

Table 5
Summary of VOCs in Groundwater
West 34th Street Site
New York, NY

Client ID	TOGS Class GA Groundwater Standards	SB-1	SB-5	MW-1	MW-2	MW-3	MW-4	PE-19
Date Sampled	ug/L	6/3/2005 ug/L	7/28/2005 ug/L	7/8/2005 ug/L	7/8/2005 ug/L	7/8/2005 ug/L	7/8/2005 ug/L	7/8/2005 ug/L
Units								
Compound								
1,2-Dichlorobenzene	4.7	7	2	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	5	220	820	ND	11.0	16	670	450
1,2,4,5-Tetramethylbenzene		13	2	ND	4.0	2	120	32
1,3,5-Trimethylbenzene		58	210	ND	4	8	320	98
Chloromethane	50	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	ND	ND	ND	ND	ND	ND	ND
Bromomethane	5	ND	ND	ND	1	ND	ND	ND
Chloroethane	5	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	50	ND	ND	ND	ND	ND	ND	ND
4-Isopropyltoluene		ND	ND	ND	ND	ND	ND	ND
Acetone	50	ND	51	ND	38	270	ND	ND
Methylene chloride	5	ND	ND	ND	19	48	ND	ND
trans-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND
Methyl-tert-butyl-ether (MTBE)	10	6	16	ND	ND	290	75	ND
1,1-Dichloroethane	5	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	50	ND	37	ND	19	ND	ND	ND
Chloroform	7	ND	ND	ND	2	ND	14	ND
Chloromethane	NS	ND	ND	ND	19	ND	ND	ND
1,1,1-Trichloroethane	5	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	ND	ND	ND	ND	ND	ND	ND
Benzene	0.7	200	150	ND	7.0	15.0	17.0	85
1,2-Dichloroethane	5	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	1	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	5	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	0.4	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone (MIBK)	NS	ND	ND	ND	ND	ND	ND	ND
Toluene	5	3	4	ND	3.0	4.0	4	130
trans-1,3-Dichloropropene	0.4	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	1	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	NS	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	5	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	5	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	5	110	850	ND	ND	58.0	180	550
Isopropylbenzene		19	46	ND	ND	6.0	19.0	81.0
n-Propylbenzene		26	120	ND	ND	ND	ND	ND
m&p xylene	5	550	2400	ND	ND	25	580	710
n-Butylbenzene		ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene		26	120	ND	ND	9.0	8	65
Naphthalene	10	56	270	ND	16.0	5.0	100	260
o-xylene	5	280	980	ND	1.0	7.0	21	110
p-Diethylbenzene		ND	80	ND	ND	ND	ND	ND
p-Ethyltoluene		41	800	ND	ND	17.0	430	350
p-Isopropyltoluene		ND	3	ND	ND	ND	8	20
sec-Butylbenzene		ND	9	ND	ND	ND	6	10
tert-Butylbenzene		ND	ND	ND	ND	ND	1	3
Styrene	5	ND	ND	ND	ND	ND	ND	ND
Bromoform	NS	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	5	ND	ND	ND	ND	ND	ND	ND
Xylenes (total)	5	830	3380	ND	1	32	601	820
Total VOCs		1615	6970	-	144	780	2573	2954

Notes

VOCs = Volatile Organic Compounds

Samples analyzed for VOCs using

EPA Method 8260.

NYSDEC Division of Water Technical and Operational Guidance Series (TOGS)

1.1.1. Class GA Groundwater Standards (Class GA Standards).

Bold values exceeded the TOGS Class GA Standards

NS - No Standard

ND = Not Detected

For explanation of qualifiers, see Table 8.

Table 5
Summary of VOCs in Groundwater
West 34th Street Site
New York, NY

Client ID	TOGS Class GA Groundwater Standards	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	PE-19
Date Sampled		8/17/2005	8/17/2005	8/17/2005	8/17/2005	8/17/2005	8/17/2005	8/17/2005	8/17/2005	8/17/2005
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Compound										
1,2-Dichlorobenzene	4.7	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	5	ND	2.0	ND	93	ND	420	ND	2	510
1,2,4,5-Tetramethylbenzene		ND	1.0	2.0	14	ND	25	1	30	14
1,3,5-Trimethylbenzene		ND	1.0	ND	190	ND	68	ND	9	82
Chloromethane	50	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	2	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromomethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	50	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Isopropyltoluene		ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	50	ND	ND	20	50	ND	ND	ND	24	ND
Methylene chloride	5	ND	ND	ND	ND	ND	ND	ND	2	ND
trans-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl-tert-butyl-ether (MTBE)	10	ND	ND	89	210	ND	ND	ND	2	ND
1,1-Dichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	50	ND	ND	ND	19	ND	ND	ND	13	ND
Chloroform	7	ND	ND	ND	ND	ND	ND	5	2	ND
Chloromethane	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	0.7	ND	ND	ND	35.0	ND	5	ND	3	56
1,2-Dichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	5	ND	2	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	1	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	0.4	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone (MIBK)	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	3.0	ND	3	ND	ND	99
trans-1,3-Dichloropropene	0.4	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	1	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	5	ND	ND	ND	2.0	ND	150	ND	17	660
Isopropylbenzene		ND	ND	ND	ND	ND	12.0	ND	16.0	60.0
n-Propylbenzene		ND	ND	ND	ND	ND	ND	ND	ND	ND
m&p xylene	5	ND	ND	ND	290	ND	410	ND	7	1100
n-Butylbenzene		ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene		ND	ND	ND	1.0	ND	37	ND	33	51
Naphthalene	10	ND	2.0	ND	ND	ND	91	ND	20	240
o xylene	5	ND	ND	ND	16.0	ND	120	ND	3	98
p-Diethylbenzene		ND	ND	ND	ND	ND	46	ND	17	25
p-Ethyltoluene		ND	ND	ND	130	ND	300	ND	18	410
p-Isopropyltoluene		ND	1	ND	2	ND	2	ND	2	12
sec-Butylbenzene		ND	ND	ND	ND	ND	4	ND	3	5
tert-Butylbenzene		ND	ND	ND	ND	ND	ND	ND	ND	2
Styrene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes (total)	5	ND	0.0	0.0	306.0	ND	530.0	0.0	10.0	1198.0
Total VOCs		-	9	111	1055		1693	6	223	3424

Notes

VOCs = Volatile Organic Compounds

Samples analyzed for VOCs using

EPA Method 8260.

NYSDEC Division of Water Technical and Operational Guidance Series (TOGS)

1.1.1. Class GA Groundwater Standards (Class GA Standards).

Bold values exceeded the TOGS Class GA Standards

NS - No Standard

ND = Not Detected

For explanation of qualifiers, see Table 8.

Table 5
Summary of VOCs in Groundwater
West 34th Street Site
New York, NY

Client ID	TOGS Class GA Groundwater Standards	MW-8 N. of UST 9/27/2005 ug/L	MW-3 S. Middle 9/27/2005 ug/L	MW-2 SW Corner 9/27/2005 ug/L	PE # 19 North Side 9/27/2005 ug/L	MW-4 1/11/2006 ug/L
Date Sampled Units	ug/L					
Compound						
1 2-Dichlorobenzene	4.7	1.0 U	1.0 U	1.0 U	20.0 U	NT
1,2,4-Trimethylbenzene	5	1.0	1.0	9.4	286	NT
1245 Tetramethylbenzene		1.0	1.0	1.0 U	20.0 U	NT
1,3,5-Trimethylbenzene		1.0	1.0 U	1.0 U	175	NT
Chloromethane	50	1.0 U	1.0 U	1.0 U	20.0 U	NT
Vinyl chloride	2	1.0 U	1.0 U	1.0 U	20.0 U	NT
Bromomethane	5	1.0 U	1.0 U	1.0 U	20.0 U	NT
Chloroethane	5	1.0 U	1.0 U	1.0 U	20.0 U	NT
1 1-Dichloroethene	5	1.0 U	1.0 U	1.0 U	20.0 U	NT
Carbon disulfide	50	1.0 U	1.0 U	1.0 U	20.0 U	NT
4-Isopropyltoluene		1.0	1.0	5.8	62	NT
Acetone	50	1.0 U	1.0 U	1.0 U	20.0 U	NT
Methylene chloride	5	1.0 U	1.0 U	1.0 U	20.0 U	NT
trans-1 2-Dichloroethene	5	1.0 U	1.0 U	1.0 U	20.0 U	NT
Methyl-tert-butyl-ether (MTBE)	10	1.0 U	140	1.0 U	20.0 U	281
1 1-Dichloroethane	5	1.0 U	1.0 U	1.0 U	20.0 U	NT
cis-1 2-Dichloroethene	5	1.0 U	1.0 U	1.0 U	20.0 U	NT
2-Butanone (MEK)	50	1.0 U	1.0 U	1.0 U	20.0 U	NT
Chloroform	7	1.0 U	1.0 U	1.0 U	20.0 U	NT
Chloromethane	NS	1.0 U	1.0 U	1.0 U	20.0 U	NT
1 1 1-Trichloroethane	5	1.0 U	1.0 U	1.0 U	20.0 U	NT
Carbon tetrachloride	5	1.0 U	1.0 U	1.0 U	20.0 U	NT
Benzene	0.7	1.0	1.0	1.0	42.0	NT
1 2-Dichloroethane	5	1.0 U	1.0 U	1.0 U	20.0 U	NT
Trichloroethene	5	1.0 U	1.0 U	1.0 U	20.0 U	NT
1 2-Dichloropropane	1	1.0 U	1.0 U	1.0 U	20.0 U	NT
Bromodichloromethane	5	1.0 U	1.0 U	1.0 U	20.0 U	NT
cis-1 3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	20.0 U	NT
4-Methyl-2-pentanone (MIBK)	NS	1.0 U	1.0 U	1.0 U	20.0 U	NT
Toluene	5	1.0	1.0	1.0	81	NT
trans-1 3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	20.0 U	NT
1 1 2-Trichloroethane	1	1.0 U	1.0 U	1.0 U	20.0 U	NT
Tetrachloroethene	5	1.0 U	1.0 U	1.0 U	20.0 U	NT
2-Hexanone	NS	1.0 U	1.0 U	1.0 U	20.0 U	NT
Dibromochloromethane	5	1.0 U	1.0 U	1.0 U	20.0 U	NT
Chlorobenzene	5	1.0 U	1.0 U	1.0 U	20.0 U	NT
Ethylbenzene	5	1.0	5.6	1.0	510	NT
Isopropylbenzene		1.0	1.0	1.0	71.0	ND
m&p xylene	5	2.0	2.3	1.0 U	430	200
n-Butylbenzene		1.0 U	1.0 U	1.0 U	20.0 U	ND
n-Propylbenzene		1.0	1.0	1.0	62	NT
Naphthalene	10	1.0	1.0	13.0	210	NT
o xylene	5	1.0	1.0	1.0	97	22.2
p-Diethylbenzene		1.0	1.0	4.2	56	NT
p-Ethyltoluene		1.0	1.0	1.0	230	NT
p-Isopropyltoluene		1.0 U	1.0 U	1.0 U	20.0 U	ND
sec-Butylbenzene		1.0 U	1.0 U	1.0 U	20.0 U	ND
tert-Butylbenzene		1.0 U	1.0	1.0	41.0	ND
Styrene	5	1.0	1.0 U	1.0 U	20.0 U	ND
Bromoform	NS	1.0 U	1.0 U	1.0 U	20.0 U	NT
1 1 2 2-Tetrachloroethane	5	1.0 U	1.0 U	1.0 U	20.0 U	NT
Xylenes (total)	5	3.0	3.3	2.0	527.0	222
Total VOCs		52	195.9	79.4	3093	503.2

Notes

VOCs = Volatile Organic Compounds

Samples analyzed for VOCs using

EPA Method 8260.

NYSDEC Division of Water Technical and Operational Guidance Series (TOGS)

1.1.1. Class GA Groundwater Standards (Class GA Standards).

Bold values exceeded the TOGS Class GA Standards

NS - No Standard

ND = Not detected

NT = Not Tested

For explanation of qualifiers, see Table 8.

Table 6
Summary of SVOCs in Groundwater
West 34th Street Site
New York, NY

Client ID	TOGS Class GA Groundwater Standards	MW-2	MW-3	MW-4	PE-19
Date Sampled		7/8/2005	7/8/2005	7/8/2005	7/8/2005
Units	ug/L	ug/L	ug/L	ug/L	ug/L
Compound					
Phenol		NT	NT	NT	NT
Bis(2-chloroethyl)ether	50	NT	NT	NT	NT
1 3-Dichlorobenzene	5	NT	NT	NT	NT
1 4-Dichlorobenzene	5	NT	NT	NT	NT
1 2-Dichlorobenzene	4.7	NT	NT	NT	NT
2-Methylphenol	5	NT	NT	NT	NT
2 2-oxybis (1-chloropropane)	NS	NT	NT	NT	NT
n-Nitroso-di-n-propylamine	NS	NT	NT	NT	NT
Hexachloroethane	5	NT	NT	NT	NT
4-Methylphenol		NT	NT	NT	NT
2-Chlorophenol	50	NT	NT	NT	NT
Nitrobenzene	0.4	NT	NT	NT	NT
Bis(2-chloroethoxy)methane	5	NT	NT	NT	NT
1 2 4-Trichlorobenzene	5	NT	NT	NT	NT
Isophorone	50	NT	NT	NT	NT
2 4-Dimethylphenol	NS	NT	NT	NT	NT
Hexachlorobutadiene	0.5	NT	NT	NT	NT
Naphthalene	10	7	2	47	130
2 4-Dichlorophenol		NT	NT	NT	NT
4-Chloroaniline	5	NT	NT	NT	NT
2 4 6-Trichlorophenol		NT	NT	NT	NT
2 4 5-Trichlorophenol	1	NT	NT	NT	NT
Hexachlorocyclopentadiene	5	NT	NT	NT	NT
2-Methylnaphthalene	50	NT	NT	NT	NT
2-Nitroaniline	5	NT	NT	NT	NT
2-Chloronaphthalene	10	NT	NT	NT	NT
4-Chloro-3-methylphenol	5	NT	NT	NT	NT
2 6-Dinitrotoluene	5	NT	NT	NT	NT
2-Nitrophenol	5	NT	NT	NT	NT
3-Nitroaniline	5	NT	NT	NT	NT
Dimethyl phthalate	50	NT	NT	NT	NT
2 4-Dinitrophenol		NT	NT	NT	NT
Acenaphthylene	20	ND	ND	ND	ND
2 4-Dinitrotoluene	5	NT	NT	NT	NT
Acenaphthene	20	ND	ND	ND	ND
Dibenzofuran	5	NT	NT	NT	NT
4-Nitrophenol	5	NT	NT	NT	NT
Fluorene	50	ND	ND	ND	ND
4-Nitroaniline	5	NT	NT	NT	NT
4-Bromophenyl phenyl ether	NS	NT	NT	NT	NT
Hexachlorobenzene	0.35	NT	NT	NT	NT
Diethyl phthalate	50	NT	NT	NT	NT
4-Chlorophenyl phenyl ether	NS	NT	NT	NT	NT
Pentachlorophenol	1	NT	NT	NT	NT
n-Nitrosodiphenylamine	NS	NT	NT	NT	NT
Phenanthrene	50	ND	ND	ND	ND
Anthracene	50	ND	ND	ND	ND
Carbazole		NT	NT	NT	NT
Di-n-butyl phthalate	50	NT	NT	NT	NT
Fluoranthene	50	ND	ND	ND	ND
Pyrene	50	ND	ND	ND	ND
Butyl benzyl phthalate	50	NT	NT	NT	NT
Benzo(a)anthracene	0.002	ND	ND	ND	ND
Chrysene	0.002	ND	ND	ND	ND
3 3-Dichlorobenzidine	NS	NT	NT	NT	NT
Bis(2-ethylhexyl)phthalate	50	NT	NT	NT	NT
Di-n-octyl phthalate	50	NT	NT	NT	NT
Benzo(b)fluoranthene	0.002	ND	ND	ND	ND
Benzo(k)fluoranthene	0.002	ND	ND	ND	ND
Benzo(a)pyrene	0.002	ND	ND	ND	ND
Indeno(1 2 3-cd)pyrene	0.002	ND	ND	ND	ND
Dibenzo(a h)anthracene	50	ND	ND	ND	ND
Benzo(ghi)perylene	5	ND	ND	ND	ND
Total SVOCs		7	2	47	130
cPAHs					

Notes

SVOCs = Semi-Volatile Organic Compounds

cPAHs = Carcinogenic Polyaromatic Hydrocarbons

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1.1.1. Class GA Groundwater Standards (Class GA Standards).

Bold values exceeded the TOGS Class GA Standards

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Summary of SVOCs in Groundwater
West 34th Street Site
New York, NY

Client ID	TOGS Class GA Groundwater Standards	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	PE-19
Date Sampled Units	ug/L	8/17/2005 ug/L	8/17/2005 ug/L	8/17/2005 ug/L	8/17/2005 ug/L	8/17/2005 ug/L	8/17/2005 ug/L	8/17/2005 ug/L	8/17/2005 ug/L	8/17/2005 ug/L
Compound										
Phenol		ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-chloroethyl)ether	50	ND	ND	ND	ND	ND	ND	ND	ND	ND
1 3-Dichlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
1 4-Dichlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
1 2-Dichlorobenzene	4.7	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylphenol	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
2 2-oxybis (1-chloropropane)	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Nitroso-di-n-propylamine	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methylphenol		ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorophenol	50	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nitrobenzene	0.4	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-chloroethoxy)methane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
1 2 4-Trichlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isophorone	50	ND	ND	ND	ND	ND	ND	ND	ND	ND
2 4-Dimethylphenol	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	10	ND	3	ND	ND	ND	100	ND	2	230
2 4-Dichlorophenol		ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloroaniline	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
2 4 6-Trichlorophenol		ND	ND	ND	ND	ND	ND	ND	ND	ND
2 4 5-Trichlorophenol	1	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	50	4	ND	ND	ND	ND	81	ND	2	25
2-Nitroaniline	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Chloronaphthalene	10	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
2 6-Dinitrotoluene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Nitrophenol	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
3-Nitroaniline	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dimethyl phthalate	50	ND	ND	ND	ND	ND	ND	ND	ND	ND
2 4-Dinitrophenol		ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	20	ND	ND	ND	ND	ND	ND	ND	ND	ND
2 4-Dinitrotoluene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	20	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitrophenol	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	50	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Nitroaniline	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobenzene	0.35	ND	ND	ND	ND	ND	ND	ND	ND	ND
Diethyl phthalate	50	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pentachlorophenol	1	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Nitrosodiphenylamine	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	50	ND	ND	ND	ND	ND	22	ND	1	ND
Anthracene	50	ND	ND	ND	ND	ND	4	ND	ND	ND
Carbazole		ND	ND	ND	ND	ND	ND	ND	ND	ND
Di-n-butyl phthalate	50	ND	ND	ND	1	ND	ND	ND	18	ND
Fluoranthene	50	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	50	ND	ND	ND	ND	ND	41	ND	ND	ND
Butyl benzyl phthalate	50	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	0.002	ND	ND	ND	ND	ND	12	ND	ND	ND
Chrysene	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND
3 3-Dichlorobenzidine	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bis(2-ethylhexyl)phthalate	50	4	2	4	2	3	ND	5	7	ND
Di-n-octyl phthalate	50	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	0.002	ND	ND	ND	ND	ND	8.5	ND	ND	ND
Benzo(k)fluoranthene	0.002	ND	ND	ND	ND	ND	8.5	ND	ND	ND
Benzo(a)pyrene	0.002	ND	ND	ND	ND	ND	7	ND	ND	ND
Indeno(1 2 3-cd)pyrene	0.002	ND	ND	ND	ND	ND	ND	ND	4	ND
Dibenzo(a h)anthracene	50	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(ghi)perylene	5	ND	ND	ND	ND	ND	5	ND	ND	ND
Total SVOCs		8	5	4	3	3	289	5	34	255
cPAHs		0	0	0	0	0	108	0	1	1

Notes

SVOCs = Semi-Volatile Organic Compounds

cPAHs = Carcinogenic Polyaromatic Hydrocarbons

NYSDEC Division of Water Technical and Operational Guidance Series (TOGS)

1.1.1. Class GA Groundwater Standards (Class GA Standards).

Bold values exceeded the TOGS Class GA Standards

NS = No Standard

ND = Not detected

For explanation of qualifiers, see Table 8.

Table 6
Summary of SVOCs in Groundwater
West 34th Street Site
New York, NY

Client ID	TOGS Class GA Groundwater Standards	MW-8 N. of UST 9/27/2005 ug/L	MW-3 S. Middle 9/27/2005 ug/L	MW-2 SW Corner 9/27/2005 ug/L	PE-19 North Side 9/27/2005 ug/L
Date Sampled Units	ug/L	ug/L	ug/L	ug/L	ug/L
Compound					
Phenol		5.3 U	5.3 U	5.3 U	5.4 U
Bis(2-chloroethyl)ether	50	5.3 U	5.3 U	5.3 U	5.4 U
1 3-Dichlorobenzene	5	NT	NT	NT	NT
1 4-Dichlorobenzene	5	NT	NT	NT	NT
1 2-Dichlorobenzene	4.7	NT	NT	NT	NT
2-Methylphenol	5	NT	NT	NT	NT
2 2-oxybis (1-chloropropane)	NS	NT	NT	NT	NT
n-Nitroso-di-n-propylamine	NS	5.3 U	5.3 U	5.3 U	5.4 U
Hexachloroethane	5	5.3 U	5.3 U	5.3 U	5.4 U
4-Methylphenol		NT	NT	NT	NT
2-Chlorophenol	50	NT	NT	NT	NT
Nitrobenzene	0.4	5.3 U	5.3 U	5.3 U	5.4 U
Bis(2-chloroethoxy)methane	5	5.3 U	5.3 U	5.3 U	5.4 U
1 2 4-Trichlorobenzene	5	NT	NT	NT	NT
Isophorone	50	5.3 U	5.3 U	5.3 U	5.4 U
2 4-Dimethylphenol	NS	NT	NT	NT	NT
Hexachlorobutadiene	0.5	5.3 U	5.3 U	5.3 U	5.4 U
Naphthalene	10	5.3	5.3	5.3	120
2 4-Dichlorophenol		NT	NT	NT	NT
4-Chloroaniline	5	NT	NT	NT	NT
2 4 6-Trichlorophenol		NT	NT	NT	NT
2 4 5-Trichlorophenol	1	NT	NT	NT	NT
Hexachlorocyclopentadiene	5	5.3 U	5.3 U	5.3 U	5.4 U
2-Methylnaphthalene	50	NT	NT	NT	NT
2-Nitroaniline	5	NT	NT	NT	NT
2-Chloronaphthalene	10	NT	NT	NT	NT
4-Chloro-3-methylphenol	5	NT	NT	NT	NT
2 6-Dinitrotoluene	5	NT	NT	NT	NT
2-Nitrophenol	5	NT	NT	NT	NT
3-Nitroaniline	5	NT	NT	NT	NT
Dimethyl phthalate	50	5.3 U	5.3 U	5.3 U	5.4 U
2 4-Dinitrophenol		NT	NT	NT	NT
Acenaphthylene	20	5.3 U	5.3 U	5.3 U	5.4 U
2 4-Dinitrotoluene	5	NT	NT	NT	NT
Acenaphthene	20	5.3 U	5.3 U	5.3 U	5.4 U
Dibenzofuran	5	5.3 U	5.3 U	5.3 U	5.4 U
4-Nitrophenol	5	NT	NT	NT	NT
Fluorene	50	5.3 U	5.3 U	5.3 U	5.4 U
4-Nitroaniline	5	NT	NT	NT	NT
4-Bromophenyl phenyl ether	NS	NT	NT	NT	NT
Hexachlorobenzene	0.35	5.3 U	5.3 U	5.3 U	5.4 U
Diethyl phthalate	50	5.3 U	5.3 U	5.3 U	5.4 U
4-Chlorophenyl phenyl ether	NS	NT	NT	NT	NT
Pentachlorophenol	1	5.3 U	5.3 U	5.3 U	5.4 U
n-Nitrosodiphenylamine	NS	5.3 U	5.3 U	5.3 U	5.4 U
Phenanthrene	50	5.3 U	5.3 U	5.3 U	5.4 U
Anthracene	50	5.3 U	5.3 U	5.3 U	5.4 U
Carbazole		5.3 U	5.3 U	5.3 U	5.4 U
Di-n-butyl phthalate	50	5.3 U	5.3 U	5.3 U	5.4 U
Fluoranthene	50	5.3 U	5.3 U	5.3 U	5.4 U
Pyrene	50	5.3 U	5.3 U	5.3 U	5.4 U
Butyl benzyl phthalate	50	5.3 U	5.3 U	5.3 U	5.4 U
Benzo(a)anthracene	0.002	5.3 U	5.3 U	5.3 U	5.4 U
Chrysene	0.002	5.3 U	5.3 U	5.3 U	5.4 U
3 3-Dichlorobenzidine	NS	NT	NT	NT	NT
Bis(2-ethylhexyl)phthalate	50	5.3 U	5.3 U	5.3 U	5.4 U
Di-n-octyl phthalate	50	5.3 U	5.3 U	5.3 U	5.4 U
Benzo(b)fluoranthene	0.002	5.3 U	5.3 U	5.3 U	5.4 U
Benzo(k)fluoranthene	0.002	5.3 U	5.3 U	5.3 U	5.4 U
Benzo(a)pyrene	0.002	5.3 U	5.3 U	5.3 U	5.4 U
Indeno(1 2 3-cd)pyrene	0.002	5.3 U	5.3 U	5.3 U	5.4 U
Dibenzo(a h)anthracene	50	5.3 U	5.3 U	5.3 U	5.4 U
Benzo(ghi)perylene	5	5.3 U	5.3 U	5.3 U	5.4 U
Total SVOCs		5.3	5.3	5.3	120
cPAHs		0	0	0	0

Notes

SVOCs = Semi-Volatile Organic Compounds

cPAHs = Carcinogenic Polyaromatic Hydrocarbons

NYSDEC Division of Water Technical and Operational Guidance Series (TOGS)

1.1.1. Class GA Groundwater Standards (Class GA Standards).

Bold values exceeded the TOGS Class GA Standards

NS = No Standard

ND = Not detected

NT = Not Tested

For explanation of qualifiers, see Table 8.

Table 7
Summary of Total Metals in Groundwater
West 34th Street Site
New York, NY

Client ID	NY State Ambient Water Quality Standards	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	PE-19
Date Sampled		7/8/2005	7/8/2005	7/8/2005	7/8/2005	7/8/2005	7/8/2005	7/8/2005	7/8/2005	7/8/2005
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Compound										
Aluminum	NS	ND	ND	120	60	60	NT	10	140	ND
Antimony	3	ND	ND	ND	ND	ND	NT	ND	ND	ND
Arsenic	25	ND	ND	ND	ND	ND	NT	ND	ND	ND
Barium	1,000	240	460	93	1200	340	NT	120	290	4100
Beryllium	3	ND	ND	ND	ND	ND	NT	ND	ND	ND
Cadmium	5	ND	ND	ND	6	8	NT	6	ND	10
Calcium	NS	230000	340000	280000	490000	50000	NT	580000	100000	570000
Chromium	50	ND	ND	ND	ND	ND	NT	ND	ND	ND
Cobalt	NS	ND	ND	ND	ND	ND	NT	20	ND	ND
Copper	200	ND	ND	ND	10	ND	NT	ND	ND	ND
Iron	300	ND	ND	ND	ND	ND	NT	ND	ND	ND
Lead	25	40	300	50	3200	90	NT	30	200	97000
Magnesium	35000	18000	28000	110000	72000	54000	NT	270000	28000	150000
Manganese	300	ND	1000	2500	6300	1200	NT	2700	2800	28000
Mercury	0.7	ND	ND	ND	ND	ND	NT	ND	ND	ND
Nickel	100	ND	ND	ND	ND	20	NT	ND	ND	ND
Potassium	NS	25000	31000	100000	110000	60000	NT	58000	76000	68000
Selenium	10	8	ND	ND	ND	9	NT	28	ND	ND
Silver	50	ND	ND	ND	ND	ND	NT	ND	ND	ND
Sodium	20000	340000	730000	510000	620000	940000	NT	200000	250000	920000
Thallium	0.5	ND	ND	ND	ND	ND	NT	ND	ND	ND
Vanadium	NS	ND	ND	ND	ND	ND	NT	ND	ND	ND
Zinc	2000	60	60	80	140	100	NT	60	60	80

Notes

Soil Samples analyzed for TAL Metals
by EPA Method 6010.

Mercury analyzed by
EPA Method 7471.

NYSDEC Division of Water Technical and Operational Guidance Series (TOGS)

1.1.1. Class GA Groundwater Standards (Class GA Standards).

Bold values exceeded the TOGS Class GA Standards

NS - No Standard

NT- Not tested

For explanation of qualifiers, see Table 8.

Table 7
Summary of Total Metals in Groundwater
West 34th Street Site
New York, NY

Client ID	NY State Ambient Water Quality Standards	MW-8 N. of UST 9/27/2005	MW-3 S. Middle 9/27/2005	MW-2 SW Corner 9/27/2005	PE19 North Side 9/27/2005
Date Sampled					
Units	ug/L	ug/L	ug/L	ug/L	ug/L
Compound					
Aluminum	NS	42400	585 U	27300	35500
Antimony	3	25 U	25 U	25 U	25 U
Arsenic	25	25 U	25 U	25 U	25 U
Barium	1,000	498	77.2 U	712	4390
Beryllium	3	20 U	20 U	20 U	20 U
Cadmium	5	10 U	10 U	10 U	10 U
Calcium	NS	370000	357000	321000	576000
Chromium	50	104 U	5.91 U	58.7 U	106 U
Cobalt	NS	71.5 U	20.0000 U	38.8 U	127 U
Copper	200	116 U	20.0000 U	120 U	167 U
Iron	300	59900	5580	47700	160000
Lead	25	100 U	15 U	15 U	73.9 U
Magnesium	35000	120000	120000	41200	253000
Manganese	300	8240	5980	2300	26100
Mercury	0.7	0 U	0 U	0 U	0 U
Nickel	100	75.8 U	19.1 U	62.8 U	71.7 U
Potassium	NS	152000	176000	71600	142000
Selenium	10	25 U	25 U	25 U	25 U
Silver	50	20 U	20 U	20 U	20 U
Sodium	20000	1090000	452000	995000	1380000
Thallium	0.5	30.2 U	15 U	178 U	15 U
Vanadium	NS	68.9 U	20 U	32.9 U	65.6 U
Zinc	2000	341	65	295	270

Notes

Soil Samples analyzed for TAL Metals
by EPA Method 6010.

Mercury analyzed by
EPA Method 7471.

NYSDEC Division of Water Technical and Operational Guidance Series (TOGS)

1.1.1. Class GA Groundwater Standards (Class GA Standards).

Bold values exceeded the TOGS Class GA Standards

NS - No Standard

For explanation of qualifiers, see Table 8.

Table 8
Qualifiers
West 34th Street Site
New York, NY

Qualifiers

- U - The compound was not detected above the Method Detection Limit (MDL), shown.
- J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than zero.
The concentration given is an approximate value.
- B - The compound was also detected in the trip or field blank.

Table 1
Summary of Detected VOCs in Soil Samples
West 34th Street Site
New York, NY

Sample ID Depth (ft) Sampling Date Units	Unrestricted Use Soil Cleanup Obj's ug/kg	SB-1 (15.5 - 17.5) 6/2/05 ug/kg	SB-2 (12 - 14) 7/28/05 ug/kg	SB-3 (12 - 14) 7/28/05 ug/kg	SB-4 (12 - 16.5) 7/28/05 ug/kg	SB-5 (12 - 16) 7/28/05 ug/kg	SB-5 (16 - 20) 7/28/05 ug/kg	SB-6 (12 - 14) 7/28/05 ug/kg	SB-7 (12 - 15) 7/28/05 ug/kg
Compounds									
1,2-Dichlorobenzene	1,100	22	ND	ND	ND	45	ND	21	ND
1,4-Dichlorobenzene	1,800	ND	ND	ND	ND	7	ND	6	ND
1,2,4-Trimethylbenzene	3,600	3,700	95	160	14	160	84,000	150	54
1,2,4,5-Tetramethylbenzene	NS	210	13	22	ND	630	22,000	69	12
1,3,5-Trimethylbenzene	8,400	1,500	46	64	ND	310	24,000	110	22
Acetone	50	ND	70	110	ND	ND	ND	ND	ND
Benzene	60	47	8	ND	ND	15	ND	ND	ND
2-Butanone (MEK)	120	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Disulfide	NS	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	NS	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	370	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	100	510	28	15	ND	30	14,000	47	10
Isopropylbenzene	NS	270	18	10	ND	340	3,100	15	ND
m&p-xylenes	NS	3,000	76	77	ND	170	51,000	78	44
n-Propylbenzene	3,900	400	9	16	ND	820	13,000	47	7
Methylene Chloride	50	ND	ND	ND	ND	ND	ND	ND	ND
Methyl tert-butyl ether (MTBE)	930	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	12,000	420	1,300	150	7	680	15,000	83	140
n-Butylbenzene	12,000	ND	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	3,900	ND	ND	ND	ND	ND	ND	ND	ND
o-xylene	NS	1,400	34	34	ND	19	16,000	73	21
p-Diethylbenzene	NS	ND	ND	ND	ND	ND	ND	ND	ND
p-Ethyltoluene	NS	2,900	37	32	ND	130	18,000	69	12
p-Isopropyltoluene	NS	55	9	25	ND	44	850	6	ND
sec-Butylbenzene	11,000	77	ND	ND	ND	ND	1,500	7	ND
tert-Butylbenzene	5,900	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	1,300	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	700	560	34	36	ND	10	ND	14	17
Xylenes (total)	260	4,400	110	111	ND	189	67,000	151	65
Total BTEX		5,517	70	51	0	55	14,000	61	27
Total VOCs		15,071	1,777	751	21	3,410	262,450	795	339

Notes

VOCs = Volatile Organic Compounds

Samples analyzed for VOCs using EPA Method 8260.

Unrestricted Use Soil Cleanup Objectives (UUSCOs) from NYCRR Title 6, Table 375-6.8(a)

Bold and highlighted values exceeded the UUSCOs.

ND = Not detected

NS = No standard

NT = Not tested

For explanation of qualifiers, see Table 8.

Table 1
Summary of Detected VOCs in Soil Samples
West 34th Street Site
New York, NY

Sample ID Depth (ft) Sampling Date Units	Unrestricted Use Soil Cleanup Obj's ug/kg	B1, B3 Composite 9/28/05 ug/kg	B4, B5, B6 Composite 9/28/05 ug/kg	GP-1 (13 -14) 11/5/05 ug/kg	GP-2 (10 -20) 11/5/05 ug/kg	GP-3 (5-13) 11/5/05 ug/kg	GP-3 (11 -13) 11/5/05 ug/kg	GP-4 (0 -16) 11/5/05 ug/kg	West Wall 1/9/06 ug/kg
Compounds									
1,2-Dichlorobenzene	1,100	5 U	5 U	6 U	6 U	710 U	700 U	6 U	NT
1,4-Dichlorobenzene	1,800	5 U	5 U	6 U	6 U	710 U	700 U	6 U	NT
1,2,4-Trimethylbenzene	3,600	5 U	5 U	7	6 U	51,000	6,900	6 U	150
1,2,4,5-Tetramethylbenzene	NS	5 U	5 U	6 U	6 U	710 U	700 U	6 U	NT
1,3,5-Trimethylbenzene	8,400	5 U	5 U	6 U	6 U	42,000	5,700	6 U	NT
Acetone	50	5 U	490	6 U	6 U	710 U	700 U	6 U	ND
Benzene	60	5 U	5 U	6 U	6 U	710 U	700 U	6 U	226
2-Butanone (MEK)	120	5 U	5 U	6 U	6 U	710 U	700 U	6 U	NT
Carbon Disulfide	NS	5 U	5 U	6 U	6 U	710 U	700 U	6 U	NT
Chloroethane	NS	5 U	5 U	6 U	6 U	710 U	700 U	6 U	NT
Chloroform	370	5 U	5 U	6 U	6 U	710 U	700 U	6 U	NT
Ethylbenzene	100	5 U	5 U	6 U	6 U	6,900	840	6 U	129
Isopropylbenzene	NS	5 U	5 U	6 U	6 U	1,800	210 J	6 U	ND
m&p-xylenes	NS	10 U	11 U	11 U	12 U	19,000	2,300	12 U	431
n-Propylbenzene	3,900	5 U	5 U	6 U	6 U	710 U	700 U	6 U	ND
Methylene Chloride	50	5 U	5 U	35 B	21 B	1,900 B	1,700 B	6 U	NT
Methyl tert-butyl ether (MTBE)	930	5 U	5 U	6 U	6 U	710 U	700 U	6 U	ND
Naphthalene	12,000	5 U	5 U	6 U	6 U	11,000	2,500	6 U	ND
n-Butylbenzene	12,000	5 U	5 U	6 U	6 U	4,200	570 J	6 U	ND
n-Propylbenzene	3,900	5 U	5 U	6 U	6 U	8,800	1,000	6 U	NT
o-xylene	NS	5 U	5 U	6 U	6 U	5,300	610 J	6 U	119
p-Diethylbenzene	NS	5 U	5 U	6 U	6 U	47,000	7,200	6 U	NT
p-Ethyltoluene	NS	5 U	5 U	6 U	6 U	36,000	4,300	6 U	NT
p-Isopropyltoluene	NS	NT	NT	NT	NT	NT	NT	NT	ND
sec-Butylbenzene	11,000	5 U	5 U	6 U	6 U	40,000	190 J	6 U	ND
tert-Butylbenzene	5,900	5 U	5 U	6 U	6 U	5,200	690 J	6 U	ND
Tetrachloroethene	1,300	5 U	2	6 U	6 U	710 U	700 U	6 U	NT
Toluene	700	42	140	6 U	6 U	390 J	700 U	4 J	198
Xylenes (total)	260	0	0	0	0	24,300	2,910	0	550
Total BTEX		42	140	0	0	31,590	3,750	4	1,103
Total VOCs		42	632	42	21	280,490	34,710	4	1,253

Notes

VOCs = Volatile Organic Compounds

Samples analyzed for VOCs using EPA Method 8260.

Unrestricted Use Soil Cleanup Objectives (UUSCOs) from NYCRR Title 6, Table 375-6.8(a)

Bold and highlighted values exceeded the UUSCOs.

ND = Not detected

NS = No standard

NT = Not tested

For explanation of qualifiers, see Table 8.

Table 2
Summary of Detected SVOCs in Soil Samples
West 34th Street Site
New York, NY

Client ID	Unrestricted Use Soil	SB-1 (15.5 - 17.5)	SB-2 (12 - 14)	SB-3 (12 - 14)	SB-4 (12 - 16.5)	SB-5 (12 - 16)	SB-5 (16 - 20)	SB-6 (12 - 14)	SB-7 (12 - 15)	B1, B3 Composite	B-2 (12 - 15)
Depth (ft)	Cleanup Obj's	6/2/05	7/28/05	7/28/05	7/28/05	7/28/05	7/28/05	7/28/05	7/28/05	9/28/05	9/28/05
Sampling Date	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
Units											
Compound											
1 2-Dichlorobenzene	1,100	NT	ND	ND	ND	ND	ND	230	ND	120 U	130 U
1 4-Dichlorobenzene	1,800	NT	ND	ND	ND	ND	ND	ND	ND	120 U	130 U
1,2,4-Trimethylbenzene	3,600	NT	ND	ND	ND	ND	ND	ND	ND	NT	NT
1,3,5-Trimethylbenzene	8,400	NT	ND	ND	ND	ND	ND	ND	ND	NT	NT
Acenaphthene	20,000	150	14,000	ND	ND	ND	ND	ND	ND	110 J	180
Acenaphthylene	100,000	ND	ND	ND	ND	ND	ND	ND	ND	120 U	130 U
Anthracene	NS	240	23,000	19,000	ND	1,900	ND	630	320	360	440
Azobenzene	100,000	NT	NT	NT	NT	NT	NT	NT	NT	120 U	130 U
Benzo(a)anthracene	1,000	740	24,000	30,000	180	4,100	ND	3,700	340	1,200	870
Benzo(a)pyrene	1,000	500	20,000	25,000	200	3,600	ND	4,400	490	990	730
Benzo(b)fluoranthene	1,000	380	15,000	21,000	250	3,400	ND	3,800	610	1,300	1,000
Benzo(g,h,i)perylene	100,000	290	8,600	11,000	ND	1,400	ND	1,700	340	690	460
Benzo(k)fluoranthene	800	380	15,000	21,000	250	3,400	ND	3,800	610	540	300
Butyl benzyl phthalate	1,000	NT	NT	NT	NT	NT	NT	NT	NT	120 U	130 U
Carbazole	NS	NT	4,400	ND	ND	470	ND	170	ND	84	140
Chrysene	1,000	510	22,000	26,000	ND	4,300	ND	3,800	410	1,300	860
Dibenzo(a,h)anthracene	330	NT	2,200	1,900	ND	ND	ND	440	ND	170	120 J
Dibenzofuran	7,000	NT	5,300	3,100	ND	340	ND	ND	ND	59 J	62
Di-n-butyl phthalate	NS	NT	ND	ND	ND	ND	ND	ND	ND	230	130 U
Diethyl phthalate	NS	NT	ND	ND	ND	ND	ND	ND	ND	57 B	130 U
bis(2-Ethylhexyl)phthalate	NS	NT	ND	ND	ND	ND	ND	ND	ND	120 U	130 U
Fluoranthene	100,000	1,300	54,000	61,000	310	7,500	390	4,100	860	2,500	2,300
Fluorene	30,000	140	11,000	8,000	ND	1,000	240	370	210	130	160
Indeno(1,2,3-cd)pyrene	500	NT	7,400	10,000	ND	1,300	ND	1,500	390	120 U	410
Isophorone	NS	NT	ND	ND	ND	ND	ND	ND	ND	120 U	130 U
2-Methylnaphthalene	NS	NT	4,100	1,500	ND	950	11,000	970	200	120 U	130 U
Naphthalene	12,000	220	5,300	1,300	ND	1,500	11,000	860	290	120 U	130 U
Phenanthrene	100,000	1,500	91,000	77,000	400	13,000	1,100	2,700	1,400	1,600	1,800
Pyrene	100,000	1,600	69,000	77,000	870	15,000	510	9,300	3,200	2,500	1,700
Total SVOCs		7,950	395,300	387,900	2,460	60,370	24,240	42,240	9,670	13,820	11,092

Notes

SVOCs = Semi-Volatile Organic Compounds

Soil samples analyzed for TCL SVOCs by EPA Method 8270.

Unrestricted Use Soil Cleanup Objectives (UUSCOs) from NYCRR Title 6, Table 375-6.8(a)

Bold and highlighted values exceeded the UUSCOs.

ND = Not detected

NS = No standard

NT = Not tested

For explanation of qualifiers, see Table 8.

Table 2
Summary of Detected SVOCs in Soil Samples
West 34th Street Site
New York, NY

Client ID Depth (ft) Sampling Date Units	Unrestricted Use Soil Cleanup Obj's ug/kg	B4, B5, B6 Composite 9/28/05 ug/kg	GP-1 (13 -14) 11/5/05 ug/kg	GP-3 (5-13) 11/5/05	GP-3 (11 -13) 11/5/05	GP-4 (0 -16) 11/5/05	Former Remote Fills for 4000 Gallon USTs North Bottom 1/10/06	Former Remote Fills for 4000 Gallon USTs South Bottom 1/10/06	Former Remote Fills Bottom 1/11/06
Compound									
1,2-Dichlorobenzene	1,100	130 U	130 U	140 U	130 U	140 U	NT	NT	NT
1,4-Dichlorobenzene	1,800	130 U	130 U	140 U	130 U	140 U	NT	NT	NT
1,2,4-Trimethylbenzene	3,600	NT	NT	NT	NT	NT	NT	NT	NT
1,3,5-Trimethylbenzene	8,400	NT	NT	NT	NT	NT	NT	NT	NT
Acenaphthene	20,000	1,100	160	140 U	130 U	140 U	205	NT	NT
Acenaphthylene	100,000	130 U	130 U	140 U	130 U	140 U	NT	NT	NT
Azobenzene	NS	170	130 U	140 U	130 U	140 U	NT	NT	NT
Anthracene	100,000	2,800	380	140 U	130 U	140 U	559	458	169
Benzo(a)anthracene	1,000	3,700	1,600	140 U	130 U	110 J	1,220	644	355
Benzo(a)pyrene	1,000	2,400	1,400	140 U	130 U	120 J	1,180	762	442
Benzo(b)fluoranthene	1,000	3,300	2,100	140 U	130 U	140 J	1,840	1,170	733
Benzo(g,h,i)perylene	100,000	1,500	990	140 U	130 U	70 J	734	576	445
Benzo(k)fluoranthene	800	1,000	610	140 U	130 U	41 J	1,840	1,180	773
Butyl benzyl phthalate	1,000	130 U	130 U	140 U	130 U	140 U	734	576	263
Carbazole	NS	560	100 J	140 U	130 U	140 U	1,840	1,180	733
Chrysene	1,000	3,800	2,100	140 U	130 U	93 J	701	394	263
Dibenzo(a,h)anthracene	330	500	260	140 U	130 U	140 U	289	193	133
Dibenzofuran	7,000	540	90 J	140 U	130 U	140 U	NT	NT	NT
Di-n-butyl phthalate	NS	130 U	130 U	140 U	130 U	110 J	NT	NT	NT
Diethyl phthalate	NS	120 B	73 J	110 J	130 U	140 U	NT	NT	NT
bis(2-Ethylhexyl)phthalate	NS	130 U	130 U	140 U	650	650	NT	NT	NT
Fluoranthene	100,000	11,000	3,600	140 U	130 U	190	2,480	1,380	602
Fluorene	30,000	770	130 J	140 U	130 U	140 U	126	59	ND
Indeno(1,2,3-cd)pyrene	500	130 U	970	140 U	130 U	140 U	640	462	333
Isophorone	NS	130 U	550	140 U	130 U	140 U	NT	NT	NT
2-Methylnaphthalene	NS	290 U	300	410	220	140 U	NT	NT	NT
Naphthalene	12,000	250	280	140 U	91 J	140 U	ND	ND	103
Phenanthrene	100,000	12,000	2,400	140 U	130 U	140 U	1,140	512	188
Pyrene	100,000	8,100	3,400	140 U	130 U	170	2,280	1,280	631
Total SVOCs		53,610	21,493	520	770	1,584	17,808	10,826	6,166

Notes

SVOCs = Semi-Volatile Organic Compounds

Soil samples analyzed for TCL SVOCs by EPA Method 8270.

Unrestricted Use Soil Cleanup Objectives (UUSCOs) from NYCRR Title 6, Table 375-6.8(a)

Bold and highlighted values exceeded the UUSCOs.

ND = Not detected

NS = No standard

NT = Not Tested

For explanation of qualifiers, see Table 8.

Table 3
Summary of Detected Metals in Soil Samples
West 34th Street Site
New York, NY

Client ID	Unrestricted	SB-1	SB-2	SB-3	SB-4	SB-5	SB-5	SB-6	SB-7
Depth (ft)	Use Soil	(15.5 - 17.5)	(12 - 14)	(12 - 14)	(12 - 16.5)	(12 - 16)	(16 - 20)	(12 - 14)	(12 - 15)
Sampling Date	Cleanup Obj's	6/2/05	7/28/05	7/28/05	7/28/05	7/28/05	7/28/05	7/28/05	7/28/05
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Compound									
Aluminum	NS	NT	6,800	5,700	7,500	6,700	6,300	5,700	3,700
Antimony	NS	NT	ND	ND	ND	ND	ND	ND	ND
Arsenic	13	NT	4	14	3	2	2	10	ND
Barium	350	NT	84	100	74	63	50	120	37
Beryllium	7.2	NT	0	0	0	0	0	0	0
Cadmium	2.5	NT	1	3	2	1	ND	2	ND
Calcium	NS	NT	28,000	14,000	30,000	57,000	4,100	10,000	24,000
Chromium	1 (hex) ¹ / 30 (tri) ²	NT	18	14	18	11	15	15	8
Cobalt	NS	NT	6	4	6	24	5	6	2
Copper	50	NT	41	31	21	18	13	45	9
Iron	NS	NT	9,900	8,100	10,000	8,300	9,900	10,000	5,100
Lead	63	NT	370	200	62	42	20	150	240
Magnesium	NS	NT	2,600	1,900	3,100	5,600	2,200	2,300	1,300
Manganese	1600	NT	280	1,700	310	300	150	260	93
Mercury	0.18	NT	0	0	0	0	0	0	0
Nickel	30	NT	29	9	11	10	9	20	4
Potassium	NS	NT	1,800	1,300	2,100	1,600	1,300	1,600	1,100
Selenium	3.9	NT	0	ND	ND	ND	ND	ND	ND
Silver	2	NT	ND	ND	ND	ND	ND	ND	ND
Sodium	NS	NT	750	240	790	660	350	340	290
Thallium	NS	NT	ND	ND	ND	ND	ND	ND	ND
Vanadium	NS	NT	21	16	87	15	13	19	8
Zinc	109	NT	75	99	57	48	31	120	29

Notes

Soil Samples analyzed for TAL Metals by EPA Method 6010.

Mercury analyzed by EPA Method 7471.

Unrestricted Use Soil Cleanup Objectives (UUSCOs) from NYCRR Title 6, Table 375-6.8(a)

Bold and highlighted values exceeded the UUSCOs.

ND = Not detected

NS = No standard

NT = Not Tested

For explanation of qualifiers, see Table 8.

¹ Hexavalent chromium, ² trivalent chromium

Table 3
Summary of Detected Metals in Soil Samples
West 34th Street Site
New York, NY

Client ID Depth (ft) Sampling Date Units	Unrestricted Use Soil Cleanup Obj's mg/kg	B1, B2, B3 Composite 9/28/05 mg/kg	B1, B3 Composite 9/28/05 mg/kg	B-2 (12 -15) 9/28/05 mg/kg	B4, B5, B6 Composite 9/28/05 mg/kg	GP-1 (13 -14) 11/5/05 mg/kg	GP-2 (10 -20) 11/5/05 mg/kg	GP-3 (5 -13) 11/5/05 mg/kg	GP-3 (11 -13) 11/5/05 mg/kg	GP-4 (0 -16) 11/5/05 mg/kg
Compound										
Aluminum	NS	ND	7,560	10,400	10,300	3,700	10,300	8,190	8,220	12,900
Antimony	NS	ND	1	0 U	1 U	1 U	1 U	1 U	1 U	1 U
Arsenic	13	0	5	5	54	8	2	1	1	2
Barium	350	2	105	180	342	77	68	51	61	87
Beryllium	7.2	ND	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 J
Cadmium	2.5	0	1	1	13	1	0 U	0 U	0 U	0 J
Calcium	NS	ND	27,600	19,800	18,800	7,920	1,080	918	900	2,090
Chromium	1 (hex) ¹ / 30 (tri) ²	0	14	21	41	13	22	17	21	22
Cobalt	NS	ND	9	16	16	49	13	11	11	27
Copper	50	ND	47	150	319	201	11	12	14	41
Iron	NS	ND	13,100	18,500	23,700	53,700	15,700	12,400	14,000	19,700
Lead	63	3	191	262	1,220	182	27	7	8	47
Magnesium	NS	ND	2,710	8,050	4,970	837	1,880	2,280	2,720	2,850
Manganese	1600	ND	213	343	334	615	327	335	334	641
Mercury	0.18	0	0	0	0	1	0	0 U	0 U	0
Nickel	30	ND	15	32	33	48	11	14	32	21
Potassium	NS	ND	3,690	6,730	6,800	2,420	1,090	2,090	2,520	3,100
Selenium	3.9	0	1	1	1 U	1 U	1 U	1 U	1 U	1 U
Silver	2	0	0 U	0 J	0 J	0 J	0 U	0 U	0 U	0 U
Sodium	NS	ND	1,180	2,570	4,050	434	243	243	270	702
Thallium	NS	ND	0 U	0 U	0 U	0 U	2	3	3	0 U
Vanadium	NS	ND	25	37	53	24	23	20	25	28
Zinc	109	ND	164	276	357	314	29	33	102	69

Notes

Soil Samples analyzed for TAL Metals by EPA Method 6010.

Mercury analyzed by EPA Method 7471.

Unrestricted Use Soil Cleanup Objectives (UUSCOs) from NYCRR Title 6, Table 375-6.8(a)

Bold and highlighted values exceeded the UUSCOs.

ND = Not detected

NS = No standard

NT = Not tested

For explanation of qualifiers, see Table 8.

¹ Hexavalent chromium, ² trivalent chromium

Table 4
Summary of Detected Pesticides in Soil Samples
West 34th Street Site
New York, NY

Client ID Depth (ft) Sampling Date Units	Unrestricted Use Soil Cleanup Obj's ug/kg	B1, B3 Composite 9/28/05 ug/kg	B-2 (12 - 15) 9/28/05 ug/kg	B4, B5, B6 Composite 9/28/05 ug/kg	GP-1 (13 -14) 11/5/05 ug/kg	GP-2 (10 -20) 11/5/05 ug/kg	GP-3 (5 -11) 11/5/05 ug/kg	GP-1 (13 -14) 11/5/05 ug/kg
Compound								
4,4'-DDD	3.3	5.1 U	5.6 U	36	5.5 U	6.0 U	5.6 U	5.6 U
4 4'-DDE	3.3	6.8	2.5 J	64	5.5 U	6.0 U	5.6 U	5.6 U
4,4'-DDT	3.3	18	15	390	23	6.0 U	5.6 U	5.6 U
Total Pesticides		24.8	17.5	490.0	34.0	0.0	0.0	0.0

Notes

Soil samples analyzed for Pesticides by EPA Method 8081.

Unrestricted Use Soil Cleanup Objectives (UUSCOs) from NYCRR Title 6, Table 375-6.8(a)

Bold and highlighted values exceeded the UUSCOs.

For explanation of qualifiers, see Table 8.