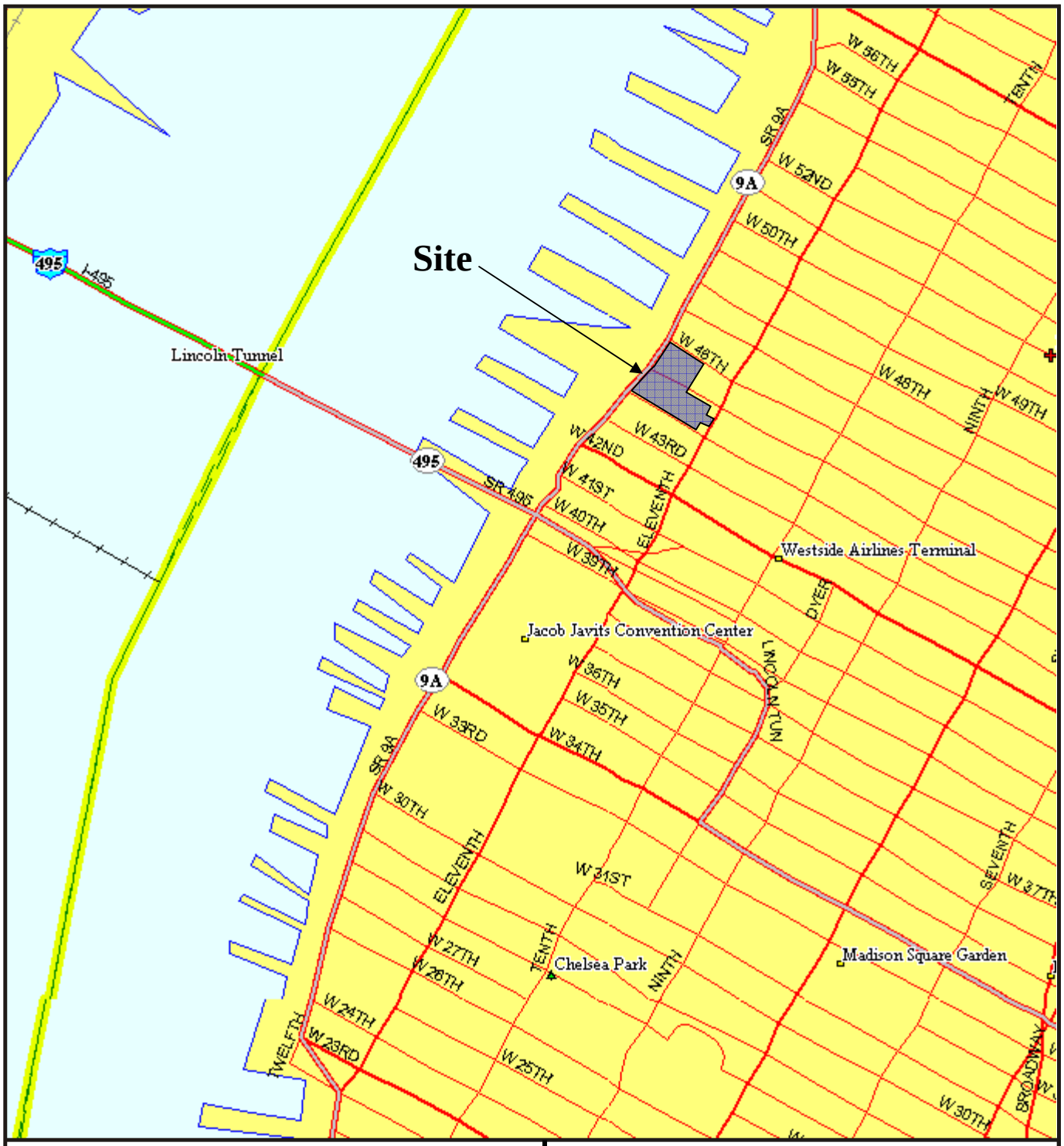
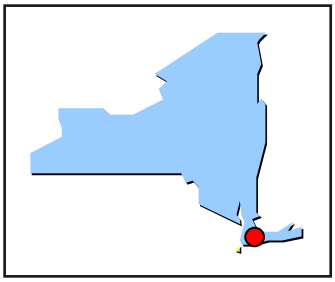
FIGURES





New York Quadrangle

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

N

0.200 MI

Figure 1

CONSOLIDATED EDISON

NEW YORK, NEW YORK

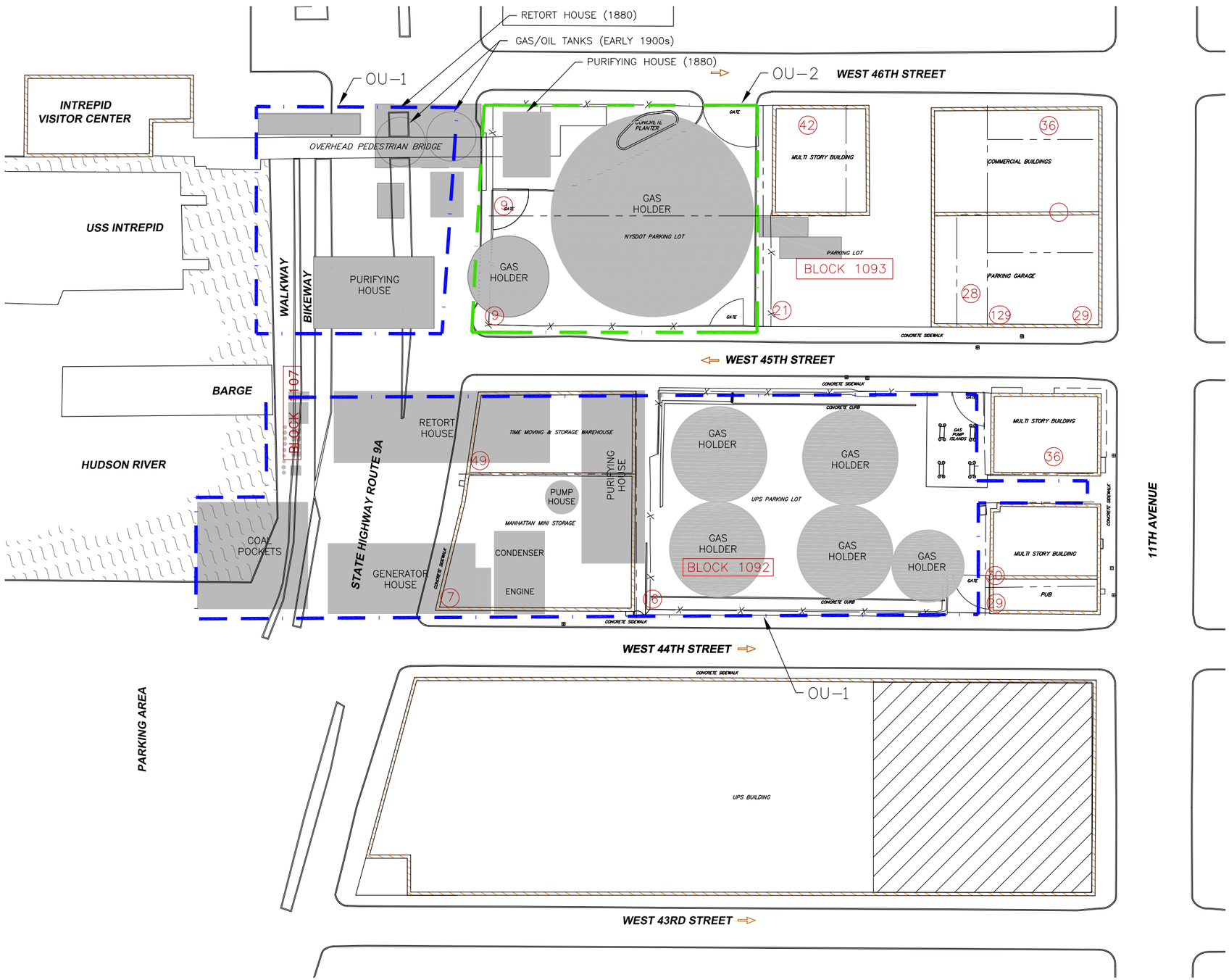
SITE LOCATION MAP

FORMER WEST 45th STREET GAS WORKS

PARSONS

290 Elwood Davis Road, Suite 312, Liverpool, New York 13088 * (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
- 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'

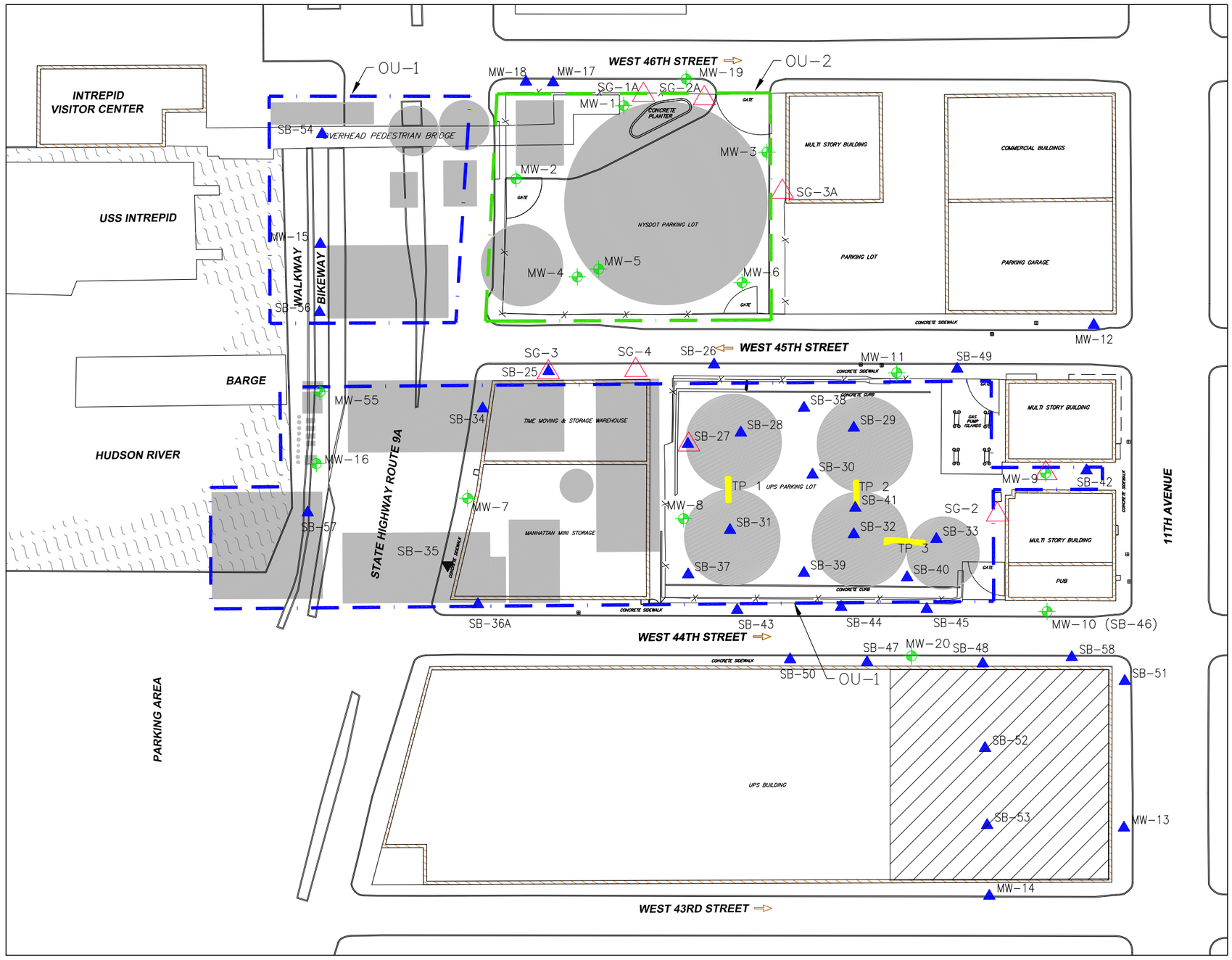
FIGURE 2

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

FILE NAME: P:\CONED\446340 - W45TH ST\CAD\446340-C001.DWG
PLOT DATE: 1/5/2011 12:40 PM PLOTTED BY: RUSSO, JILL



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
- LIMITS OF OU-1
- LIMITS OF OU-2
- 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\446340 - W45TH ST\CAD\446340-C002.DWG
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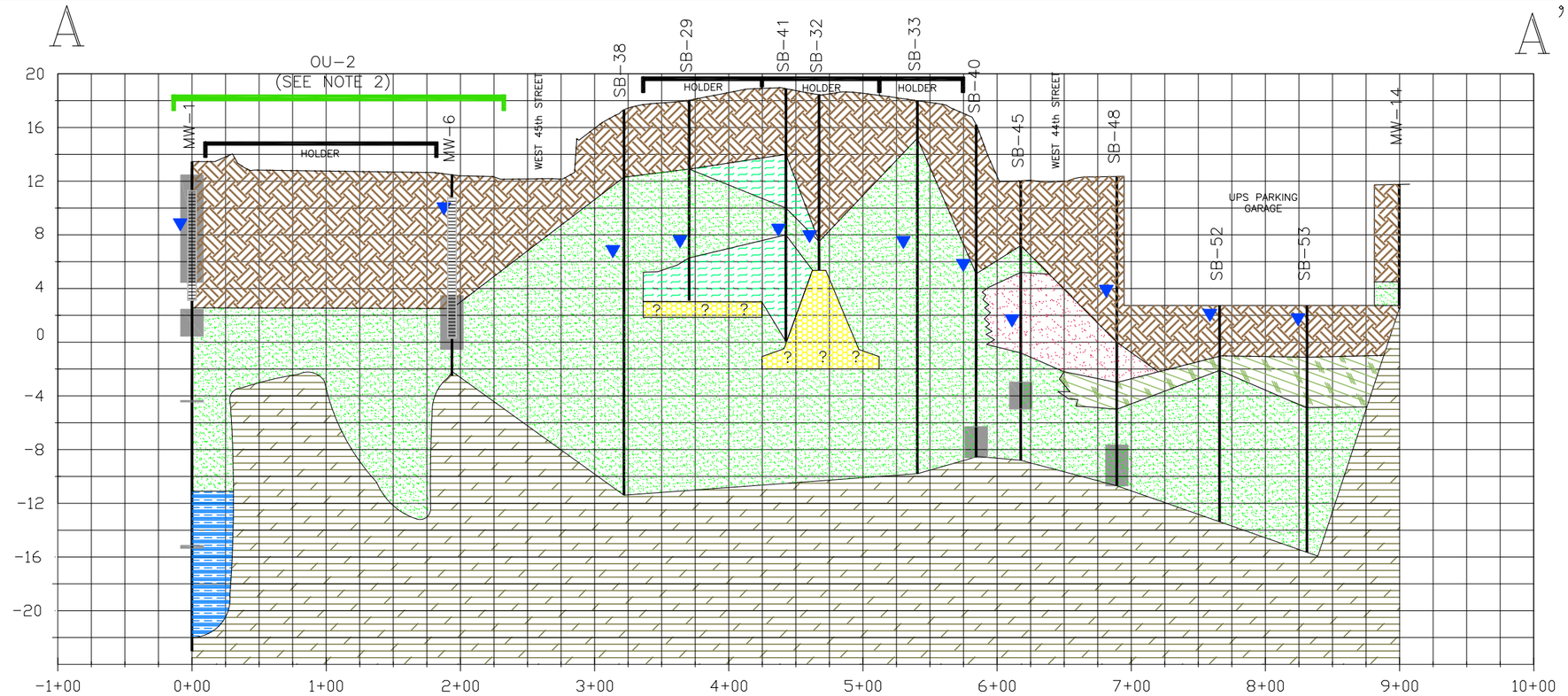
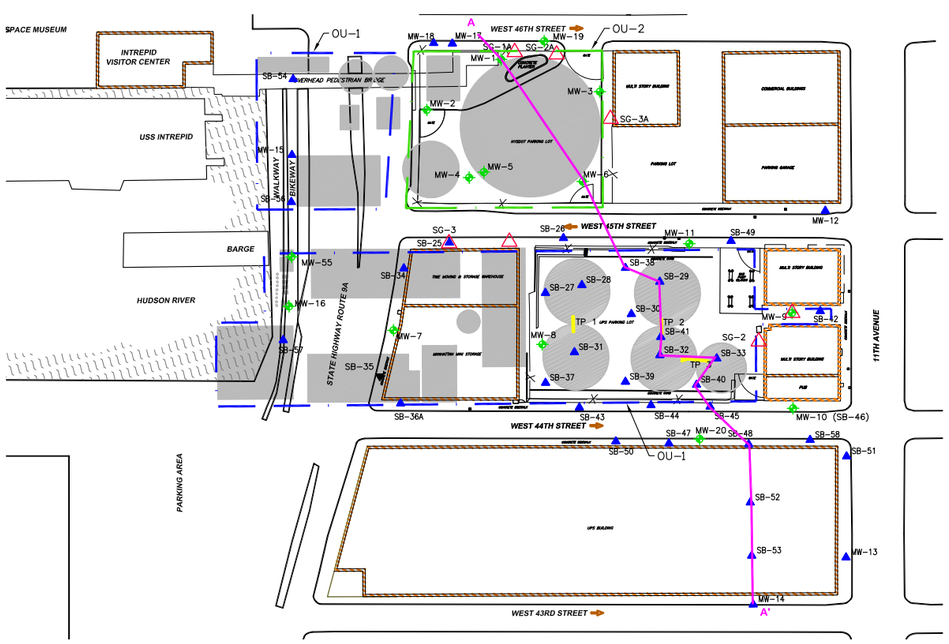


LEGEND:

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



KEY MAP SHOWING CROSS-SECTION LINE A-A'

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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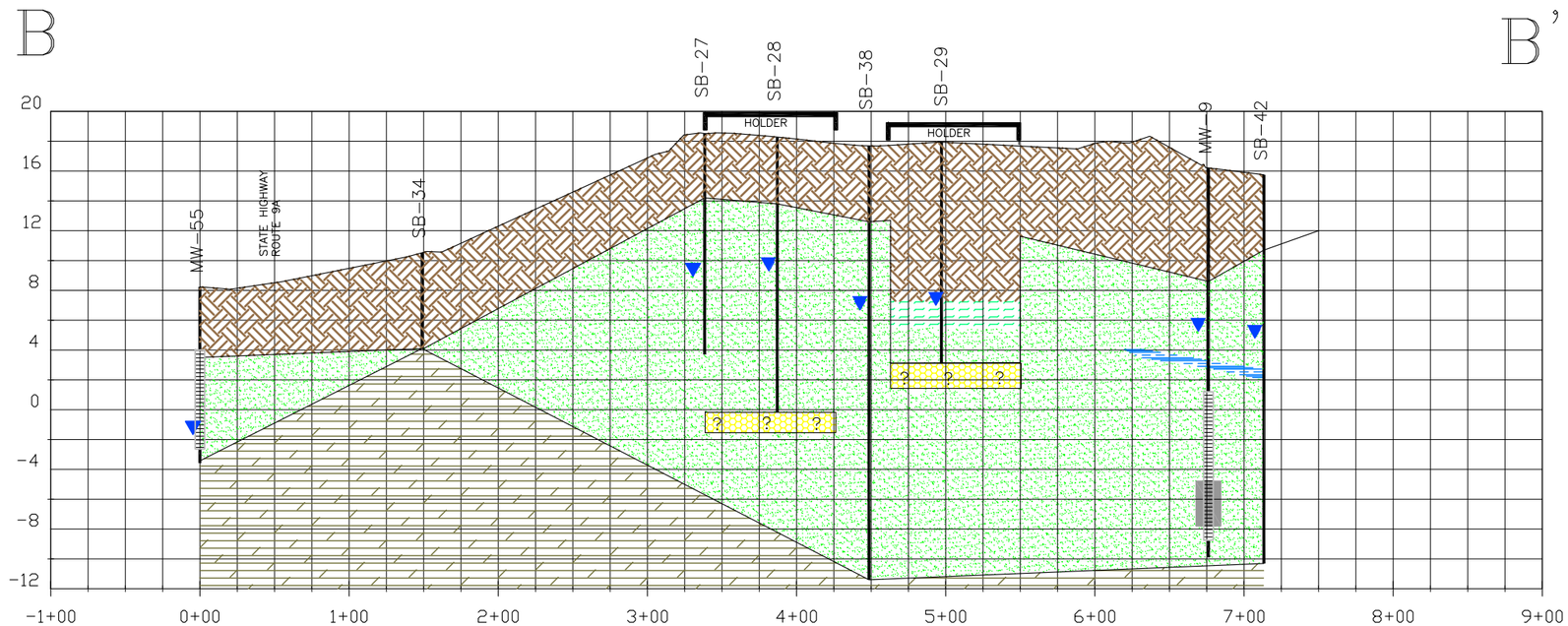

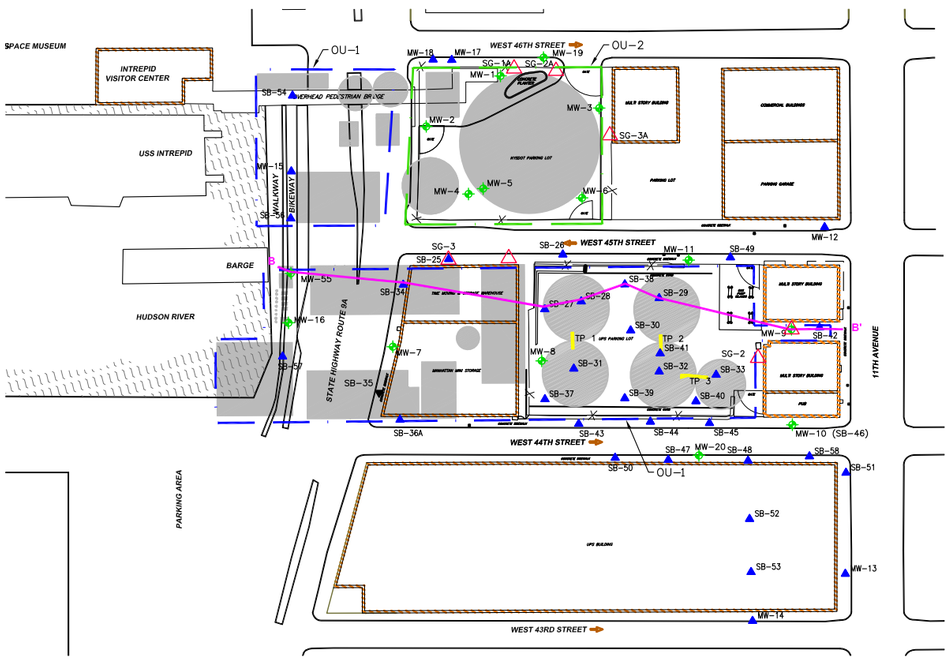

KEY MAP
SHOWING CROSS-SECTION LINE B-B'

LEGEND:

- FILL (SAND, GRAVEL, BRICK, CONCRETE)
- SILT
- SAND
- PEAT
- CLAY
- GRAVEL
- SUSPECTED BEDROCK
- SUSPECTED HOLDER BOTTOM
- VISIBLE NAPL OR 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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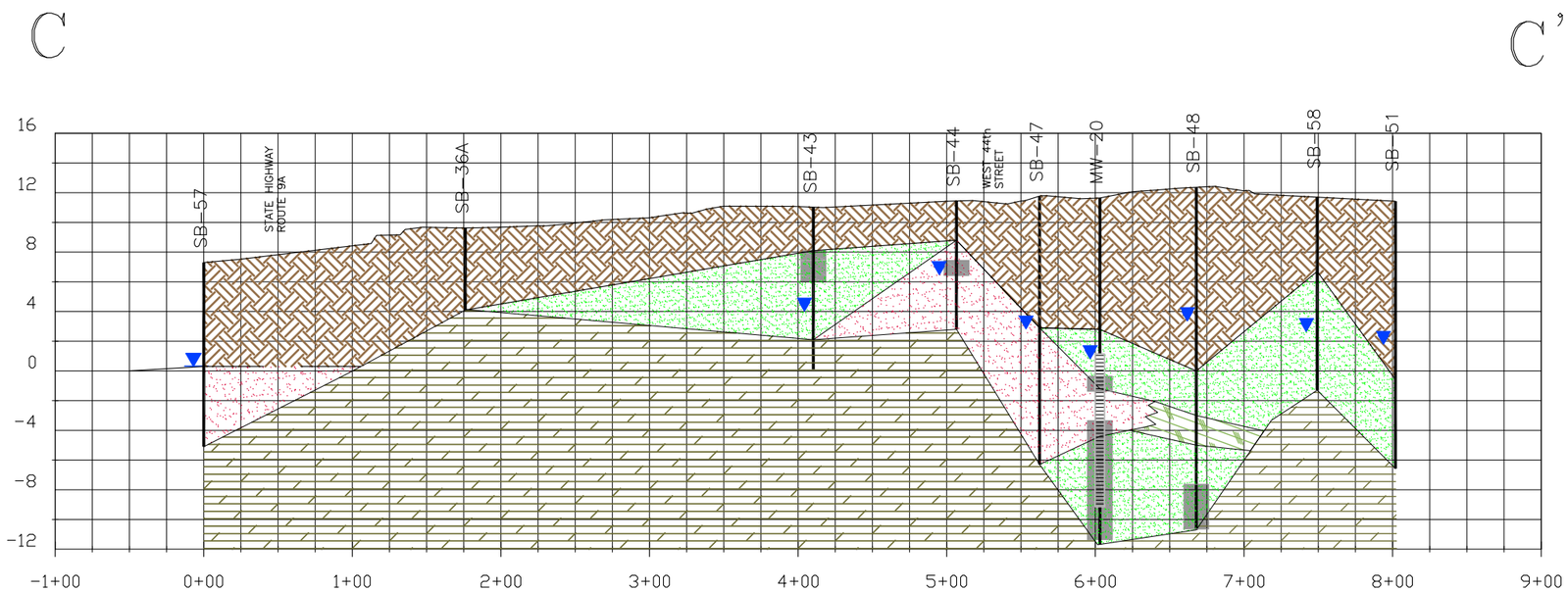
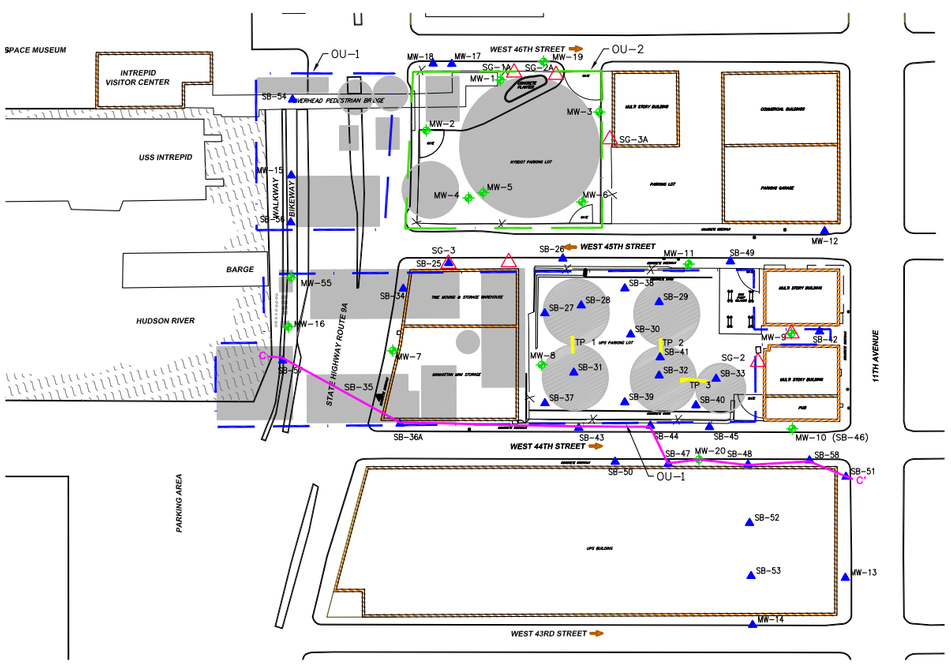




KEY MAP
SHOWING CROSS-SECTION LINE C-C'

LEGEND:

- FILL (SAND, GRAVEL, BRICK, CONCRETE)
- SILT
- SAND
- PEAT
- CLAY
- GRAVEL
- SUSPECTED BEDROCK
- SUSPECTED HOLDER BOTTOM
- VISIBLE NAPL OR 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

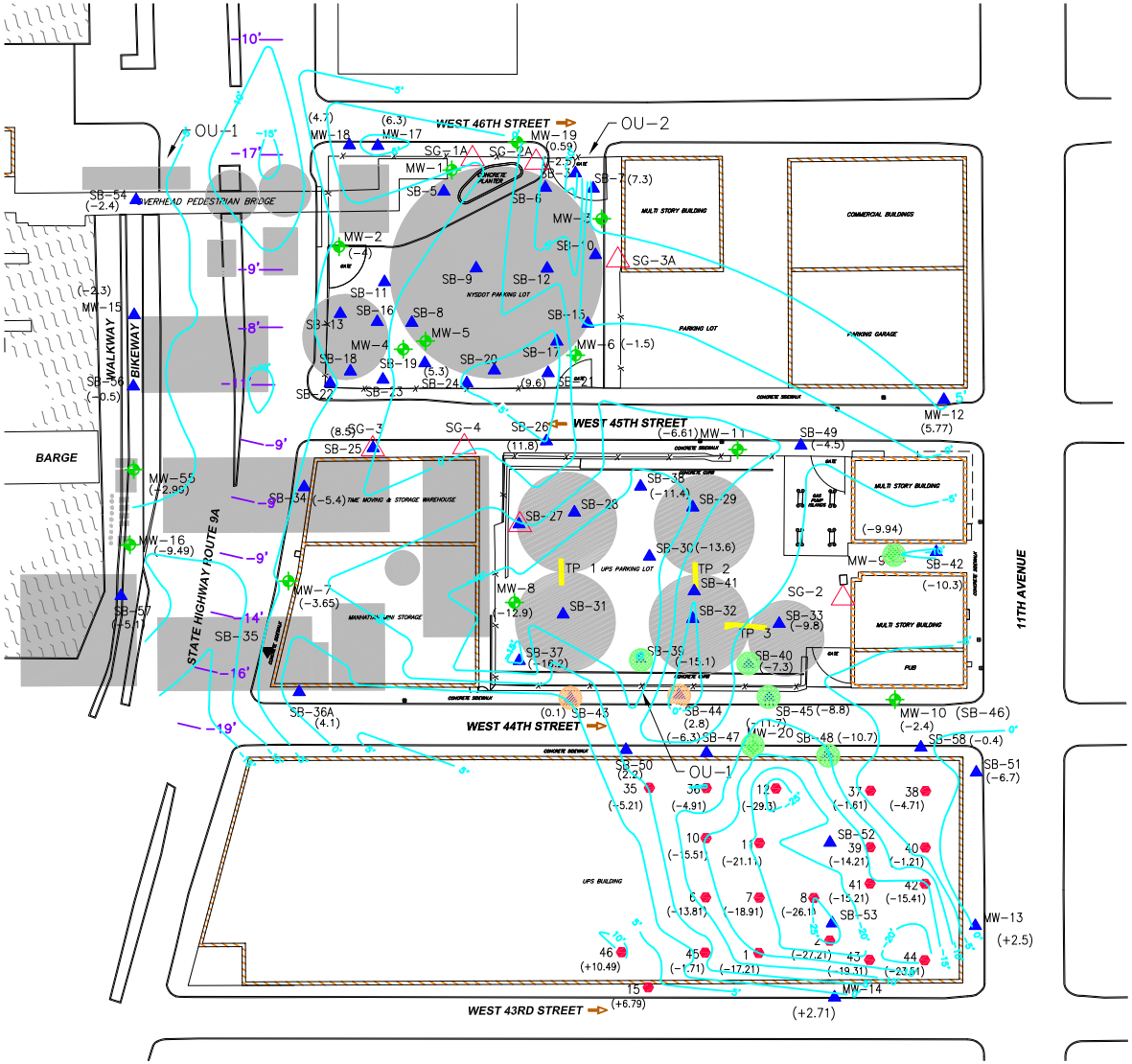
FIGURE 6

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
PLOT DATE: 4/7/2008 10:40 AM PLOTTED BY: RUSSO, JILL



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.

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'

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.

80 40 0 80 160

SCALE: 1"=80'

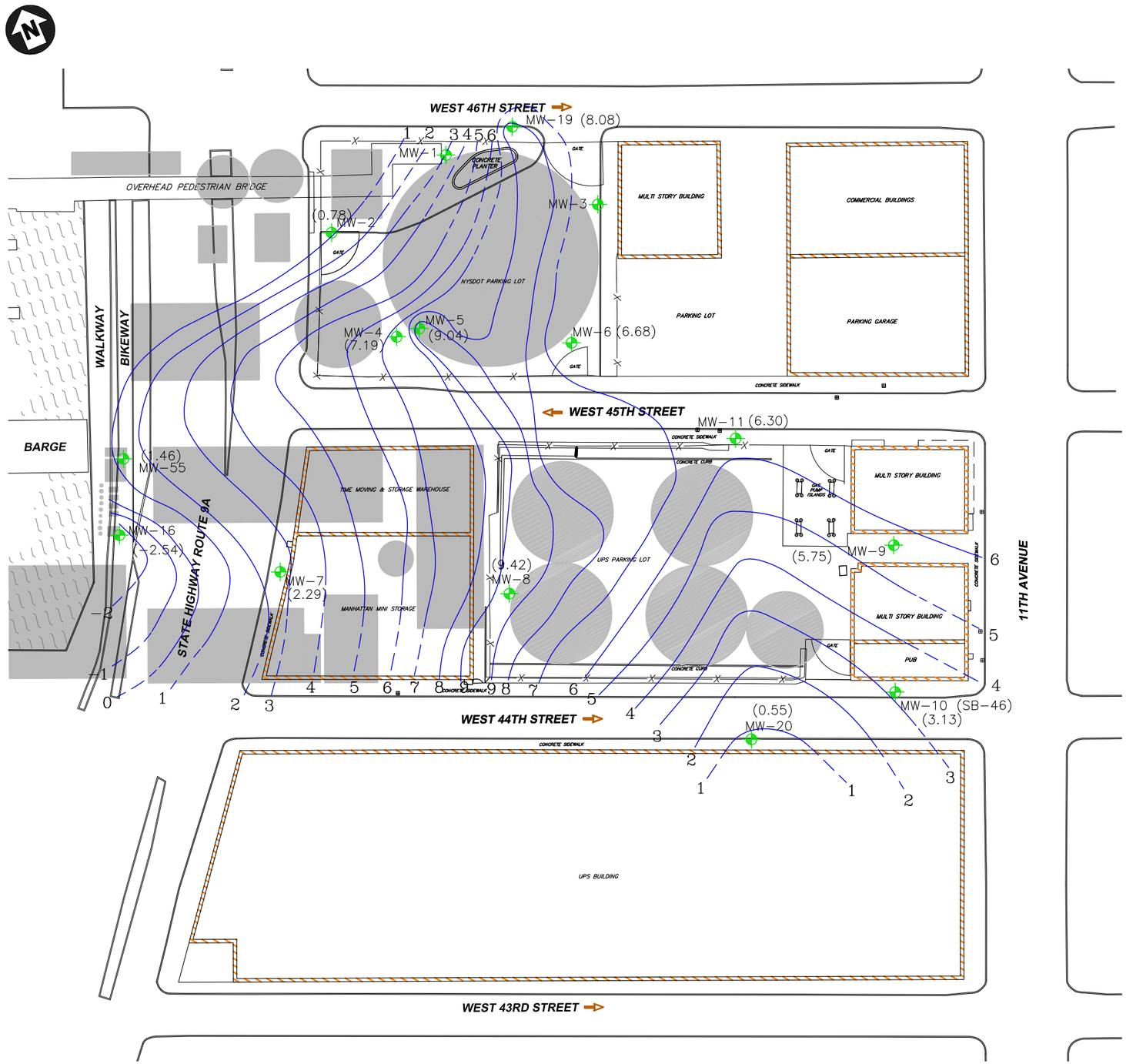
FIGURE 7

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

FILE NAME: P:\CONED\446340 - W45TH ST\CAD\446340-C004.DWG
PLOT DATE: 11/15/2010 1:40 PM PLOTTED BY: RUSSO, JILL



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'

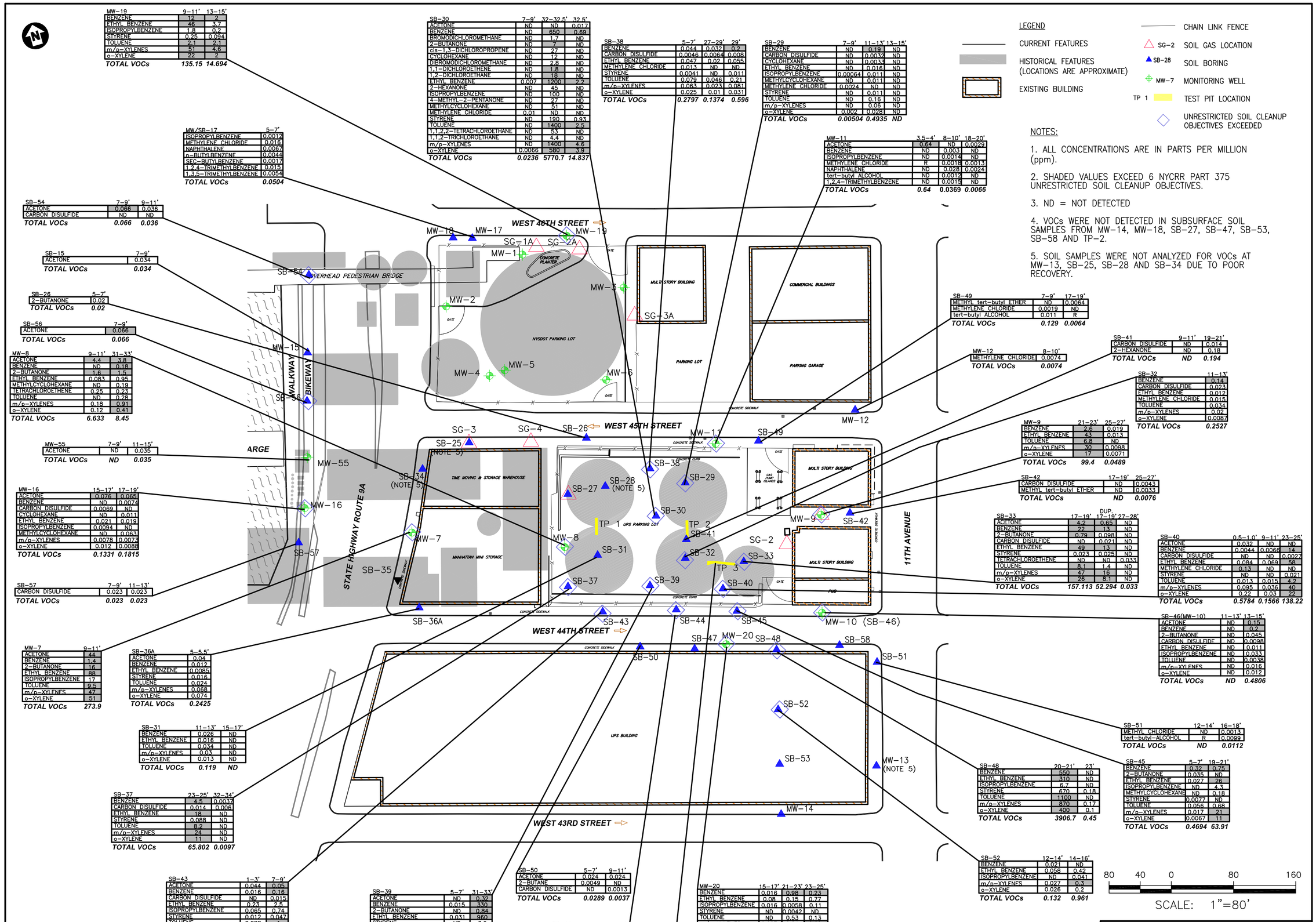
FILE NAME: P:\CONED\442145 - WEST 45TH STREET\CAD\RIR REPORT\442145RIR007.DWG
PLOT DATE: 4/2/2008 11:58 AM PLOTTED BY: RUSSO, JILL

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	53	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–butyl ALCOHOL	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
CARBON DISULFIDE	ND	ND
TOTAL VOCs	*0.066*	*0.036*

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	0.0631
m/p–XYLENES	0.0078	0.0072
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	8.1	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	0.0068	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
- UNRESTRICTED SOIL CLEANUP OBJECTIVES EXCEEDED

NOTES:

1. ALL CONCENTRATIONS ARE IN PARTS PER MILLION (ppm).
2. SHADED VALUES EXCEED 6 NYCRR PART 375 UNRESTRICTED SOIL CLEANUP OBJECTIVES.
3. ND = NOT DETECTED
4. VOCs WERE NOT DETECTED IN SUBSURFACE SOIL SAMPLES FROM MW–14, MW–18, SB–27, SB–47, SB–53, SB–58 AND TP–2.
5. SOIL SAMPLES WERE NOT ANALYZED FOR VOCs AT MW–13, SB–25, SB–28 AND SB–34 DUE TO POOR RECOVERY.

80 40 0 80 160

SCALE: 1"=80'

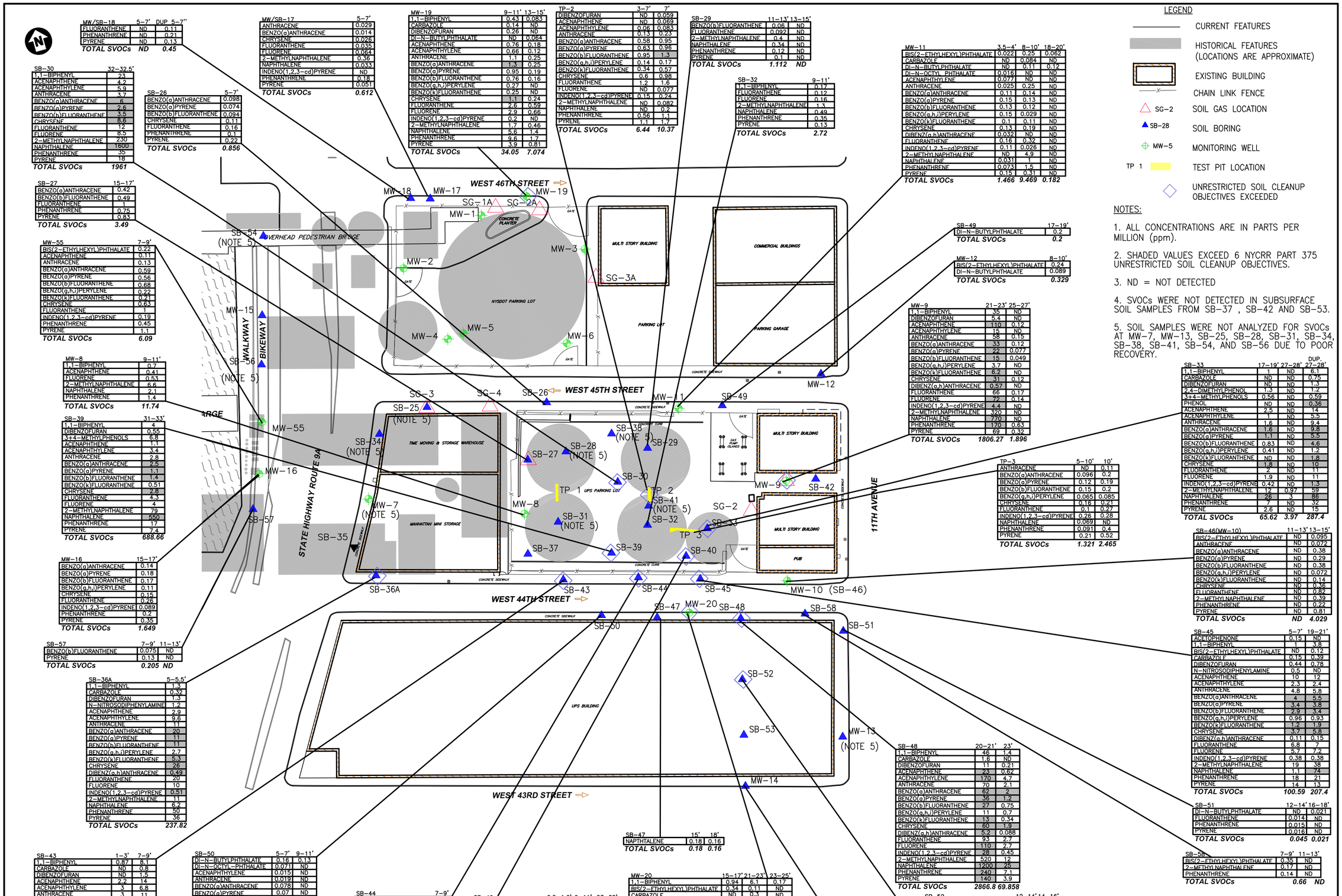
FIGURE 9

CONSOLIDATED EDISON
FORMER WEST 46th STREET GAS WORKS (OU–1)
NEW YORK, NY

SUMMARY OF VOCs DETECTED IN SUBSURFACE SOIL

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

FILE NAME: P:\CONED\446340 – W45TH ST\CAD\446340–C003.DWG
PLOT DATE: 11/29/2010 9:14 AM 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	2.30
NAPHTHALENE	1600
PHENANTHRENE	35
PYRENE	18
TOTAL SVOCs	1961

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	17
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	1.1	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

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

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

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

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

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-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

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

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	0.21
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

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	17	0.97	59
NAPHTHALENE	26	3	86
PHENANTHRENE	7	ND	32
PYRENE	2.6	ND	15
TOTAL SVOCs	65.62	3.97	287.4

SB-46(MW-10)	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-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

SB-47	15'	18'
NAPTHTALENE	0.18	0.16
TOTAL SVOCs	0.18	0.16

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-52	12–14'	14–16'
1,1–BIPHENYL	0.11	3.8
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-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

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
- UNRESTRICTED SOIL CLEANUP OBJECTIVES EXCEEDED

NOTES:

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

80 40 0 80 160

SCALE: 1"=80'

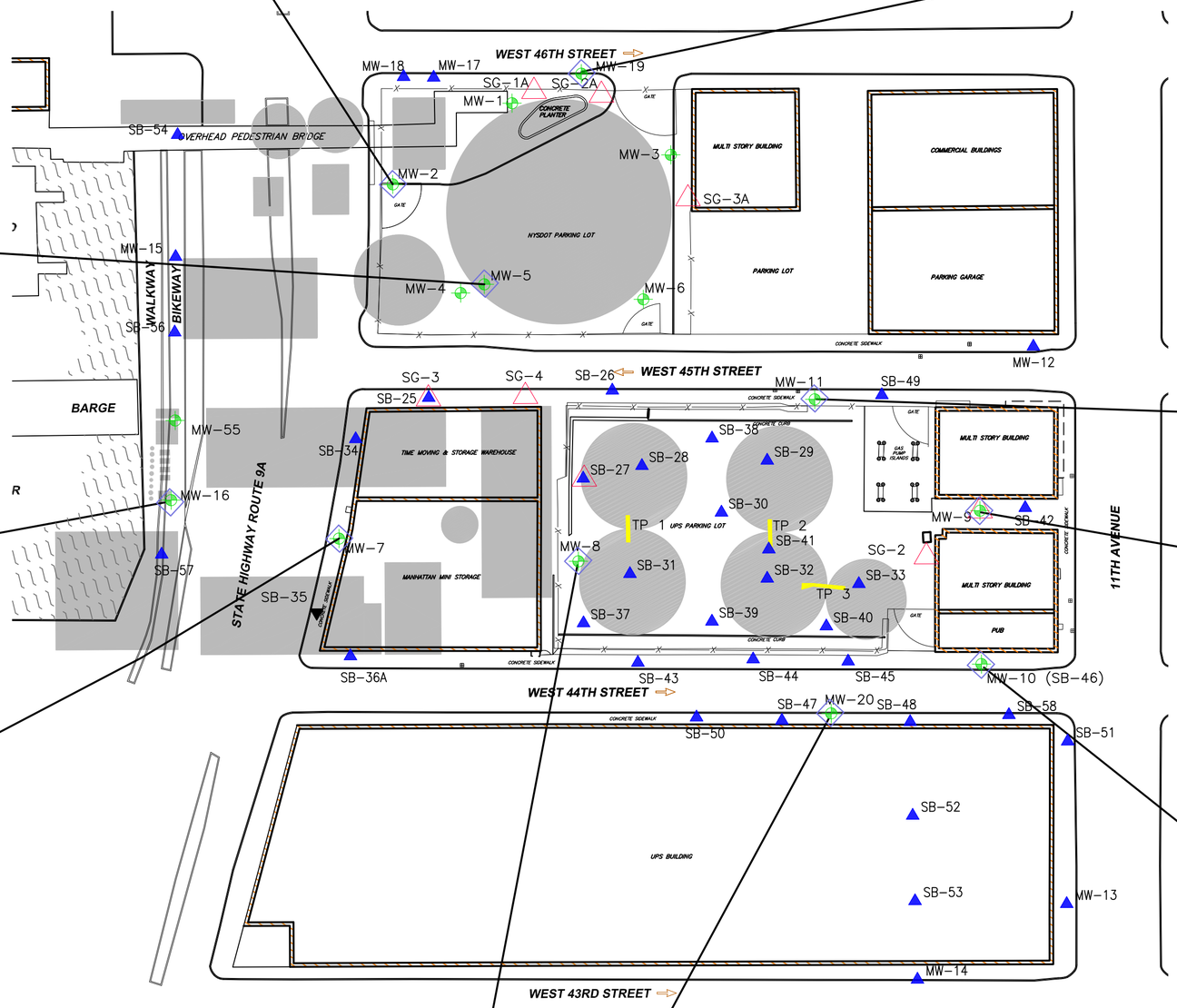
FIGURE 10

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

SUMMARY OF SVOCS DETECTED IN SUBSURFACE SOIL

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

FILE NAME: P:\CONED\446340 – W45TH ST\CAD\446340-C005.DWG
PLOT DATE: 11/22/2010 8:57 AM PLOTTED BY: RUSSO, JILL



MW-2 SVOCs	5/22/07
DIBENZOFURAN	1.7
ACENAPHTHENE	36
ACENAPHTHYLENE	5.9
FLUORENE	2.2

MW-19 VOCs	5/10/07
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	5/10/07
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	80
2-METHYLNAPHTHALENE	130
NAPHTHALENE	1400
PHENANTHRENE	61
PYRENE	4.1

MW-5 VOCs	5/22/07
ACETONE	36
BENZENE	260
CARBON DISULFIDE	1.4
CYCLOHEXANE	1.1
ETHYL BENZENE	250
ISOPROPYLBENZENE	32
METHYL-TERT-BUTYL ETHER	3.1
METHYLCYCLOHEXANE	1.6
STYRENE	3.7
TOLUENE	110
m/p-XYLENES	150
o-XYLENE	90

SVOCs	5/22/07
1,1-BIPHENYL	6.5
ACENAPHTHENE	16
ACENAPHTHYLENE	3.5
ANTHRACENE	1.8
FLUORANTHENE	1.8
FLUORENE	11
2-METHYLNAPHTHALENE	45
NAPHTHALENE	460
PHENANTHRENE	13
PYRENE	2.8

MW-16 VOCs	5/8/07
BENZENE	1.3

SVOCs	5/8/07
BIS(2-ETHYLHEXYL)PHTHALATE	1.6

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

SVOCs	5/10/07
NAPHTHALENE	2.1

MW-9 VOCs	3/17/06	3/17/06 DUP.	5/22/07
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

MW-7 VOCs	3/17/06	5/10/07
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	3/17/06	3/17/06 DUP	5/22/07
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	530	520
NAPHTHALENE	4600	4400	4400
PHENANTHRENE	53	48	38
PYRENE	10	8.2	3.7

MW-10 VOCs	3/31/06	5/10/07	DUP 5/10/07
BENZENE	ND	2300	2300
CYCLOHEXANE	R	2	2.3
1,2-DICHLORORETHANE	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	3/31/06	5/10/07	DUP 5/10/07
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

SVOCs	3/17/06	5/10/07
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-8 VOCs	3/17/06	5/22/07
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 VOCs	5/22/07
BENZENE	4700
CYCLOBENZENE	1.1
ETHYL BENZENE	740
ISOPROPYLBENZENE	64
STYRENE	1.8
TOLUENE	56
m/p-XYLENES	130
o-XYLENE	210

SVOCs	5/22/07
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

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. MW-1 WAS DAMAGED AND COULD NOT BE SAMPLED.
7. MW-3 WAS COVERED BY A CONSTRUCTION TRAILER AND WAS NOT ACCESSABLE DURING THE MAY 2007 SAMPLING EVENT.
8. NAPL WAS OBSERVED IN MW-4 AND MW-6 DURING THE MAY 2007 SAMPLING EVENT. THEREFORE, THESE MONITORING WELLS WERE NOT SAMPLED.
9. GROUNDWATER SAMPLES WERE NOT COLLECTED FROM LOCATIONS MW-12 THROUGH MW-15, 17 AND 18.

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 40 0 80 160

SCALE: 1"=80'

FIGURE 11

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\446340 - W45TH ST\CAD\446340-C006.DWG
PLOT DATE: 11/22/2010 9:01 AM PLOTTED BY: RUSSO, JILL