						
	SEMIVOLATILES									
98-86-2	Acetophenone	--	--	mg/Kg	ND	NA	NA	NA	ND	NA
92-52-4	1,1-Biphenyl	--	--	mg/Kg	23	NA	NA	NA	0.17 J	NA
117-81-7	Bis(2-ethylhexyl)phthalate	--	--	mg/Kg	ND	NA	NA	NA	ND	NA
86-74-8	Carbazole	--	--	mg/Kg	ND	NA	NA	NA	ND	NA
132-64-9	Dibenzofuran	7	350	mg/Kg	ND	NA	NA	NA	ND	NA
105-67-9	2,4-Dimethylphenol	--	--	mg/Kg	ND	NA	NA	NA	ND	NA
84-74-2	Di-n-butylphthalate	--	--	mg/Kg	ND	NA	NA	NA	ND	NA
117-84-0	Di-n-octyl phthalate	--	--	mg/Kg	ND	NA	NA	NA	ND	NA
106-44-5	3+4-Methylphenols	0.33	500	mg/Kg	ND	NA	NA	NA	ND	NA
86-30-6	N-Nitrosodiphenylamine	--	--	mg/Kg	ND	NA	NA	NA	ND	NA
108-95-2	Phenol	0.33	500	mg/Kg	ND	NA	NA	NA	ND	NA
	PAHs									
83-32-9	Acenaphthene	20	500	mg/Kg	4.2 J	NA	NA	NA	ND	NA
208-96-8	Acenaphthylene	100	500	mg/Kg	5.9 J	NA	NA	NA	ND	NA
120-12-7	Anthracene	100	500	mg/Kg	3.7 J	NA	NA	NA	ND	NA
120-12-7	Benzo(a)anthracene	1	5.6	mg/Kg	**6 J**	NA	NA	NA	ND	NA
50-32-8	Benzo(a)pyrene	1	1	mg/Kg	**2.6 J**	NA	NA	NA	ND	NA
205-99-2	Benzo(b)fluoranthene	1	5.6	mg/Kg	3.5 J	NA	NA	NA	ND	NA
191-24-2	Benzo(g,h,i)perylene	100	500	mg/Kg	ND	NA	NA	NA	ND	NA
207-08-9	Benzo(k)fluoranthene	0.8	56	mg/Kg	ND	NA	NA	NA	ND	NA
218-01-9	Chrysene	1	56	mg/Kg	8.6 J	NA	NA	NA	ND	NA
53-70-3	Dibenz(a,h)anthracene	0.33	0.56	mg/Kg	ND	NA	NA	NA	ND	NA
206-44-0	Fluoranthene	100	500	mg/Kg	12 J	NA	NA	NA	0.12 J	NA
86-73-7	Fluorene	30	500	mg/Kg	8.5 J	NA	NA	NA	0.16 J	NA
193-39-5	Indeno(1,2,3-cd)pyrene	0.5	5.6	mg/Kg	ND	NA	NA	NA	ND	NA
91-57-6	2-Methylnaphthalene	--	--	mg/Kg	230	NA	NA	NA	1.3	NA
91-20-3	Naphthalene	12	500	mg/Kg	**1600**	NA	NA	NA	0.49	NA
85-01-8	Phenanthrene	100	500	mg/Kg	35	NA	NA	NA	0.35 J	NA
129-00-0	Pyrene	100	500	mg/Kg	18	NA	NA	NA	0.13 J	NA
	Total PAHs	**--**	**--**	**mg/Kg**	**1938**				**2.55**	
	Total SVOCs	**--**	**--**	**mg/Kg**	**1961**				**2.72**	

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Detected Compound Summary

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CAS NO.	COMPOUND			UNITS:						
	INORGANICS									
7429-90-5	Aluminum	--	--	mg/Kg	3810 J	NA	5620 J	NA	5140 J	NA
7440-36-0	Antimony	--	--	mg/Kg	14.8 J	NA	ND	NA	16.6 J	NA
7440-38-2	Arsenic	13	16	mg/Kg	**41.2**	NA	2.68	NA	3.31	NA
7440-39-3	Barium	350	400	mg/Kg	**1780**	NA	64.3	NA	46.5	NA
7440-41-7	Beryllium	7.2	590	mg/Kg	0.413 J	NA	0.39 J	NA	0.29 J	NA
7440-43-9	Cadmium	2.5	9.3	mg/Kg	3.36	NA	0.117 J	NA	0.137 J	NA
7440-70-2	Calcium	--	--	mg/Kg	9490 J	NA	29500 J	NA	14400 J	NA
7440-47-3	Chromium	--	--	mg/Kg	15.8 J	NA	11.4	NA	6.81	NA
7440-48-4	Cobalt	--	--	mg/Kg	10.6 J	NA	3.48 J	NA	3.42 J	NA
7440-50-8	Copper	50	270	mg/Kg	**430 J**	NA	14.2	NA	11.7	NA
7439-89-6	Iron	--	--	mg/Kg	48500 J	NA	6590 J	NA	14200 J	NA
7439-92-1	Lead	63	1,000	mg/Kg	**7490 J**	NA	95.3	NA	23.2	NA
7439-95-4	Magnesium	--	--	mg/Kg	2400 J	NA	23100 J	NA	8820 J	NA
7439-96-5	Manganese	1,600	10,000	mg/Kg	173	NA	628 J	NA	251 J	NA
7439-97-6	Mercury	0.18	2.8	mg/Kg	0.828	NA	0.089	NA	0.308	NA
7440-02-0	Nickel	30	310	mg/Kg	11.3 J	NA	7.03	NA	4.22 J	NA
7440-09-7	Potassium	--	--	mg/Kg	1800	NA	1560 J	NA	1250 J	NA
7782-49-2	Selenium	3.9	1,500	mg/Kg	5.91	NA	0.512 J	NA	0.698 J	NA
7440-22-4	Silver	2	1,500	mg/Kg	ND	NA	0.64 J	NA	1.94	NA
7440-23-5	Sodium	--	--	mg/Kg	283 J	NA	434 J	NA	763	NA
7440-28-0	Thallium	--	--	mg/Kg	ND	NA	ND	NA	ND	NA
7440-62-2	Vanadium	--	--	mg/Kg	17.6	NA	9.87 J	NA	8.76 J	NA
7440-66-6	Zinc	109	10,000	mg/Kg	1090	NA	31.7 J	NA	30 J	NA
57-12-5	Cyanide	27	27	mg/Kg	**213.52**	NA		NA	17 J	NA

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CAS NO.	COMPOUND			UNITS:						
	VOLATILES									
67-64-1	Acetone	0.05	500	mg/Kg	4.2 J	ND	0.65 J	0.04 J	ND	ND
71-43-2	Benzene	0.06	44	mg/Kg	22 J	ND	13 J	0.012 J	4.5	0.0037 J
75-27-4	Bromodichloromethane	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
78-93-3	2-Butanone	0.12	500	mg/Kg	0.79 J	ND	0.098 J	ND	ND	ND
75-65-0	tert-Butyl Alcohol	--	--	mg/Kg	NA	NA	NA	NA	NA	NA
104-51-8	n-Butylbenzene	12	500	mg/Kg	NA	NA	NA	NA	NA	NA
135-98-8	sec-Butylbenzene	11	500	mg/Kg	NA	NA	NA	NA	NA	NA
98-06-6	tert-Butylbenzene	5.9	500	mg/Kg	NA	NA	NA	NA	NA	NA
75-15-0	Carbon Disulfide	--	--	mg/Kg	ND	ND	0.021 J	ND	0.014 J	0.006 J
110-82-7	Cyclohexane	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
124-48-1	Dibromochloromethane	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
75-35-4	1,1-Dichloroethene	0.33	500	mg/Kg	ND	ND	ND	ND	ND	ND
107-06-2	1,2-Dichloroethane	0.02	30	mg/Kg	ND	ND	ND	ND	ND	ND
10061-01-5	cis-1,3-Dichloropropene	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
100-41-4	Ethyl Benzene	1	390	mg/Kg	49 J	ND	13 J	0.0085 J	18	ND
591-78-6	2-Hexanone	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
98-82-8	Isopropylbenzene	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
108-10-1	4-Methyl-2-Pentanone	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
1634-04-4	Methyl tert-butyl Ether	0.93	500	mg/Kg	ND	ND	ND	ND	ND	ND
108-87-2	Methylcyclohexane	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
75-09-2	Methylene Chloride	0.05	500	mg/Kg	ND	ND	ND	ND	ND	ND
91-20-3	Naphthalene	12	500	mg/Kg	NA	NA	NA	NA	NA	NA
100-42-5	Styrene	--	--	mg/Kg	0.023 J	ND	0.025 J	0.016 J	0.088 J	ND
79-00-5	1,1,2-Trichloroethane	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
79-34-5	1,1,2,2-Tetrachloroethane	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
127-18-4	Tetrachloroethene	1.3	150	mg/Kg	ND	0.033 J	ND	ND	ND	ND
108-88-3	Toluene	0.7	500	mg/Kg	8.1 J	ND	1.4 J	0.024 J	8.2	ND
95-63-6	1,2,4-Trimethylbenzene	3.6	190	mg/Kg	NA	NA	NA	NA	NA	NA
108-67-8	1,3,5-Trimethylbenzene	8.4	190	mg/Kg	NA	NA	NA	NA	NA	NA
136777-61-2	m/p-Xylenes	0.26	500	mg/Kg	47 J	ND	16 J	0.068	24	ND
1330-20-7	o-Xylene	0.26		mg/Kg	26 J	ND	8.1 J	0.074	11	ND
	Total VOCs				**157.113**	**0.033**	**52.294**	**0.2425**	**65.802**	**0.0097**

Notes:
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Consolidated Edison W 45th Street Validated Soil Analytical Data Detected Compound Summary		6 NYCRR Part 375 Unrestricted Use Soil Cleanup Objectives 12/14/2006	6 NYCRR Part 375 Restricted Soil Cleanup Objectives Commercial Use 12/14/2006	Sample ID: Lab Sample Id: Depth: Source: SDG: Matrix: Sampled: Validated:	SB-33(17-19) X1508-05 17-19' Chemtech X1508 SOIL 2/8/2006 6/14/2006	SB-33(27-28) X1508-06 27-28' Chemtech X1508 SOIL 2/8/2006 6/14/2006	Dup of SB-33(27-28) SB-33(DUP-1) X1508-07 27-28' Chemtech X1508 SOIL 2/8/2006 4/25/2006	SB-36A(5-5.5) X1996-11 5-5.5' Chemtech X1996 SOIL 3/18/2006 5/11/2006	SB-37(23-25) X1508-02 23-25' Chemtech X1508 SOIL 2/7/2006 6/14/2006	SB-37(32-34) X1508-03 32-34' Chemtech X1508 SOIL 2/7/2006 6/14/2006
CAS NO.	COMPOUND			UNITS:						
	SEMIVOLATILES									
98-86-2	Acetophenone	--	--	mg/Kg	ND	ND	ND	ND	NA	ND
92-52-4	1,1-Biphenyl	--	--	mg/Kg	1 J	ND	6.1 J	1.3 J	NA	ND
117-81-7	Bis(2-ethylhexyl)phthalate	--	--	mg/Kg	ND	ND	ND	ND	NA	ND
86-74-8	Carbazole	--	--	mg/Kg	ND	ND	0.75 J	0.32 J	NA	ND
132-64-9	Dibenzofuran	7	350	mg/Kg	ND	ND	1.3 J	1.3 J	NA	ND
105-67-9	2,4-Dimethylphenol	--	--	mg/Kg	1.3 J	ND	1.2 J	ND	NA	ND
84-74-2	Di-n-butylphthalate	--	--	mg/Kg	ND	ND	ND	ND	NA	ND
117-84-0	Di-n-octyl phthalate	--	--	mg/Kg	ND	ND	ND	ND	NA	ND
106-44-5	3+4-Methylphenols	0.33	500	mg/Kg	0.56 J	ND	0.59 J	ND	NA	ND
86-30-6	N-Nitrosodiphenylamine	--	--	mg/Kg	ND	ND	ND	1.2 J	NA	ND
108-95-2	Phenol	0.33	500	mg/Kg	ND	ND	0.36 J	ND	NA	ND
	PAHs									
83-32-9	Acenaphthene	20	500	mg/Kg	2.5 J	ND	14 J	2.9	NA	ND
208-96-8	Acenaphthylene	100	500	mg/Kg	1 J	ND	5.5 J	9.6	NA	ND
120-12-7	Anthracene	100	500	mg/Kg	1.6 J	ND	9.4 J	11	NA	ND
120-12-7	Benzo(a)anthracene	1	5.6	mg/Kg	1.6 J	ND	**9.8 J**	**20**	NA	ND
50-32-8	Benzo(a)pyrene	1	1	mg/Kg	**1.1 J**	ND	**5.5 J**	**11**	NA	ND
205-99-2	Benzo(b)fluoranthene	1	5.6	mg/Kg	0.83 J	ND	4.6 J	**11**	NA	ND
191-24-2	Benzo(g,h,i)perylene	100	500	mg/Kg	0.41 J	ND	1.2 J	2.7 J	NA	ND
207-08-9	Benzo(k)fluoranthene	0.8	56	mg/Kg	ND	ND	1.8 J	5.3 J	NA	ND
218-01-9	Chrysene	1	56	mg/Kg	1.8 J	ND	10 J	26	NA	ND
53-70-3	Dibenz(a,h)anthracene	0.33	0.56	mg/Kg	ND	ND	ND	0.49 J	NA	ND
206-44-0	Fluoranthene	100	500	mg/Kg	2 J	ND	11 J	20	NA	ND
86-73-7	Fluorene	30	500	mg/Kg	1.9 J	ND	11 J	10	NA	ND
193-39-5	Indeno(1,2,3-cd)pyrene	0.5	5.6	mg/Kg	0.42 J	ND	1.3 J	0.51 J	NA	ND
91-57-6	2-Methylnaphthalene	--	--	mg/Kg	12 J	0.97 J	59 J	11	NA	ND
91-20-3	Naphthalene	12	500	mg/Kg	26 J	3 J	86 J	6.2	NA	ND
85-01-8	Phenanthrene	100	500	mg/Kg	7 J	ND	32 J	50	NA	ND
129-00-0	Pyrene	100	500	mg/Kg	2.6 J	ND	15 J	36	NA	ND
	Total PAHs	**--**	**--**	**mg/Kg**	**62.76**	**3.97**	**277.1**	**233.7**		**ND**
	Total SVOCs	**--**	**--**	**mg/Kg**	**65.62**	**3.97**	**287.4**	**237.82**		**ND**

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CAS NO.	COMPOUND			UNITS:						
	INORGANICS									
7429-90-5	Aluminum	--	--	mg/Kg	49200 J	33200 J	55000 J	19900 J	NA	2200 J
7440-36-0	Antimony	--	--	mg/Kg	92.9 J	ND	21.2 J	25 J	NA	ND
7440-38-2	Arsenic	13	16	mg/Kg	10.9 J	3.32 J	**18.9 J**	**53.7**	NA	ND
7440-39-3	Barium	350	400	mg/Kg	234 J	**526 J**	**596 J**	322	NA	26.4
7440-41-7	Beryllium	7.2	590	mg/Kg	2.86 J	2.19 J	2.84 J	0.89	NA	0.295 J
7440-43-9	Cadmium	2.5	9.3	mg/Kg	ND	ND	0.308 J	ND	NA	0.049 J
7440-70-2	Calcium	--	--	mg/Kg	8420 J	11400 J	48100 J	6740 J	NA	7130 J
7440-47-3	Chromium	--	--	mg/Kg	68.1 J	84.8 J	98.7 J	52.1 J	NA	4.42
7440-48-4	Cobalt	--	--	mg/Kg	22.1 J	600 J	49.9 J	20.4 J	NA	1.8 J
7440-50-8	Copper	50	270	mg/Kg	56.4 J	98.6 J	97.2 J	55	NA	7.07
7439-89-6	Iron	--	--	mg/Kg	72000 J	54400 J	96500 J	47800 J	NA	3190 J
7439-92-1	Lead	63	1,000	mg/Kg	85.6 J	17 J	276 J	412 J	NA	16.3
7439-95-4	Magnesium	--	--	mg/Kg	12600 J	18700 J	36500 J	10500 J	NA	3670 J
7439-96-5	Manganese	1,600	10,000	mg/Kg	440 J	2490 J	1420 J	415	NA	141 J
7439-97-6	Mercury	0.18	2.8	mg/Kg	0.146 J	0.04 J	0.74 J	1.8	NA	0.085
7440-02-0	Nickel	30	310	mg/Kg	43 J	60.1 J	71.8 J	29.5	NA	0.595 J
7440-09-7	Potassium	--	--	mg/Kg	4620 J	14900 J	13600 J	12500 J	NA	1110 J
7782-49-2	Selenium	3.9	1,500	mg/Kg	6.74 J	21 J	7.22 J	82.3	NA	ND
7440-22-4	Silver	2	1,500	mg/Kg	5.82 J	4.37 J	8.49 J	2.1 J	NA	0.426 J
7440-23-5	Sodium	--	--	mg/Kg	1070 J	2710 J	1820 J	1020	NA	214 J
7440-28-0	Thallium	--	--	mg/Kg	ND	ND	ND	ND	NA	ND
7440-62-2	Vanadium	--	--	mg/Kg	94.7 J	111 J	133 J	83.7 J	NA	3.71 J
7440-66-6	Zinc	109	10,000	mg/Kg	178 J	136 J	274 J	293 J	NA	51.5 J
57-12-5	Cyanide	27	27	mg/Kg	ND	ND	ND	ND	NA	33 J

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CAS NO.	COMPOUND			UNITS:						
	VOLATILES									
67-64-1	Acetone	0.05	500	mg/Kg	R	ND	ND	ND	0.32 J	0.032 J
71-43-2	Benzene	0.06	44	mg/Kg	0.044 J	0.032 J	0.2 J	0.015 J	**330 J**	0.0044 J
75-27-4	Bromodichloromethane	--	--	mg/Kg	R	ND	ND	ND	ND	ND
78-93-3	2-Butanone	0.12	500	mg/Kg	R	ND	ND	ND	0.84 J	ND
75-65-0	tert-Butyl Alcohol	--	--	mg/Kg	NA	NA	NA	NA	NA	NA
104-51-8	n-Butylbenzene	12	500	mg/Kg	NA	NA	NA	NA	NA	NA
135-98-8	sec-Butylbenzene	11	500	mg/Kg	NA	NA	NA	NA	NA	NA
98-06-6	tert-Butylbenzene	5.9	500	mg/Kg	NA	NA	NA	NA	NA	NA
75-15-0	Carbon Disulfide	--	--	mg/Kg	0.0046 J	0.0064 J	0.008 J	ND	ND	ND
110-82-7	Cyclohexane	--	--	mg/Kg	R	ND	ND	ND	ND	ND
124-48-1	Dibromochloromethane	--	--	mg/Kg	R	ND	ND	ND	ND	ND
75-35-4	1,1-Dichloroethene	0.33	500	mg/Kg	R	ND	ND	ND	ND	ND
107-06-2	1,2-Dichloroethane	0.02	30	mg/Kg	R	ND	ND	ND	ND	ND
10061-01-5	cis-1,3-Dichloropropene	--	--	mg/Kg	R	ND	ND	ND	ND	ND
100-41-4	Ethyl Benzene	1	390	mg/Kg	0.047 J	0.02 J	0.055 J	0.031 J	**960 J**	0.084 J
591-78-6	2-Hexanone	--	--	mg/Kg	R	ND	ND	ND	ND	ND
98-82-8	Isopropylbenzene	--	--	mg/Kg	R	ND	ND	ND	ND	ND
108-10-1	4-Methyl-2-Pentanone	--	--	mg/Kg	R	ND	ND	ND	ND	ND
1634-04-4	Methyl tert-butyl Ether	0.93	500	mg/Kg	R	ND	ND	ND	ND	ND
108-87-2	Methylcyclohexane	--	--	mg/Kg	R	ND	ND	ND	ND	ND
75-09-2	Methylene Chloride	0.05	500	mg/Kg	0.013 J	ND	ND	ND	ND	0.13 J
91-20-3	Naphthalene	12	500	mg/Kg	NA	NA	NA	NA	NA	NA
100-42-5	Styrene	--	--	mg/Kg	0.0041 J	ND	0.011 J	ND	3.9 J	ND
79-00-5	1,1,2-Trichloroethane	--	--	mg/Kg	R	ND	ND	ND	ND	ND
79-34-5	1,1,2,2-Tetrachloroethane	--	--	mg/Kg	R	ND	ND	ND	ND	ND
127-18-4	Tetrachloroethene	1.3	150	mg/Kg	R	ND	ND	ND	ND	ND
108-88-3	Toluene	0.7	500	mg/Kg	0.079 J	0.046 J	0.21 J	0.039 J	**1000 J**	0.013 J
95-63-6	1,2,4-Trimethylbenzene	3.6	190	mg/Kg	NA	NA	NA	NA	NA	NA
108-67-8	1,3,5-Trimethylbenzene	8.4	190	mg/Kg	NA	NA	NA	NA	NA	NA
136777-61-2	m/p-Xylenes	0.26	500	mg/Kg	0.063 J	0.023 J	0.081 J	0.037 J	**970 J**	0.095 J
1330-20-7	o-Xylene	0.26		mg/Kg	0.025 J	0.01 J	0.031 J	0.017 J	**400 J**	0.22 J
	Total VOCs				**0.2797**	**0.1374**	**0.596**	**0.139**	**3665.06**	**0.5784**

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CAS NO.	COMPOUND			UNITS:						
	SEMIVOLATILES									
98-86-2	Acetophenone	--	--	mg/Kg	NA	NA	NA	NA	ND	ND
92-52-4	1,1-Biphenyl	--	--	mg/Kg	NA	NA	NA	NA	4 J	1.9 J
117-81-7	Bis(2-ethylhexyl)phthalate	--	--	mg/Kg	NA	NA	NA	NA	ND	ND
86-74-8	Carbazole	--	--	mg/Kg	NA	NA	NA	NA	ND	ND
132-64-9	Dibenzofuran	7	350	mg/Kg	NA	NA	NA	NA	0.55 J	0.46 J
105-67-9	2,4-Dimethylphenol	--	--	mg/Kg	NA	NA	NA	NA	ND	ND
84-74-2	Di-n-butylphthalate	--	--	mg/Kg	NA	NA	NA	NA	ND	ND
117-84-0	Di-n-octyl phthalate	--	--	mg/Kg	NA	NA	NA	NA	ND	ND
106-44-5	3+4-Methylphenols	0.33	500	mg/Kg	NA	NA	NA	NA	6.8 J	ND
86-30-6	N-Nitrosodiphenylamine	--	--	mg/Kg	NA	NA	NA	NA	ND	ND
108-95-2	Phenol	0.33	500	mg/Kg	NA	NA	NA	NA	ND	ND
	PAHs									
83-32-9	Acenaphthene	20	500	mg/Kg	NA	NA	NA	NA	1.1 J	5.7 J
208-96-8	Acenaphthylene	100	500	mg/Kg	NA	NA	NA	NA	3.4 J	2.7
120-12-7	Anthracene	100	500	mg/Kg	NA	NA	NA	NA	2.8 J	4.3
120-12-7	Benzo(a)anthracene	1	5.6	mg/Kg	NA	NA	NA	NA	2.5 J	5.6
50-32-8	Benzo(a)pyrene	1	1	mg/Kg	NA	NA	NA	NA	**1.1 J**	**3.3**
205-99-2	Benzo(b)fluoranthene	1	5.6	mg/Kg	NA	NA	NA	NA	1.4 J	3.6
191-24-2	Benzo(g,h,i)perylene	100	500	mg/Kg	NA	NA	NA	NA	ND	0.74 J
207-08-9	Benzo(k)fluoranthene	0.8	56	mg/Kg	NA	NA	NA	NA	0.51 J	1.2 J
218-01-9	Chrysene	1	56	mg/Kg	NA	NA	NA	NA	2.8 J	6.5
53-70-3	Dibenz(a,h)anthracene	0.33	0.56	mg/Kg	NA	NA	NA	NA	ND	ND
206-44-0	Fluoranthene	100	500	mg/Kg	NA	NA	NA	NA	4.3 J	6.4
86-73-7	Fluorene	30	500	mg/Kg	NA	NA	NA	NA	4 J	2.8
193-39-5	Indeno(1,2,3-cd)pyrene	0.5	5.6	mg/Kg	NA	NA	NA	NA	ND	0.65 J
91-57-6	2-Methylnaphthalene	--	--	mg/Kg	NA	NA	NA	NA	79 J	5.1
91-20-3	Naphthalene	12	500	mg/Kg	NA	NA	NA	NA	**550 J**	16
85-01-8	Phenanthrene	100	500	mg/Kg	NA	NA	NA	NA	17 J	15
129-00-0	Pyrene	100	500	mg/Kg	NA	NA	NA	NA	7.4 J	8.8
	Total PAHs	**--**	**--**	**mg/Kg**					**677.31**	**88.39**
	Total SVOCs	**--**	**--**	**mg/Kg**					**688.66**	**90.75**

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West 45th Street Operable Unit 1 - Validated Subsurface Soil Analytical Data
Detected Compound Summary

Consolidated Edison W 45th Street Validated Soil Analytical Data Detected Compound Summary		6 NYCRR Part 375 Unrestricted Use Soil Cleanup Objectives 12/14/2006	6 NYCRR Part 375 Restricted Soil Cleanup Objectives Commercial Use 12/14/2006	Sample ID: Lab Sample Id: Depth: Source: SDG: Matrix: Sampled: Validated:	SB-38(5-7) X1418-13 5-7' Chemtech X1418 SOIL 2/2/2006 6/14/2006	SB-38(27-29) X1418-14 27-29' Chemtech X1418 SOIL 2/2/2006 6/14/2006	SB-38(29) X1418-15 29' Chemtech X1418 SOIL 2/2/2006 6/14/2006	SB-39(5-7) X1418-06 5-7' Chemtech X1418 SOIL 1/31/2006 6/14/2006	SB-39(31-33) X1418-07 31-33' Chemtech X1418 SOIL 1/31/2006 6/14/2006	SB-40(0.5-1.0) X1348-01 0.5-1.0 Chemtech X1348 SOIL 1/25/2006 4/20/2006
CAS NO.	COMPOUND			UNITS:						
	INORGANICS									
7429-90-5	Aluminum	--	--	mg/Kg	NA	NA	NA	NA	4240 J	6820 J
7440-36-0	Antimony	--	--	mg/Kg	NA	NA	NA	NA	R	R
7440-38-2	Arsenic	13	16	mg/Kg	NA	NA	NA	NA	**74.7 J**	8.9
7440-39-3	Barium	350	400	mg/Kg	NA	NA	NA	NA	**1180 J**	125
7440-41-7	Beryllium	7.2	590	mg/Kg	NA	NA	NA	NA	0.438 J	0.562 J
7440-43-9	Cadmium	2.5	9.3	mg/Kg	NA	NA	NA	NA	2.97 J	0.626 J
7440-70-2	Calcium	--	--	mg/Kg	NA	NA	NA	NA	5630 J	25400 J
7440-47-3	Chromium	--	--	mg/Kg	NA	NA	NA	NA	14.3 J	18.2 J
7440-48-4	Cobalt	--	--	mg/Kg	NA	NA	NA	NA	25.4 J	6.76 J
7440-50-8	Copper	50	270	mg/Kg	NA	NA	NA	NA	**401 J**	42.6
7439-89-6	Iron	--	--	mg/Kg	NA	NA	NA	NA	56300 J	12500 J
7439-92-1	Lead	63	1,000	mg/Kg	NA	NA	NA	NA	**12600 J**	176
7439-95-4	Magnesium	--	--	mg/Kg	NA	NA	NA	NA	1520 J	6230 J
7439-96-5	Manganese	1,600	10,000	mg/Kg	NA	NA	NA	NA	124 J	168 J
7439-97-6	Mercury	0.18	2.8	mg/Kg	NA	NA	NA	NA	0.224 J	0.277 J
7440-02-0	Nickel	30	310	mg/Kg	NA	NA	NA	NA	29.4 J	23.5 J
7440-09-7	Potassium	--	--	mg/Kg	NA	NA	NA	NA	986 J	1950 J
7782-49-2	Selenium	3.9	1,500	mg/Kg	NA	NA	NA	NA	12.1 J	1.26 J
7440-22-4	Silver	2	1,500	mg/Kg	NA	NA	NA	NA	11.9 J	2.24 J
7440-23-5	Sodium	--	--	mg/Kg	NA	NA	NA	NA	605 J	257 J
7440-28-0	Thallium	--	--	mg/Kg	NA	NA	NA	NA	ND	ND
7440-62-2	Vanadium	--	--	mg/Kg	NA	NA	NA	NA	22.5 J	26.4 J
7440-66-6	Zinc	109	10,000	mg/Kg	NA	NA	NA	NA	2170 J	148 J
57-12-5	Cyanide	27	27	mg/Kg	NA	NA	NA	NA	**576.03 J**	2.42

Notes:
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(7) Shaded values exceed 6 NYCRR Part 375 Unrestricted Soil Cleanup Objectives.
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Remedial Action Work Plan
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Detected Compound Summary

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CAS NO.	COMPOUND			UNITS:						
	VOLATILES									
67-64-1	Acetone	0.05	500	mg/Kg	ND	ND	ND	ND	ND	ND
71-43-2	Benzene	0.06	44	mg/Kg	0.0066 J	14 J	ND	ND	ND	ND
75-27-4	Bromodichloromethane	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
78-93-3	2-Butanone	0.12	500	mg/Kg	ND	ND	ND	ND	ND	ND
75-65-0	tert-Butyl Alcohol	--	--	mg/Kg	NA	NA	NA	NA	NA	NA
104-51-8	n-Butylbenzene	12	500	mg/Kg	NA	NA	NA	NA	NA	NA
135-98-8	sec-Butylbenzene	11	500	mg/Kg	NA	NA	NA	NA	NA	NA
98-06-6	tert-Butylbenzene	5.9	500	mg/Kg	NA	NA	NA	NA	NA	NA
75-15-0	Carbon Disulfide	--	--	mg/Kg	ND	0.0027 J	ND	0.014 J	ND	0.0043 J
110-82-7	Cyclohexane	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
124-48-1	Dibromochloromethane	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
75-35-4	1,1-Dichloroethene	0.33	500	mg/Kg	ND	ND	ND	ND	ND	ND
107-06-2	1,2-Dichloroethane	0.02	30	mg/Kg	ND	ND	ND	ND	ND	ND
10061-01-5	cis-1,3-Dichloropropene	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
100-41-4	Ethyl Benzene	1	390	mg/Kg	0.069 J	58 J	ND	ND	ND	ND
591-78-6	2-Hexanone	--	--	mg/Kg	ND	ND	ND	0.18	ND	ND
98-82-8	Isopropylbenzene	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
108-10-1	4-Methyl-2-Pentanone	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
1634-04-4	Methyl tert-butyl Ether	0.93	500	mg/Kg	ND	ND	ND	ND	ND	0.0033 J
108-87-2	Methylcyclohexane	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
75-09-2	Methylene Chloride	0.05	500	mg/Kg	ND	ND	ND	ND	ND	ND
91-20-3	Naphthalene	12	500	mg/Kg	NA	NA	NA	NA	NA	NA
100-42-5	Styrene	--	--	mg/Kg	ND	0.021 J	ND	ND	ND	ND
79-00-5	1,1,2-Trichloroethane	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
79-34-5	1,1,2,2-Tetrachloroethane	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
127-18-4	Tetrachloroethene	1.3	150	mg/Kg	ND	ND	ND	ND	ND	ND
108-88-3	Toluene	0.7	500	mg/Kg	0.015 J	4.2 J	ND	ND	ND	ND
95-63-6	1,2,4-Trimethylbenzene	3.6	190	mg/Kg	NA	NA	NA	NA	NA	NA
108-67-8	1,3,5-Trimethylbenzene	8.4	190	mg/Kg	NA	NA	NA	NA	NA	NA
136777-61-2	m/p-Xylenes	0.26	500	mg/Kg	0.036 J	40 J	ND	ND	ND	ND
1330-20-7	o-Xylene	0.26		mg/Kg	0.03 J	22 J	ND	ND	ND	ND
	Total VOCs				**0.1566**	**138.2237**	**ND**	**0.194**	**ND**	**0.0076**

Notes:
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CAS NO.	COMPOUND			UNITS:						
	SEMIVOLATILES									
98-86-2	Acetophenone	--	--	mg/Kg	ND	ND	NA	NA	ND	NA
92-52-4	1,1-Biphenyl	--	--	mg/Kg	0.35 J	6.6	NA	NA	ND	NA
117-81-7	Bis(2-ethylhexyl)phthalate	--	--	mg/Kg	ND	ND	NA	NA	ND	NA
86-74-8	Carbazole	--	--	mg/Kg	ND	0.29 J	NA	NA	ND	NA
132-64-9	Dibenzofuran	7	350	mg/Kg	ND	0.91 J	NA	NA	ND	NA
105-67-9	2,4-Dimethylphenol	--	--	mg/Kg	ND	ND	NA	NA	ND	NA
84-74-2	Di-n-butylphthalate	--	--	mg/Kg	ND	ND	NA	NA	ND	NA
117-84-0	Di-n-octyl phthalate	--	--	mg/Kg	ND	ND	NA	NA	ND	NA
106-44-5	3+4-Methylphenols	0.33	500	mg/Kg	ND	ND	NA	NA	ND	NA
86-30-6	N-Nitrosodiphenylamine	--	--	mg/Kg	ND	ND	NA	NA	ND	NA
108-95-2	Phenol	0.33	500	mg/Kg	ND	ND	NA	NA	ND	NA
	PAHs									
83-32-9	Acenaphthene	20	500	mg/Kg	0.67 J	16 J	NA	NA	ND	NA
208-96-8	Acenaphthylene	100	500	mg/Kg	1.7 J	5.8 J	NA	NA	ND	NA
120-12-7	Anthracene	100	500	mg/Kg	1.3 J	5.7 J	NA	NA	ND	NA
120-12-7	Benzo(a)anthracene	1	5.6	mg/Kg	1 J	**7.7**	NA	NA	ND	NA
50-32-8	Benzo(a)pyrene	1	1	mg/Kg	0.9 J	**3.3 J**	NA	NA	ND	NA
205-99-2	Benzo(b)fluoranthene	1	5.6	mg/Kg	0.29 J	3.4 J	NA	NA	ND	NA
191-24-2	Benzo(g,h,i)perylene	100	500	mg/Kg	ND	ND	NA	NA	ND	NA
207-08-9	Benzo(k)fluoranthene	0.8	56	mg/Kg	1 J	0.64 J	NA	NA	ND	NA
218-01-9	Chrysene	1	56	mg/Kg	1 J	8.1	NA	NA	ND	NA
53-70-3	Dibenz(a,h)anthracene	0.33	0.56	mg/Kg	ND	ND	NA	NA	ND	NA
206-44-0	Fluoranthene	100	500	mg/Kg	1.4 J	4 J	NA	NA	ND	NA
86-73-7	Fluorene	30	500	mg/Kg	1.3 J	6.9 J	NA	NA	ND	NA
193-39-5	Indeno(1,2,3-cd)pyrene	0.5	5.6	mg/Kg	ND	ND	NA	NA	ND	NA
91-57-6	2-Methylnaphthalene	--	--	mg/Kg	0.39 J	63	NA	NA	ND	NA
91-20-3	Naphthalene	12	500	mg/Kg	3	110	NA	NA	ND	NA
85-01-8	Phenanthrene	100	500	mg/Kg	4	27	NA	NA	ND	NA
129-00-0	Pyrene	100	500	mg/Kg	1.6 J	16 J	NA	NA	ND	NA
	Total PAHs	**--**	**--**	**mg/Kg**	**19.55**	**277.54**			**ND**	
	Total SVOCs	**--**	**--**	**mg/Kg**	**19.9**	**285.34**			**ND**	

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CAS NO.	COMPOUND			UNITS:						
	INORGANICS									
7429-90-5	Aluminum	--	--	mg/Kg	5580 J	9360 J	NA	NA	4940	NA
7440-36-0	Antimony	--	--	mg/Kg	R	R	NA	NA	ND	NA
7440-38-2	Arsenic	13	16	mg/Kg	2.37	1.41	NA	NA	0.939 J	NA
7440-39-3	Barium	350	400	mg/Kg	48.3	106	NA	NA	125	NA
7440-41-7	Beryllium	7.2	590	mg/Kg	0.215 J	0.318 J	NA	NA	0.361 J	NA
7440-43-9	Cadmium	2.5	9.3	mg/Kg	0.371 J	0.271 J	NA	NA	ND	NA
7440-70-2	Calcium	--	--	mg/Kg	12800 J	15400 J	NA	NA	1220	NA
7440-47-3	Chromium	--	--	mg/Kg	18.4 J	27.1 J	NA	NA	14.8 J	NA
7440-48-4	Cobalt	--	--	mg/Kg	8.02 J	9.78 J	NA	NA	5.53 J	NA
7440-50-8	Copper	50	270	mg/Kg	41.1	18.6	NA	NA	13.9	NA
7439-89-6	Iron	--	--	mg/Kg	12100 J	15100 J	NA	NA	9750	NA
7439-92-1	Lead	63	1,000	mg/Kg	54.4	30.9	NA	NA	6.06	NA
7439-95-4	Magnesium	--	--	mg/Kg	5640 J	13400 J	NA	NA	2110	NA
7439-96-5	Manganese	1,600	10,000	mg/Kg	113	207	NA	NA	365	NA
7439-97-6	Mercury	0.18	2.8	mg/Kg	0.285 J	0.981 J	NA	NA	0.007 J	NA
7440-02-0	Nickel	30	310	mg/Kg	15.8 J	18 J	NA	NA	9.98 J	NA
7440-09-7	Potassium	--	--	mg/Kg	2350 J	5910 J	NA	NA	2050 J	NA
7782-49-2	Selenium	3.9	1,500	mg/Kg	0.526 J	0.895 J	NA	NA	ND	NA
7440-22-4	Silver	2	1,500	mg/Kg	2.45 J	2.84 J	NA	NA	ND	NA
7440-23-5	Sodium	--	--	mg/Kg	201 J	275 J	NA	NA	289 J	NA
7440-28-0	Thallium	--	--	mg/Kg	ND	ND	NA	NA	ND	NA
7440-62-2	Vanadium	--	--	mg/Kg	18.3 J	30.1 J	NA	NA	19.6	NA
7440-66-6	Zinc	109	10,000	mg/Kg	278	57.8	NA	NA	20.7 J	NA
57-12-5	Cyanide	27	27	mg/Kg	ND	0.78	NA	NA	ND	NA

Notes:
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CAS NO.	COMPOUND			UNITS:						
	VOLATILES									
67-64-1	Acetone	0.05	500	mg/Kg	0.044 J	0.05 J	0.14 J	ND	ND	ND
71-43-2	Benzene	0.06	44	mg/Kg	0.016 J	0.16	0.24	0.32	0.75	ND
75-27-4	Bromodichloromethane	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
78-93-3	2-Butanone	0.12	500	mg/Kg	ND	ND	0.075 J	0.035 J	ND	ND
75-65-0	tert-Butyl Alcohol	--	--	mg/Kg	NA	NA	NA	NA	NA	NA
104-51-8	n-Butylbenzene	12	500	mg/Kg	NA	NA	NA	NA	NA	NA
135-98-8	sec-Butylbenzene	11	500	mg/Kg	NA	NA	NA	NA	NA	NA
98-06-6	tert-Butylbenzene	5.9	500	mg/Kg	NA	NA	NA	NA	NA	NA
75-15-0	Carbon Disulfide	--	--	mg/Kg	ND	0.015 J	ND	ND	ND	ND
110-82-7	Cyclohexane	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
124-48-1	Dibromochloromethane	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
75-35-4	1,1-Dichloroethene	0.33	500	mg/Kg	ND	ND	ND	ND	ND	ND
107-06-2	1,2-Dichloroethane	0.02	30	mg/Kg	ND	ND	ND	ND	ND	ND
10061-01-5	cis-1,3-Dichloropropene	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
100-41-4	Ethyl Benzene	1	390	mg/Kg	0.23	2.5	0.75	0.027 J	26	ND
591-78-6	2-Hexanone	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
98-82-8	Isopropylbenzene	--	--	mg/Kg	0.065	0.74	0.18	ND	4.3	ND
108-10-1	4-Methyl-2-Pentanone	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
1634-04-4	Methyl tert-butyl Ether	0.93	500	mg/Kg	ND	ND	ND	ND	ND	ND
108-87-2	Methylcyclohexane	--	--	mg/Kg	ND	ND	0.097	ND	0.18 J	ND
75-09-2	Methylene Chloride	0.05	500	mg/Kg	ND	ND	ND	ND	ND	ND
91-20-3	Naphthalene	12	500	mg/Kg	NA	NA	NA	NA	NA	NA
100-42-5	Styrene	--	--	mg/Kg	0.012 J	0.047	0.029 J	0.0077 J	ND	ND
79-00-5	1,1,2-Trichloroethane	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
79-34-5	1,1,2,2-Tetrachloroethane	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
127-18-4	Tetrachloroethene	1.3	150	mg/Kg	ND	ND	ND	ND	ND	ND
108-88-3	Toluene	0.7	500	mg/Kg	0.088	1	0.031 J	0.056	0.68 J	ND
95-63-6	1,2,4-Trimethylbenzene	3.6	190	mg/Kg	NA	NA	NA	NA	NA	NA
108-67-8	1,3,5-Trimethylbenzene	8.4	190	mg/Kg	NA	NA	NA	NA	NA	NA
136777-61-2	m/p-Xylenes	0.26	500	mg/Kg	0.32	2.9	0.47	0.017 J	21	ND
1330-20-7	o-Xylene	0.26		mg/Kg	0.31	2.4	0.4	0.0067 J	11	ND
	Total VOCs				**1.085**	**9.812**	**2.412**	**0.4694**	**63.91**	**ND**

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Detected Compound Summary

Consolidated Edison W 45th Street Validated Soil Analytical Data Detected Compound Summary		6 NYCRR Part 375 Unrestricted Use Soil Cleanup Objectives 12/14/2006	6 NYCRR Part 375 Restricted Soil Cleanup Objectives Commercial Use 12/14/2006	Sample ID: Lab Sample Id: Depth: Source: SDG: Matrix: Sampled: Validated:	SB-43(1-3) X1835-05 1-3' Chemtech X1835 SOIL 3/6/2006 5/15/2006	SB-43(7-9) X1835-15 7-9' Chemtech X1835 SOIL 3/8/2006 5/15/2006	SB-44(7-9) X1835-16 7-9' Chemtech X1835 SOIL 3/8/2006 5/15/2006	SB-45(5-7) X1835-18 5-7' Chemtech X1835 SOIL 3/10/2006 5/15/2006	SB-45(19-21) X1835-19 19-21' Chemtech X1835 SOIL 3/10/2006 5/15/2006	SB-46(11-13) X2042-02 11-13' Chemtech X2042 SOIL 3/23/2006 5/13/2006
CAS NO.	COMPOUND			UNITS:						
	SEMIVOLATILES									
98-86-2	Acetophenone	--	--	mg/Kg	ND	ND	ND	0.15 J	ND	ND
92-52-4	1,1-Biphenyl	--	--	mg/Kg	0.87 J	8.1	4.8	1 J	3.8	ND
117-81-7	Bis(2-ethylhexyl)phthalate	--	--	mg/Kg	ND	ND	ND	ND	0.12 J	ND
86-74-8	Carbazole	--	--	mg/Kg	ND	0.8 J	0.9	0.15 J	0.39	ND
132-64-9	Dibenzofuran	7	350	mg/Kg	ND	1.5 J	1.1	0.44	0.78	ND
105-67-9	2,4-Dimethylphenol	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
84-74-2	Di-n-butylphthalate	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
117-84-0	Di-n-octyl phthalate	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
106-44-5	3+4-Methylphenols	0.33	500	mg/Kg	ND	ND	ND	ND	ND	ND
86-30-6	N-Nitrosodiphenylamine	--	--	mg/Kg	ND	ND	ND	0.5	ND	ND
108-95-2	Phenol	0.33	500	mg/Kg	ND	ND	ND	ND	ND	ND
	PAHs									
83-32-9	Acenaphthene	20	500	mg/Kg	2.2	14	9.1	10	12	ND
208-96-8	Acenaphthylene	100	500	mg/Kg	3	6.8	4.3	2.3	2.4	ND
120-12-7	Anthracene	100	500	mg/Kg	3	11	6.6	4.8	5.8	ND
120-12-7	Benzo(a)anthracene	1	5.6	mg/Kg	**7.6**	**16**	**8.3**	4 J	5.5	ND
50-32-8	Benzo(a)pyrene	1	1	mg/Kg	**6.1**	**10 J**	**4.7**	**3.4 J**	**3.8**	ND
205-99-2	Benzo(b)fluoranthene	1	5.6	mg/Kg	**7.6**	**9.5 J**	4 J	2.9 J	3.4 J	ND
191-24-2	Benzo(g,h,i)perylene	100	500	mg/Kg	1.3 J	1.3 J	0.92 J	0.96	0.93 J	ND
207-08-9	Benzo(k)fluoranthene	0.8	56	mg/Kg	2.6 J	2.5 J	3	1.2	1.9 J	ND
218-01-9	Chrysene	1	56	mg/Kg	8.7	16	9.8	3.7 J	5.8	ND
53-70-3	Dibenz(a,h)anthracene	0.33	0.56	mg/Kg	ND	0.27 J	0.19 J	0.11 J	0.15 J	ND
206-44-0	Fluoranthene	100	500	mg/Kg	9.1	17	11	6.8	7	ND
86-73-7	Fluorene	30	500	mg/Kg	3.3	15	9.9	5.7	7.2	ND
193-39-5	Indeno(1,2,3-cd)pyrene	0.5	5.6	mg/Kg	0.68 J	0.6 J	0.36 J	0.38 J	0.38	ND
91-57-6	2-Methylnaphthalene	--	--	mg/Kg	7.7	72	40	19	38	ND
91-20-3	Naphthalene	12	500	mg/Kg	7.1	81	48	1.1	74	ND
85-01-8	Phenanthrene	100	500	mg/Kg	13	56	31	18	21	ND
129-00-0	Pyrene	100	500	mg/Kg	12	37	21	14	13	ND
	Total PAHs	**--**	**--**	**mg/Kg**	**94.98**	**365.97**	**212.17**	**98.35**	**202.26**	**ND**
	Total SVOCs	**--**	**--**	**mg/Kg**	**95.85**	**376.37**	**218.97**	**100.59**	**207.35**	**ND**

Notes:
(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Programs (December 2006)
(2) -- indicates no cleanup objective or background level is available.
(3) NA indicates compound was not analyzed for.
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(5) J indicates an estimated concentration.
(6) R indicates a rejected value.
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Remedial Action Work Plan
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CAS NO.	COMPOUND			UNITS:						
	INORGANICS									
7429-90-5	Aluminum	--	--	mg/Kg	7130	8580	7460	8110	12600	8240 J
7440-36-0	Antimony	--	--	mg/Kg	ND	35.8 J	ND	ND	0.837 J	24.2
7440-38-2	Arsenic	13	16	mg/Kg	**19.7**	13.7	11.2	12.2	1.05 J	2.7 J
7440-39-3	Barium	350	400	mg/Kg	193 J	114 J	148 J	94.1 J	273 J	101 J
7440-41-7	Beryllium	7.2	590	mg/Kg	0.529 J	0.538 J	0.466 J	0.418 J	0.412 J	0.56 J
7440-43-9	Cadmium	2.5	9.3	mg/Kg	0.972	0.238 J	0.523 J	0.415 J	0.292 J	ND
7440-70-2	Calcium	--	--	mg/Kg	6370	5980	14000	31100	4020	914 J
7440-47-3	Chromium	--	--	mg/Kg	19	15.1	14.3	25.5	35.6	20.7 J
7440-48-4	Cobalt	--	--	mg/Kg	8.27	5.94 J	6.07 J	8.06	12.3	11.1 J
7440-50-8	Copper	50	270	mg/Kg	**2870**	40.4	46.5	37.8	31.2	16.9 J
7439-89-6	Iron	--	--	mg/Kg	17500	14300	13100	18900	20400	17300 J
7439-92-1	Lead	63	1,000	mg/Kg	542	205	251	572	8.86	8.7
7439-95-4	Magnesium	--	--	mg/Kg	2740	2910	2860	8630	6990	2970 J
7439-96-5	Manganese	1,600	10,000	mg/Kg	257	399	323	299	490	208 J
7439-97-6	Mercury	0.18	2.8	mg/Kg	**7.3**	0.462	1.1	0.684	0.034	0.016 J
7440-02-0	Nickel	30	310	mg/Kg	28.4	16.9	14	31.3	19.1	12.2 J
7440-09-7	Potassium	--	--	mg/Kg	1450	813	1140	1900	8660	2010 J
7782-49-2	Selenium	3.9	1,500	mg/Kg	1.67	2.97	3.67	5.37	ND	0.74 J
7440-22-4	Silver	2	1,500	mg/Kg	1.9 J	R	R	ND	0.152 J	0.61 J
7440-23-5	Sodium	--	--	mg/Kg	654	ND	539 J	470 J	218 J	768 J
7440-28-0	Thallium	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
7440-62-2	Vanadium	--	--	mg/Kg	29.6 J	34.4 J	22.5 J	27.4	55.4	33.8 J
7440-66-6	Zinc	109	10,000	mg/Kg	551	130	153	386	52	24.5 J
57-12-5	Cyanide	27	27	mg/Kg	ND	3.34	1.71	2.07	ND	ND

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CAS NO.	COMPOUND			UNITS:						
	VOLATILES									
67-64-1	Acetone	0.05	500	mg/Kg	0.15 J	ND	ND	ND	ND	ND
71-43-2	Benzene	0.06	44	mg/Kg	0.2	ND	ND	**550**	ND	ND
75-27-4	Bromodichloromethane	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
78-93-3	2-Butanone	0.12	500	mg/Kg	0.045 J	ND	ND	ND	ND	ND
75-65-0	tert-Butyl Alcohol	--	--	mg/Kg	NA	NA	NA	NA	NA	0.011 J
104-51-8	n-Butylbenzene	12	500	mg/Kg	NA	NA	NA	NA	NA	ND
135-98-8	sec-Butylbenzene	11	500	mg/Kg	NA	NA	NA	NA	NA	ND
98-06-6	tert-Butylbenzene	5.9	500	mg/Kg	NA	NA	NA	NA	NA	ND
75-15-0	Carbon Disulfide	--	--	mg/Kg	0.0098 J	ND	ND	ND	ND	ND
110-82-7	Cyclohexane	--	--	mg/Kg	ND	ND	ND	ND	ND	NA
124-48-1	Dibromochloromethane	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
75-35-4	1,1-Dichloroethene	0.33	500	mg/Kg	ND	ND	ND	ND	ND	ND
107-06-2	1,2-Dichloroethane	0.02	30	mg/Kg	ND	ND	ND	ND	ND	ND
10061-01-5	cis-1,3-Dichloropropene	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
100-41-4	Ethyl Benzene	1	390	mg/Kg	0.011 J	ND	ND	310	ND	ND
591-78-6	2-Hexanone	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
98-82-8	Isopropylbenzene	--	--	mg/Kg	0.033	ND	ND	6.7 J	ND	ND
108-10-1	4-Methyl-2-Pentanone	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
1634-04-4	Methyl tert-butyl Ether	0.93	500	mg/Kg	ND	ND	ND	ND	ND	ND
108-87-2	Methylcyclohexane	--	--	mg/Kg	ND	ND	ND	ND	ND	NA
75-09-2	Methylene Chloride	0.05	500	mg/Kg	ND	ND	ND	ND	ND	0.0019 J
91-20-3	Naphthalene	12	500	mg/Kg	NA	NA	NA	NA	NA	ND
100-42-5	Styrene	--	--	mg/Kg	ND	ND	ND	670	0.18 J	ND
79-00-5	1,1,2-Trichloroethane	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
79-34-5	1,1,2,2-Tetrachloroethane	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
127-18-4	Tetrachloroethene	1.3	150	mg/Kg	ND	ND	ND	ND	ND	ND
108-88-3	Toluene	0.7	500	mg/Kg	0.0038 J	ND	ND	**1100**	ND	ND
95-63-6	1,2,4-Trimethylbenzene	3.6	190	mg/Kg	NA	NA	NA	NA	NA	ND
108-67-8	1,3,5-Trimethylbenzene	8.4	190	mg/Kg	NA	NA	NA	NA	NA	ND
136777-61-2	m/p-Xylenes	0.26	500	mg/Kg	0.016 J	ND	ND	**870**	0.17 J	ND
1330-20-7	o-Xylene	0.26		mg/Kg	0.012 J	ND	ND	**400**	0.1 J	ND
	Total VOCs				**0.4806**	**ND**	**ND**	**3906.7**	**0.45**	**0.0129**

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CAS NO.	COMPOUND			UNITS:						
	SEMIVOLATILES									
98-86-2	Acetophenone	--	--	mg/Kg	ND	ND	ND	ND	ND	NA
92-52-4	1,1-Biphenyl	--	--	mg/Kg	ND	ND	ND	46	1.4	NA
117-81-7	Bis(2-ethylhexyl)phthalate	--	--	mg/Kg	0.095 J	ND	ND	ND	ND	NA
86-74-8	Carbazole	--	--	mg/Kg	ND	ND	ND	1.6 J	ND	NA
132-64-9	Dibenzofuran	7	350	mg/Kg	ND	ND	ND	11 J	0.21 J	NA
105-67-9	2,4-Dimethylphenol	--	--	mg/Kg	ND	ND	ND	ND	ND	NA
84-74-2	Di-n-butylphthalate	--	--	mg/Kg	ND	ND	ND	ND	ND	NA
117-84-0	Di-n-octyl phthalate	--	--	mg/Kg	ND	ND	ND	ND	ND	NA
106-44-5	3+4-Methylphenols	0.33	500	mg/Kg	ND	ND	ND	ND	ND	NA
86-30-6	N-Nitrosodiphenylamine	--	--	mg/Kg	ND	ND	ND	ND	ND	NA
108-95-2	Phenol	0.33	500	mg/Kg	ND	ND	ND	ND	ND	NA
	PAHs									
83-32-9	Acenaphthene	20	500	mg/Kg	ND	ND	ND	23	0.62	NA
208-96-8	Acenaphthylene	100	500	mg/Kg	ND	ND	ND	170	4.7	NA
120-12-7	Anthracene	100	500	mg/Kg	0.072 J	ND	ND	70	2.1	NA
120-12-7	Benzo(a)anthracene	1	5.6	mg/Kg	0.38 J	ND	ND	**62**	2	NA
50-32-8	Benzo(a)pyrene	1	1	mg/Kg	0.29 J	ND	ND	**36 J**	**1.2**	NA
205-99-2	Benzo(b)fluoranthene	1	5.6	mg/Kg	0.38	ND	ND	**27 J**	0.75 J	NA
191-24-2	Benzo(g,h,i)perylene	100	500	mg/Kg	0.072 J	ND	ND	11 J	0.7	NA
207-08-9	Benzo(k)fluoranthene	0.8	56	mg/Kg	0.14 J	ND	ND	13 J	0.34 J	NA
218-01-9	Chrysene	1	56	mg/Kg	0.36 J	ND	ND	**60**	1.9	NA
53-70-3	Dibenz(a,h)anthracene	0.33	0.56	mg/Kg	ND	ND	ND	**5.2 J**	0.088 J	NA
206-44-0	Fluoranthene	100	500	mg/Kg	0.82	ND	ND	93	2.7	NA
86-73-7	Fluorene	30	500	mg/Kg	ND	ND	ND	110	2.7	NA
193-39-5	Indeno(1,2,3-cd)pyrene	0.5	5.6	mg/Kg	ND	ND	ND	**28 J**	0.45 J	NA
91-57-6	2-Methylnaphthalene	--	--	mg/Kg	0.39	ND	ND	520	12	NA
91-20-3	Naphthalene	12	500	mg/Kg	ND	0.18 J	0.16 J	**1200**	25	NA
85-01-8	Phenanthrene	100	500	mg/Kg	0.22 J	ND	ND	240	7.1	NA
129-00-0	Pyrene	100	500	mg/Kg	0.81	ND	ND	140	3.9	NA
	Total PAHs	**--**	**--**	**mg/Kg**	**3.934**	**0.18**	**0.16**	**2808.2**	**68.248**	
	Total SVOCs	**--**	**--**	**mg/Kg**	**4.029**	**0.18**	**0.16**	**2866.8**	**69.858**	

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CAS NO.	COMPOUND			UNITS:						
	INORGANICS									
7429-90-5	Aluminum	--	--	mg/Kg	8000 J	7910 J	7030 J	3880 J	5410 J	NA
7440-36-0	Antimony	--	--	mg/Kg	5 J	ND	ND	ND	ND	NA
7440-38-2	Arsenic	13	16	mg/Kg	3.6 J	0.631 J	1.02 J	2.52	0.53 J	NA
7440-39-3	Barium	350	400	mg/Kg	81.4 J	42.8	60	59.4	108	NA
7440-41-7	Beryllium	7.2	590	mg/Kg	0.35 J	0.356 J	0.425 J	0.317 J	0.376 J	NA
7440-43-9	Cadmium	2.5	9.3	mg/Kg	ND	ND	ND	0.135 J	ND	NA
7440-70-2	Calcium	--	--	mg/Kg	10200 J	1350 J	1020 J	1130 J	5550 J	NA
7440-47-3	Chromium	--	--	mg/Kg	16.4 J	16 J	19.7 J	15.1 J	13.9 J	NA
7440-48-4	Cobalt	--	--	mg/Kg	8.2 J	6.74	5.69	2.99 J	5.53	NA
7440-50-8	Copper	50	270	mg/Kg	23.5 J	18.2	15.9	11.7	15.7	NA
7439-89-6	Iron	--	--	mg/Kg	16200 J	13300	10700	6990	9980	NA
7439-92-1	Lead	63	1,000	mg/Kg	61.7	7.48	3.91	4.18	5.46	NA
7439-95-4	Magnesium	--	--	mg/Kg	3180 J	2540	2650	1430	3370	NA
7439-96-5	Manganese	1,600	10,000	mg/Kg	301 J	290 J	499 J	54.9 J	420 J	NA
7439-97-6	Mercury	0.18	2.8	mg/Kg	0.156 J	0.022	ND	ND	ND	NA
7440-02-0	Nickel	30	310	mg/Kg	13.7 J	13.7	12.5	7.32	12.8	NA
7440-09-7	Potassium	--	--	mg/Kg	2390 J	1040	2100	820	2400	NA
7782-49-2	Selenium	3.9	1,500	mg/Kg	1.2	ND	ND	ND	ND	NA
7440-22-4	Silver	2	1,500	mg/Kg	0.57 J	ND	ND	ND	ND	NA
7440-23-5	Sodium	--	--	mg/Kg	486 J	227 J	167 J	316 J	284 J	NA
7440-28-0	Thallium	--	--	mg/Kg	ND	ND	ND	1.42	ND	NA
7440-62-2	Vanadium	--	--	mg/Kg	29.6 J	18.9	24.1	14.3	18.6	NA
7440-66-6	Zinc	109	10,000	mg/Kg	52.3 J	36.8 J	25.9 J	17.6 J	22.7 J	NA
57-12-5	Cyanide	27	27	mg/Kg	ND	ND	ND	ND	ND	NA

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Table 3
Remedial Action Work Plan
West 45th Street Operable Unit 1 - Validated Subsurface Soil Analytical Data
Detected Compound Summary

Consolidated Edison W 45th Street Validated Soil Analytical Data Detected Compound Summary		6 NYCRR Part 375 Unrestricted Use Soil Cleanup Objectives 12/14/2006	6 NYCRR Part 375 Restricted Soil Cleanup Objectives Commercial Use 12/14/2006	Sample ID: Lab Sample Id: Depth: Source: SDG: Matrix: Sampled: Validated:	SB-49(17-19') 010700957-4 17-19' EMSL Analytical 10700957 Soil 2/28/2007 6/19/2007	SB-50(5-7') 010700914-2 5-7' EMSL Analytical 10700914 Soil 2/27/2007 6/18/2007	SB-50(9-11') 010700914-3 9-11' EMSL Analytical 10700914 Soil 2/27/2007 6/18/2007	SB-51(12-14') 010700897-1 12-14' EMSL Analytical 10700897 Soil 2/26/2007 6/18/2007	SB-51(16-18') 010700897-2 16-18' EMSL Analytical 10700897 Soil 2/26/2007 6/18/2007	SB-52 (12-14) Z1659-01 12-14' Chemtech Z1659 SOIL 2/23/2008 4/10/2008
CAS NO.	COMPOUND			UNITS:						
	VOLATILES									
67-64-1	Acetone	0.05	500	mg/Kg	ND	0.024 J	0.0024 J	ND	ND	ND
71-43-2	Benzene	0.06	44	mg/Kg	ND	ND	ND	ND	ND	0.021 J
75-27-4	Bromodichloromethane	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
78-93-3	2-Butanone	0.12	500	mg/Kg	ND	0.0049 J	ND	ND	ND	ND
75-65-0	tert-Butyl Alcohol	--	--	mg/Kg	R	R	R	R	0.0099 J	NA
104-51-8	n-Butylbenzene	12	500	mg/Kg	ND	ND	ND	ND	ND	NA
135-98-8	sec-Butylbenzene	11	500	mg/Kg	ND	ND	ND	ND	ND	NA
98-06-6	tert-Butylbenzene	5.9	500	mg/Kg	ND	ND	ND	ND	ND	NA
75-15-0	Carbon Disulfide	--	--	mg/Kg	ND	ND	0.0013	ND	ND	ND
110-82-7	Cyclohexane	--	--	mg/Kg	NA	NA	NA	NA	NA	ND
124-48-1	Dibromochloromethane	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
75-35-4	1,1-Dichloroethene	0.33	500	mg/Kg	ND	ND	ND	ND	ND	ND
107-06-2	1,2-Dichloroethane	0.02	30	mg/Kg	ND	ND	ND	ND	ND	ND
10061-01-5	cis-1,3-Dichloropropene	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
100-41-4	Ethyl Benzene	1	390	mg/Kg	ND	ND	ND	ND	ND	0.058
591-78-6	2-Hexanone	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
98-82-8	Isopropylbenzene	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
108-10-1	4-Methyl-2-Pentanone	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
1634-04-4	Methyl tert-butyl Ether	0.93	500	mg/Kg	0.0064	ND	ND	ND	ND	ND
108-87-2	Methylcyclohexane	--	--	mg/Kg	NA	NA	NA	NA	NA	ND
75-09-2	Methylene Chloride	0.05	500	mg/Kg	ND	ND	ND	ND	0.0013 J	ND
91-20-3	Naphthalene	12	500	mg/Kg	ND	ND	ND	ND	ND	NA
100-42-5	Styrene	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
79-00-5	1,1,2-Trichloroethane	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
79-34-5	1,1,2,2-Tetrachloroethane	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
127-18-4	Tetrachloroethene	1.3	150	mg/Kg	ND	ND	ND	ND	ND	ND
108-88-3	Toluene	0.7	500	mg/Kg	ND	ND	ND	ND	ND	ND
95-63-6	1,2,4-Trimethylbenzene	3.6	190	mg/Kg	ND	ND	ND	ND	ND	NA
108-67-8	1,3,5-Trimethylbenzene	8.4	190	mg/Kg	ND	ND	ND	ND	ND	NA
136777-61-2	m/p-Xylenes	0.26	500	mg/Kg	ND	ND	ND	ND	ND	0.027 J
1330-20-7	o-Xylene	0.26		mg/Kg	ND	ND	ND	ND	ND	0.026 J
	Total VOCs				**0.0064**	**0.0289**	**0.0037**	**ND**	**0.0112**	**0.132**

Notes:
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Detected Compound Summary

Consolidated Edison W 45th Street Validated Soil Analytical Data Detected Compound Summary		6 NYCRR Part 375 Unrestricted Use Soil Cleanup Objectives 12/14/2006	6 NYCRR Part 375 Restricted Soil Cleanup Objectives Commercial Use 12/14/2006	Sample ID: Lab Sample Id: Depth: Source: SDG: Matrix: Sampled: Validated:	SB-49(17-19') 010700957-4 17-19' EMSL Analytical 10700957 Soil 2/28/2007 6/19/2007	SB-50(5-7') 010700914-2 5-7' EMSL Analytical 10700914 Soil 2/27/2007 6/18/2007	SB-50(9-11') 010700914-3 9-11' EMSL Analytical 10700914 Soil 2/27/2007 6/18/2007	SB-51(12-14') 010700897-1 12-14' EMSL Analytical 10700897 Soil 2/26/2007 6/18/2007	SB-51(16-18') 010700897-2 16-18' EMSL Analytical 10700897 Soil 2/26/2007 6/18/2007	SB-52 (12-14) Z1659-01 12-14' Chemtech Z1659 SOIL 2/23/2008 4/10/2008
CAS NO.	COMPOUND			UNITS:						
	SEMIVOLATILES									
98-86-2	Acetophenone	--	--	mg/Kg	NA	NA	NA	NA	NA	ND
92-52-4	1,1-Biphenyl	--	--	mg/Kg	NA	NA	NA	NA	NA	0.11 J
117-81-7	Bis(2-ethylhexyl)phthalate	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
86-74-8	Carbazole	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
132-64-9	Dibenzofuran	7	350	mg/Kg	ND	ND	ND	ND	ND	ND
105-67-9	2,4-Dimethylphenol	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
84-74-2	Di-n-butylphthalate	--	--	mg/Kg	0.2	0.16	0.13	ND	0.021	ND
117-84-0	Di-n-octyl phthalate	--	--	mg/Kg	ND	0.071	ND	ND	ND	ND
106-44-5	3+4-Methylphenols	0.33	500	mg/Kg	NA	NA	NA	NA	NA	ND
86-30-6	N-Nitrosodiphenylamine	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
108-95-2	Phenol	0.33	500	mg/Kg	ND	ND	ND	ND	ND	ND
	PAHs									
83-32-9	Acenaphthene	20	500	mg/Kg	ND	ND	ND	ND	ND	0.37 J
208-96-8	Acenaphthylene	100	500	mg/Kg	ND	0.015	ND	ND	ND	0.076 J
120-12-7	Anthracene	100	500	mg/Kg	ND	0.019	ND	ND	ND	0.21 J
120-12-7	Benzo(a)anthracene	1	5.6	mg/Kg	ND	0.078	ND	ND	ND	0.17 J
50-32-8	Benzo(a)pyrene	1	1	mg/Kg	ND	0.07	ND	ND	ND	0.11 J
205-99-2	Benzo(b)fluoranthene	1	5.6	mg/Kg	ND	0.061	ND	ND	ND	0.082 J
191-24-2	Benzo(g,h,i)perylene	100	500	mg/Kg	ND	0.058	ND	ND	ND	0.045 J
207-08-9	Benzo(k)fluoranthene	0.8	56	mg/Kg	ND	0.052	ND	ND	ND	ND
218-01-9	Chrysene	1	56	mg/Kg	ND	0.077	ND	ND	ND	0.15 J
53-70-3	Dibenz(a,h)anthracene	0.33	0.56	mg/Kg	ND	0.012	ND	ND	ND	ND
206-44-0	Fluoranthene	100	500	mg/Kg	ND	0.14	ND	0.014	ND	0.26 J
86-73-7	Fluorene	30	500	mg/Kg	ND	ND	ND	ND	ND	0.23 J
193-39-5	Indeno(1,2,3-cd)pyrene	0.5	5.6	mg/Kg	ND	0.045	ND	ND	ND	ND
91-57-6	2-Methylnaphthalene	--	--	mg/Kg	ND	ND	ND	ND	ND	0.72
91-20-3	Naphthalene	12	500	mg/Kg	ND	ND	ND	ND	ND	1.3
85-01-8	Phenanthrene	100	500	mg/Kg	ND	0.094	ND	0.015	ND	0.78
129-00-0	Pyrene	100	500	mg/Kg	ND	0.14	ND	0.016	ND	0.34 J
	Total PAHs	**--**	**--**	**mg/Kg**	**ND**	**0.861**	**ND**	**0.045**	**ND**	**4.843**
	Total SVOCs	**--**	**--**	**mg/Kg**	**0.2**	**1.092**	**0.13**	**0.045**	**0.021**	**4.953**

Notes:
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CAS NO.	COMPOUND			UNITS:						
	INORGANICS									
7429-90-5	Aluminum	--	--	mg/Kg	4400 J	5900 J	5200 J	5100 J	4900 J	3620
7440-36-0	Antimony	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
7440-38-2	Arsenic	13	16	mg/Kg	1.3 J	2.2 J	1.7 J	1.5 J	2.1 J	0.696 J
7440-39-3	Barium	350	400	mg/Kg	49 J	49 J	76 J	44 J	45 J	21.2
7440-41-7	Beryllium	7.2	590	mg/Kg	ND	ND	ND	ND	0.46 J	0.211 J
7440-43-9	Cadmium	2.5	9.3	mg/Kg	ND	ND	ND	ND	ND	ND
7440-70-2	Calcium	--	--	mg/Kg	1200 J	15000 J	1300 J	2200 J	3200 J	619
7440-47-3	Chromium	--	--	mg/Kg	10 J	12 J	24 J	12 J	18 J	9.14
7440-48-4	Cobalt	--	--	mg/Kg	3.9 J	3.2 J	3.9 J	2.8 J	5.5 J	3.4
7440-50-8	Copper	50	270	mg/Kg	7.5 J	110 J	16 J	13 J	13 J	6.25 J
7439-89-6	Iron	--	--	mg/Kg	11000 J	11000 J	11000 J	14000 J	20000 J	6320
7439-92-1	Lead	63	1,000	mg/Kg	4.6 J	38 J	3.4 J	29 J	6.3 J	3.19 J
7439-95-4	Magnesium	--	--	mg/Kg	1500 J	2400 J	3100 J	1400 J	3500 J	1390
7439-96-5	Manganese	1,600	10,000	mg/Kg	180 J	100 J	160 J	130 J	200 J	336 J
7439-97-6	Mercury	0.18	2.8	mg/Kg	ND	0.09 J	0.023 J	0.19	ND	ND
7440-02-0	Nickel	30	310	mg/Kg	10 J	7.9 J	7.2 J	7.3 J	10 J	9.35
7440-09-7	Potassium	--	--	mg/Kg	930 J	820 J	1800 J	550 J	1000 J	609
7782-49-2	Selenium	3.9	1,500	mg/Kg	ND	ND	ND	ND	ND	ND
7440-22-4	Silver	2	1,500	mg/Kg	ND	ND	ND	ND	ND	ND
7440-23-5	Sodium	--	--	mg/Kg	ND	ND	ND	330 J	180 J	173
7440-28-0	Thallium	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
7440-62-2	Vanadium	--	--	mg/Kg	14 J	12 J	19 J	12 J	20 J	9.91 J
7440-66-6	Zinc	109	10,000	mg/Kg	17 J	44 J	17 J	30 J	25 J	13.4 J
57-12-5	Cyanide	27	27	mg/Kg	ND	19	6.5	ND	5.8	ND

Notes:
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CAS NO.	COMPOUND			UNITS:						
	VOLATILES									
67-64-1	Acetone	0.05	500	mg/Kg	ND	ND	ND	0.066 J	0.036 J	0.066 J
71-43-2	Benzene	0.06	44	mg/Kg	ND	ND	ND	ND	ND	ND
75-27-4	Bromodichloromethane	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
78-93-3	2-Butanone	0.12	500	mg/Kg	ND	ND	ND	ND	ND	ND
75-65-0	tert-Butyl Alcohol	--	--	mg/Kg	NA	NA	NA	NA	NA	NA
104-51-8	n-Butylbenzene	12	500	mg/Kg	NA	NA	NA	NA	NA	NA
135-98-8	sec-Butylbenzene	11	500	mg/Kg	NA	NA	NA	NA	NA	NA
98-06-6	tert-Butylbenzene	5.9	500	mg/Kg	NA	NA	NA	NA	NA	NA
75-15-0	Carbon Disulfide	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
110-82-7	Cyclohexane	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
124-48-1	Dibromochloromethane	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
75-35-4	1,1-Dichloroethene	0.33	500	mg/Kg	ND	ND	ND	ND	ND	ND
107-06-2	1,2-Dichloroethane	0.02	30	mg/Kg	ND	ND	ND	ND	ND	ND
10061-01-5	cis-1,3-Dichloropropene	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
100-41-4	Ethyl Benzene	1	390	mg/Kg	0.42	ND	ND	ND	ND	ND
591-78-6	2-Hexanone	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
98-82-8	Isopropylbenzene	--	--	mg/Kg	0.041	ND	ND	ND	ND	ND
108-10-1	4-Methyl-2-Pentanone	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
1634-04-4	Methyl tert-butyl Ether	0.93	500	mg/Kg	ND	ND	ND	ND	ND	ND
108-87-2	Methylcyclohexane	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
75-09-2	Methylene Chloride	0.05	500	mg/Kg	ND	ND	ND	ND	ND	ND
91-20-3	Naphthalene	12	500	mg/Kg	NA	NA	NA	NA	NA	NA
100-42-5	Styrene	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
79-00-5	1,1,2-Trichloroethane	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
79-34-5	1,1,2,2-Tetrachloroethane	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
127-18-4	Tetrachloroethene	1.3	150	mg/Kg	ND	ND	ND	ND	ND	ND
108-88-3	Toluene	0.7	500	mg/Kg	ND	ND	ND	ND	ND	ND
95-63-6	1,2,4-Trimethylbenzene	3.6	190	mg/Kg	NA	NA	NA	NA	NA	NA
108-67-8	1,3,5-Trimethylbenzene	8.4	190	mg/Kg	NA	NA	NA	NA	NA	NA
136777-61-2	m/p-Xylenes	0.26	500	mg/Kg	0.3	ND	ND	ND	ND	ND
1330-20-7	o-Xylene	0.26		mg/Kg	0.2	ND	ND	ND	ND	ND
	Total VOCs				**0.961**	**ND**	**ND**	**0.066**	**0.036**	**0.066**

Notes:
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CAS NO.	COMPOUND			UNITS:						
	SEMIVOLATILES									
98-86-2	Acetophenone	--	--	mg/Kg	ND	ND	ND	NA	NA	NA
92-52-4	1,1-Biphenyl	--	--	mg/Kg	5.8	ND	ND	NA	NA	NA
117-81-7	Bis(2-ethylhexyl)phthalate	--	--	mg/Kg	ND	ND	ND	NA	NA	NA
86-74-8	Carbazole	--	--	mg/Kg	0.077 J	ND	ND	NA	NA	NA
132-64-9	Dibenzofuran	7	350	mg/Kg	0.55	ND	ND	NA	NA	NA
105-67-9	2,4-Dimethylphenol	--	--	mg/Kg	ND	ND	ND	NA	NA	NA
84-74-2	Di-n-butylphthalate	--	--	mg/Kg	ND	ND	ND	NA	NA	NA
117-84-0	Di-n-octyl phthalate	--	--	mg/Kg	ND	ND	ND	NA	NA	NA
106-44-5	3+4-Methylphenols	0.33	500	mg/Kg	ND	ND	ND	NA	NA	NA
86-30-6	N-Nitrosodiphenylamine	--	--	mg/Kg	ND	ND	ND	NA	NA	NA
108-95-2	Phenol	0.33	500	mg/Kg	ND	ND	ND	NA	NA	NA
	PAHs									
83-32-9	Acenaphthene	20	500	mg/Kg	19	ND	ND	NA	NA	NA
208-96-8	Acenaphthylene	100	500	mg/Kg	2.7	ND	ND	NA	NA	NA
120-12-7	Anthracene	100	500	mg/Kg	8.9	ND	ND	NA	NA	NA
120-12-7	Benzo(a)anthracene	1	5.6	mg/Kg	**6.4**	ND	ND	NA	NA	NA
50-32-8	Benzo(a)pyrene	1	1	mg/Kg	**4.3**	ND	ND	NA	NA	NA
205-99-2	Benzo(b)fluoranthene	1	5.6	mg/Kg	3.5	ND	ND	NA	NA	NA
191-24-2	Benzo(g,h,i)perylene	100	500	mg/Kg	1.9	ND	ND	NA	NA	NA
207-08-9	Benzo(k)fluoranthene	0.8	56	mg/Kg	1.1	ND	ND	NA	NA	NA
218-01-9	Chrysene	1	56	mg/Kg	5.7	ND	ND	NA	NA	NA
53-70-3	Dibenz(a,h)anthracene	0.33	0.56	mg/Kg	**0.57**	ND	ND	NA	NA	NA
206-44-0	Fluoranthene	100	500	mg/Kg	10	ND	ND	NA	NA	NA
86-73-7	Fluorene	30	500	mg/Kg	9.8	ND	ND	NA	NA	NA
193-39-5	Indeno(1,2,3-cd)pyrene	0.5	5.6	mg/Kg	1.6	ND	ND	NA	NA	NA
91-57-6	2-Methylnaphthalene	--	--	mg/Kg	51	ND	ND	NA	NA	NA
91-20-3	Naphthalene	12	500	mg/Kg	130	ND	ND	NA	NA	NA
85-01-8	Phenanthrene	100	500	mg/Kg	29	ND	ND	NA	NA	NA
129-00-0	Pyrene	100	500	mg/Kg	14	ND	ND	NA	NA	NA
	Total PAHs	**--**	**--**	**mg/Kg**	**299.47**	**ND**	**ND**			
	Total SVOCs	**--**	**--**	**mg/Kg**	**305.897**	**ND**	**ND**			

Notes:
(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Programs (December 2006)
(2) -- indicates no cleanup objective or background level is available.
(3) NA indicates compound was not analyzed for.
(4) ND indicates compound was not detected.
(5) J indicates an estimated concentration.
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Table 3
Remedial Action Work Plan
West 45th Street Operable Unit 1 - Validated Subsurface Soil Analytical Data
Detected Compound Summary

Consolidated Edison W 45th Street Validated Soil Analytical Data Detected Compound Summary		6 NYCRR Part 375 Unrestricted Use Soil Cleanup Objectives 12/14/2006	6 NYCRR Part 375 Restricted Soil Cleanup Objectives Commercial Use 12/14/2006	Sample ID: Lab Sample Id: Depth: Source: SDG: Matrix: Sampled: Validated:	SB-52 (14-16) Z1659-02 14-16' Chemtech Z1659 SOIL 2/23/2008 4/10/2008	SB-53 (15-17) Z1796-01 15-17' Chemtech Z1796 SOIL 3/1/2008 4/11/2008	SB-53 (17-19) Z1796-02 17-19' Chemtech Z1796 SOIL 3/1/2008 4/11/2008	SB-54(7-9) Y2489-03 7-9' Chemtech Y2489 SOIL 4/26/2007 6/20/2007	SB-54(9-11) Y2489-04 9-11' Chemtech Y2489 SOIL 4/26/2007 6/20/2007	SB-56(7-9) Y2531-02 7-9' Chemtech Y2531 SOIL 4/30/2007 6/22/2007
CAS NO.	COMPOUND			UNITS:						
	INORGANICS									
7429-90-5	Aluminum	--	--	mg/Kg	3090	6030	5920	NA	NA	NA
7440-36-0	Antimony	--	--	mg/Kg	ND	0.49 J	1.1 J	NA	NA	NA
7440-38-2	Arsenic	13	16	mg/Kg	1.03	ND	0.45 J	NA	NA	NA
7440-39-3	Barium	350	400	mg/Kg	20.7	54.4	81.1	NA	NA	NA
7440-41-7	Beryllium	7.2	590	mg/Kg	0.173 J	0.44	0.44	NA	NA	NA
7440-43-9	Cadmium	2.5	9.3	mg/Kg	ND	ND	ND	NA	NA	NA
7440-70-2	Calcium	--	--	mg/Kg	670	785 J	1440 J	NA	NA	NA
7440-47-3	Chromium	--	--	mg/Kg	6.48	19.3 J	15.6 J	NA	NA	NA
7440-48-4	Cobalt	--	--	mg/Kg	2.57	4.2 J	7 J	NA	NA	NA
7440-50-8	Copper	50	270	mg/Kg	6.35 J	40.9	49.5	NA	NA	NA
7439-89-6	Iron	--	--	mg/Kg	5240	10900 J	14000 J	NA	NA	NA
7439-92-1	Lead	63	1,000	mg/Kg	2.59 J	4.8 J	5.6 J	NA	NA	NA
7439-95-4	Magnesium	--	--	mg/Kg	1110	2090 J	2520 J	NA	NA	NA
7439-96-5	Manganese	1,600	10,000	mg/Kg	345 J	110 J	522 J	NA	NA	NA
7439-97-6	Mercury	0.18	2.8	mg/Kg	ND	ND	0.005 J	NA	NA	NA
7440-02-0	Nickel	30	310	mg/Kg	8.15	11.3 J	15.9 J	NA	NA	NA
7440-09-7	Potassium	--	--	mg/Kg	607	1350	1580	NA	NA	NA
7782-49-2	Selenium	3.9	1,500	mg/Kg	ND	0.53 J	ND	NA	NA	NA
7440-22-4	Silver	2	1,500	mg/Kg	ND	ND	ND	NA	NA	NA
7440-23-5	Sodium	--	--	mg/Kg	178	346 J	325 J	NA	NA	NA
7440-28-0	Thallium	--	--	mg/Kg	ND	ND	ND	NA	NA	NA
7440-62-2	Vanadium	--	--	mg/Kg	7.85 J	20.8	23.6	NA	NA	NA
7440-66-6	Zinc	109	10,000	mg/Kg	11.6 J	19.8 J	28.1 J	NA	NA	NA
57-12-5	Cyanide	27	27	mg/Kg	ND	ND	ND	NA	NA	NA

Notes:
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West 45th Street Operable Unit 1 - Validated Subsurface Soil Analytical Data
Detected Compound Summary

Consolidated Edison W 45th Street Validated Soil Analytical Data Detected Compound Summary		6 NYCRR Part 375 Unrestricted Use Soil Cleanup Objectives 12/14/2006	6 NYCRR Part 375 Restricted Soil Cleanup Objectives Commercial Use 12/14/2006	Sample ID: Lab Sample Id: Depth: Source: SDG: Matrix: Sampled: Validated:	SB-57(7-9) Y2531-06 7-9' Chemtech Y2531 SOIL 5/1/2007 6/22/2007	SB-57(11-13) Y2531-07 11-13' Chemtech Y2531 SOIL 5/1/2007 6/22/2007	SB-58(7-9) Y2633-08 7-9' Chemtech Y2633 SOIL 5/8/2007 6/24/2007	SB-58(11-13) Y2633-09 11-13' Chemtech Y2633 SOIL 5/8/2007 6/24/2007	TP-2(3-7) X1647-09 3-7' Chemtech X1647 SOIL 2/25/2006 5/3/2006	TP-2(7) X1647-08 7' Chemtech X1647 SOIL 2/25/2006 5/3/2006
CAS NO.	COMPOUND			UNITS:						
	VOLATILES									
67-64-1	Acetone	0.05	500	mg/Kg	ND	ND	ND	ND	ND	ND
71-43-2	Benzene	0.06	44	mg/Kg	ND	ND	ND	ND	ND	ND
75-27-4	Bromodichloromethane	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
78-93-3	2-Butanone	0.12	500	mg/Kg	ND	ND	ND	ND	ND	ND
75-65-0	tert-Butyl Alcohol	--	--	mg/Kg	NA	NA	NA	NA	NA	NA
104-51-8	n-Butylbenzene	12	500	mg/Kg	NA	NA	NA	NA	NA	NA
135-98-8	sec-Butylbenzene	11	500	mg/Kg	NA	NA	NA	NA	NA	NA
98-06-6	tert-Butylbenzene	5.9	500	mg/Kg	NA	NA	NA	NA	NA	NA
75-15-0	Carbon Disulfide	--	--	mg/Kg	0.023 J	0.023 J	ND	ND	ND	ND
110-82-7	Cyclohexane	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
124-48-1	Dibromochloromethane	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
75-35-4	1,1-Dichloroethene	0.33	500	mg/Kg	ND	ND	ND	ND	ND	ND
107-06-2	1,2-Dichloroethane	0.02	30	mg/Kg	ND	ND	ND	ND	ND	ND
10061-01-5	cis-1,3-Dichloropropene	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
100-41-4	Ethyl Benzene	1	390	mg/Kg	ND	ND	ND	ND	ND	ND
591-78-6	2-Hexanone	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
98-82-8	Isopropylbenzene	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
108-10-1	4-Methyl-2-Pentanone	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
1634-04-4	Methyl tert-butyl Ether	0.93	500	mg/Kg	ND	ND	ND	ND	ND	ND
108-87-2	Methylcyclohexane	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
75-09-2	Methylene Chloride	0.05	500	mg/Kg	ND	ND	ND	ND	ND	ND
91-20-3	Naphthalene	12	500	mg/Kg	NA	NA	NA	NA	NA	NA
100-42-5	Styrene	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
79-00-5	1,1,2-Trichloroethane	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
79-34-5	1,1,2,2-Tetrachloroethane	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
127-18-4	Tetrachloroethene	1.3	150	mg/Kg	ND	ND	ND	ND	ND	ND
108-88-3	Toluene	0.7	500	mg/Kg	ND	ND	ND	ND	ND	ND
95-63-6	1,2,4-Trimethylbenzene	3.6	190	mg/Kg	NA	NA	NA	NA	NA	NA
108-67-8	1,3,5-Trimethylbenzene	8.4	190	mg/Kg	NA	NA	NA	NA	NA	NA
136777-61-2	m/p-Xylenes	0.26	500	mg/Kg	ND	ND	ND	ND	ND	ND
1330-20-7	o-Xylene	0.26		mg/Kg	ND	ND	ND	ND	ND	ND
	Total VOCs				**0.023**	**0.023**	**ND**	**ND**	**ND**	**ND**

Notes:
(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Programs (December 2006)
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CAS NO.	COMPOUND			UNITS:						
	SEMIVOLATILES									
98-86-2	Acetophenone	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
92-52-4	1,1-Biphenyl	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
117-81-7	Bis(2-ethylhexyl)phthalate	--	--	mg/Kg	ND	ND	0.35 J	ND	ND	ND
86-74-8	Carbazole	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
132-64-9	Dibenzofuran	7	350	mg/Kg	ND	ND	ND	ND	ND	0.059 J
105-67-9	2,4-Dimethylphenol	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
84-74-2	Di-n-butylphthalate	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
117-84-0	Di-n-octyl phthalate	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
106-44-5	3+4-Methylphenols	0.33	500	mg/Kg	ND	ND	ND	ND	ND	ND
86-30-6	N-Nitrosodiphenylamine	--	--	mg/Kg	ND	ND	ND	ND	ND	ND
108-95-2	Phenol	0.33	500	mg/Kg	ND	ND	ND	ND	ND	ND
	PAHs									
83-32-9	Acenaphthene	20	500	mg/Kg	ND	ND	ND	ND	ND	0.069 J
208-96-8	Acenaphthylene	100	500	mg/Kg	ND	ND	ND	ND	0.06 J	0.083 J
120-12-7	Anthracene	100	500	mg/Kg	ND	ND	ND	ND	0.13 J	0.23 J
120-12-7	Benzo(a)anthracene	1	5.6	mg/Kg	ND	ND	ND	ND	0.58	0.95
50-32-8	Benzo(a)pyrene	1	1	mg/Kg	ND	ND	ND	ND	0.63	0.96
205-99-2	Benzo(b)fluoranthene	1	5.6	mg/Kg	0.075 J	ND	ND	ND	0.95	1.3
191-24-2	Benzo(g,h,i)perylene	100	500	mg/Kg	ND	ND	ND	ND	0.14 J	0.17 J
207-08-9	Benzo(k)fluoranthene	0.8	56	mg/Kg	ND	ND	ND	ND	0.34 J	0.57
218-01-9	Chrysene	1	56	mg/Kg	ND	ND	ND	ND	0.6	0.98
53-70-3	Dibenz(a,h)anthracene	0.33	0.56	mg/Kg	ND	ND	ND	ND	ND	ND
206-44-0	Fluoranthene	100	500	mg/Kg	ND	ND	ND	ND	1.2 J	1.6 J
86-73-7	Fluorene	30	500	mg/Kg	ND	ND	ND	ND	ND	0.077 J
193-39-5	Indeno(1,2,3-cd)pyrene	0.5	5.6	mg/Kg	ND	ND	ND	ND	0.15 J	0.24 J
91-57-6	2-Methylnaphthalene	--	--	mg/Kg	ND	ND	0.17 J	ND	ND	0.082 J
91-20-3	Naphthalene	12	500	mg/Kg	ND	ND	ND	ND	ND	0.2 J
85-01-8	Phenanthrene	100	500	mg/Kg	ND	ND	0.14 J	ND	0.56	1.1
129-00-0	Pyrene	100	500	mg/Kg	0.13 J	ND	ND	ND	1.1	1.7
	Total PAHs	**--**	**--**	**mg/Kg**	**0.205**	**ND**	**0.31**	**ND**	**6.44**	**10.311**
	Total SVOCs	**--**	**--**	**mg/Kg**	**0.205**	**ND**	**0.66**	**ND**	**6.44**	**10.37**

Notes:
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Remedial Action Work Plan
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Detected Compound Summary

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CAS NO.	COMPOUND			UNITS:						
	INORGANICS									
7429-90-5	Aluminum	--	--	mg/Kg	10100	11500	12600	28200	9070	9470
7440-36-0	Antimony	--	--	mg/Kg	ND	ND	ND	ND	R	2.25 J
7440-38-2	Arsenic	13	16	mg/Kg	9.36	**27.2**	2.86	0.4 J	4.13	3.36
7440-39-3	Barium	350	400	mg/Kg	166	376	179 J	245 J	143	128
7440-41-7	Beryllium	7.2	590	mg/Kg	0.538 J	0.654	0.376	0.504	0.429 J	0.411 J
7440-43-9	Cadmium	2.5	9.3	mg/Kg	2.96	3.65	ND	0.584	0.534 J	0.559
7440-70-2	Calcium	--	--	mg/Kg	14800	1700	2720	2390	10900	12000
7440-47-3	Chromium	--	--	mg/Kg	80.3	133	27.2 J	56 J	17.9	17.9
7440-48-4	Cobalt	--	--	mg/Kg	10.1	8.91	12.6	27.6	10.2 J	9.75 J
7440-50-8	Copper	50	270	mg/Kg	97.3 J	**398 J**	33.9	76.7	67.7	55.1
7439-89-6	Iron	--	--	mg/Kg	23900	17600	23300	54100	15600	14600
7439-92-1	Lead	63	1,000	mg/Kg	157	568	46.5	13	148	317
7439-95-4	Magnesium	--	--	mg/Kg	5610	5190	4840	11100	4850	5310
7439-96-5	Manganese	1,600	10,000	mg/Kg	330	195	372	615	280	208
7439-97-6	Mercury	0.18	2.8	mg/Kg	1.3 J	**3.2 J**	0.079	0.02	1.1 J	0.923 J
7440-02-0	Nickel	30	310	mg/Kg	22.8	36.6	19.1	28.4	21.8 J	21 J
7440-09-7	Potassium	--	--	mg/Kg	4660	4010	4150	8540	4920 J	4720 J
7782-49-2	Selenium	3.9	1,500	mg/Kg	0.682 J	3.63	ND	ND	ND	ND
7440-22-4	Silver	2	1,500	mg/Kg	21.9	83.3	ND	ND	ND	ND
7440-23-5	Sodium	--	--	mg/Kg	1260	3500	385 J	957 J	636 J	602 J
7440-28-0	Thallium	--	--	mg/Kg	ND	ND	ND	ND	0.829 J	ND
7440-62-2	Vanadium	--	--	mg/Kg	48.6	48.5	50.2	157	28.8	26.3
7440-66-6	Zinc	109	10,000	mg/Kg	209	763	62.5	105	175 J	150 J
57-12-5	Cyanide	27	27	mg/Kg	ND	ND	ND	0.617	ND	ND

Notes:
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CAS NO.	COMPOUND			UNITS:		
	VOLATILES					
67-64-1	Acetone	0.05	500	mg/Kg	ND	ND
71-43-2	Benzene	0.06	44	mg/Kg	ND	0.0028 J
75-27-4	Bromodichloromethane	--	--	mg/Kg	ND	ND
78-93-3	2-Butanone	0.12	500	mg/Kg	ND	ND
75-65-0	tert-Butyl Alcohol	--	--	mg/Kg	NA	NA
104-51-8	n-Butylbenzene	12	500	mg/Kg	NA	NA
135-98-8	sec-Butylbenzene	11	500	mg/Kg	NA	NA
98-06-6	tert-Butylbenzene	5.9	500	mg/Kg	NA	NA
75-15-0	Carbon Disulfide	--	--	mg/Kg	ND	ND
110-82-7	Cyclohexane	--	--	mg/Kg	ND	ND
124-48-1	Dibromochloromethane	--	--	mg/Kg	ND	ND
75-35-4	1,1-Dichloroethene	0.33	500	mg/Kg	ND	ND
107-06-2	1,2-Dichloroethane	0.02	30	mg/Kg	ND	ND
10061-01-5	cis-1,3-Dichloropropene	--	--	mg/Kg	ND	ND
100-41-4	Ethyl Benzene	1	390	mg/Kg	ND	ND
591-78-6	2-Hexanone	--	--	mg/Kg	ND	ND
98-82-8	Isopropylbenzene	--	--	mg/Kg	ND	ND
108-10-1	4-Methyl-2-Pentanone	--	--	mg/Kg	ND	ND
1634-04-4	Methyl tert-butyl Ether	0.93	500	mg/Kg	ND	ND
108-87-2	Methylcyclohexane	--	--	mg/Kg	ND	ND
75-09-2	Methylene Chloride	0.05	500	mg/Kg	ND	ND
91-20-3	Naphthalene	12	500	mg/Kg	NA	NA
100-42-5	Styrene	--	--	mg/Kg	ND	ND
79-00-5	1,1,2-Trichloroethane	--	--	mg/Kg	ND	ND
79-34-5	1,1,2,2-Tetrachloroethane	--	--	mg/Kg	ND	ND
127-18-4	Tetrachloroethene	1.3	150	mg/Kg	ND	ND
108-88-3	Toluene	0.7	500	mg/Kg	ND	ND
95-63-6	1,2,4-Trimethylbenzene	3.6	190	mg/Kg	NA	NA
108-67-8	1,3,5-Trimethylbenzene	8.4	190	mg/Kg	NA	NA
136777-61-2	m/p-Xylenes	0.26	500	mg/Kg	ND	ND
1330-20-7	o-Xylene	0.26		mg/Kg	ND	ND
	Total VOCs				**ND**	**0.0028**

Notes:
(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Programs (December 2006)
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CAS NO.	COMPOUND			UNITS:		
	SEMIVOLATILES					
98-86-2	Acetophenone	--	--	mg/Kg	ND	ND
92-52-4	1,1-Biphenyl	--	--	mg/Kg	ND	ND
117-81-7	Bis(2-ethylhexyl)phthalate	--	--	mg/Kg	ND	ND
86-74-8	Carbazole	--	--	mg/Kg	ND	ND
132-64-9	Dibenzofuran	7	350	mg/Kg	ND	ND
105-67-9	2,4-Dimethylphenol	--	--	mg/Kg	ND	ND
84-74-2	Di-n-butylphthalate	--	--	mg/Kg	ND	ND
117-84-0	Di-n-octyl phthalate	--	--	mg/Kg	ND	ND
106-44-5	3+4-Methylphenols	0.33	500	mg/Kg	ND	ND
86-30-6	N-Nitrosodiphenylamine	--	--	mg/Kg	ND	ND
108-95-2	Phenol	0.33	500	mg/Kg	ND	ND
	PAHs					
83-32-9	Acenaphthene	20	500	mg/Kg	ND	ND
208-96-8	Acenaphthylene	100	500	mg/Kg	ND	ND
120-12-7	Anthracene	100	500	mg/Kg	ND	0.11 J
120-12-7	Benzo(a)anthracene	1	5.6	mg/Kg	0.096 J	0.2 J
50-32-8	Benzo(a)pyrene	1	1	mg/Kg	0.12 J	0.19 J
205-99-2	Benzo(b)fluoranthene	1	5.6	mg/Kg	0.15 J	0.2 J
191-24-2	Benzo(g,h,i)perylene	100	500	mg/Kg	0.065 J	0.085 J
207-08-9	Benzo(k)fluoranthene	0.8	56	mg/Kg	ND	ND
218-01-9	Chrysene	1	56	mg/Kg	0.16 J	0.21 J
53-70-3	Dibenz(a,h)anthracene	0.33	0.56	mg/Kg	ND	ND
206-44-0	Fluoranthene	100	500	mg/Kg	0.1 J	0.27 J
86-73-7	Fluorene	30	500	mg/Kg	ND	ND
193-39-5	Indeno(1,2,3-cd)pyrene	0.5	5.6	mg/Kg	0.26 J	0.28 J
91-57-6	2-Methylnaphthalene	--	--	mg/Kg	ND	ND
91-20-3	Naphthalene	12	500	mg/Kg	0.069 J	ND
85-01-8	Phenanthrene	100	500	mg/Kg	0.091 J	0.4
129-00-0	Pyrene	100	500	mg/Kg	0.21 J	0.52
	Total PAHs	**--**	**--**	**mg/Kg**	**1.321**	**2.465**
	Total SVOCs	**--**	**--**	**mg/Kg**	**1.321**	**2.465**

Notes:
(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Programs (December 2006)
(2) -- indicates no cleanup objective or background level is available.
(3) NA indicates compound was not analyzed for.
(4) ND indicates compound was not detected.
(5) J indicates an estimated concentration.
(6) R indicates a rejected value.
(7) Shaded values exceed 6 NYCRR Part 375 Unrestricted Soil Cleanup Objectives.
(8) **Bold** and boxed values exceed 6 NYCRR Part 375 Restricted Soil Cleanup Objectives for Commercial Use.

Table 3
Remedial Action Work Plan
West 45th Street Operable Unit 1 - Validated Subsurface Soil Analytical Data
Detected Compound Summary

Consolidated Edison W 45th Street Validated Soil Analytical Data Detected Compound Summary		6 NYCRR Part 375 Unrestricted Use Soil Cleanup Objectives 12/14/2006	6 NYCRR Part 375 Restricted Soil Cleanup Objectives Commercial Use 12/14/2006	Sample ID: Lab Sample Id: Depth: Source: SDG: Matrix: Sampled: Validated:	TP-3(5-10) X1647-07 5-10' Chemtech X1647 SOIL 2/24/2006 5/3/2006	TP-3(10) X1647-06 10' Chemtech X1647 SOIL 2/24/2006 5/3/2006
CAS NO.	COMPOUND			UNITS:		
	INORGANICS					
7429-90-5	Aluminum	--	--	mg/Kg	20200	22700
7440-36-0	Antimony	--	--	mg/Kg	8.37 J	10.5 J
7440-38-2	Arsenic	13	16	mg/Kg	2.5	1.32
7440-39-3	Barium	350	400	mg/Kg	316	317
7440-41-7	Beryllium	7.2	590	mg/Kg	0.751	0.821
7440-43-9	Cadmium	2.5	9.3	mg/Kg	0.618	0.265 J
7440-70-2	Calcium	--	--	mg/Kg	3070	3520
7440-47-3	Chromium	--	--	mg/Kg	51	58.7
7440-48-4	Cobalt	--	--	mg/Kg	23.8 J	23.1 J
7440-50-8	Copper	50	270	mg/Kg	53.1	67.3
7439-89-6	Iron	--	--	mg/Kg	28300	28800
7439-92-1	Lead	63	1,000	mg/Kg	175	23.7
7439-95-4	Magnesium	--	--	mg/Kg	14100	16600
7439-96-5	Manganese	1,600	10,000	mg/Kg	562	411
7439-97-6	Mercury	0.18	2.8	mg/Kg	0.623 J	0.826 J
7440-02-0	Nickel	30	310	mg/Kg	43.7 J	44.4 J
7440-09-7	Potassium	--	--	mg/Kg	13800 J	13900 J
7782-49-2	Selenium	3.9	1,500	mg/Kg	ND	ND
7440-22-4	Silver	2	1,500	mg/Kg	ND	ND
7440-23-5	Sodium	--	--	mg/Kg	990 J	777 J
7440-28-0	Thallium	--	--	mg/Kg	0.645 J	0.697 J
7440-62-2	Vanadium	--	--	mg/Kg	61.4	70.1
7440-66-6	Zinc	109	10,000	mg/Kg	240 J	105 J
57-12-5	Cyanide	27	27	mg/Kg	0.713	ND

Notes:
(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Programs (December 2006)
(2) -- indicates no cleanup objective or background level is available.
(3) NA indicates compound was not analyzed for.
(4) ND indicates compound was not detected.
(5) J indicates an estimated concentration.
(6) R indicates a rejected value.
(7) Shaded values exceed 6 NYCRR Part 375 Unrestricted Soil Cleanup Objectives.
(8) **Bold** and boxed values exceed 6 NYCRR Part 375 Restricted Soil Cleanup Objectives for Commercial Use.

Table 4
Remedial Action Work Plan
West 45th Street Operable Unit 1 - Validated Groundwater Analytical Data
Detected Compound Summary
May 2007 Sampling Event

Consolidated Edison W 45th Street Validated Groundwater Analytical Data Detected Compound Summary		NYSDEC Class GA Groundwater Standards/Guidance Values [1]	Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	MW- 2 Y2831-02 Chemtech Y2831 WATER 5/22/2007 6/26/2007	MW- 5 Y2831-01 Chemtech Y2831 WATER 5/22/2007 6/26/2007	MW- 7 Y2690-04 Chemtech Y2690 WATER 5/10/2007 6/25/2007	MW- 8 Y2831-06 Chemtech Y2831 WATER 5/22/2007 6/26/2007	MW- 9 Y2831-05 Chemtech Y2831 WATER 5/22/2007 6/26/2007	MW-10 Y2690-01 Chemtech Y2690 WATER 5/10/2007 6/25/2007
CAS NO.	COMPOUND		UNITS:						
	VOLATILES								
67-64-1	Acetone	50 (G)	ug/L	ND	36	R	ND	ND	R
71-43-2	Benzene	1	ug/L	ND	260	94	1100	4000	2300
78-93-3	2-Butanone	50 (G)	ug/L	ND	ND	ND	ND	ND	ND
75-15-0	Carbon Disulfide	--	ug/L	ND	1.4 J	ND	ND	1.2 J	ND
110-82-7	Cyclohexane	--	ug/L	ND	1.1 J	ND	1.8 J	2.4 J	2 J
100-41-4	Ethyl Benzene	5	ug/L	ND	250	260	330	2100	17
98-82-8	Isopropylbenzene	5	ug/L	ND	32	15	29	71	49
1634-04-4	Methyl tert-butyl Ether	--	ug/L	ND	3.1 J	ND	ND	35	28
108-87-2	Methylcyclohexane	--	ug/L	ND	1.6 J	ND	3.8 J	ND	1.7 J
100-42-5	Styrene	5	ug/L	ND	3.7 J	1.8 J	1.4 J	3 J	ND
108-88-3	Toluene	5	ug/L	ND	110	160	150	170	2.4 J
136777-61-2	m/p-Xylenes	5	ug/L	ND	150	150	250	1200	15
1330-20-7	o-Xylene	5	ug/L	ND	90	180	110	840	13
	Total VOCs	**--**		**ND**	**938.9**	**860.8**	**1976**	**8422.6**	**2428.1**

Notes:
(1) NYSDEC TOGS 1.1.1 Ambient Water Quality Standards and Guidance Values (October 1998).
(2) -- indicates no standard or guidance value is available.
(3) (G) indicates guidance value.
(4) NA indicates compound was not analyzed for.
(5) ND indicated compound was not detected.
(6) J indicates an estimated concentration.
(7) R indicates result was rejected based on validation.
(8) Shaded values exceed NYSDEC Class GA Groundwater Standards and Guidance Values.

Table 4
Remedial Action Work Plan
West 45th Street Operable Unit 1 - Validated Groundwater Analytical Data
Detected Compound Summary
May 2007 Sampling Event

Consolidated Edison W 45th Street Validated Groundwater Analytical Data Detected Compound Summary		NYSDEC Class GA Groundwater Standards/Guidance Values [1]	Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	MW- 2 Y2831-02 Chemtech Y2831 WATER 5/22/2007 6/26/2007	MW- 5 Y2831-01 Chemtech Y2831 WATER 5/22/2007 6/26/2007	MW- 7 Y2690-04 Chemtech Y2690 WATER 5/10/2007 6/25/2007	MW- 8 Y2831-06 Chemtech Y2831 WATER 5/22/2007 6/26/2007	MW- 9 Y2831-05 Chemtech Y2831 WATER 5/22/2007 6/26/2007	MW-10 Y2690-01 Chemtech Y2690 WATER 5/10/2007 6/25/2007
CAS NO.	COMPOUND		UNITS:						
	SEMIVOLATILES								
98-86-2	Acetophenone	--	ug/L	ND	ND	8.1 J	ND	7.2 J	ND
100-52-7	Benzaldehyde	--	ug/L	ND	ND	25	ND	ND	ND
92-52-4	1,1-Biphenyl	5	ug/L	ND	6.5 J	10	1.6 J	39	ND
117-81-7	Bis(2-ethylhexyl)phthalate	5	ug/L	ND	ND	ND	ND	ND	ND
86-74-8	Carbazole	--	ug/L	ND	ND	2.6 J	ND	4.4 J	2.2 J
132-64-9	Dibenzofuran	--	ug/L	1.7 J	ND	1.8 J	ND	4 J	1.3 J
105-67-9	2,4-Dimethylphenol	50 (G)	ug/L	ND	ND	ND	ND	ND	ND
50-32-8	2-Methylphenol	1	ug/L	ND	ND	ND	ND	ND	ND
87-86-5	3+4-Methylphenols	1	ug/L	ND	ND	ND	ND	ND	ND
87-86-5	Pentachlorophenol	1	ug/L	ND	ND	ND	13	ND	ND
108-95-2	Phenol	1	ug/L	ND	ND	ND	ND	ND	ND
	PAHs								
83-32-9	Acenaphthene	20 (G)	ug/L	36	16	27	2.5 J	110	84
208-96-8	Acenaphthylene	--	ug/L	5.9 J	3.5 J	6.6 J	ND	10 J	1.6 J
120-12-7	Anthracene	50 (G)	ug/L	ND	1.8 J	2.9 J	ND	6.7 J	ND
206-44-0	Fluoranthene	50 (G)	ug/L	ND	1.8 J	1.5 J	ND	2.7 J	ND
86-73-7	Fluorene	50 (G)	ug/L	2.2 J	11	13	1.5 J	37	11
91-57-6	2-Methylnaphthalene	--	ug/L	ND	45	170	29	520	98
91-20-3	Naphthalene	10 (G)	ug/L	ND	460	910	380	4400	15
85-01-8	Phenanthrene	50 (G)	ug/L	ND	13	17	2.5 J	38	9.1 J
129-00-0	Pyrene	50 (G)	ug/L	ND	2.8 J	2.7 J	ND	3.7 J	ND
	Total PAHs	**--**		**44.1**	**554.9**	**1150.7**	**415.5**	**5128.1**	**218.7**
	Total SVOCs	**--**		**45.8**	**561.4**	**1198.2**	**430.1**	**5182.7**	**222.2**

Notes:
(1) NYSDEC TOGS 1.1.1 Ambient Water Quality Standards and Guidance Values (October 1998).
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(4) NA indicates compound was not analyzed for.
(5) ND indicated compound was not detected.
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Table 4
Remedial Action Work Plan
West 45th Street Operable Unit 1 - Validated Groundwater Analytical Data
Detected Compound Summary
May 2007 Sampling Event

Consolidated Edison W 45th Street Validated Groundwater Analytical Data Detected Compound Summary		NYSDEC Class GA Groundwater Standards/Guidance Values [1]	Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	MW- 2 Y2831-02 Chemtech Y2831 WATER 5/22/2007 6/26/2007	MW- 5 Y2831-01 Chemtech Y2831 WATER 5/22/2007 6/26/2007	MW- 7 Y2690-04 Chemtech Y2690 WATER 5/10/2007 6/25/2007	MW- 8 Y2831-06 Chemtech Y2831 WATER 5/22/2007 6/26/2007	MW- 9 Y2831-05 Chemtech Y2831 WATER 5/22/2007 6/26/2007	MW-10 Y2690-01 Chemtech Y2690 WATER 5/10/2007 6/25/2007
CAS NO.	COMPOUND		UNITS:						
	INORGANICS								
7429-90-5	Aluminum	--	ug/L	202	2820	98.4	291	ND	2860
7440-36-0	Antimony	3	ug/L	ND	ND	ND	ND	ND	ND
7440-38-2	Arsenic	25	ug/L	ND	ND	15	ND	ND	3.21 J
7440-39-3	Barium	1000	ug/L	93.1	88.6	35.3 J	712	728	527
7440-70-2	Calcium	--	ug/L	66500	77400	199000	401000	231000	191000
7440-47-3	Chromium	50	ug/L	ND	6.47	2.56 J	ND	ND	7.18
7440-48-4	Cobalt	--	ug/L	ND	ND	ND	ND	ND	4.03 J
7440-50-8	Copper	200	ug/L	ND	20.9	4.59 J	ND	ND	7.15 J
7439-89-6	Iron	300	ug/L	2050	1530	437	16000	14100	19700
7439-92-1	Lead	25	ug/L	ND	8.49	ND	6.95	ND	10.1
7439-95-4	Magnesium	35000 (G)	ug/L	5180	286 J	772 J	65900	90600	52800
7439-96-5	Manganese	300	ug/L	395	22.4	11.2	1290	6430	8340
7439-97-6	Mercury	0.7	ug/L	ND	ND	ND	ND	ND	ND
7440-02-0	Nickel	100	ug/L	ND	11.5 J	7.05 J	ND	ND	4.75 J
7440-09-7	Potassium	--	ug/L	47700 J	22600 j	62400	70600 J	35700 J	34900
7782-49-2	Selenium	10	ug/L	ND	ND	4.79 J	ND	ND	ND
7440-22-4	Silver	50	ug/L	ND	ND	1.19 J	ND	ND	ND
7440-23-5	Sodium	20000	ug/L	89900	235000	1250000	319000	169000	203000
7440-62-2	Vanadium	--	ug/L	ND	14.9 J	14.4 J	ND	ND	9.52 J
7440-66-6	Zinc	2000 (G)	ug/L	35.1	65.7	39.1	39.7	31.5	64.4
57-12-5	Cyanide	200	ug/L	10 U	28	10 U	182	70	104
	DISSOLVED METALS								
7429-90-5	Aluminum	--	ug/L	17.2 U	NA	NA	NA	NA	NA
7440-39-3	Barium	1000	ug/L	68.6	NA	NA	NA	NA	NA
7440-70-2	Calcium	--	ug/L	61800	NA	NA	NA	NA	NA
7439-89-6	Iron	300	ug/L	807	NA	NA	NA	NA	NA
7439-95-4	Magnesium	35000 (G)	ug/L	4510	NA	NA	NA	NA	NA
7439-96-5	Manganese	300	ug/L	345	NA	NA	NA	NA	NA
7440-09-7	Potassium	--	ug/L	46400 J	NA	NA	NA	NA	NA
7440-23-5	Sodium	20000	ug/L	80100	NA	NA	NA	NA	NA
7440-66-6	Zinc	2000 (G)		25.8	NA	NA	NA	NA	NA

Notes:
(1) NYSDEC TOGS 1.1.1 Ambient Water Quality Standards and Guidance Values (October 1998).
(2) -- indicates no standard or guidance value is available.
(3) (G) indicates guidance value.
(4) NA indicates compound was not analyzed for.
(5) ND indicated compound was not detected.
(6) J indicates an estimated concentration.
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Table 4
Remedial Action Work Plan
West 45th Street Operable Unit 1 - Validated Groundwater Analytical Data
Detected Compound Summary
May 2007 Sampling Event

Consolidated Edison W 45th Street Validated Groundwater Analytical Data Detected Compound Summary		NYSDEC Class GA Groundwater Standards/Guidance Values [1]	Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	MW-100 Y2690-02 Chemtech Y2690 WATER 5/10/2007 6/25/2007	MW-11 Y2690-03 Chemtech Y2690 WATER 5/10/2007 6/25/2007	MW-16 Y2633-17 Chemtech Y2633 WATER 5/8/2007 6/24/2007	MW-19 Y2831-03 Chemtech Y2831 WATER 5/22/2007 6/26/2007	MW-20 Y2831-04 Chemtech Y2831 WATER 5/22/2007 6/26/2007	MW-55 Y2633-14 Chemtech Y2633 WATER 5/8/2007 6/24/2007
CAS NO.	COMPOUND		UNITS:						
	VOLATILES								
67-64-1	Acetone	50 (G)	ug/L	R	42 J	R	21 J	ND	R
71-43-2	Benzene	1	ug/L	2300	11	1.3 J	32000	4700	ND
78-93-3	2-Butanone	50 (G)	ug/L	ND	ND	ND	16 J	ND	ND
75-15-0	Carbon Disulfide	--	ug/L	ND	ND	ND	ND	ND	ND
110-82-7	Cyclohexane	--	ug/L	2.3 J	2 J	ND	2.9 J	1.1 J	ND
100-41-4	Ethyl Benzene	5	ug/L	18	ND	ND	8000	740	ND
98-82-8	Isopropylbenzene	5	ug/L	50	2.2 J	ND	94	64	ND
1634-04-4	Methyl tert-butyl Ether	--	ug/L	28	ND	ND	ND	ND	ND
108-87-2	Methylcyclohexane	--	ug/L	1.6 J	1.7 J	ND	ND	ND	ND
100-42-5	Styrene	5	ug/L	ND	ND	ND	28	1.8 J	ND
108-88-3	Toluene	5	ug/L	2.1 J	1.2 J	ND	13000	56	ND
136777-61-2	m/p-Xylenes	5	ug/L	15	ND	ND	6800	130	ND
1330-20-7	o-Xylene	5	ug/L	13	1 J	ND	3000	210	ND
	Total VOCs	**--**		**2430**	**61.1**	**1.3**	**62961.9**	**5902.9**	**ND**

Notes:
(1) NYSDEC TOGS 1.1.1 Ambient Water Quality Standards and Guidance Values (October 1998).
(2) -- indicates no standard or guidance value is available.
(3) (G) indicates guidance value.
(4) NA indicates compound was not analyzed for.
(5) ND indicated compound was not detected.
(6) J indicates an estimated concentration.
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(8) Shaded values exceed NYSDEC Class GA Groundwater Standards and Guidance Values.

Table 4
Remedial Action Work Plan
West 45th Street Operable Unit 1 - Validated Groundwater Analytical Data
Detected Compound Summary
May 2007 Sampling Event

Consolidated Edison W 45th Street Validated Groundwater Analytical Data Detected Compound Summary		NYSDEC Class GA Groundwater Standards/Guidance Values [1]	Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	Dup of MW-10 MW-100 Y2690-02 Chemtech Y2690 WATER 5/10/2007 6/25/2007	MW-11 Y2690-03 Chemtech Y2690 WATER 5/10/2007 6/25/2007	MW-16 Y2633-17 Chemtech Y2633 WATER 5/8/2007 6/24/2007	MW-19 Y2831-03 Chemtech Y2831 WATER 5/22/2007 6/26/2007	MW-20 Y2831-04 Chemtech Y2831 WATER 5/22/2007 6/26/2007	MW-55 Y2633-14 Chemtech Y2633 WATER 5/8/2007 6/24/2007
CAS NO.	COMPOUND		UNITS:						
	SEMIVOLATILES								
98-86-2	Acetophenone	--	ug/L	ND	ND	ND	16	ND	ND
100-52-7	Benzaldehyde	--	ug/L	ND	ND	ND	ND	ND	ND
92-52-4	1,1-Biphenyl	5	ug/L	ND	ND	ND	17	39	ND
117-81-7	Bis(2-ethylhexyl)phthalate	5	ug/L	ND	ND	1.6 J	ND	ND	ND
86-74-8	Carbazole	--	ug/L	2.4 J	ND	ND	16	3.8 J	ND
132-64-9	Dibenzofuran	--	ug/L	1.4 J	ND	ND	6.7 J	ND	ND
105-67-9	2,4-Dimethylphenol	50 (G)	ug/L	ND	ND	ND	39	ND	ND
50-32-8	2-Methylphenol	1	ug/L	ND	ND	ND	21	ND	ND
87-86-5	3+4-Methylphenols	1	ug/L	ND	ND	ND	23	ND	ND
87-86-5	Pentachlorophenol	1	ug/L	ND	ND	ND	ND	ND	ND
108-95-2	Phenol	1	ug/L	ND	ND	ND	53 J	6.7 J	ND
	PAHs								
83-32-9	Acenaphthene	20 (G)	ug/L	91	ND	ND	27	150	ND
208-96-8	Acenaphthylene	--	ug/L	ND	ND	ND	4.9 J	9.9 J	ND
120-12-7	Anthracene	50 (G)	ug/L	ND	ND	ND	4.9 J	10 J	ND
206-44-0	Fluoranthene	50 (G)	ug/L	ND	ND	ND	3.5 J	3.9 J	ND
86-73-7	Fluorene	50 (G)	ug/L	12	ND	ND	60	44	ND
91-57-6	2-Methylnaphthalene	--	ug/L	110	ND	ND	130	290	ND
91-20-3	Naphthalene	10 (G)	ug/L	16	2.1 J	ND	1400	2400	ND
85-01-8	Phenanthrene	50 (G)	ug/L	9.9 J	ND	ND	61	57	ND
129-00-0	Pyrene	50 (G)	ug/L	ND	ND	ND	4.1 J	4.8 J	ND
	Total PAHs	**--**		**238.9**	**2.1**	**ND**	**1695.4**	**2969.6**	**ND**
	Total SVOCs	**--**		**242.7**	**2.1**	**1.6**	**1887.1**	**3019.1**	**ND**

Notes:
(1) NYSDEC TOGS 1.1.1 Ambient Water Quality Standards and Guidance Values (October 1998).
(2) -- indicates no standard or guidance value is available.
(3) (G) indicates guidance value.
(4) NA indicates compound was not analyzed for.
(5) ND indicated compound was not detected.
(6) J indicates an estimated concentration.
(7) R indicates result was rejected based on validation.
(8) Shaded values exceed NYSDEC Class GA Groundwater Standards and Guidance Values.

Table 4
Remedial Action Work Plan
West 45th Street Operable Unit 1 - Validated Groundwater Analytical Data
Detected Compound Summary
May 2007 Sampling Event

Consolidated Edison W 45th Street Validated Groundwater Analytical Data Detected Compound Summary		NYSDEC Class GA Groundwater Standards/Guidance Values [1]	Sample ID: Lab Sample Id: Source: SDG: Matrix: Sampled: Validated:	Dup of MW-10 MW-100 Y2690-02 Chemtech Y2690 WATER 5/10/2007 6/25/2007	MW-11 Y2690-03 Chemtech Y2690 WATER 5/10/2007 6/25/2007	MW-16 Y2633-17 Chemtech Y2633 WATER 5/8/2007 6/24/2007	MW-19 Y2831-03 Chemtech Y2831 WATER 5/22/2007 6/26/2007	MW-20 Y2831-04 Chemtech Y2831 WATER 5/22/2007 6/26/2007	MW-55 Y2633-14 Chemtech Y2633 WATER 5/8/2007 6/24/2007
CAS NO.	COMPOUND		UNITS:						
	INORGANICS								
7429-90-5	Aluminum	--	ug/L	2650	179	176	ND	ND	85.2
7440-36-0	Antimony	3	ug/L	ND	ND	13.2 J	ND	ND	34.6
7440-38-2	Arsenic	25	ug/L	4.87 J	5.92 J	ND	4.78 J	ND	ND
7440-39-3	Barium	1000	ug/L	517	219	46.7 J	870	907	29.3 J
7440-70-2	Calcium	--	ug/L	194000	167000	172000 J	195000	941000	91400 J
7440-47-3	Chromium	50	ug/L	5.51	2.15 J	4.13 J	ND	ND	7.1
7440-48-4	Cobalt	--	ug/L	3.64 J	ND	2.25 J	ND	ND	5.84 J
7440-50-8	Copper	200	ug/L	5.67 J	1.2 J	9.1 J	ND	ND	10.7
7439-89-6	Iron	300	ug/L	19400	4080	287	24500	35200	1250
7439-92-1	Lead	25	ug/L	6.57	ND	2.33 J	ND	ND	2.07 J
7439-95-4	Magnesium	35000 (G)	ug/L	53500	13900	185000	43000	42400	233000
7439-96-5	Manganese	300	ug/L	8510	4570	21.1	12500	13400	14.3
7439-97-6	Mercury	0.7	ug/L	ND	ND N	0.12 J	ND	ND	ND
7440-02-0	Nickel	100	ug/L	4.37 J	2.1 J	5.64 J	ND	ND	4.94 J
7440-09-7	Potassium	--	ug/L	35000	15300	117000 J	45700 J	90800 J	108000 J
7782-49-2	Selenium	10	ug/L	ND	ND	ND	ND	ND	ND
7440-22-4	Silver	50	ug/L	ND	ND	3.24 J	ND	ND	7.92
7440-23-5	Sodium	20000	ug/L	208000	39500	2440000 J	652000	1080000	2470000 J
7440-62-2	Vanadium	--	ug/L	8.33 J	2.51 J	9.95 J	ND	ND	6.68 J
7440-66-6	Zinc	2000 (G)	ug/L	64.8	39.5	46.3	39.5	31.3	48.6
57-12-5	Cyanide	200	ug/L	114	42	10 U	18	39	10 U
	DISSOLVED METALS								
7429-90-5	Aluminum	--	ug/L	NA	179	NA	NA	NA	NA
7440-39-3	Barium	1000	ug/L	NA	171	NA	NA	NA	NA
7440-70-2	Calcium	--	ug/L	NA	165000	NA	NA	NA	NA
7439-89-6	Iron	300	ug/L	NA	394	NA	NA	NA	NA
7439-95-4	Magnesium	35000 (G)	ug/L	NA	14300	NA	NA	NA	NA
7439-96-5	Manganese	300	ug/L	NA	4330	NA	NA	NA	NA
7440-09-7	Potassium	--	ug/L	NA	15900	NA	NA	NA	NA
7440-23-5	Sodium	20000	ug/L	NA	42500	NA	NA	NA	NA
7440-66-6	Zinc	2000 (G)		NA	31.1	NA	NA	NA	NA

Notes:
(1) NYSDEC TOGS 1.1.1 Ambient Water Quality Standards and Guidance Values (October 1998).
(2) -- indicates no standard or guidance value is available.
(3) (G) indicates guidance value.
(4) NA indicates compound was not analyzed for.
(5) ND indicated compound was not detected.
(6) J indicates an estimated concentration.
(7) R indicates result was rejected based on validation.
(8) Shaded values exceed NYSDEC Class GA Groundwater Standards and Guidance Values.

Table 5
Validated Soil Gas Analytical Data
Detected Compound Summary
West 45th Street Operable Unit 1

Consolidated Edison W 45th Street Operable Unit 1 Validated Air Analytical Data Detected Compound Summary		Sample ID: Lab Sample Id: Depth: Source: SDG: Matrix: Sampled: Validated:	MW-9 (1') 0602477R1-04A 1' Air Toxics 0602477R1 Air 2/9/2006 4/27/2006	MW-9 (6') 0602477R1-02A 6' Air Toxics 0602477R1 Air 2/9/2006 4/27/2006	SB-27 (1') 0602477R1-06A 1' Air Toxics 0602477R1 Air 2/9/2006 4/27/2006	SB-27 (1')DUP 0602477R1-06AA 1' Air Toxics 0602477R1 Air 2/9/2006 4/27/2006	SB-27 (6') 0602477R1-03A 6' Air Toxics 0602477R1 Air 2/9/2006 4/27/2006	SG-2 (1') 0602477R1-05A 1' Air Toxics 0602477R1 Air 2/9/2006 4/27/2006	SG-2 (6') 0602477R1-01A 6' Air Toxics 0602477R1 Air 2/9/2006 4/27/2006
CAS NO.	COMPOUND	UNITS:							
	VOLATILES								
75-71-8	Freon 12	uG/m3	3.1 J	3	3	2.7	3	3	3
74-87-3	Chloromethane	uG/m3	ND	0.59	ND	ND	ND	1	0.41
106-99-0	1,3-Butadiene	uG/m3	ND	ND	ND	ND	ND	ND	ND
75-69-4	Freon 11	uG/m3	ND	1.7	4.7	4.6	4.4	1.7	1.6
64-17-5	Ethanol	uG/m3	14	7.6	12	11	7.1	9.1	6.4
67-64-1	Acetone	uG/m3	18	11	15	15	6.1	21	14
67-63-0	2-Propanol	uG/m3	ND	ND	ND	ND	ND	ND	ND
75-15-0	Carbon disulfide	uG/m3	ND	6.5	ND	ND	ND	ND	ND
75-09-2	Methylene chloride	uG/m3	16 J	2.5 J	ND	ND	ND	ND	ND
1634-04-4	Methyl tert-butyl ether	uG/m3	13	ND	ND	ND	ND	ND	ND
110-54-3	Hexane	uG/m3	610	57	ND	ND	ND	ND	ND
78-93-3	Methyl Ethyl Ketone	uG/m3	ND	ND	2.8	2.9	2	3.6	2.2
67-66-3	Chloroform	uG/m3	ND	ND	ND	ND	ND	ND	1.2
71-55-6	1,1,1-Trichloroethane	uG/m3	ND	ND	ND	ND	ND	ND	ND
110-82-7	Cyclohexane	uG/m3	350	22	ND	ND	ND	9	ND
71-43-2	Benzene	uG/m3	45	3.8	0.9	0.91	1.2	3.8	1.7
142-82-5	Heptane	uG/m3	86	24	ND	ND	ND	20	ND
79-01-6	Trichloroethene	uG/m3	ND	ND	ND	ND	ND	2.2	2
108-88-3	Toluene	uG/m3	13	14	5.7	5.8	7.2	100	8.2
127-18-4	Tetrachloroethene	uG/m3	22	30	23	23	33	23	38
108-90-7	Chlorobenzene	uG/m3	ND	ND	ND	ND	ND	1.6	ND
100-41-4	Ethylbenzene	uG/m3	ND	7.6	2.7	2.9	2.6	38	2.9
1330-20-7	Xylene (m,p)	uG/m3	7.6	17	10	10	9.2	100	10
95-47-6	Xylene (o)	uG/m3	3.9	13	4.5	4.7	3.9	38	4.1
100-42-5	Styrene	uG/m3	ND	ND	0.57	0.54 J	ND	ND	ND
98-82-8	Cumene	uG/m3	ND	ND	ND	ND	ND	5.7	ND
103-65-1	Propylbenzene	uG/m3	ND	ND	ND	ND	ND	4.2	ND
622-96-8	4-Ethyltoluene	uG/m3	ND	11 J	7.1 J	6.9 J	4.9 J	14 J	4.8 J
108-67-8	1,3,5-Trimethylbenzene	uG/m3	ND	5.3	3	2.9	2.1	5.4	1.9
95-63-6	1,2,4-Trimethylbenzene	uG/m3	6.5	16	10	10	7.3	13	6.6
565-59-3	2,3-Dimethylpentane	uG/m3	ND	7.5	ND	ND	ND	ND	ND
107-83-5	2-Methylpentane	uG/m3	480	72	ND	ND	ND	ND	ND
496-11-7	Indan	uG/m3	ND	ND	ND	ND	ND	ND	ND
78-78-4	Isopentane	uG/m3	510 J	240 J	ND	ND	ND	13 J	2 J
91-20-3	Naphthalene	uG/m3	ND	ND	3.9 J	3.6 J	ND	ND	ND
540-84-1	2,2,4-Trimethylpentane	uG/m3	120	35	32	32	18	19	49

Notes:
(1) ND indicates compound was not detected
(2) J indicates an estimated concentration

Table 5
Validated Soil Gas Analytical Data
Detected Compound Summary
West 45th Street Operable Unit 1

Consolidated Edison W 45th Street Operable Unit 1 Validated Air Analytical Data Detected Compound Summary		Sample ID: Lab Sample Id: Depth: Source: SDG: Matrix: Sampled: Validated:	OU-1 SG-3 (1FT) 0603386-01A 1' Air Toxics 603386 Air 3/14/2006 4/28/2006	OU-1 SG-3 (4FT) 0603386-02A 4' Air Toxics 603386 Air 3/14/2006 4/28/2006	OU-1 SG-4 (1FT) 0603386-03A 1' Air Toxics 603386 Air 3/14/2006 4/28/2006
CAS NO.	COMPOUND	UNITS:			
	VOLATILES				
75-71-8	Freon 12	uG/m3	2.9	3	2.8
74-87-3	Chloromethane	uG/m3	1.4	ND	0.33 J
106-99-0	1,3-Butadiene	uG/m3	ND	ND	2.6
75-69-4	Freon 11	uG/m3	1.6	1.9	2
64-17-5	Ethanol	uG/m3	13	10	10
67-64-1	Acetone	uG/m3	13	37	33
67-63-0	2-Propanol	uG/m3	ND	2.1	ND
75-15-0	Carbon disulfide	uG/m3	ND	ND	24
75-09-2	Methylene chloride	uG/m3	ND	ND	ND
1634-04-4	Methyl tert-butyl ether	uG/m3	ND	ND	ND
110-54-3	Hexane	uG/m3	ND	ND	ND
78-93-3	Methyl Ethyl Ketone	uG/m3	ND	2.8	ND
67-66-3	Chloroform	uG/m3	ND	1.9	8.3
71-55-6	1,1,1-Trichloroethane	uG/m3	ND	2.2	ND
110-82-7	Cyclohexane	uG/m3	ND	ND	ND
71-43-2	Benzene	uG/m3	2.6	7.9	47
142-82-5	Heptane	uG/m3	ND	3.9	ND
79-01-6	Trichloroethene	uG/m3	ND	ND	ND
108-88-3	Toluene	uG/m3	11	32	30
127-18-4	Tetrachloroethene	uG/m3	5.6	90	53
108-90-7	Chlorobenzene	uG/m3	ND	ND	ND
100-41-4	Ethylbenzene	uG/m3	2	17	13
1330-20-7	Xylene (m,p)	uG/m3	8	75	58
95-47-6	Xylene (o)	uG/m3	3.1	33	26
100-42-5	Styrene	uG/m3	ND	ND	ND
98-82-8	Cumene	uG/m3	ND	ND	ND
103-65-1	Propylbenzene	uG/m3	ND	12	10
622-96-8	4-Ethyltoluene	uG/m3	4	57	52
108-67-8	1,3,5-Trimethylbenzene	uG/m3	1.6	23	22
95-63-6	1,2,4-Trimethylbenzene	uG/m3	4.9	73	70
565-59-3	2,3-Dimethylpentane	uG/m3	ND	5.4	ND
107-83-5	2-Methylpentane	uG/m3	ND	3.2	ND
496-11-7	Indan	uG/m3	ND	9.2 J	8.6 J
78-78-4	Isopentane	uG/m3	13 J	21 J	3.9 J
91-20-3	Naphthalene	uG/m3	ND	7.4 J	13 J
540-84-1	2,2,4-Trimethylpentane	uG/m3	62	480 J	300

Notes:
(1) ND indicates compound was not detected
(2) J indicates an estimated concentration

APPENDIX A

NYC DOB ZONING MAP

Click blue box on map to view sketch map of proposed map change

NOTE: Where no dimensions for zoning district boundaries appear on the zoning maps, such dimensions are determined in Article VII, Chapter 8 (Location of District Boundaries) of the Zoning Resolution.

ZONING MAP

THE NEW YORK CITY PLANNING COMMISSION

Major Zoning Classifications:

The number(s) and/or letter(s) that follows an R, C or M District designation indicates use, bulk and other controls as described in the text of the Zoning Resolution.

R – RESIDENTIAL DISTRICT

C – COMMERCIAL DISTRICT

M – MANUFACTURING DISTRICT

SPECIAL PURPOSE DISTRICT
The letter(s) within the shaded area designates the special purpose district as described in the text of the Zoning Resolution.

AREA(S) REZONED

Effective Date(s) of Rezoning:

* 03-03-2010 C 100051 ZMM
12-21-2009 C 090430 ZMM

Special Requirements:

For a list of lots subject to CEQR environmental requirements, see APPENDIX C.

For a list of lots subject to "D" restrictive declarations, see APPENDIX D.

For Inclusionary Housing designated areas on this map, see APPENDIX F.

CITY MAP CHANGE(S):

▲ 12-08-2009 C 050098(A) MMM

N

MAP KEY

	5d	6b
8a	**8c**	9a
8b	8d	9b

ZONING MAP **8C**

NOTE: Zoning information as shown on this map is subject to change. For the most up-to-date zoning information for this map, visit the Zoning section of the Department of City Planning website: www.nyc.gov/planning or contact the Zoning Information Desk at (212) 720-3291.

APPENDIX B

NYSDOH GENERIC COMMUNITY AIR MONITORING PLAN

Appendix 1A
New York State Department of Health
Generic Community Air Monitoring Plan

Overview

A Community Air Monitoring Plan (CAMP) requires real-time monitoring for volatile organic compounds (VOCs) and particulates (i.e., dust) at the downwind perimeter of each designated work area when certain activities are in progress at contaminated sites. The CAMP is not intended for use in establishing action levels for worker respiratory protection. Rather, its intent is to provide a measure of protection for the downwind community (i.e., off-site receptors including residences and businesses and on-site workers not directly involved with the subject work activities) from potential airborne contaminant releases as a direct result of investigative and remedial work activities. The action levels specified herein require increased monitoring, corrective actions to abate emissions, and/or work shutdown. Additionally, the CAMP helps to confirm that work activities did not spread contamination off-site through the air.

The generic CAMP presented below will be sufficient to cover many, if not most, sites. Specific requirements should be reviewed for each situation in consultation with NYSDOH to ensure proper applicability. In some cases, a separate site-specific CAMP or supplement may be required. Depending upon the nature of contamination, chemical- specific monitoring with appropriately-sensitive methods may be required. Depending upon the proximity of potentially exposed individuals, more stringent monitoring or response levels than those presented below may be required. Special requirements will be necessary for work within 20 feet of potentially exposed individuals or structures and for indoor work with co-located residences or facilities. These requirements should be determined in consultation with NYSDOH.

Reliance on the CAMP should not preclude simple, common-sense measures to keep VOCs, dust, and odors at a minimum around the work areas.

Community Air Monitoring Plan

Depending upon the nature of known or potential contaminants at each site, real-time air monitoring for VOCs and/or particulate levels at the perimeter of the exclusion zone or work area will be necessary. Most sites will involve VOC and particulate monitoring; sites known to be contaminated with heavy metals alone may only require particulate monitoring. If radiological contamination is a concern, additional monitoring requirements may be necessary per consultation with appropriate DEC/NYSDOH staff.

Continuous monitoring will be required for all ground intrusive activities and during the demolition of contaminated or potentially contaminated structures. Ground intrusive activities include, but are not limited to, soil/waste excavation and handling, test pitting or trenching, and the installation of soil borings or monitoring wells.

Periodic monitoring for VOCs will be required during non-intrusive activities such as the collection of soil and sediment samples or the collection of groundwater samples from existing monitoring wells. “Periodic” monitoring during sample collection might reasonably consist of taking a reading upon arrival at a sample location, monitoring while opening a well cap or

overturning soil, monitoring during well baling/purging, and taking a reading prior to leaving a sample location. In some instances, depending upon the proximity of potentially exposed individuals, continuous monitoring may be required during sampling activities. Examples of such situations include groundwater sampling at wells on the curb of a busy urban street, in the midst of a public park, or adjacent to a school or residence.

VOC Monitoring, Response Levels, and Actions

Volatile organic compounds (VOCs) must be monitored at the downwind perimeter of the immediate work area (i.e., the exclusion zone) on a continuous basis or as otherwise specified. Upwind concentrations should be measured at the start of each workday and periodically thereafter to establish background conditions, particularly if wind direction changes. The monitoring work should be performed using equipment appropriate to measure the types of contaminants known or suspected to be present. The equipment should be calibrated at least daily for the contaminant(s) of concern or for an appropriate surrogate. The equipment should be capable of calculating 15-minute running average concentrations, which will be compared to the levels specified below.

1. If the ambient air concentration of total organic vapors at the downwind perimeter of the work area or exclusion zone exceeds 5 parts per million (ppm) above background for the 15-minute average, work activities must be temporarily halted and monitoring continued. If the total organic vapor level readily decreases (per instantaneous readings) below 5 ppm over background, work activities can resume with continued monitoring.

2. If total organic vapor levels at the downwind perimeter of the work area or exclusion zone persist at levels in excess of 5 ppm over background but less than 25 ppm, work activities must be halted, the source of vapors identified, corrective actions taken to abate emissions, and monitoring continued. After these steps, work activities can resume provided that the total organic vapor level 200 feet downwind of the exclusion zone or half the distance to the nearest potential receptor or residential/commercial structure, whichever is less - but in no case less than 20 feet, is below 5 ppm over background for the 15-minute average.

3. If the organic vapor level is above 25 ppm at the perimeter of the work area, activities must be shutdown.

4. All 15-minute readings must be recorded and be available for State (DEC and NYSDOH) personnel to review. Instantaneous readings, if any, used for decision purposes should also be recorded.

Particulate Monitoring, Response Levels, and Actions

Particulate concentrations should be monitored continuously at the upwind and downwind perimeters of the exclusion zone at temporary particulate monitoring stations. The particulate monitoring should be performed using real-time monitoring equipment capable of measuring particulate matter less than 10 micrometers in size (PM-10) and capable of integrating over a period of 15 minutes (or less) for comparison to the airborne particulate action level. The equipment must be equipped with an audible alarm to indicate exceedance of the action level. In addition, fugitive dust migration should be visually assessed during all work activities.

1. If the downwind PM-10 particulate level is 100 micrograms per cubic meter (mcg/m^3) greater than background (upwind perimeter) for the 15-minute period or if airborne dust is observed leaving the work area, then dust suppression techniques must be employed. Work may continue with dust suppression techniques provided that downwind PM-10 particulate levels do not exceed 150 mcg/m^3 above the upwind level and provided that no visible dust is migrating from the work area.

2. If, after implementation of dust suppression techniques, downwind PM-10 particulate levels are greater than 150 mcg/m^3 above the upwind level, work must be stopped and a re-evaluation of activities initiated. Work can resume provided that dust suppression measures and other controls are successful in reducing the downwind PM-10 particulate concentration to within 150 mcg/m^3 of the upwind level and in preventing visible dust migration.

3. All readings must be recorded and be available for State (DEC and NYSDOH) and County Health personnel to review.

December 2009

Appendix 1B
Fugitive Dust and Particulate Monitoring

A program for suppressing fugitive dust and particulate matter monitoring at hazardous waste sites is a responsibility on the remedial party performing the work. These procedures must be incorporated into appropriate intrusive work plans. The following fugitive dust suppression and particulate monitoring program should be employed at sites during construction and other intrusive activities which warrant its use:

1. Reasonable fugitive dust suppression techniques must be employed during all site activities which may generate fugitive dust.

2. Particulate monitoring must be employed during the handling of waste or contaminated soil or when activities on site may generate fugitive dust from exposed waste or contaminated soil. Remedial activities may also include the excavation, grading, or placement of clean fill. These control measures should not be considered necessary for these activities.

3. Particulate monitoring must be performed using real-time particulate monitors and shall monitor particulate matter less than ten microns (PM10) with the following minimum performance standards:

(a) Objects to be measured: Dust, mists or aerosols;
(b) Measurement Ranges: 0.001 to 400 mg/m3 (1 to 400,000 :ug/m3);
(c) Precision (2-sigma) at constant temperature: +/- 10 :g/m3 for one second averaging; and +/- 1.5 g/m3 for sixty second averaging;
(d) Accuracy: +/- 5% of reading +/- precision (Referred to gravimetric calibration with SAE fine test dust (mmd= 2 to 3 :m, g= 2.5, as aerosolized);
(e) Resolution: 0.1% of reading or 1g/m3, whichever is larger;
(f) Particle Size Range of Maximum Response: 0.1-10;
(g) Total Number of Data Points in Memory: 10,000;
(h) Logged Data: Each data point with average concentration, time/date and data point number
(i) Run Summary: overall average, maximum concentrations, time/date of maximum, total number of logged points, start time/date, total elapsed time (run duration), STEL concentration and time/date occurrence, averaging (logging) period, calibration factor, and tag number;
(j) Alarm Averaging Time (user selectable): real-time (1-60 seconds) or STEL (15 minutes), alarms required;
(k) Operating Time: 48 hours (fully charged NiCd battery); continuously with charger;
(l) Operating Temperature: -10 to 50^{o} C (14 to 122^{o} F);
(m) Particulate levels will be monitored upwind and immediately downwind at the working site and integrated over a period not to exceed 15 minutes.

4. In order to ensure the validity of the fugitive dust measurements performed, there must be appropriate Quality Assurance/Quality Control (QA/QC). It is the responsibility of the remedial party to adequately supplement QA/QC Plans to include the following critical features: periodic instrument calibration, operator training, daily instrument performance (span) checks, and a record keeping plan.

5. The action level will be established at 150 ug/m3 (15 minutes average). While conservative,

this short-term interval will provide a real-time assessment of on-site air quality to assure both health and safety. If particulate levels are detected in excess of 150 ug/m3, the upwind background level must be confirmed immediately. If the working site particulate measurement is greater than 100 ug/m3 above the background level, additional dust suppression techniques must be implemented to reduce the generation of fugitive dust and corrective action taken to protect site personnel and reduce the potential for contaminant migration. Corrective measures may include increasing the level of personal protection for on-site personnel and implementing additional dust suppression techniques (see paragraph 7). Should the action level of 150 ug/m3 continue to be exceeded work must stop and DER must be notified as provided in the site design or remedial work plan. The notification shall include a description of the control measures implemented to prevent further exceedances.

6. It must be recognized that the generation of dust from waste or contaminated soil that migrates off-site, has the potential for transporting contaminants off-site. There may be situations when dust is being generated and leaving the site and the monitoring equipment does not measure PM10 at or above the action level. Since this situation has the potential to allow for the migration of contaminants off-site, it is unacceptable. While it is not practical to quantify total suspended particulates on a real-time basis, it is appropriate to rely on visual observation. If dust is observed leaving the working site, additional dust suppression techniques must be employed. Activities that have a high dusting potential--such as solidification and treatment involving materials like kiln dust and lime--will require the need for special measures to be considered.

7. The following techniques have been shown to be effective for the controlling of the generation and migration of dust during construction activities:

(a) Applying water on haul roads;
(b) Wetting equipment and excavation faces;
(c) Spraying water on buckets during excavation and dumping;
(d) Hauling materials in properly tarped or watertight containers;
(e) Restricting vehicle speeds to 10 mph;
(f) Covering excavated areas and material after excavation activity ceases; and
(g) Reducing the excavation size and/or number of excavations.

Experience has shown that the chance of exceeding the 150ug/m3 action level is remote when the above-mentioned techniques are used. When techniques involving water application are used, care must be taken not to use excess water, which can result in unacceptably wet conditions. Using atomizing sprays will prevent overly wet conditions, conserve water, and provide an effective means of suppressing the fugitive dust.

8. The evaluation of weather conditions is necessary for proper fugitive dust control. When extreme wind conditions make dust control ineffective, as a last resort remedial actions may need to be suspended. There may be situations that require fugitive dust suppression and particulate monitoring requirements with action levels more stringent than those provided above. Under some circumstances, the contaminant concentration and/or toxicity may require additional monitoring to protect site personnel and the public. Additional integrated sampling and chemical analysis of the dust may also be in order. This must be evaluated when a health and safety plan is developed and when appropriate suppression and monitoring requirements are established for protection of health and the environment.

APPENDIX C

INSTITUTIONAL AND ENGINEERING CONTROLS INSPECTION CHECKLIST

Institutional and Engineering Controls Inspection Form

I. Site Information

Site No. **V00532-2**

Site Name Former West 45th Street Gas Works (OU-1) Site

Site Address: Zip Code: **10001**

City/Town: **New York**

County: **New York**

Current Use:

II. Site Conditions

- Physical characteristics of the Site
- Current site operations.

III. Site Inspection Checklist

YES NO

1. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment since the initial/last certification?

   If YES, is documentation or evidence that documentation has been previously submitted included with this certification?

2. Have any amendments and/or additional filings been recorded that may modify or supersede the Deed Restrictions?

   If YES, is documentation

3. Have any federal, state, and/or local permits (e.g., building permit) been issued for or at the property since the initial/last certification?

   If YES, is documentation or evidence that documentation has been previously submitted included with this certification?

4. Has there been an actual or pending zoning or land-use change for the Restricted Area on which the Deed Restriction is filed?

   If YES, is documentation or evidence that documentation has been previously submitted included with this certification?

5. Have periodic inspections of the site identified any excavation or other disturbance activities that have taken place within the institutional control areas or other areas subject to the Site Management Plan?

   If YES, is the new information or evidence that new information has been previously submitted included with this Certification?

6. Are monitoring wells MW-7, MW-8, MW-9, MW-10, MW-11, MW-16, MW-20 and MW-55 in good working condition?

   Provide the current condition of the vaults, covers, concrete and asphalts surfaces immediately surrounding the monitoring well.

Control Certification Statement

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

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

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

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

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

IC/EC CERTIFICATIONS
SITE NO. V00532-2

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I _____at_____,
print name print business address

am certifying as OWNER (Owner or Remedial Party) for the Site named in the Site Information Section of this form.

_____ _____
Signature of Owner or Remedial Party Rendering Certification Date

QUALIFIED ENVIRONMENTAL PROFESSIONAL (QEP) SIGNATURE

I _____at_____,
print name print business address

am certifying as a Qualified Environmental Professional for the

_____

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

_____ _____ _____
Signature of Qualified Environmental Professional, for the Owner or Remedial Party, Rendering Certification Stamp (if Required) Date