SENECA ARMY DEPOT
ROMULUS, NEW YORK

01192

SENECA ASH LANDFILL

VALIDATED DATA TABLES

PHASE I AND II

OCTOBER 1993

ENGINEERING-SCIENCE, INC.
BOSTON, MASSACHUSETTS

SENECA ARMY DEPOT, ASH LANDFILL
SOIL ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	B-1	B-1	B-1	B-2	B-2	B-2	B-2	B-2
	DEPTH	0-2	2-4	4-6	0-2	0-2	2-4	2-4	6-8
	DATE	10/30/91	10/30/91	10/30/91	10/31/91	10/31/91	10/31/91	10/31/91	10/31/91
	ES ID	S1030-1	S1030-2	S1030-3	S1031-4	S1031-4DL(5)	S1031-5	S1031-5RE(4)	S1031-6
	LAB ID	147824	147825	147826	147827	147827	147828	147828	147829
COMPOUND	UNITS								
VOCs									
Chloromethane	µg/Kg	12 U	12 U	NS	1500 U J	9900 U R	150000 U R	1500 U	1600 U
Bromomethane	µg/Kg	12 U	12 U	NS	1500 U J	9900 U R	150000 U R	1500 U	1600 U
Vinyl Chloride	µg/Kg	12 U	12 U	NS	1500 U J	9900 U R	150000 U R	1500 U	920 J
Chloroethane	µg/Kg	12 U	12 U	NS	1500 U J	9900 U R	150000 U R	1500 U	1600 U
Methylene Chloride	µg/Kg	6 U	6 U	NS	740 U J	5000 U R	7300 U R	730 U	780 U
Acetone	µg/Kg	12 U	12 U	NS	1500 U J	9900 U R	150000 U R	1500 U	1600 U
Carbon Disulfide	µg/Kg	6 U	6 U	NS	740 U J	5000 U R	73000 U R	730 U	780 U
1,1-Dichloroethene	µg/Kg	6 U	6 U	NS	740 U J	5000 U R	73000 U R	730 U	780 U
1,1-Dichloroethane	µg/Kg	6 U	6 U	NS	740 U J	5000 U R	73000 U R	730 U	780 U
1,2-Dichloroethene (total)	µg/Kg	6 U	6 U	NS	12000 J	10000 U R	73000 U R	1900	21000
Chloroform	µg/Kg	6 U	6 U	NS	740 U J	5000 U R	73000 U R	730 U	780 U
1,2-Dichloroethane	µg/Kg	6 U	6 U	NS	740 U J	5000 U R	73000 U R	730 U	780 U
2-Butanone	µg/Kg	12 U	12 U	NS	1500 U J	9900 U R	150000 U R	1500 U	1600 U
1,1,1-Trichloroethane	µg/Kg	6 U	6 U	NS	740 U J	5000 U R	73000 U R	730 U	780 U
Carbon Tetrachloride	µg/Kg	6 U	6 U	NS	740 U J	5000 U R	73000 U R	730 U	780 U
Vinyl Acetate	µg/Kg	12 U	12 U	NS	1500 U J	9900 U R	150000 U R	1500 U	1600 U
Bromodichloromethane	µg/Kg	6 U	6 U	NS	740 U J	5000 U R	73000 U R	730 U	780 U
1,2-Dichloropropane	µg/Kg	6 U	6 U	NS	740 U J	5000 U R	73000 U R	730 U	780 U
cis-1,3-Dichloropropene	µg/Kg	6 U	6 U	NS	740 U J	5000 U R	73000 U R	730 U	780 U
Trichloroethene	µg/Kg	6 U	6 U	NS	3900 R	28000	73000 U R	4400	17000 R
Dibromochloromethane	µg/Kg	6 U	6 U	NS	740 U J	5000 U R	73000 U R	730 U	780 U
1,1,2-Trichloroethane	µg/Kg	6 U	6 U	NS	740 U J	5000 U R	73000 U R	730 U	780 U
Benzene	µg/Kg	6 U	6 U	NS	740 U J	5000 U R	73000 U R	730 U	780 U
trans-1,3-Dichloropropene	µg/Kg	6 U	6 U	NS	740 U J	5000 U R	73000 U R	730 U	780 U
Bromoform	µg/Kg	6 U	6 U	NS	740 U J	5000 U R	73000 U R	730 U	780 U
4-Methyl-2-Pentanone	µg/Kg	12 U	12 U	NS	1500 U J	9900 U R	150000 U R	1500 U	1800 U
2-Hexanone	µg/Kg	12 U	12 U	NS	1500 U J	9900 U R	150000 U R	1500 U	1600 U
Tetrachloroethene	µg/Kg	6 U	6 U	NS	740 U J	5000 U R	73000 U R	730 U	780 U
1,1,2,2-Tetrachloroethane	µg/Kg	6 U	6 U	NS	740 U J	5000 U R	73000 U R	730 U	780 U
Toluene	µg/Kg	6 U	6 U	NS	560 J	5000 U R	73000 U R	220 J	280 J
Chlorobenzene	µg/Kg	6 U	6 U	NS	740 U J	5000 U R	73000 U R	730 U	780 U
Ethylbenzene	µg/Kg	6 U	6 U	NS	580 J	5000 U R	73000 U R	250 J	780 U
Styrene	µg/Kg	6 U	6 U	NS	740 U J	5000 U R	73000 U R	730 U	780 U
Xylene (total)	µg/Kg	6 U	6 U	NS	2900 J	1300 U R	73000 U R	1200	400 J

NOTE: "NS" = NOT SAMPLED

SENECA ARMY DEPOT, ASH LANDFILL
SOIL ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	B-1	B-1	B-1	B-2	B-2	B-2	B-2	B-2
	DEPTH	0-2	2-4	4-6	0-2	0-2	2-4	2-4	6-8
	DATE	10/30/91	10/30/91	10/30/91	10/31/91	10/31/91	10/31/91	10/31/91	10/31/91
	ES ID	S1030-1	S1030-2	S1030-3	S1031-4	S1031-4DL(5)	S1031-5	S1031-5RE(4)	S1031-6
	LAB ID	147824	147825	147826	147827	147827	147828	147828	147829
COMPOUND	UNITS								
VOCs									
SEMIVOLATILES									
Phenol	µg/Kg	720 U	730 U	690 U	710 U	NS	730 U	NS	720 U
bis(2-Chloroethyl) ether	µg/Kg	720 U	730 U	690 U	710 U	NS	730 U	NS	720 U
2-Chlorophenol	µg/Kg	720 U	730 U	690 U	710 U	NS	730 U	NS	720 U
1,3-Dichlorobenzene	µg/Kg	720 U	730 U	690 U	710 U	NS	730 U	NS	720 U
1,4-Dichlorobenzene	µg/Kg	720 U	730 U	690 U	710 U	NS	730 U	NS	720 U
Benzyl Alcohol	µg/Kg	720 U	730 U	690 U	710 U	NS	730 U	NS	720 U
1,2-Dichlorobenzene	µg/Kg	720 U	730 U	690 U	710 U	NS	730 U	NS	720 U
2-Methylphenol	µg/Kg	720 U	730 U	690 U	710 U	NS	730 U	NS	720 U
bis(2-Chloroisopropyl) ether	µg/Kg	720 U	730 U	690 U	710 U	NS	730 U	NS	720 U
4-Methylphenol	µg/Kg	720 U	730 U	690 U	710 U	NS	730 U	NS	720 U
N-Nitroso-di-n-propylamine	µg/Kg	720 U	730 U	690 U	710 U	NS	730 U	NS	720 U
Hexachloroethane	µg/Kg	720 U	730 U	690 U	710 U	NS	730 U	NS	720 U
Nitrobenzene	µg/Kg	720 U	730 U	690 U	710 U	NS	730 U	NS	720 U
Isophorone	µg/Kg	720 U	730 U	690 U	710 U	NS	730 U	NS	720 U
2-Nitrophenol	µg/Kg	720 U	730 U	690 U	710 U	NS	730 U	NS	720 U
2,4-Dimethylphenol	µg/Kg	720 U	730 U	690 U	710 U	NS	730 U	NS	720 U
Benzoic acid	µg/Kg	3500 U	3500 U	3300 U	3400 U	NS	3600 U	NS	3500 U
bis(2-Chloroethoxy) methane	µg/Kg	720 U	730 U	690 U	710 U	NS	730 U	NS	720 U
2,4-Dichlorophenol	µg/Kg	720 U	730 U	690 U	710 U	NS	730 U	NS	720 U
1,2,4-Trichlorobenzene	µg/Kg	720 U	730 U	690 U	710 U	NS	730 U	NS	720 U
Naphthalene	µg/Kg	720 U	730 U	690 U	270 J	NS	210 J	NS	360 J
4-Chloroaniline	µg/Kg	720 U	730 U	690 U	710 U	NS	730 U	NS	720 U
Hexachlorobutadiene	µg/Kg	720 U	730 U	690 U	710 U	NS	730 U	NS	720 U
4-Chloro-3-methylphenol	µg/Kg	720 U	730 U	690 U	710 U	NS	730 U	NS	720 U
2-Methylnaphthalene	µg/Kg	720 U	730 U	690 U	280 J	NS	730 U	NS	240 J
Hexachlorocyclopentadiene	µg/Kg	720 U	730 U	690 U	710 U	NS	730 U	NS	720 U
2,4,6-Trichlorophenol	µg/Kg	720 U	730 U	690 U	710 U	NS	730 U	NS	720 U
2,4,5-Trichlorophenol	µg/Kg	3500 U	3500 U	3300 U	3400 U	NS	3600 U	NS	3500 U
2-Chloronaphthalene	µg/Kg	720 U	730 U	690 U	710 U	NS	730 U	NS	720 U
2-Nitroaniline	µg/Kg	3500 U	3500 U	3300 U	3400 U	NS	3600 U	NS	3500 U
Dimethylphthalate	µg/Kg	720 U	730 U	690 U	710 U	NS	730 U	NS	720 U
Acenaphthylene	µg/Kg	720 U	730 U	690 U	710 U	NS	730 U	NS	720 U
2,6-Dinitrotoluene	µg/Kg	720 U	730 U	690 U	710 U	NS	730 U	NS	720 U
3-Nitroaniline	µg/Kg	3500 U	3500 U	3300 U	3400 U	NS	3600 U	NS	3500 U
Acenaphthene	µg/Kg	720 U	730 U	690 U	710 U	NS	730 U	NS	720 U
2,4-Dinitrophenol	µg/Kg	3500 U	3500 U	3300 U	3400 U	NS	3600 U	NS	3500 U
4-Nitrophenol	µg/Kg	3500 U	3500 U	3300 U	3400 U	NS	3600 U	NS	3500 U
Dibenzofuran	µg/Kg	720 U	730 U	690 U	710 U	NS	730 U	NS	720 U
2,4-Dinitrotoluene	µg/Kg	720 U	730 U	690 U	710 U	NS	730 U	NS	720 U
Diethylphthalate	µg/Kg	720 U	730 U	690 U	710 U	NS	730 U	NS	720 U
4-Chlorophenyl-phenyl ether	µg/Kg	720 U	730 U	690 U	710 U	NS	730 U	NS	720 U
Fluorene	µg/Kg	720 U	730 U	690 U	710 U	NS	730 U	NS	720 U
4-Nitroaniline	µg/Kg	3500 U	3500 U	3300 U	3400 U	NS	3600 U	NS	3500 U
4,6-Dinitro-2-methylphenol	µg/Kg	3500 U	3500 U	3300 U	3400 U	NS	3600 U	NS	3500 U
N-Nitrosodiphenylamine (1)	µg/Kg	720 U	730 U	690 U	710 U	NS	730 U	NS	720 U
4-Bromophenyl-phenyl ether	µg/Kg	720 U	730 U	690 U	710 U	NS	730 U	NS	720 U
Hexachlorobenzene	µg/Kg	720 U	730 U	690 U	710 U	NS	730 U	NS	720 U
Pentachlorophenol	µg/Kg	3500 U	3500 U	3300 U	3400 U	NS	3600 U	NS	3500 U
Phenanthrene	µg/Kg	720 U	730 U	690 U	170 J	NS	82 J	NS	720 U
Anthracene	µg/Kg	720 U	730 U	690 U	710 U	NS	730 U	NS	720 U
Carbazole	µg/Kg	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate	µg/Kg	720 U	730 U	690 U	710 U	NS	730 U	NS	720 U
Fluoranthene	µg/Kg	720 U	730 U	690 U	710 U	NS	730 U	NS	720 U
Pyrene	µg/Kg	720 U	730 U	690 U	130 J	NS	730 U	NS	720 U
Butylbenzylphthalate	µg/Kg	720 U	730 U	690 U	710 U	NS	730 U	NS	720 U
3,3'-Dichlorobenzidine	µg/Kg	1400 U	1500 U	1400 U	1400 U	NS	1500 U	NS	1400 U
Benzo(a)anthracene	µg/Kg	720 U	730 U	690 U	710 U	NS	730 U	NS	720 U
Chrysene	µg/Kg	720 U	730 U	690 U	710 U	NS	730 U	NS	720 U
bis(2-Ethylhexyl)phthalate	µg/Kg	720 U	730 U	530 J	710 U	NS	730 U	NS	720 U
Di-n-octylphthalate	µg/Kg	720 U	730 U	690 U	710 U	NS	730 U	NS	720 U
Benzo(b)fluoranthene	µg/Kg	720 U	730 U	690 U	710 U	NS	730 U	NS	720 U
Benzo(k)fluoranthene	µg/Kg	720 U	730 U	690 U	710 U	NS	730 U	NS	720 U
Benzo(a)pyrene	µg/Kg	720 U	730 U	690 U	710 U	NS	730 U	NS	720 U
Indeno(1,2,3-cd)pyrene	µg/Kg	720 U	730 U	690 U	710 U	NS	730 U	NS	720 U
Dibenz(a,h)anthracene	µg/Kg	720 U	730 U	690 U	710 U	NS	730 U	NS	720 U
Benzo(g,h,i)perylene	µg/Kg	720 U	730 U	690 U	710 U	NS	730 U	NS	720 U

SENECA ARMY DEPOT, ASH LANDFILL
SOIL ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

COMPOUND	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	B-1	B-1	B-1	B-2	B-2	B-2	B-2	B-2
	DEPTH	0-2	2-4	4-6	0-2	0-2	2-4	2-4	6-8
	DATE	10/30/91	10/30/91	10/30/91	10/31/91	10/31/91	10/31/91	10/31/91	10/31/91
	ES ID	S1030-1	S1030-2	S1030-3	S1031-4	S1031-4DL(5)	S1031-5	S1031-5RE(4)	S1031-6
	LAB ID	147824	147825	147826	147827	147827	147828	147828	147829
	UNITS								
VOCs									
PESTICIDES/PCBs									
alpha-BHC	µg/Kg	17 U	16 U	17 U	17 U	NS	18 U	NS	17 U
beta-BHC	µg/Kg	17 U	16 U	17 U	17 U	NS	18 U	NS	17 U
delta-BHC	µg/Kg	17 U	18 U	17 U	17 U	NS	18 U	NS	17 U
gamma-BHC (Lindane)	µg/Kg	17 U	18 U	17 U	17 U	NS	18 U	NS	17 U
Heptachlor	µg/Kg	17 U	18 U	17 U	17 U	NS	18 U	NS	17 U
Aldrin	µg/Kg	17 U	18 U	17 U	17 U	NS	18 U	NS	17 U
Heptachlor epoxide	µg/Kg	17 U	16 U	17 U	17 U	NS	18 U	NS	17 U
Endosulfan I	µg/Kg	17 U	18 U	17 U	17 U	NS	18 U	NS	17 U
Dieldrin	µg/Kg	35 U	35 U	33 U	34 U	NS	36 U	NS	35 U
4,4'-DDE	µg/Kg	35 U	35 U	33 U	34 U	NS	36 U	NS	35 U
Endrin	µg/Kg	35 U	35 U	33 U	34 U	NS	36 U	NS	35 U
Endosulfan II	µg/Kg	35 U	35 U	33 U	34 U	NS	36 U	NS	35 U
4,4'-DDD	µg/Kg	35 U	35 U	33 U	34 U	NS	36 U	NS	35 U
Endosulfan sulfate	µg/Kg	35 U	35 U	33 U	34 U	NS	36 U	NS	35 U
4,4'-DDT	µg/Kg	35 U	35 U	33 U	34 U	NS	36 U	NS	35 U
Methoxychlor	µg/Kg	170 U	180 U	170 U	170 U	NS	180 U	NS	170 U
Endrin ketone	µg/Kg	35 U	35 U	33 U	34 U	NS	36 U	NS	35 U
Endrin aldehyde	µg/Kg	NS	NS	NS	NS	NS	NS	NS	NS
alpha-Chlordane	µg/Kg	170 U	180 U	170 U	170 U	NS	180 U	NS	170 U
gamma-Chlordane	µg/Kg	170 U	180 U	170 U	170 U	NS	180 U	NS	170 U
Toxaphene	µg/Kg	350 U	350 U	330 U	340 U	NS	360 U	NS	350 U
Aroclor-1016	µg/Kg	170 U	180 U	170 U	170 U	NS	180 U	NS	170 U
Aroclor-1221	µg/Kg	170 U	180 U	170 U	170 U	NS	180 U	NS	170 U
Aroclor-1232	µg/Kg	170 U	180 U	170 U	170 U	NS	180 U	NS	170 U
Aroclor-1242	µg/Kg	170 U	180 U	170 U	170 U	NS	180 U	NS	170 U
Aroclor-1248	µg/Kg	170 U	180 U	170 U	170 U	NS	180 U	NS	170 U
Aroclor-1254	µg/Kg	350 U	350 U	330 U	340 U	NS	360 U	NS	350 U
Aroclor-1260	µg/Kg	350 U	350 U	330 U	340	NS	190 J	NS	390
HERBICIDES									
2,4-D	µg/Kg	54 U J	55 U J	53 U J	54 U J	NS	56 U J	NS	55 U J
2,4-DB	µg/Kg	54 U J	350 J	53 U J	250 J	NS	56 U J	NS	55 U J
2,4,5-T	µg/Kg	5.4 U J	5.5 U J	5.3 U J	5.4 U J	NS	5.6 U J	NS	5.5 U J
2,4,5-TP (Silvex)	µg/Kg	5.4 U J	5.5 U J	5.3 U J	5.4 U J	NS	5.6 U J	NS	5.5 U J
Dalapon	µg/Kg	130 U J	130 U J	130 U J	130 U J	NS	130 U J	NS	130 U J
Dicamba	µg/Kg	5.4 U J	5.5 U J	5.3 U J	5.4 U J	NS	5.6 U J	NS	5.5 U J
Dichloroprop	µg/Kg	54 U J	55 U J	53 U J	54 U J	NS	56 U J	NS	55 U J
Dinoseb	µg/Kg	27 U J	27 U J	26 U J	27 U J	NS	28 U J	NS	27 U J
MCPA	µg/Kg	5400 U J	5500 U J	5300 U J	5400 U J	NS	5600 U J	NS	5500 U J
MCPP	µg/Kg	5400 U J	5500 U J	5300 U J	5400 U J	NS	5600 U J	NS	5500 U J
METALS									
Aluminum	mg/kg	17800	17600	13200	15800	NS	17400	NS	18100
Antimony	mg/kg	10 U J	9.5 U J	8 U J	11.1 U J	NS	7.9 U J	NS	8.1 U J
Arsenic	mg/kg	6.1	4.4	3.7	4.9	NS	4.1	NS	4
Barium	mg/kg	102	64.8	42.2	58	NS	72.3	NS	58.7
Beryllium	mg/kg	0.9 J	0.93	0.67 J	0.84 J	NS	0.79	NS	0.83
Cadmium	mg/kg	2.4	2.8	1.9	2.3	NS	2.3	NS	2.9
Calcium	mg/kg	22900	55200	71000	31500	NS	32500	NS	22300
Chromium	mg/kg	27.8	27.5	22	26.1	NS	27.8	NS	28.4
Cobalt	mg/kg	12.7	11.7	11.9	12.1	NS	11.3	NS	14.6
Copper	mg/kg	36.3 J	21.9 J	13.9 J	33.1 J	NS	24.7 J	NS	18.9 J
Iron	mg/kg	37500	34400	27800	35000	NS	32900	NS	36500
Lead	mg/kg	26.7	7.5	6.9	52.4	NS	23	NS	11.9 J
Magnesium	mg/kg	6870	7690	6900	7510	NS	8440	NS	8130
Manganese	mg/kg	746	943	802	403	NS	673	NS	505
Mercury	mg/kg	0.06 J	0.04 U	0.04 U	0.04 J	NS	0.06 J	NS	0.04 U
Nickel	mg/kg	44.6	42.4	33.3	43.1	NS	40.3	NS	46.9
Potassium	mg/kg	2420	1610	1410	1950	NS	2280	NS	2150
Selenium	mg/kg	0.93 U	0.59 U	0.9 U	0.21 U	NS	0.17 U	NS	0.18 U
Silver	mg/kg	1.5 U	1.4 U	1.2 U	1.7 U	NS	1.2 U	NS	1.2 U
Sodium	mg/kg	424 J	72.6 U J	151 J	84.9 U J	NS	60.4 U J	NS	62.2 U J
Thallium	mg/kg	0.52 U	0.33 U	0.5 U	0.6 U	NS	0.46 U	NS	0.5 U
Vanadium	mg/kg	23.9	22.6	15.8	17.8	NS	22.1	NS	20.3
Zinc	mg/kg	104	77.6	60.2	58.6	NS	85.5	NS	88.1
Cyanide	mg/kg	0.6 U	0.6 U	0.59 U	0.62 U	NS	0.67 U	NS	0.66 U

SENECA ARMY DEPOT, ASH LANDFILL
SOIL ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	B-2	B-2	B-2	B-3	B-3	B-3	B-3	B-3
	DEPTH	6-8	6-10	8-10	0-2	0-2	2-4	4-6	6-8
	DATE	10/31/91	10/31/91	10/31/91	10/31/91	10/31/91	10/31/91	10/31/91	10/31/91
	ES ID	S1031-6DL(5)	S1031-7	S1031-7DL(5)	S1031-8	S1031-8RE(4)	S1031-9	S1031-10	S1031-11
	LAB ID	147829	147830	147830	147831	147831	147832	147833	147834
COMPOUND	UNITS								
VOCs									
Chloromethane	µg/Kg	6200 U R	2800 U	5500 U R	13 U J	13 U J	12 U	11 U	10 U J
Bromomethane	µg/Kg	6200 U R	2800 U	5500 U R	13 U J	13 U J	12 U	11 U	10 U J
Vinyl Chloride	µg/Kg	6200 U R	2800 U	5500 U R	13 U J	13 U J	12 U	11 U	10 U J
Chloroethane	µg/Kg	6200 U R	2800 U	5500 U R	13 U J	13 U J	12 U	11 U	10 U J
Methylene Chloride	µg/Kg	3100 U R	1400 U	2800 U R	6 U J	6 U J	6 U	6 U	5 U J
Acetone	µg/Kg	6200 U R	2800 U	5500 U R	13 U J	13 U J	12 U	11 U	10 U J
Carbon Disulfide	µg/Kg	3100 U R	1400 U	2800 U R	6 U J	6 U J	6 U	6 U	5 U J
1,1-Dichloroethene	µg/Kg	3100 U R	1400 U	2800 U R	6 U J	6 U J	6 U	6 U	5 U J
1,1-Dichloroethane	µg/Kg	3100 U R	1400 U	2800 U R	6 U J	6 U J	6 U	6 U	5 U J
1,2-Dichloroethene (total)	µg/Kg	20000 U R	1400 U	2800 U R	6 U J	6 U J	6 U	6 U	5 U J
Chloroform	µg/Kg	3100 U R	1400 U	2800 U R	6 U J	6 U J	6 U	6 U	5 U J
1,2-Dichloroethane	µg/Kg	3100 U R	1400 U	2800 U R	6 U J	6 U J	6 U	6 U	5 U J
2-Butanone	µg/Kg	6200 U R	2800 U	5500 U R	13 U J	13 U J	12 U	11 U	10 U J
1,1,1-Trichloroethane	µg/Kg	3100 U R	1400 U	2800 U R	6 U J	6 U J	6 U	6 U	5 U J
Carbon Tetrachloride	µg/Kg	3100 U R	1400 U	2800 U R	6 U J	6 U J	6 U	6 U	5 U J
Vinyl Acetate	µg/Kg	6200 U R	2800 U	5500 U R	13 U J	13 U J	12 U	11 U	10 U J
Bromodichloromethane	µg/Kg	3100 U R	1400 U	2800 U R	6 U J	6 U J	6 U	6 U	5 U J
1,2-Dichloropropane	µg/Kg	3100 U R	1400 U	2800 U R	6 U J	6 U J	6 U	6 U	5 U J
cis-1,3-Dichloropropene	µg/Kg	3100 U R	1400 U	2800 U R	6 U J	6 U J	6 U	6 U	5 U J
Trichloroethene	µg/Kg	120000	83000 R	69000	23 J	11 J	6 U	6 U	5 J
Dibromochloromethane	µg/Kg	3100 U R	1400 U	2800 U R	6 U J	6 U J	6 U	6 U	5 U J
1,1,2-Trichloroethane	µg/Kg	3100 U R	1400 U	2800 U R	6 U J	6 U J	6 U	6 U	5 U J
Benzene	µg/Kg	3100 U R	1400 U	2800 U R	6 U J	6 U J	6 U	6 U	5 U J
trans-1,3-Dichloropropene	µg/Kg	3100 U R	1400 U	2800 U R	6 U J	6 U J	6 U	6 U	5 U J
Bromoform	µg/Kg	3100 U R	1400 U	2800 U R	6 U J	6 U J	6 U	6 U	5 U J
4-Methyl-2-Pentanone	µg/Kg	6200 U R	2800 U	5500 U R	13 U J	13 U J	12 U	11 U	10 U J
2-Hexanone	µg/Kg	6200 U R	2800 U	5500 U R	13 U J	13 U J	12 U	11 U	10 U J
Tetrachloroethene	µg/Kg	3100 U R	1400 U	2800 U R	6 U J	6 U J	6 U	6 U	5 U J
1,1,2,2-Tetrachloroethane	µg/Kg	3100 U R	1400 U	2800 U R	6 U J	6 U J	6 U	6 U	5 U J
Toluene	µg/Kg	3100 U R	1400 U	2800 U R	4 J	3 J	2 J	1 J	4 J
Chlorobenzene	µg/Kg	3100 U R	1400 U	2800 U R	6 U J	6 U J	6 U	6 U	5 U J
Ethylbenzene	µg/Kg	3100 U R	1400 U	2800 U R	6 U J	6 U J	6 U	6 U	5 U J
Styrene	µg/Kg	3100 U R	1400 U	2800 U R	6 U J	6 U J	6 U	6 U	5 U J
Xylene (total)	µg/Kg	3100 U R	1400 U	2800 U R	6 U J	6 U J	6 U	6 U	5 U J

SENECA ARMY DEPOT, ASH LANDFILL
SOIL ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

COMPOUND	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	B-2	B-2	B-2	B-3	B-3	B-3	B-3	B-3
	DEPTH	6-8	8-10	8-10	0-2	0-2	2-4	4-6	6-8
	DATE	10/31/91	10/31/91	10/31/91	10/31/91	10/31/91	10/31/91	10/31/91	10/31/91
	ES ID	S1031-6DL(5)	S1031-7	S1031-7DL(5)	S1031-8	S1031-8RE(4)	S1031-9	S1031-10	S1031-11
	LAB ID	147829	147830	147830	147831	147831	147832	147833	147834
	UNITS								
VOCs									
SEMIVOLATILES									
Phenol	µg/Kg	NS	NS	NS	890 U	NS	NS	730 U	NS
bis(2-Chloroethyl) ether	µg/Kg	NS	NS	NS	890 U	NS	NS	730 U	NS
2-Chlorophenol	µg/Kg	NS	NS	NS	890 U	NS	NS	730 U	NS
1,3-Dichlorobenzene	µg/Kg	NS	NS	NS	890 U	NS	NS	730 U	NS
1,4-Dichlorobenzene	µg/Kg	NS	NS	NS	890 U	NS	NS	730 U	NS
Benzyl Alcohol	µg/Kg	NS	NS	NS	890 U	NS	NS	730 U	NS
1,2-Dichlorobenzene	µg/Kg	NS	NS	NS	890 U	NS	NS	730 U	NS
2-Methylphenol	µg/Kg	NS	NS	NS	890 U	NS	NS	730 U	NS
bis(2-Chloroisopropyl) ether	µg/Kg	NS	NS	NS	890 U	NS	NS	730 U	NS
4-Methylphenol	µg/Kg	NS	NS	NS	890 U	NS	NS	730 U	NS
N-Nitroso-di-n-propylamine	µg/Kg	NS	NS	NS	890 U	NS	NS	730 U	NS
Hexachloroethane	µg/Kg	NS	NS	NS	890 U	NS	NS	730 U	NS
Nitrobenzene	µg/Kg	NS	NS	NS	890 U	NS	NS	730 U	NS
Isophorone	µg/Kg	NS	NS	NS	890 U	NS	NS	730 U	NS
2-Nitrophenol	µg/Kg	NS	NS	NS	890 U	NS	NS	730 U	NS
2,4-Dimethylphenol	µg/Kg	NS	NS	NS	890 U	NS	NS	730 U	NS
Benzoic acid	µg/Kg	NS	NS	NS	4300 U	NS	NS	3500 U	NS
bis(2-Chloroethoxy) methane	µg/Kg	NS	NS	NS	890 U	NS	NS	730 U	NS
2,4-Dichlorophenol	µg/Kg	NS	NS	NS	890 U	NS	NS	730 U	NS
1,2,4-Trichlorobenzene	µg/Kg	NS	NS	NS	890 U	NS	NS	730 U	NS
Naphthalene	µg/Kg	NS	NS	NS	890 U	NS	NS	730 U	NS
4-Chloroaniline	µg/Kg	NS	NS	NS	890 U	NS	NS	730 U	NS
Hexachlorobutadiene	µg/Kg	NS	NS	NS	890 U	NS	NS	730 U	NS
4-Chloro-3-methylphenol	µg/Kg	NS	NS	NS	890 U	NS	NS	730 U	NS
2-Methylnaphthalene	µg/Kg	NS	NS	NS	890 U	NS	NS	730 U	NS
Hexachlorocyclopentadiene	µg/Kg	NS	NS	NS	890 U	NS	NS	730 U	NS
2,4,6-Trichlorophenol	µg/Kg	NS	NS	NS	890 U	NS	NS	730 U	NS
2,4,5-Trichlorophenol	µg/Kg	NS	NS	NS	4300 U	NS	NS	3500 U	NS
2-Chloronaphthalene	µg/Kg	NS	NS	NS	890 U	NS	NS	730 U	NS
2-Nitroaniline	µg/Kg	NS	NS	NS	4300 U	NS	NS	3500 U	NS
Dimethylphthalate	µg/Kg	NS	NS	NS	890 U	NS	NS	730 U	NS
Acenaphthylene	µg/Kg	NS	NS	NS	890 U	NS	NS	730 U	NS
2,6-Dinitrotoluene	µg/Kg	NS	NS	NS	890 U	NS	NS	730 U	NS
3-Nitroaniline	µg/Kg	NS	NS	NS	4300 U	NS	NS	3500 U	NS
Acenaphthene	µg/Kg	NS	NS	NS	890 U	NS	NS	730 U	NS
2,4-Dinitrophenol	µg/Kg	NS	NS	NS	4300 U	NS	NS	3500 U	NS
4-Nitrophenol	µg/Kg	NS	NS	NS	4300 U	NS	NS	3500 U	NS
Dibenzofuran	µg/Kg	NS	NS	NS	890 U	NS	NS	730 U	NS
2,4-Dinitrotoluene	µg/Kg	NS	NS	NS	890 U	NS	NS	730 U	NS
Diethylphthalate	µg/Kg	NS	NS	NS	890 U	NS	NS	730 U	NS
4-Chlorophenyl-phenylether	µg/Kg	NS	NS	NS	890 U	NS	NS	730 U	NS
Fluorene	µg/Kg	NS	NS	NS	890 U	NS	NS	730 U	NS
4-Nitroaniline	µg/Kg	NS	NS	NS	4300 U	NS	NS	3500 U	NS
4,6-Dinitro-2-methylphenol	µg/Kg	NS	NS	NS	4300 U	NS	NS	3500 U	NS
N-Nitrosodiphenylamine (1)	µg/Kg	NS	NS	NS	890 U	NS	NS	730 U	NS
4-Bromophenyl-phenylether	µg/Kg	NS	NS	NS	890 U	NS	NS	730 U	NS
Hexachlorobenzene	µg/Kg	NS	NS	NS	890 U	NS	NS	730 U	NS
Pentachlorophenol	µg/Kg	NS	NS	NS	4300 U	NS	NS	3500 U	NS
Phenanthrene	µg/Kg	NS	NS	NS	420 J	NS	NS	730 U	NS
Anthracene	µg/Kg	NS	NS	NS	890 U	NS	NS	730 U	NS
Carbazole	µg/Kg	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate	µg/Kg	NS	NS	NS	890 U	NS	NS	730 U	NS
Fluoranthene	µg/Kg	NS	NS	NS	750 J	NS	NS	730 U	NS
Pyrene	µg/Kg	NS	NS	NS	550 J	NS	NS	730 U	NS
Butylbenzylphthalate	µg/Kg	NS	NS	NS	890 U	NS	NS	730 U	NS
3,3'-Dichlorobenzidine	µg/Kg	NS	NS	NS	1800 U	NS	NS	1500 U	NS
Benzo(a)anthracene	µg/Kg	NS	NS	NS	290 J	NS	NS	730 U	NS
Chrysene	µg/Kg	NS	NS	NS	350 J	NS	NS	730 U	NS
bis(2-Ethylhexyl)phthalate	µg/Kg	NS	NS	NS	890 U	NS	NS	730 U	NS
Di-n-octylphthalate	µg/Kg	NS	NS	NS	890 U	NS	NS	730 U	NS
Benzo(b)fluoranthene	µg/Kg	NS	NS	NS	220 J	NS	NS	730 U	NS
Benzo(k)fluoranthene	µg/Kg	NS	NS	NS	180 J	NS	NS	730 U	NS
Benzo(a)pyrene	µg/Kg	NS	NS	NS	890 U	NS	NS	730 U	NS
Indeno(1,2,3-cd)pyrene	µg/Kg	NS	NS	NS	890 U	NS	NS	730 U	NS
Dibenz(a,h)anthracene	µg/Kg	NS	NS	NS	890 U	NS	NS	730 U	NS
Benzo(g,h,i)perylene	µg/Kg	NS	NS	NS	890 U	NS	NS	730 U	NS

SENECA ARMY DEPOT, ASH LANDFILL
SOIL ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

COMPOUND	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	B-2	B-2	B-2	B-3	B-3	B-3	B-3	B-3
	DEPTH	6-8	8-10	8-10	0-2	0-2	2-4	4-6	6-8
	DATE	10/31/91	10/31/91	10/31/91	10/31/91	10/31/91	10/31/91	10/31/91	10/31/91
	ES ID	S1031-6DL(5)	S1031-7	S1031-7DL(5)	S1031-8	S1031-8RE(4)	S1031-9	S1031-10	S1031-11
	LAB ID	147829	147830	147830	147831	147831	147832	147833	147834
	UNITS								
VOCs									
PESTICIDES/PCBs									
alpha-BHC	µg/Kg	NS	NS	NS	22 U	NS	NS	18 U	NS
beta-BHC	µg/Kg	NS	NS	NS	22 U	NS	NS	18 U	NS
delta-BHC	µg/Kg	NS	NS	NS	22 U	NS	NS	18 U	NS
gamma-BHC (Lindane)	µg/Kg	NS	NS	NS	22 U	NS	NS	18 U	NS
Heptachlor	µg/Kg	NS	NS	NS	22 U	NS	NS	18 U	NS
Aldrin	µg/Kg	NS	NS	NS	22 U	NS	NS	18 U	NS
Heptachlor epoxide	µg/Kg	NS	NS	NS	22 U	NS	NS	18 U	NS
Endosulfan I	µg/Kg	NS	NS	NS	22 U	NS	NS	18 U	NS
Dieldrin	µg/Kg	NS	NS	NS	43 U	NS	NS	35 U	NS
4,4'-DDE	µg/Kg	NS	NS	NS	43 U	NS	NS	35 U	NS
Endrin	µg/Kg	NS	NS	NS	43 U	NS	NS	35 U	NS
Endosulfan II	µg/Kg	NS	NS	NS	43 U	NS	NS	35 U	NS
4,4'-DDD	µg/Kg	NS	NS	NS	43 U	NS	NS	35 U	NS
Endosulfan sulfate	µg/Kg	NS	NS	NS	43 U	NS	NS	35 U	NS
4,4'-DDT	µg/Kg	NS	NS	NS	43 U	NS	NS	35 U	NS
Methoxychlor	µg/Kg	NS	NS	NS	220 U	NS	NS	180 U	NS
Endrin ketone	µg/Kg	NS	NS	NS	43 U	NS	NS	35 U	NS
Endrin aldehyde	µg/Kg	NS	NS	NS	NS	NS	NS	NS	NS
alpha-Chlordane	µg/Kg	NS	NS	NS	220 U	NS	NS	180 U	NS
gamma-Chlordane	µg/Kg	NS	NS	NS	220 U	NS	NS	180 U	NS
Toxaphene	µg/Kg	NS	NS	NS	430 U	NS	NS	350 U	NS
Aroclor-1016	µg/Kg	NS	NS	NS	220 U	NS	NS	180 U	NS
Aroclor-1221	µg/Kg	NS	NS	NS	220 U	NS	NS	180 U	NS
Aroclor-1232	µg/Kg	NS	NS	NS	220 U	NS	NS	180 U	NS
Aroclor-1242	µg/Kg	NS	NS	NS	220 U	NS	NS	180 U	NS
Aroclor-1248	µg/Kg	NS	NS	NS	220 U	NS	NS	180 U	NS
Aroclor-1254	µg/Kg	NS	NS	NS	430 U	NS	NS	350 U	NS
Aroclor-1260	µg/Kg	NS	NS	NS	430 U	NS	NS	350 U	NS
HERBICIDES									
2,4-D	µg/Kg	NS	NS	NS	68 U J	NS	NS	56 U J	NS
2,4-DB	µg/Kg	NS	NS	NS	68 U J	NS	NS	100 J	NS
2,4,5-T	µg/Kg	NS	NS	NS	6.8 U J	NS	NS	5.6 U J	NS
2,4,5-TP (Silvex)	µg/Kg	NS	NS	NS	6.8 U J	NS	NS	5.6 U J	NS
Dalapon	µg/Kg	NS	NS	NS	160 U J	NS	NS	130 U J	NS
Dicamba	µg/Kg	NS	NS	NS	6.8 U J	NS	NS	5.6 U J	NS
Dichloroprop	µg/Kg	NS	NS	NS	68 U J	NS	NS	56 U J	NS
Dinoseb	µg/Kg	NS	NS	NS	34 U J	NS	NS	28 U J	NS
MCPA	µg/Kg	NS	NS	NS	6800 U J	NS	NS	5600 U J	NS
MCPP	µg/Kg	NS	NS	NS	7500 J	NS	NS	5600 U J	NS
METALS									
Aluminum	mg/kg	NS	NS	NS	11700	NS	NS	15100	NS
Antimony	mg/kg	NS	NS	NS	78.3 J	NS	NS	6.5 U J	NS
Arsenic	mg/kg	NS	NS	NS	68.3	NS	NS	3.8	NS
Barium	mg/kg	NS	NS	NS	1010	NS	NS	56.9	NS
Beryllium	mg/kg	NS	NS	NS	0.78 U	NS	NS	0.69	NS
Cadmium	mg/kg	NS	NS	NS	43.1	NS	NS	2.2	NS
Calcium	mg/kg	NS	NS	NS	15800	NS	NS	65800	NS
Chromium	mg/kg	NS	NS	NS	57.9	NS	NS	22.5	NS
Cobalt	mg/kg	NS	NS	NS	13.6	NS	NS	11	NS
Copper	mg/kg	NS	NS	NS	836	NS	NS	14.8 J	NS
Iron	mg/kg	NS	NS	NS	55600	NS	NS	30000	NS
Lead	mg/kg	NS	NS	NS	1830	NS	NS	8.4	NS
Magnesium	mg/kg	NS	NS	NS	3930	NS	NS	8120	NS
Manganese	mg/kg	NS	NS	NS	615	NS	NS	547	NS
Mercury	mg/kg	NS	NS	NS	0.86	NS	NS	0.04 U	NS
Nickel	mg/kg	NS	NS	NS	65.4	NS	NS	34.5	NS
Potassium	mg/kg	NS	NS	NS	1380	NS	NS	1490	NS
Selenium	mg/kg	NS	NS	NS	1.1 U	NS	NS	0.17 U	NS
Silver	mg/kg	NS	NS	NS	1.8 U	NS	NS	0.98 U	NS
Sodium	mg/kg	NS	NS	NS	143 J	NS	NS	79.1 J	NS
Thallium	mg/kg	NS	NS	NS	0.59 U	NS	NS	0.47 U	NS
Vanadium	mg/kg	NS	NS	NS	18.1	NS	NS	17.6	NS
Zinc	mg/kg	NS	NS	NS	55700	NS	NS	213	NS
Cyanide	mg/kg	NS	NS	NS	1.6	NS	NS	0.86 U	NS

SENECA ARMY DEPOT, ASH LANDFILL
SOIL ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	B-3	B-4	B-4	B-4	B-5	B-5	B-5	B-5
	DEPTH	6-8	0-2	2-4	4-6	0-2	0-2	2-4	4-6
	DATE	10/31/91	11/01/91	11/01/91	11/01/91	11/01/91	11/01/91	11/01/91	11/01/91
	ES ID	S1031-11RE(4)	S1101-12	S1101-13	S1101-14	S1101-15	S1101-15RE(4)	S1101-16	S1101-17
	LAB ID	147834	147885	147886	147887	147888	147888	147889	147890
COMPOUND	UNITS								
VOCs									
Chloromethane	µg/Kg	10 U	13 U	11 U	11 U	15 U J	14 U J	11 U	11 U
Bromomethane	µg/Kg	10 U	13 U	11 U	11 U	15 U J	14 U J	11 U	11 U
Vinyl Chloride	µg/Kg	10 U	13 U	11 U	11 U	15 U J	14 U J	11 U	11 U
Chloroethane	µg/Kg	10 U	13 U	11 U	11 U	15 U J	14 U J	11 U	11 U
Methylene Chloride	µg/Kg	5 U	6 U	6 U	5 U	7 U J	7 U J	5 U	6 U
Acetone	µg/Kg	12 U	13 U	11 U	11 U	15 U J	18 U J	11 U	11 U
Carbon Disulfide	µg/Kg	5 U	6 U	6 U	5 U	7 U J	7 U J	5 U	6 U
1,1-Dichloroethene	µg/Kg	5 U	6 U	6 U	5 U	7 U J	7 U J	5 U	6 U
1,1-Dichloroethane	µg/Kg	5 U	6 U	6 U	5 U	7 U J	7 U J	5 U	6 U
1,2-Dichloroethene (total)	µg/Kg	5 U	6 U	6 U	5 U	7 U J	7 U J	5 U	6 U
Chloroform	µg/Kg	5 U	6 U	6 U	5 U	7 U J	7 U J	5 U	6 U
1,2-Dichloroethane	µg/Kg	5 U	6 U	6 U	5 U	7 U J	7 U J	5 U	6 U
2-Butanone	µg/Kg	10 U	13 U	11 U	11 U	15 U J	14 U J	11 U	11 U
1,1,1-Trichloroethane	µg/Kg	5 U	6 U	6 U	5 U	7 U J	7 U J	5 U	6 U
Carbon Tetrachloride	µg/Kg	5 U	6 U	6 U	5 U	7 U J	7 U J	5 U	6 U
Vinyl Acetate	µg/Kg	10 U	13 U	11 U	11 U	15 U J	14 U J	11 U	11 U
Bromodichloromethane	µg/Kg	5 U	6 U	6 U	5 U	7 U J	7 U J	5 U	6 U
1,2-Dichloropropane	µg/Kg	5 U	6 U	6 U	5 U	7 U J	7 U J	5 U	6 U
cis-1,3-Dichloropropene	µg/Kg	5 U	6 U	6 U	5 U	7 U J	7 U J	5 U	6 U
Trichloroethene	µg/Kg	4 J	130	6 U	2 J	7 U J	7 U J	5 U	6 U
Dibromochloromethane	µg/Kg	5 U	6 U	6 U	5 U	7 U J	7 U J	5 U	6 U
1,1,2-Trichloroethane	µg/Kg	5 U	6 U	6 U	5 U	7 U J	7 U J	5 U	6 U
Benzene	µg/Kg	5 U	6 U	6 U	5 U	7 U J	7 U J	5 U	6 U
trans-1,3-Dichloropropene	µg/Kg	5 U	6 U	6 U	5 U	7 U J	7 U J	5 U	6 U
Bromoform	µg/Kg	5 U	6 U	6 U	5 U	7 U J	7 U J	5 U	6 U
4-Methyl-2-Pentanone	µg/Kg	10 U	13 U	11 U	11 U	15 U J	14 U J	11 U	11 U
2-Hexanone	µg/Kg	10 U	13 U	11 U	11 U	15 U J	14 U J	11 U	11 U
Tetrachloroethene	µg/Kg	5 U	6 U	6 U	5 U	7 U J	7 U J	5 U	6 U
1,1,2,2-Tetrachloroethane	µg/Kg	5 U	6 U	6 U	5 U	7 U J	7 U J	5 U	6 U
Toluene	µg/Kg	3 J	6 U	2 J	2 J	3 J	9 J	1 J	2 J
Chlorobenzene	µg/Kg	5 U	6 U	6 U	5 U	7 U J	7 U J	5 U	6 U
Ethylbenzene	µg/Kg	5 U	6 U	6 U	5 U	7 U J	7 U J	5 U	6 U
Styrene	µg/Kg	5 U	6 U	6 U	5 U	7 U J	7 U J	5 U	6 U
Xylene (total)	µg/Kg	5 U	6 U	6 U	5 U	7 U J	7 U J	5 U	6 U

SENECA ARMY DEPOT, ASH LANDFILL
SOIL ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	B-3	B-4	B-4	B-4	B-5	B-5	B-5	B-5
	DEPTH	6-8	0-2	2-4	4-6	0-2	0-2	2-4	4-6
	DATE	10/31/91	11/01/91	11/01/91	11/01/91	11/01/91	11/01/91	11/01/91	11/01/91
	ES ID	S1031-11RE(4)	S1101-12	S1101-13	S1101-14	S1101-15	S1101-15RE(4)	S1101-16	S1101-17
	LAB ID	147834	147885	147886	147887	147888	147888	147889	147890
COMPOUND	UNITS								
VOCs									
SEMIVOLATILES									
Phenol	µg/Kg	NS	1300 U	720 U	710 U	840 U	NS	730 U	760 U
bis(2-Chloroethyl) ether	µg/Kg	NS	1300 U	720 U	710 U	840 U	NS	730 U	760 U
2-Chlorophenol	µg/Kg	NS	1300 U	720 U	710 U	840 U	NS	730 U	760 U
1,3-Dichlorobenzene	µg/Kg	NS	1300 U	720 U	710 U	840 U	NS	730 U	760 U
1,4-Dichlorobenzene	µg/Kg	NS	1300 U	720 U	710 U	840 U	NS	730 U	760 U
Benzyl Alcohol	µg/Kg	NS	1300 U	720 U	710 U	840 U	NS	730 U	760 U
1,2-Dichlorobenzene	µg/Kg	NS	1300 U	720 U	710 U	840 U	NS	730 U	760 U
2-Methylphenol	µg/Kg	NS	1300 U	720 U	710 U	840 U	NS	730 U	760 U
bis(2-Chloroisopropyl) ether	µg/Kg	NS	1300 U	720 U	710 U	840 U	NS	730 U	760 U
4-Methylphenol	µg/Kg	NS	1300 U	720 U	710 U	840 U	NS	730 U	760 U
N-Nitroso-di-n-propylamine	µg/Kg	NS	1300 U	720 U	710 U	840 U	NS	730 U	760 U
Hexachloroethane	µg/Kg	NS	1300 U	720 U	710 U	840 U	NS	730 U	760 U
Nitrobenzene	µg/Kg	NS	1300 U	720 U	710 U	840 U	NS	730 U	760 U
Isophorone	µg/Kg	NS	1300 U	720 U	710 U	840 U	NS	730 U	760 U
2-Nitrophenol	µg/Kg	NS	1300 U	720 U	710 U	840 U	NS	730 U	760 U
2,4-Dimethylphenol	µg/Kg	NS	1300 U	720 U	710 U	840 U	NS	730 U	760 U
Benzoic acid	µg/Kg	NS	6300 U	3500 U	3400 U	4100 U	NS	3500 U	3700 U
bis(2-Chloroethoxy) methane	µg/Kg	NS	1300 U	720 U	710 U	840 U	NS	730 U	760 U
2,4-Dichlorophenol	µg/Kg	NS	1300 U	720 U	710 U	840 U	NS	730 U	760 U
1,2,4-Trichlorobenzene	µg/Kg	NS	1300 U	720 U	710 U	840 U	NS	730 U	760 U
Naphthalene	µg/Kg	NS	2400	720 U	710 U	210 J	NS	730 U	760 U
4-Chloroaniline	µg/Kg	NS	1300 U	720 U	710 U	840 U	NS	730 U	760 U
Hexachlorobutadiene	µg/Kg	NS	1300 U	720 U	710 U	840 U	NS	730 U	760 U
4-Chloro-3-methylphenol	µg/Kg	NS	1300 U	720 U	710 U	840 U	NS	730 U	760 U
2-Methylnaphthalene	µg/Kg	NS	610 J	720 U	710 U	120 J	NS	730 U	760 U
Hexachlorocyclopentadiene	µg/Kg	NS	1300 U	720 U	710 U	840 U	NS	730 U	760 U
2,4,6-Trichlorophenol	µg/Kg	NS	1300 U	720 U	710 U	840 U	NS	730 U	760 U
2,4,5-Trichlorophenol	µg/Kg	NS	6300 U	3500 U	3400 U	4100 U	NS	3500 U	3700 U
2-Chloronaphthalene	µg/Kg	NS	1300 U	720 U	710 U	840 U	NS	730 U	760 U
2-Nitroaniline	µg/Kg	NS	6300 U	3500 U	3400 U	4100 U	NS	3500 U	3700 U
Dimethylphthalate	µg/Kg	NS	1300 U	720 U	710 U	840 U	NS	730 U	760 U
Acenaphthylene	µg/Kg	NS	1300 U	720 U	710 U	310 J	NS	730 U	760 U
2,6-Dinitrotoluene	µg/Kg	NS	1300 U	720 U	710 U	840 U	NS	730 U	760 U
3-Nitroaniline	µg/Kg	NS	6300 U	3500 U	3400 U	4100 U	NS	3500 U	3700 U
Acenaphthene	µg/Kg	NS	2200	720 U	710 U	190 J	NS	730 U	760 U
2,4-Dinitrophenol	µg/Kg	NS	6300 U	3500 U	3400 U	4100 U	NS	3500 U	3700 U
4-Nitrophenol	µg/Kg	NS	6300 U	3500 U	3400 U	4100 U	NS	3500 U	3700 U
Dibenzofuran	µg/Kg	NS	1400	720 U	710 U	160 J	NS	730 U	760 U
2,4-Dinitrotoluene	µg/Kg	NS	2000	720 U	710 U	320 J	NS	730 U	760 U
Diethylphthalate	µg/Kg	NS	1300 U	720 U	710 U	840 U	NS	730 U	760 U
4-Chlorophenyl-phenylether	µg/Kg	NS	1300 U	720 U	710 U	840 U	NS	730 U	760 U
Fluorene	µg/Kg	NS	2000	720 U	710 U	310 J	NS	730 U	760 U
4-Nitroaniline	µg/Kg	NS	6300 U	3500 U	3400 U	4100 U	NS	3500 U	3700 U
4,6-Dinitro-2-methylphenol	µg/Kg	NS	6300 U	3500 U	3400 U	4100 U	NS	3500 U	3700 U
N-Nitrosodiphenylamine (1)	µg/Kg	NS	450 J	720 U	710 U	840 U	NS	730 U	760 U
4-Bromophenyl-phenylether	µg/Kg	NS	1300 U	720 U	710 U	840 U	NS	730 U	760 U
Hexachlorobenzene	µg/Kg	NS	1300 U	720 U	710 U	840 U	NS	730 U	760 U
Pentachlorophenol	µg/Kg	NS	6300 U	3500 U	3400 U	4100 U	NS	3500 U	3700 U
Phenanthrene	µg/Kg	NS	13000	130 J	120 J	3900	NS	730 U	760 U
Anthracene	µg/Kg	NS	4200	720 U	710 U	790 J	NS	730 U	760 U
Carbazole	µg/Kg	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate	µg/Kg	NS	1300 U	720 U	710 U	840 U	NS	730 U	760 U
Fluoranthene	µg/Kg	NS	14000	160 J	150 J	6200	NS	73 J	89 J
Pyrene	µg/Kg	NS	12000	140 J	120 J	5100	NS	69 J	73 J
Butylbenzylphthalate	µg/Kg	NS	1300 U	720 U	710 U	840 U	NS	730 U	760 U
3,3'-Dichlorobenzidine	µg/Kg	NS	2600 U	1400 U	1400 U	1700 U	NS	1500 U	1500 U
Benzo(a)anthracene	µg/Kg	NS	8800	110 J	86 J	3000	NS	730 U	75 J
Chrysene	µg/Kg	NS	8000	110 J	90 J	3100	NS	730 U	76 J
bis(2-Ethylhexyl)phthalate	µg/Kg	NS	160 J	720 U	710 U	840 U	NS	3600	760 U
Di-n-octylphthalate	µg/Kg	NS	1300 U	720 U	710 U	840 U	NS	730 U	760 U
Benzo(b)fluoranthene	µg/Kg	NS	8800	91 J	710 U	2600	NS	730 U	74 J
Benzo(k)fluoranthene	µg/Kg	NS	6700	85 J	710 U	2300	NS	730 U	70 J
Benzo(a)pyrene	µg/Kg	NS	9000	110 J	76 J	2100	NS	730 U	81 J
Indeno(1,2,3-cd)pyrene	µg/Kg	NS	4800	720 U	710 U	1300	NS	730 U	760 U
Dibenz(a,h)anthracene	µg/Kg	NS	2000	720 U	710 U	640 J	NS	730 U	760 U
Benzo(g,h,i)perylene	µg/Kg	NS	5000	720 U	710 U	1400	NS	730 U	760 U

SENECA ARMY DEPOT, ASH LANDFILL
SOIL ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

COMPOUND	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	B-3	B-4	B-4	B-4	B-5	B-5	B-5	B-5
	DEPTH	6-8	0-2	2-4	4-6	0-2	0-2	2-4	4-6
	DATE	10/31/91	11/01/91	11/01/91	11/01/91	11/01/91	11/01/91	11/01/91	11/01/91
	ES ID	S1031-11RE(4)	S1101-12	S1101-13	S1101-14	S1101-15	S1101-15RE(4)	S1101-16	S1101-17
	LAB ID	147834	147885	147886	147887	147888	147888	147889	147890
	UNITS								
VOCs									
PESTICIDES/PCBs									
alpha-BHC	µg/Kg	NS	19 U	17 U	17 U	20 U	NS	18 U	18 U
beta-BHC	µg/Kg	NS	19 U	17 U	17 U	20 U	NS	18 U	18 U
delta-BHC	µg/Kg	NS	19 U	17 U	17 U	20 U	NS	18 U	18 U
gamma-BHC (Lindane)	µg/Kg	NS	19 U	17 U	17 U	20 U	NS	18 U	18 U
Heptachlor	µg/Kg	NS	19 U	17 U	17 U	20 U	NS	18 U	18 U
Aldrin	µg/Kg	NS	19 U	17 U	17 U	20 U	NS	18 U	18 U
Heptachlor epoxide	µg/Kg	NS	19 U	17 U	17 U	20 U	NS	18 U	18 U
Endosulfan I	µg/Kg	NS	19 U	17 U	17 U	20 U	NS	18 U	18 U
Dieldrin	µg/Kg	NS	38 U	35 U	34 U	41 U	NS	35 U	37 U
4,4'-DDE	µg/Kg	NS	38 U	35 U	34 U	41 U	NS	35 U	37 U
Endrin	µg/Kg	NS	38 U	35 U	34 U	41 U	NS	35 U	37 U
Endosulfan II	µg/Kg	NS	38 U	35 U	34 U	41 U	NS	35 U	37 U
4,4'-DDD	µg/Kg	NS	38 U	35 U	34 U	41 U	NS	35 U	37 U
Endosulfan sulfate	µg/Kg	NS	38 U	35 U	34 U	41 U	NS	35 U	37 U
4,4'-DDT	µg/Kg	NS	38 U	35 U	34 U	41 U	NS	35 U	37 U
Methoxychlor	µg/Kg	NS	190 U	170 U	170 U	200 U	NS	180 U	180 U
Endrin ketone	µg/Kg	NS	38 U	35 U	34 U	41 U	NS	35 U	37 U
Endrin aldehyde	µg/Kg	NS	NS	NS	NS	NS	NS	NS	NS
alpha-Chlordane	µg/Kg	NS	190 U	170 U	170 U	200 U	NS	180 U	180 U
gamma-Chlordane	µg/Kg	NS	190 U	170 U	170 U	200 U	NS	180 U	180 U
Toxaphene	µg/Kg	NS	380 U	350 U	340 U	410 U	NS	350 U	370 U
Aroclor-1016	µg/Kg	NS	190 U	170 U	170 U	200 U	NS	180 U	180 U
Aroclor-1221	µg/Kg	NS	190 U	170 U	170 U	200 U	NS	180 U	180 U
Aroclor-1232	µg/Kg	NS	190 U	170 U	170 U	200 U	NS	180 U	180 U
Aroclor-1242	µg/Kg	NS	190 U	170 U	170 U	200 U	NS	180 U	180 U
Aroclor-1248	µg/Kg	NS	190 U	170 U	170 U	200 U	NS	180 U	180 U
Aroclor-1254	µg/Kg	NS	380 U	350 U	340 U	410 U	NS	350 U	370 U
Aroclor-1260	µg/Kg	NS	380 U	350 U	340 U	410 U	NS	350 U	370 U
HERBICIDES									
2,4-D	µg/Kg	NS	59 U J	55 U J	54 U J	64 U J	NS	55 U J	58 U J
2,4-DB	µg/Kg	NS	59 U J	140 J	230 J	64 U J	NS	55 U J	180 J
2,4,5-T	µg/Kg	NS	5.9 U J	5.5 U J	5.4 U J	6.4 U J	NS	5.5 U J	5.8 U J
2,4,5-TP (Silvex)	µg/Kg	NS	5.9 U J	5.5 U J	5.4 U J	6.4 U J	NS	5.5 U J	5.8 U J
Dalapon	µg/Kg	NS	140 U J	130 U J	130 U J	150 U J	NS	130 U J	140 U J
Dicamba	µg/Kg	NS	5.9 U J	5.5 U J	5.4 U J	6.4 U J	NS	5.5 U J	5.8 U J
Dichloroprop	µg/Kg	NS	59 U J	55 U J	54 U J	64 U J	NS	55 U J	58 U J
Dinoseb	µg/Kg	NS	30 U J	27 U J	27 U J	32 U J	NS	27 U J	29 U J
MCPA	µg/Kg	NS	5900 U J	5500 U J	5400 U J	6400 U J	NS	5500 U J	5800 U J
MCPP	µg/Kg	NS	5900 U J	5500 U J	5400 U J	6400 U J	NS	5500 U J	5800 U J
METALS									
Aluminum	mg/kg	NS	16400	11500	16100	8610	NS	14000	14900
Antimony	mg/kg	NS	18.3 J	6.3 J	10.4 U J	12 U J	NS	8.5 U J	8.7 U J
Arsenic	mg/kg	NS	11.4	5.6	6.5	17.3	NS	5.1	5.3
Barium	mg/kg	NS	455	62.9	58.5	399	NS	61.3	78.7
Beryllium	mg/kg	NS	0.75 U	0.59 J	0.87 J	0.79 U	NS	0.7 J	0.82
Cadmium	mg/kg	NS	7.9	1.7	2.4	10.4	NS	2	2.4
Calcium	mg/kg	NS	27500	134000	42200	104000	NS	89100	29700
Chromium	mg/kg	NS	62	16.8	24.2	57	NS	20.2	21.6
Cobalt	mg/kg	NS	15.7	6.2	14.5	10.9 J	NS	12.5	17.3
Copper	mg/kg	NS	311	19.6 J	21.5 J	498	NS	26.5 J	27.7 J
Iron	mg/kg	NS	83800	23200	37200	81400	NS	30900	642000
Lead	mg/kg	NS	2890	10.1	10.5	1750	NS	248	16.2 J
Magnesium	mg/kg	NS	6990	13100	9050	4090	NS	8450	5460
Manganese	mg/kg	NS	806	485	549	964	NS	796	1000
Mercury	mg/kg	NS	1.1	0.04 U	0.04 J	1	NS	0.07 J	0.08 J
Nickel	mg/kg	NS	67.2	26.1	39	74.8	NS	32	39.8
Potassium	mg/kg	NS	2350	1720	1740	1380	NS	1750	1780
Selenium	mg/kg	NS	0.19 U	0.7 U	0.2 U	0.25 U	NS	0.17 U	0.91 U
Silver	mg/kg	NS	2.8	1.1 U	1.6 U	1.8 U	NS	1.3 U	1.3 U
Sodium	mg/kg	NS	285 J	83 J	79.6 U J	196 J	NS	65.4 U J	66.2 U J
Thallium	mg/kg	NS	0.54 U	0.39 U	0.57 U	0.7 U	NS	0.47 U	0.51 U
Vanadium	mg/kg	NS	24.9	15.3	18.1	14.5	NS	20.2	20.1
Zinc	mg/kg	NS	3050	74.4	92.7	27600	NS	513	841
Cyanide	mg/kg	NS	0.69 U	0.63 U	0.6 U	0.61 U	NS	0.64 U	0.68 U

SENECA ARMY DEPOT, ASH LANDFILL
SOIL ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	B-5	B-5	B-6	B-6	B-7	B-7	B-7	B-8
	DEPTH	8-10	8-10	0-2	2-4	0-2	2-4	10-12	0-2
	DATE	11/01/91	11/01/91	11/04/91	11/04/91	11/04/91	11/04/91	11/04/91	11/05/91
	ES ID	S1101-18	S1101-18RE(4)	S1104-19	S1104-20	S1104-21	S1104-22	S1104-23	S1105-24
	LAB ID	147891	147891	148021	148022	148023	148024	148025	148026
COMPOUND	UNITS								
VOCs									
Chloromethane	µg/Kg	10 U J	10 U J	12 U	11 U	11 U	11 U	13 U	12 U
Bromomethane	µg/Kg	10 U J	10 U J	12 U	11 U	11 U	11 U	13 U	12 U
Vinyl Chloride	µg/Kg	10 U J	10 U J	12 U	11 U	11 U	11 U	13 U	12 U
Chloroethane	µg/Kg	10 U J	10 U J	12 U	11 U	11 U	11 U	13 U	12 U
Methylene Chloride	µg/Kg	5 U J	5 U J	6 U	6 U	6 U	5 U	7 U	6 U
Acetone	µg/Kg	24 U J	29 U J	12 U	11 U	13 U	11 U	29 U	13 U
Carbon Disulfide	µg/Kg	3 U J	3 J	6 U	6 U	6 U	5 U	7 U	6 U
1,1-Dichloroethene	µg/Kg	5 U J	5 U J	6 U	6 U	6 U	5 U	7 U	6 U
1,1-Dichloroethane	µg/Kg	5 U J	5 U J	6 U	6 U	6 U	5 U	7 U	6 U
1,2-Dichloroethene (total)	µg/Kg	5 U J	5 U J	6 U	6 U	6 U	12	8	6 U
Chloroform	µg/Kg	5 U J	5 U J	6 U	6 U	6 U	5 U	7 U	2 J
1,2-Dichloroethane	µg/Kg	5 U J	5 U J	6 U	6 U	6 U	5 U	7 U	6 U
2-Butanone	µg/Kg	10 U J	10 U J	12 U	11 U	11 U	11 U	13 U	12 U
1,1,1-Trichloroethane	µg/Kg	5 U J	5 U J	6 U	6 U	6 U	5 U	7 U	6 U
Carbon Tetrachloride	µg/Kg	5 U J	5 U J	6 U	6 U	6 U	5 U	7 U	6 U
Vinyl Acetate	µg/Kg	10 U J	10 U J	12 U	11 U	11 U	11 U	13 U	12 U
Bromodichloromethane	µg/Kg	5 U J	5 U J	6 U	6 U	6 U	5 U	7 U	6 U
1,2-Dichloropropane	µg/Kg	5 U J	5 U J	6 U	6 U	6 U	5 U	7 U	6 U
cis-1,3-Dichloropropene	µg/Kg	5 U J	5 U J	6 U	6 U	6 U	5 U	7 U	6 U
Trichloroethene	µg/Kg	5 U J	5 U J	6 U	6 U	6 U	5 J	4 J	6 U
Dibromochloromethane	µg/Kg	5 U J	5 U J	6 U	6 U	6 U	5 U	7 U	6 U
1,1,2-Trichloroethane	µg/Kg	5 U J	5 U J	6 U	6 U	6 U	5 U	7 U	6 U
Benzene	µg/Kg	5 U J	5 U J	6 U	6 U	6 U	5 U	7 U	6 U
trans-1,3-Dichloropropene	µg/Kg	5 U J	5 U J	6 U	6 U	6 U	5 U	7 U	6 U
Bromoform	µg/Kg	5 U J	5 U J	6 U	6 U	6 U	5 U	7 U	6 U
4-Methyl-2-Pentanone	µg/Kg	10 U J	10 U J	12 U	11 U	11 U	11 U	13 U	12 U
2-Hexanone	µg/Kg	10 U J	10 U J	12 U	11 U	11 U	11 U	13 U	12 U
Tetrachloroethene	µg/Kg	5 U J	5 U J	6 U	6 U	6 U	5 U	7 U	6 U
1,1,2,2-Tetrachloroethane	µg/Kg	5 U J	5 U J	6 U	6 U	6 U	5 U	7 U	6 U
Toluene	µg/Kg	6 J	6 J	6 U	6 U	6 U	5 J	7 U	2 J
Chlorobenzene	µg/Kg	5 U J	5 U J	6 U	6 U	6 U	5 U	7 U	6 U
Ethylbenzene	µg/Kg	5 U J	5 U J	6 U	6 U	6 U	2 J	7 U	6 U
Styrene	µg/Kg	5 U J	5 U J	6 U	6 U	6 U	5 U	7 U	6 U
Xylene (total)	µg/Kg	5 U J	5 U J	6 U	6 U	6 U	8	7 U	6 U

SENECA ARMY DEPOT, ASH LANDFILL
SOIL ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

COMPOUND	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	B-5	B-5	B-6	B-6	B-7	B-7	B-7	B-8
	DEPTH	8-10	8-10	0-2	2-4	0-2	2-4	10-12	0-2
	DATE	11/01/91	11/01/91	11/04/91	11/04/91	11/04/91	11/04/91	11/04/91	11/05/91
	ES ID	S1101-18	S1101-18RE(4)	S1104-19	S1104-20	S1104-21	S1104-22	S1104-23	S1105-24
	LAB ID	147891	147891	148021	148022	148023	148024	148025	148026
	UNITS								
VOCs									
SEMIVOLATILES									
Phenol	µg/Kg	NS	NS	780 U	740 U	1900 U	720 U	870 U	760 U
bis(2-Chloroethyl) ether	µg/Kg	NS	NS	780 U	740 U	1900 U	720 U	870 U	760 U
2-Chlorophenol	µg/Kg	NS	NS	780 U	740 U	1900 U	720 U	870 U	760 U
1,3-Dichlorobenzene	µg/Kg	NS	NS	780 U	740 U	1900 U	720 U	870 U	760 U
1,4-Dichlorobenzene	µg/Kg	NS	NS	780 U	740 U	1900 U	720 U	870 U	760 U
Benzyl Alcohol	µg/Kg	NS	NS	780 U	740 U	1900 U	720 U	870 U	760 U
1,2-Dichlorobenzene	µg/Kg	NS	NS	780 U	740 U	1900 U	720 U	870 U	760 U
2-Methylphenol	µg/Kg	NS	NS	780 U	740 U	1900 U	720 U	870 U	760 U
bis(2-Chloroisopropyl) ether	µg/Kg	NS	NS	780 U	740 U	1900 U	720 U	870 U	760 U
4-Methylphenol	µg/Kg	NS	NS	780 U	740 U	1900 U	720 U	870 U	760 U
N-Nitroso-di-n-propylamine	µg/Kg	NS	NS	780 U	740 U	1900 U	720 U	870 U	760 U
Hexachloroethane	µg/Kg	NS	NS	780 U	740 U	1900 U	720 U	870 U	760 U
Nitrobenzene	µg/Kg	NS	NS	780 U	740 U	1900 U	720 U	870 U	760 U
Isophorone	µg/Kg	NS	NS	780 U	740 U	1900 U	720 U	870 U	760 U
2-Nitrophenol	µg/Kg	NS	NS	780 U	740 U	1900 U	720 U	870 U	760 U
2,4-Dimethylphenol	µg/Kg	NS	NS	780 U	740 U	1900 U	720 U	870 U	760 U
Benzoic acid	µg/Kg	NS	NS	3800 U	3600 U	9000 U	500 J	4200 U	3700 U
bis(2-Chloroethoxy) methane	µg/Kg	NS	NS	780 U	740 U	1900 U	720 U	870 U	760 U
2,4-Dichlorophenol	µg/Kg	NS	NS	780 U	740 U	1900 U	720 U	870 U	760 U
1,2,4-Trichlorobenzene	µg/Kg	NS	NS	780 U	740 U	1900 U	720 U	870 U	760 U
Naphthalene	µg/Kg	NS	NS	780 U	740 U	830 J	440 J	870 U	760 U
4-Chloroaniline	µg/Kg	NS	NS	780 U	740 U	1900 U	720 U	870 U	760 U
Hexachlorobutadiene	µg/Kg	NS	NS	780 U	740 U	1900 U	720 U	870 U	760 U
4-Chloro-3-methylphenol	µg/Kg	NS	NS	780 U	740 U	1900 U	720 U	870 U	760 U
2-Methylnaphthalene	µg/Kg	NS	NS	780 U	740 U	430 J	360 J	870 U	760 U
Hexachlorocyclopentadiene	µg/Kg	NS	NS	780 U	740 U	1900 U	720 U	870 U	760 U
2,4,6-Trichlorophenol	µg/Kg	NS	NS	780 U	740 U	1900 U	720 U	870 U	760 U
2,4,5-Trichlorophenol	µg/Kg	NS	NS	3800 U	3600 U	9000 U	3500 U	4200 U	3700 U
2-Chloronaphthalene	µg/Kg	NS	NS	780 U	740 U	1900 U	720 U	870 U	760 U
2-Nitroaniline	µg/Kg	NS	NS	3800 U	3600 U	9000 U	3500 U	4200 U	3700 U
Dimethylphthalate	µg/Kg	NS	NS	780 U	740 U	1900 U	720 U	870 U	760 U
Acenaphthylene	µg/Kg	NS	NS	780 U	740 U	1900 U	720 U	870 U	760 U
2,6-Dinitrotoluene	µg/Kg	NS	NS	780 U	740 U	1900 U	720 U	870 U	760 U
3-Nitroaniline	µg/Kg	NS	NS	3800 U	3600 U	9000 U	3500 U	4200 U	3700 U
Acenaphthene	µg/Kg	NS	NS	780 U	740 U	2200	1000	870 U	760 U
2,4-Dinitrophenol	µg/Kg	NS	NS	3800 U	3600 U	9000 U	3500 U	4200 U	3700 U
4-Nitrophenol	µg/Kg	NS	NS	3800 U	3600 U	9000 U	3500 U	4200 U	3700 U
Dibenzofuran	µg/Kg	NS	NS	780 U	740 U	960 J	400 J	870 U	760 U
2,4-Dinitrotoluene	µg/Kg	NS	NS	780 U	740 U	1900 U	720 U	870 U	760 U
Diethylphthalate	µg/Kg	NS	NS	780 U	740 U	1900 U	720 U	870 U	760 U
4-Chlorophenyl-phenylether	µg/Kg	NS	NS	780 U	740 U	1900 U	720 U	870 U	760 U
Fluorene	µg/Kg	NS	NS	780 U	740 U	2000	880	870 U	760 U
4-Nitroaniline	µg/Kg	NS	NS	3800 U	3600 U	9000 U	3500 U	4200 U	3700 U
4,6-Dinitro-2-methylphenol	µg/Kg	NS	NS	3800 U	3600 U	9000 U	3500 U	4200 U	3700 U
N-Nitrosodiphenylamine (1)	µg/Kg	NS	NS	780 U	740 U	1900 U	720 U	870 U	760 U
4-Bromophenyl-phenylether	µg/Kg	NS	NS	780 U	740 U	1900 U	720 U	870 U	760 U
Hexachlorobenzene	µg/Kg	NS	NS	780 U	740 U	1900 U	720 U	870 U	760 U
Pentachlorophenol	µg/Kg	NS	NS	3800 U	3600 U	9000 U	3500 U	4200 U	3700 U
Phenanthrene	µg/Kg	NS	NS	780 U	740 U	15000	5200	870 U	760 U
Anthracene	µg/Kg	NS	NS	780 U	740 U	3500	1300	870 U	760 U
Carbazole	µg/Kg	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate	µg/Kg	NS	NS	780 U	740 U	1900 U	630 J	870 U	760 U
Fluoranthene	µg/Kg	NS	NS	780 U	740 U	22000	6700	870 U	760 U
Pyrene	µg/Kg	NS	NS	780 U	740 U	16000	4800	870 U	760 U
Butylbenzylphthalate	µg/Kg	NS	NS	780 U	740 U	1900 U	720 U	870 U	760 U
3,3'-Dichlorobenzidine	µg/Kg	NS	NS	1600 U	1500 U	3700 U	1400 U	1700 U	1500 U
Benzo(a)anthracene	µg/Kg	NS	NS	780 U	740 U	9600	3000	870 U	760 U
Chrysene	µg/Kg	NS	NS	780 U	740 U	9900	3200	870 U	760 U
bis(2-Ethylhexyl)phthalate	µg/Kg	NS	NS	780 U	740 U	1900 U	720 U	870 U	760 U
Di-n-octylphthalate	µg/Kg	NS	NS	780 U	740 U	1900 U	720 U	870 U	760 U
Benzo(b)fluoranthene	µg/Kg	NS	NS	780 U	740 U	9500	2900	870 U	760 U
Benzo(k)fluoranthene	µg/Kg	NS	NS	780 U	740 U	6100	1700	870 U	760 U
Benzo(a)pyrene	µg/Kg	NS	NS	780 U	740 U	8400	2500	870 U	760 U
Indeno(1,2,3-cd)pyrene	µg/Kg	NS	NS	780 U	740 U	4600	1200	870 U	760 U
Dibenz(a,h)anthracene	µg/Kg	NS	NS	780 U	740 U	1800 J	620 J	870 U	760 U
Benzo(g,h,i)perylene	µg/Kg	NS	NS	780 U	740 U	4000	1200	870 U	760 U

SENECA ARMY DEPOT, ASH LANDFILL
SOIL ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

COMPOUND	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	B-5	B-5	B-6	B-6	B-7	B-7	B-7	B-8
	DEPTH	8-10	8-10	0-2	2-4	0-2	2-4	10-12	0-2
	DATE	11/01/91	11/01/91	11/04/91	11/04/91	11/04/91	11/04/91	11/04/91	11/05/91
	ES ID	S1101-18	S1101-18RE(4)	S1104-19	S1104-20	S1104-21	S1104-22	S1104-23	S1105-24
	LAB ID	147891	147891	148021	148022	148023	148024	148025	148026
	UNITS								
VOCs									
PESTICIDES/PCBs									
alpha-BHC	µg/Kg	NS	NS	19 U	18 U	18 U	17 U	21 U	18 U
beta-BHC	µg/Kg	NS	NS	19 U	18 U	18 U	17 U	21 U	18 U
delta-BHC	µg/Kg	NS	NS	19 U	18 U	18 U	17 U	21 U	18 U
gamma-BHC (Lindane)	µg/Kg	NS	NS	19 U	18 U	18 U	17 U	21 U	18 U
Heptachlor	µg/Kg	NS	NS	19 U	18 U	18 U	17 U	21 U	18 U
Aldrin	µg/Kg	NS	NS	19 U	18 U	18 U	17 U	21 U	18 U
Heptachlor epoxide	µg/Kg	NS	NS	19 U	18 U	18 U	17 U	21 U	18 U
Endosulfan I	µg/Kg	NS	NS	19 U	18 U	18 U	17 U	21 U	18 U
Dieldrin	µg/Kg	NS	NS	38 U	36 U	36 U	35 U	42 U	37 U
4,4'-DDE	µg/Kg	NS	NS	38 U	36 U	27 J	18 J	42 U	37 U
Endrin	µg/Kg	NS	NS	38 U	36 U	36 U	35 U	42 U	37 U
Endosulfan II	µg/Kg	NS	NS	38 U	36 U	36 U	35 U	42 U	37 U
4,4'-DDD	µg/Kg	NS	NS	38 U	36 U	27 J	29 J	42 U	37 U
Endosulfan sulfate	µg/Kg	NS	NS	38 U	36 U	36 U	35 U	42 U	37 U
4,4'-DDT	µg/Kg	NS	NS	38 U	36 U	36	19 J	42 U	37 U
Methoxychlor	µg/Kg	NS	NS	190 U	180 U	180 U	170 U	210 U	180 U
Endrin ketone	µg/Kg	NS	NS	38 U	36 U	36 U	35 U	42 U	37 U
Endrin aldehyde	µg/Kg	NS	NS	NS	NS	NS	NS	NS	NS
alpha-Chlordane	µg/Kg	NS	NS	190 U	180 U	180 U	170 U	210 U	180 U
gamma-Chlordane	µg/Kg	NS	NS	190 U	180 U	180 U	170 U	210 U	180 U
Toxaphene	µg/Kg	NS	NS	380 U	360 U	360 U	350 U	420 U	370 U
Aroclor-1016	µg/Kg	NS	NS	190 U	180 U	180 U	170 U	210 U	180 U
Aroclor-1221	µg/Kg	NS	NS	190 U	180 U	180 U	170 U	210 U	180 U
Aroclor-1232	µg/Kg	NS	NS	190 U	180 U	180 U	170 U	210 U	180 U
Aroclor-1242	µg/Kg	NS	NS	190 U	180 U	180 U	170 U	210 U	180 U
Aroclor-1248	µg/Kg	NS	NS	190 U	180 U	180 U	170 U	210 U	180 U
Aroclor-1254	µg/Kg	NS	NS	380 U	360 U	360 U	350 U	420 U	370 U
Aroclor-1260	µg/Kg	NS	NS	380 U	360 U	360 U	350 U	420 U	370 U
HERBICIDES									
2,4-D	µg/Kg	NS	NS	59 U J	56 U J	56 U J	54 U J	66 U J	58 U J
2,4-DB	µg/Kg	NS	NS	91 U	56 U J	56 U J	54 U J	66 U J	58 U J
2,4,5-T	µg/Kg	NS	NS	5.9 U J	5.6 U J	6 U J	5 U J	7 U J	6 U J
2,4,5-TP (Silvex)	µg/Kg	NS	NS	5.9 U J	5.6 U J	6 U J	5 U J	7 U J	6 U J
Dalapon	µg/Kg	NS	NS	140 U J	130 U J	130 U J	130 U J	160 U J	140 U J
Dicamba	µg/Kg	NS	NS	5.9 U J	5.6 U J	6 U J	5 U J	7 U J	6 U J
Dichloroprop	µg/Kg	NS	NS	59 U J	56 U J	56 U J	54 U J	66 U J	58 U J
Dinoseb	µg/Kg	NS	NS	29 U J	28 U J	28 U J	27 U J	33 U J	29 U J
MCPA	µg/Kg	NS	NS	5900 U J	5600 U J	5600 U J	5400 U J	6600 U J	5800 U J
MCPP	µg/Kg	NS	NS	5900 U J	5600 U J	5600 U J	5400 U J	6600 U J	5800 U J
METALS									
Aluminum	mg/kg	NS	NS	20800	22500	15200		21800	19200
Antimony	mg/kg	NS	NS	7.7 U J	11.2 J	11.8 U J		10.8 U J	10.3 U J
Arsenic	mg/kg	NS	NS	6.7	8.1	7.1 J		6.1 J	5.1 J
Barium	mg/kg	NS	NS	123	108	181 J		119 J	136 J
Beryllium	mg/kg	NS	NS	1.2	1.4	1.2		1.4	1.4
Cadmium	mg/kg	NS	NS	2.5	2.7	3.2		3.1	2.6
Calcium	mg/kg	NS	NS	2710	9730	47000		4760	5390
Chromium	mg/kg	NS	NS	27.9	31.5	33.7 J		29.3 J	27.4 J
Cobalt	mg/kg	NS	NS	14.5	18.7	12.9		17.3	13.8
Copper	mg/kg	NS	NS	33.7 J	33.5 J	46.4		23.9	22.3
Iron	mg/kg	NS	NS	31000	37900	34100		38500	37200
Lead	mg/kg	NS	NS	12	10.8	85.9		14.3	14.5
Magnesium	mg/kg	NS	NS	5380	8910	9900		5620	5850
Manganese	mg/kg	NS	NS	917	739	688		1240	1130
Mercury	mg/kg	NS	NS	0.05 J	0.06 J	0.29		0.09 J	0.09
Nickel	mg/kg	NS	NS	37.4	50.4	43		33.9	42.3
Potassium	mg/kg	NS	NS	2080	3030	2300		2270	1910
Selenium	mg/kg	NS	NS	0.18 J	0.13 U	0.18 U J		0.22 U J	0.17 U J
Silver	mg/kg	NS	NS	1.2 U	1.7 U	2.2		2.2	1.6 U
Sodium	mg/kg	NS	NS	58.9 U J	85.5 U J	127 J		83.6 J	79.2 U
Thallium	mg/kg	NS	NS	0.43 U	0.37 U	0.5 U		0.61 U	0.47 U
Vanadium	mg/kg	NS	NS	32.7	31.3	36.8		29.2	32.2
Zinc	mg/kg	NS	NS	89.8	108	252 J		94.9 J	85.1 J
Cyanide	mg/kg	NS	NS	0.68 U	0.68 U	0.67 U		0.77 U	0.6 U

SENECA ARMY DEPOT, ASH LANDFILL
SOIL ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

COMPOUND	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	B-8	B-8	B-8	B-9	B-9	B-9	B-9	B-10
	DEPTH	2-4	2-4	6-8	0-2	2-4	6-8	6-8	0-2
	DATE	11/05/91	11/05/91	11/05/91	11/05/91	11/05/91	11/05/91	11/05/91	11/06/91
	ES ID	S1105-25	S1105-26(1)	S1105-27	S1105-28	S1105-29	S1105-30	S1105-30RE(4)	S1106-31
	LAB ID	148027	148028	148029	148030	148031	148032	148032RI	148457
	UNITS								
VOCs									
Chloromethane	µg/Kg	11 U	11 U	11 U	11 U	11 U	11 U	NS	NS
Bromomethane	µg/Kg	11 U	11 U	11 U	11 U	11 U	11 U	NS	NS
Vinyl Chloride	µg/Kg	11 U	11 U	11 U	11 U	11 U	11 U	NS	NS
Chloroethane	µg/Kg	11 U	11 U	11 U	11 U	11 U	11 U	NS	NS
Methylene Chloride	µg/Kg	5 U	6 U	5 U	6 U	6 U	5 U	NS	NS
Acetone	µg/Kg	11 U	11 U	11 U	11 U	11 U	11 U	NS	NS
Carbon Disulfide	µg/Kg	5 U	6 U	5 U	6 U	6 U	5 U	NS	NS
1,1-Dichloroethene	µg/Kg	5 U	6 U	5 U	6 U	6 U	5 U	NS	NS
1,1-Dichloroethane	µg/Kg	5 U	6 U	5 U	6 U	6 U	5 U	NS	NS
1,2-Dichloroethene (total)	µg/Kg	5 U	6 U	5 U	6 U	6 U	5 U	NS	NS
Chloroform	µg/Kg	5 U	4 J	5 U	6 U	4 J	1 J	NS	NS
1,2-Dichloroethane	µg/Kg	5 U	6 U	5 U	6 U	6 U	5 U	NS	NS
2-Butanone	µg/Kg	11 U	11 U	11 U	11 U	11 U	11 U	NS	NS
1,1,1-Trichloroethane	µg/Kg	5 U	6 U	5 U	6 U	6 U	5 U	NS	NS
Carbon Tetrachloride	µg/Kg	5 U	6 U	5 U	6 U	6 U	5 U	NS	NS
Vinyl Acetate	µg/Kg	11 U	11 U	11 U	11 U	11 U	11 U	NS	NS
Bromodichloromethane	µg/Kg	5 U	6 U	5 U	6 U	6 U	5 U	NS	NS
1,2-Dichloropropane	µg/Kg	5 U	6 U	5 U	6 U	6 U	5 U	NS	NS
cis-1,3-Dichloropropene	µg/Kg	5 U	6 U	5 U	6 U	6 U	5 U	NS	NS
Trichloroethene	µg/Kg	5 U	6 U	5 U	6 U	6 U	5 U	NS	NS
Dibromochloromethane	µg/Kg	5 U	6 U	5 U	6 U	6 U	5 U	NS	NS
1,1,2-Trichloroethane	µg/Kg	5 U	6 U	5 U	6 U	6 U	5 U	NS	NS
Benzene	µg/Kg	5 U	6 U	5 U	6 U	6 U	5 U	NS	NS
trans-1,3-Dichloropropene	µg/Kg	5 U	6 U	5 U	6 U	6 U	5 U	NS	NS
Bromoform	µg/Kg	5 U	6 U	5 U	6 U	6 U	5 U	NS	NS
4-Methyl-2-Pentanone	µg/Kg	11 U	11 U	11 U	11 U	11 U	11 U	NS	NS
2-Hexanone	µg/Kg	11 U	11 U	11 U	11 U	11 U	11 U	NS	NS
Tetrachloroethene	µg/Kg	5 U	6 U	5 U	6 U	6 U	5 U	NS	NS
1,1,2,2-Tetrachloroethane	µg/Kg	5 U	6 U	5 U	6 U	6 U	5 U	NS	NS
Toluene	µg/Kg	5 U	6 U	5 U	6 U	6 U	5 U	NS	NS
Chlorobenzene	µg/Kg	5 U	6 U	5 U	6 U	6 U	5 U	NS	NS
Ethylbenzene	µg/Kg	5 U	6 U	5 U	6 U	6 U	5 U	NS	NS
Styrene	µg/Kg	5 U	6 U	5 U	6 U	6 U	5 U	NS	NS
Xylene (total)	µg/Kg	5 U	6 U	5 U	6 U	6 U	5 U	NS	NS

SENECA ARMY DEPOT, ASH LANDFILL
SOIL ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

COMPOUND	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	B-8	B-8	B-8	B-9	B-9	B-9	B-9	B-10
	DEPTH	2-4	2-4	6-8	0-2	2-4	6-8	6-8	0-2
	DATE	11/05/91	11/05/91	11/05/91	11/05/91	11/05/91	11/05/91	11/05/91	11/06/91
	ES ID	S1105-25	S1105-26(1)	S1105-27	S1105-28	S1105-29	S1105-30	S1105-30RE(4)	S1106-31
	LAB ID	148027	148028	148029	148030	148031	148032	148032RI	148457
	UNITS								
VOCs									
SEMIVOLATILES									
Phenol	µg/Kg	750 U	720 U	700 U	780 U	730 U J	710 U	NS	740 U
bis(2-Chloroethyl) ether	µg/Kg	750 U	720 U	700 U	780 U	730 U J	710 U	NS	740 U
2-Chlorophenol	µg/Kg	750 U	720 U	700 U	780 U	730 U J	710 U	NS	740 U
1,3-Dichlorobenzene	µg/Kg	750 U	720 U	700 U	780 U	730 U J	710 U	NS	740 U
1,4-Dichlorobenzene	µg/Kg	750 U	720 U	700 U	780 U	730 U J	710 U	NS	740 U
Benzyl Alcohol	µg/Kg	750 U	720 U	700 U	780 U	730 U J	710 U	NS	740 U
1,2-Dichlorobenzene	µg/Kg	750 U	720 U	700 U	780 U	730 U J	710 U	NS	740 U
2-Methylphenol	µg/Kg	750 U	720 U	700 U	780 U	730 U J	710 U	NS	740 U
bis(2-Chloroisopropyl) ether	µg/Kg	750 U	720 U	700 U	780 U	730 U J	710 U	NS	740 U
4-Methylphenol	µg/Kg	750 U	720 U	700 U	780 U	730 U J	710 U	NS	740 U
N-Nitroso-di-n-propylamine	µg/Kg	750 U	720 U	700 U	780 U	730 U J	710 U	NS	740 U
Hexachloroethane	µg/Kg	750 U	720 U	700 U	780 U	730 U J	710 U	NS	740 U
Nitrobenzene	µg/Kg	750 U	720 U	700 U	780 U	730 U J	710 U	NS	740 U
Isophorone	µg/Kg	750 U	720 U	700 U	780 U	730 U J	710 U	NS	740 U
2-Nitrophenol	µg/Kg	750 U	720 U	700 U	780 U	730 U J	710 U	NS	740 U
2,4-Dimethylphenol	µg/Kg	750 U	720 U	700 U	780 U	730 U J	710 U	NS	740 U
Benzoic acid	µg/Kg	3600 U	3500 U	3400 U	3800 U	3500 U J	3400 U	NS	3600 U
bis(2-Chloroethoxy) methane	µg/Kg	750 U	720 U	700 U	780 U	730 U J	710 U	NS	740 U
2,4-Dichlorophenol	µg/Kg	750 U	720 U	700 U	780 U	730 U J	710 U	NS	740 U
1,2,4-Trichlorobenzene	µg/Kg	750 U	720 U	700 U	780 U	730 U J	710 U	NS	740 U
Naphthalene	µg/Kg	750 U	720 U	700 U	780 U	730 U J	710 U	NS	310 J
4-Chloroaniline	µg/Kg	750 U	720 U	700 U	780 U	730 U J	710 U	NS	740 U
Hexachlorobutadiene	µg/Kg	750 U	720 U	700 U	780 U	730 U J	710 U	NS	740 U
4-Chloro-3-methylphenol	µg/Kg	750 U	720 U	700 U	780 U	730 U J	710 U	NS	740 U
2-Methylnaphthalene	µg/Kg	750 U	720 U	700 U	780 U	730 U J	710 U	NS	140 J
Hexachlorocyclopentadiene	µg/Kg	750 U	720 U	700 U	780 U	730 U J	710 U	NS	740 U
2,4,6-Trichlorophenol	µg/Kg	750 U	720 U	700 U	780 U	730 U J	710 U	NS	740 U
2,4,5-Trichlorophenol	µg/Kg	3600 U	3500 U	3400 U	3800 U	3500 U J	3400 U	NS	3600 U
2-Chloronaphthalene	µg/Kg	750 U	720 U	700 U	780 U	730 U J	710 U	NS	740 U
2-Nitroaniline	µg/Kg	3600 U	3500 U	3400 U	3800 U	3500 U J	3400 U	NS	3600 U
Dimethylphthalate	µg/Kg	750 U	720 U	700 U	780 U	730 U J	710 U	NS	740 U
Acenaphthylene	µg/Kg	750 U	720 U	700 U	780 U	730 U J	710 U	NS	740 U
2,6-Dinitrotoluene	µg/Kg	750 U	720 U	700 U	780 U	730 U J	710 U	NS	740 U
3-Nitroaniline	µg/Kg	3600 U	3500 U	3400 U	3800 U	3500 U J	3400 U	NS	3600 U
Acenaphthene	µg/Kg	750 U	720 U	700 U	780 U	730 U J	710 U	NS	640 J
2,4-Dinitrophenol	µg/Kg	3600 U	3500 U	3400 U	3800 U	3500 U J	3400 U	NS	3600 U
4-Nitrophenol	µg/Kg	3600 U	3500 U	3400 U	3800 U	3500 U J	3400 U	NS	3600 U
Dibenzofuran	µg/Kg	750 U	720 U	700 U	780 U	730 U J	710 U	NS	310 J
2,4-Dinitrotoluene	µg/Kg	750 U	720 U	700 U	780 U	730 U J	710 U	NS	640 U
Diethylphthalate	µg/Kg	750 U	720 U	700 U	780 U	730 U J	710 U	NS	740 U
4-Chlorophenyl-phenylether	µg/Kg	750 U	720 U	700 U	780 U	730 U J	710 U	NS	740 U
Fluorene	µg/Kg	750 U	720 U	700 U	780 U	730 U J	710 U	NS	570 J
4-Nitroaniline	µg/Kg	3600 U	3500 U	3400 U	3800 U	3500 U J	3400 U	NS	3600 U
4,6-Dinitro-2-methylphenol	µg/Kg	3600 U	3500 U	3400 U	3800 U	3500 U J	3400 U	NS	3600 U
N-Nitrosodiphenylamine (1)	µg/Kg	750 U	720 U	700 U	780 U	730 U J	710 U	NS	740 U
4-Bromophenyl-phenylether	µg/Kg	750 U	720 U	700 U	780 U	730 U J	710 U	NS	740 U
Hexachlorobenzene	µg/Kg	750 U	720 U	700 U	780 U	730 U J	710 U	NS	740 U
Pentachlorophenol	µg/Kg	3600 U	3500 U	3400 U	3800 U	3500 U J	3400 U	NS	3600 U
Phenanthrene	µg/Kg	750 U	720 U	700 U	780 U	730 U J	710 U	NS	4400
Anthracene	µg/Kg	750 U	720 U	700 U	780 U	730 U J	710 U	NS	1200
Carbazole	µg/Kg	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate	µg/Kg	750 U	720 U	700 U	780 U	730 U J	710 U	NS	740 U
Fluoranthene	µg/Kg	750 U	720 U	700 U	780 U	730 U J	710 U	NS	5400
Pyrene	µg/Kg	750 U	720 U	700 U	780 U	730 U J	710 U	NS	5000
Butylbenzylphthalate	µg/Kg	750 U	720 U	700 U	780 U	730 U J	710 U	NS	740 U
3,3'-Dichlorobenzidine	µg/Kg	1500 U	1400 U	1400 U	1600 U	1500 U J	1400 U	NS	1500 U
Benzo(a)anthracene	µg/Kg	750 U	720 U	700 U	780 U	730 U J	710 U	NS	2700
Chrysene	µg/Kg	750 U	720 U	700 U	780 U	730 U J	710 U	NS	2200
bis(2-Ethylhexyl)phthalate	µg/Kg	750 U	720 U	700 U	780 U	730 U J	710 U	NS	600 J
Di-n-octylphthalate	µg/Kg	750 U	720 U	700 U	780 U	730 U J	710 U	NS	740 U
Benzo(b)fluoranthene	µg/Kg	750 U	720 U	700 U	780 U	730 U J	710 U	NS	2500
Benzo(k)fluoranthene	µg/Kg	750 U	720 U	700 U	780 U	730 U J	710 U	NS	1400
Benzo(a)pyrene	µg/Kg	750 U	720 U	700 U	780 U	730 U J	710 U	NS	2200
Indeno(1,2,3-cd)pyrene	µg/Kg	750 U	720 U	700 U	780 U	730 U J	710 U	NS	1200
Dibenz(a,h)anthracene	µg/Kg	750 U	720 U	700 U	780 U	730 U J	710 U	NS	630 J
Benzo(g,h,i)perylene	µg/Kg	750 U	720 U	700 U	780 U	730 U J	710 U	NS	1200

SENECA ARMY DEPOT, ASH LANDFILL
SOIL ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

COMPOUND	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	B-8	B-8	B-8	B-9	B-9	B-9	B-9	B-10
	DEPTH	2-4	2-4	6-8	0-2	2-4	6-8	6-8	0-2
	DATE	11/05/91	11/05/91	11/05/91	11/05/91	11/05/91	11/05/91	11/05/91	11/06/91
	ES ID	S1105-25	S1105-26(1)	S1105-27	S1105-28	S1105-29	S1105-30	S1105-30RE(4)	S1106-31
	LAB ID	148027	148028	148029	148030	148031	148032	148032RI	148457
	UNITS								
VOCs									
PESTICIDES/PCBs									
alpha-BHC	µg/Kg	18 U	18 U	17 U	19 U	17 U J	17 U J	NS	18 U
beta-BHC	µg/Kg	18 U	18 U	17 U	19 U	17 U J	17 U J	NS	18 U
delta-BHC	µg/Kg	18 U	18 U	17 U	19 U	17 U J	17 U J	NS	18 U
gamma-BHC (Lindane)	µg/Kg	18 U	18 U	17 U	19 U	17 U J	17 U J	NS	18 U
Heptachlor	µg/Kg	18 U	18 U	17 U	19 U	17 U J	17 U J	NS	18 U
Aldrin	µg/Kg	18 U	18 U	17 U	19 U	17 U J	17 U J	NS	18 U
Heptachlor epoxide	µg/Kg	18 U	18 U	17 U	19 U	17 U J	17 U J	NS	18 U
Endosulfan I	µg/Kg	18 U	18 U	17 U	19 U	17 U J	17 U J	NS	18 U
Dieldrin	µg/Kg	36 U	35 U	34 U	38 U	35 U J	34 U J	NS	36 U
4,4'-DDE	µg/Kg	36 U	35 U	34 U	38 U	35 U J	34 U J	NS	30 J
Endrin	µg/Kg	36 U	35 U	34 U	38 U	35 U J	34 U J	NS	36 U
Endosulfan II	µg/Kg	36 U	35 U	34 U	38 U	35 U J	34 U J	NS	36 U
4,4'-DDD	µg/Kg	36 U	35 U	34 U	38 U	35 U J	34 U J	NS	23 J
Endosulfan sulfate	µg/Kg	36 U	35 U	34 U	38 U	35 U J	34 U J	NS	36 U
4,4'-DDT	µg/Kg	36 U	35 U	34 U	38 U	35 U J	34 U J	NS	36 U
Methoxychlor	µg/Kg	180 U	180 U	170 U	190 U	170 U J	170 U J	NS	180 U
Endrin ketone	µg/Kg	36 U	35 U	34 U	38 U	35 U J	34 U J	NS	36 U
Endrin aldehyde	µg/Kg	NS	NS	NS	NS	NS	NS	NS	NS
alpha-Chlordane	µg/Kg	180 U	180 U	170 U	190 U	170 U J	170 U J	NS	180 U
gamma-Chlordane	µg/Kg	180 U	180 U	170 U	190 U	170 U J	170 U J	NS	180 U
Toxaphene	µg/Kg	360 U	350 U	340 U	380 U	350 U J	340 U J	NS	360 U
Aroclor-1016	µg/Kg	180 U	180 U	170 U	190 U	170 U J	170 U J	NS	180 U
Aroclor-1221	µg/Kg	180 U	180 U	170 U	190 U	170 U J	170 U J	NS	180 U
Aroclor-1232	µg/Kg	180 U	180 U	170 U	190 U	170 U J	170 U J	NS	180 U
Aroclor-1242	µg/Kg	180 U	180 U	170 U	190 U	170 U J	170 U J	NS	180 U
Aroclor-1248	µg/Kg	180 U	180 U	170 U	190 U	170 U J	170 U J	NS	180 U
Aroclor-1254	µg/Kg	360 U	350 U	340 U	380 U	350 U J	340 U J	NS	360 U
Aroclor-1260	µg/Kg	360 U	350 U	340 U	380 U	350 U J	340 U J	NS	360 U
HERBICIDES									
2,4-D	µg/Kg	56 U J	56 U J	53 U J	60 U J	56 U J	NS	54 U J	57 U J
2,4-DB	µg/Kg	56 U J	56 U J	53 U J	60 U J	56 U J	NS	54 U J	57 U J
2,4,5-T	µg/Kg	6 U J	6 U J	5 U J	6 U J	6 U J	NS	5 U J	6 U J
2,4,5-TP (Silvex)	µg/Kg	6 U J	6 U J	5 U J	6 U J	6 U J	NS	5 U J	10 J
Dalapon	µg/Kg	130 U J	130 U J	130 U J	140 U J	130 U J	NS	130 U J	140 U J
Dicamba	µg/Kg	6 U J	6 U J	5 U J	6 U J	6 U J	NS	5 U J	6 U J
Dichloroprop	µg/Kg	56 U J	56 U J	53 U J	60 U J	56 U J	NS	54 U J	57 U J
Dinoseb	µg/Kg	28 U J	28 U J	27 U J	30 U J	28 U J	NS	27 U J	29 U J
MCPA	µg/Kg	5600 U J	5600 U J	5300 U J	6000 U J	5600 U J	NS	5400 U J	5700 U J
MCPP	µg/Kg	5600 U J	5600 U J	5300 U J	6000 U J	5600 U J	NS	5400 U J	13000 J
METALS									
Aluminum	mg/kg	20500	17700	12700	14800	8880	7160	NS	16600
Antimony	mg/kg	8.8 U J	8.2 U J	8.4 U J	9.9 U J	9.9 U J	7 U J	NS	8 U J
Arsenic	mg/kg	6.1 J	6 J	4.2 J	4.3 J	3.8 J	4.4 J	NS	9.8 J
Barium	mg/kg	98.9 J	86.7 J	56.2 J	101 J	110 J	39.9 J	NS	170 J
Beryllium	mg/kg	1.2	1	0.78 J	1.1	0.76	0.52 J	NS	0.67 J
Cadmium	mg/kg	2.9	2.4	1.9	2.3	1.7	1.5	NS	5.6
Calcium	mg/kg	4870	3580	85900	45600	104000	101000	NS	48500
Chromium	mg/kg	30.1 J	26.9 J	19.8 J	22.5 J	13.8 J	11.2 J	NS	38.5 J
Cobalt	mg/kg	18.4	14	14.2	13.7	10.7	8.1	NS	14.7
Copper	mg/kg	27.6	26	16.2	22.6	21.6	19.3	NS	105
Iron	mg/kg	36100	32500	27400	31000	19600	17300	NS	71100
Lead	mg/kg	11.4	13.6	10.1	10.8	10.1	7.8	NS	191
Magnesium	mg/kg	7300	6490	6720	8860	17000	12600	NS	13300
Manganese	mg/kg	956	832	926	903	532	514	NS	670
Mercury	mg/kg	0.06 J	0.06 J	0.05 J	0.08 J	0.04 J	0.05 J	NS	0.24
Nickel	mg/kg	48.7	44.4	30.4	38.4	23.8	19	NS	43.3
Potassium	mg/kg	2110	1760	1430	1320	1080	1050	NS	1730
Selenium	mg/kg	0.21 U J	0.2 U J	0.61 U J	0.21 U J	0.65 U J	0.21 U J	NS	0.17 U J
Silver	mg/kg	1.3 U	1.2 U	1.3 U	1.5 U	1.5 U	1.1 U	NS	1.8
Sodium	mg/kg	67.5 U	62.8 U	75.3 J	84.2 J	112 J	116 J	NS	708 R
Thallium	mg/kg	0.58 U	0.57 U	0.34 U	0.59 U	0.36 U	0.6 U	NS	4.7 U
Vanadium	mg/kg	25.4	26.4	15.7	19.7	19.5	12.9	NS	22.1
Zinc	mg/kg	94.2 J	85 J	75 J	126 J	84.3 J	74.8 J	NS	1940 U
Cyanide	mg/kg	0.63 U	0.67 U	0.58 U	0.7 U	0.63 U	0.62 U	NS	0.66

SENECA ARMY DEPOT, ASH LANDFILL
SOIL ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

COMPOUND	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	B-10	B-10	B-10	B-10	B-11	B-11	B-11	B-12
	DEPTH	2-4	2-4	6-8	6-8	0-2	2-4	6-8	0-2
	DATE	11/06/91	11/06/91	11/06/91	11/06/91	11/06/91	11/06/91	11/06/91	11/07/91
	ES ID	S1106-32	S1106-33 (1)	S1106-34	S1106-34DL(5)	S1106-36	S1106-37	S1106-38	S1107-39
	LAB ID	148458	148459	148460	148460	148462	148463	148464	148704
	UNITS								
VOCs									
Chloromethane	µg/Kg	12 U	11 U	11 U	52 U R	11 U	10 U	11 U	12 U
Bromomethane	µg/Kg	12 U	11 U	11 U	52 U R	11 U	10 U	11 U	12 U
Vinyl Chloride	µg/Kg	12 U	11 U	92	71 R	11 U	10 U	11 U	12 U
Chloroethane	µg/Kg	12 U	11 U	3 J	52 U R	11 U	10 U	11 U	12 U
Methylene Chloride	µg/Kg	6 U	6 U	6 U	26 U R	6 U	5 U	6 U	6 U
Acetone	µg/Kg	43	11 U	11 U	52 U R	11 U	10 U	36 U	12 U
Carbon Disulfide	µg/Kg	6 U	6 U	6 U	26 U R	6 U	5 U	6 U	6 U
1,1-Dichloroethene	µg/Kg	6 U	6 U	1 J	26 U R	6 U	5 U	6 U	6 U
1,1-Dichloroethane	µg/Kg	6 U	6 U	6 U	26 U R	6 U	5 U	6 U	6 U
1,2-Dichloroethene (total)	µg/Kg	6 U	6 U	1400 R	1300	6 U	5 U	6 U	6 U
Chloroform	µg/Kg	6 U	6 U	6 U	26 U R	6 U	5 U	6 U	6 U
1,2-Dichloroethane	µg/Kg	6 U	6 U	6 U	26 U R	6 U	5 U	6 U	6 U
2-Butanone	µg/Kg	12 U	11 U	11 U	52 U R	11 U	10 U	6 J	12 U
1,1,1-Trichloroethane	µg/Kg	6 U	6 U	6 U	26 U R	6 U	5 U	6 U	6 U
Carbon Tetrachloride	µg/Kg	6 U	6 U	6 U	26 U R	6 U	5 U	6 U	6 U
Vinyl Acetate	µg/Kg	12 U	11 U	11 U	52 U R	11 U	10 U	11 U	12 U
Bromodichloromethane	µg/Kg	6 U	6 U	6 U	26 U R	6 U	5 U	6 U	6 U
1,2-Dichloropropane	µg/Kg	6 U	6 U	6 U	26 U R	6 U	5 U	6 U	6 U
cis-1,3-Dichloropropene	µg/Kg	6 U	6 U	6 U	26 U R	6 U	5 U	6 U	6 U
Trichloroethene	µg/Kg	4 J	6 U	220	230 R	6 U	5 U	6 U	6 U
Dibromochloromethane	µg/Kg	6 U	6 U	6 U	26 U R	6 U	5 U	6 U	6 U
1,1,2-Trichloroethane	µg/Kg	6 U	6 U	6 U	26 U R	6 U	5 U	6 U	6 U
Benzene	µg/Kg	6 U	6 U	6 U	26 U R	6 U	5 U	6 U	6 U
trans-1,3-Dichloropropene	µg/Kg	6 U	6 U	6 U	26 U R	6 U	5 U	6 U	6 U
Bromoform	µg/Kg	6 U	6 U	6 U	26 U R	6 U	5 U	6 U	6 U
4-Methyl-2-Pentanone	µg/Kg	12 U	11 U	11 U	52 U R	11 U	10 U	11 U	12 U
2-Hexanone	µg/Kg	12 U	11 U	11 U	52 U R	11 U	10 U	11 U	12 U
Tetrachloroethene	µg/Kg	6 U	6 U	6 U	26 U R	6 U	5 U	6 U	6 U
1,1,2,2-Tetrachloroethane	µg/Kg	6 U	6 U	6 U	26 U R	6 U	5 U	6 U	6 U
Toluene	µg/Kg	2 J	2 J	6 U	26 U R	6 U	5 U	6 U	6 U
Chlorobenzene	µg/Kg	6 U	6 U	6 U	26 U R	6 U	5 U	6 U	6 U
Ethylbenzene	µg/Kg	6 U	3 J	6 U	26 U R	6 U	5 U	6 U	6 U
Styrene	µg/Kg	6 U	6 U	6 U	26 U R	6 U	5 U	6 U	6 U
Xylene (total)	µg/Kg	5 J	20 J	6 U	26 U R	6 U	5 U	6 U	6 U

SENECA ARMY DEPOT, ASH LANDFILL
SOIL ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

COMPOUND	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	B-10	B-10	B-10	B-10	B-11	B-11	B-11	B-12
	DEPTH	2-4	2-4	6-8	6-8	0-2	2-4	6-8	0-2
	DATE	11/06/91	11/06/91	11/06/91	11/06/91	11/06/91	11/06/91	11/06/91	11/07/91
	ES ID	S1106-32	S1106-33 (1)	S1106-34	S1106-34DL(5)	S1106-36	S1106-37	S1106-38	S1107-39
	LAB ID	148458	148459	148460	148460	148462	148463	148464	148704
	UNITS								
VOCs									
SEMIVOLATILES									
Phenol	µg/Kg	730 U	760 U	750 U	NS	780 U	710 U	720 U	760 U
bis(2-Chloroethyl) ether	µg/Kg	730 U	760 U	750 U	NS	780 U	710 U	720 U	760 U
2-Chlorophenol	µg/Kg	730 U	760 U	750 U	NS	780 U	710 U	720 U	760 U
1,3-Dichlorobenzene	µg/Kg	730 U	760 U	750 U	NS	780 U	710 U	720 U	760 U
1,4-Dichlorobenzene	µg/Kg	730 U	760 U	750 U	NS	760 U	710 U	720 U	760 U
Benzyl Alcohol	µg/Kg	730 U	760 U	750 U	NS	780 U	710 U	720 U	760 U
1,2-Dichlorobenzene	µg/Kg	730 U	760 U	750 U	NS	780 U	710 U	720 U	760 U
2-Methylphenol	µg/Kg	730 U	760 U	750 U	NS	780 U	710 U	720 U	760 U
bis(2-Chloroisopropyl) ether	µg/Kg	730 U	760 U	750 U	NS	780 U	710 U	720 U	760 U
4-Methylphenol	µg/Kg	730 U	760 U	750 U	NS	780 U	710 U	720 U	760 U
N-Nitroso-di-n-propylamine	µg/Kg	730 U	760 U	750 U	NS	780 U	710 U	720 U	760 U
Hexachloroethane	µg/Kg	730 U	760 U	750 U	NS	780 U	710 U	720 U	760 U
Nitrobenzene	µg/Kg	730 U	760 U	750 U	NS	780 U	710 U	720 U	760 U
Isophorone	µg/Kg	730 U	760 U	750 U	NS	780 U	710 U	720 U	760 U
2-Nitrophenol	µg/Kg	730 U	760 U	750 U	NS	780 U	710 U	720 U	760 U
2,4-Dimethylphenol	µg/Kg	730 U	760 U	750 U	NS	780 U	710 U	720 U	760 U
Benzoic acid	µg/Kg	3600 U	3700 U	3600 U	NS	3800 U	3400 U	3500 U	3700 U
bis(2-Chloroethoxy) methane	µg/Kg	730 U	760 U	750 U	NS	780 U	710 U	720 U	760 U
2,4-Dichlorophenol	µg/Kg	730 U	760 U	750 U	NS	780 U	710 U	720 U	760 U
1,2,4-Trichlorobenzene	µg/Kg	730 U	760 U	750 U	NS	760 U	710 U	720 U	760 U
Naphthalene	µg/Kg	730 U	760 U	750 U	NS	780 U	710 U	720 U	760 U
4-Chloroaniline	µg/Kg	730 U	760 U	750 U	NS	780 U	710 U	720 U	760 U
Hexachlorobutadiene	µg/Kg	730 U	760 U	750 U	NS	780 U	710 U	720 U	760 U
4-Chloro-3-methylphenol	µg/Kg	730 U	760 U	750 U	NS	780 U	710 U	720 U	760 U
2-Methylnaphthalene	µg/Kg	730 U	760 U	750 U	NS	760 U	710 U	720 U	760 U
Hexachlorocyclopentadiene	µg/Kg	730 U	760 U	750 U	NS	780 U	710 U	720 U	760 U
2,4,6-Trichlorophenol	µg/Kg	730 U	760 U	750 U	NS	780 U	710 U	720 U	760 U
2,4,5-Trichlorophenol	µg/Kg	3600 U	3700 U	3600 U	NS	3800 U	3400 U	3500 U	3700 U
2-Chloronaphthalene	µg/Kg	730 U	760 U	750 U	NS	780 U	710 U	720 U	760 U
2-Nitroaniline	µg/Kg	3600 U	3700 U	3600 U	NS	3800 U	3400 U	3500 U	3700 U
Dimethylphthalate	µg/Kg	730 U	760 U	750 U	NS	780 U	710 U	720 U	760 U
Acenaphthylene	µg/Kg	730 U	760 U	750 U	NS	780 U	710 U	720 U	760 U
2,6-Dinitrotoluene	µg/Kg	730 U	760 U	750 U	NS	780 U	710 U	720 U	760 U
3-Nitroaniline	µg/Kg	3600 U	3700 U	3600 U	NS	3800 U	3400 U	3500 U	3700 U
Acenaphthene	µg/Kg	730 U	760 U	750 U	NS	780 U	710 U	720 U	760 U
2,4-Dinitrophenol	µg/Kg	3600 U	3700 U	3600 U	NS	3800 U	3400 U	3500 U	3700 U
4-Nitrophenol	µg/Kg	3600 U	3700 U	3600 U	NS	3800 U	3400 U	3500 U	3700 U
Dibenzofuran	µg/Kg	730 U	760 U	750 U	NS	760 U	710 U	720 U	760 U
2,4-Dinitrotoluene	µg/Kg	730 U	760 U	750 U	NS	780 U	710 U	720 U	760 U
Diethylphthalate	µg/Kg	730 U	760 U	750 U	NS	780 U	710 U	720 U	760 U
4-Chlorophenyl-phenylether	µg/Kg	730 U	760 U	750 U	NS	780 U	710 U	720 U	760 U
Fluorene	µg/Kg	730 U	760 U	750 U	NS	780 U	710 U	720 U	760 U
4-Nitroaniline	µg/Kg	3600 U	3700 U	3600 U	NS	3800 U	3400 U	3500 U	3700 U
4,6-Dinitro-2-methylphenol	µg/Kg	3600 U	3700 U	3600 U	NS	3800 U	3400 U	3500 U	3700 U
N-Nitrosodiphenylamine (1)	µg/Kg	730 U	760 U	750 U	NS	780 U	710 U	720 U	760 U
4-Bromophenyl-phenylether	µg/Kg	730 U	760 U	750 U	NS	780 U	710 U	720 U	760 U
Hexachlorobenzene	µg/Kg	730 U	760 U	750 U	NS	780 U	710 U	720 U	760 U
Pentachlorophenol	µg/Kg	3600 U	3700 U	3600 U	NS	3800 U	3400 U	3500 U	3700 U
Phenanthrene	µg/Kg	160 J	180 J	750 U	NS	67 J	710 U	720 U	760 U
Anthracene	µg/Kg	730 U	760 U	750 U	NS	780 U	710 U	720 U	760 U
Carbazole	µg/Kg	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate	µg/Kg	77 J	760 U	750 U	NS	780 U	710 U	720 U	760 U
Fluoranthene	µg/Kg	280 J	300 J	750 U	NS	110 J	710 U	720 U	760 U
Pyrene	µg/Kg	250 J	240 J	750 U	NS	91 J	710 U	720 U	760 U
Butylbenzylphthalate	µg/Kg	730 U	760 U	750 U	NS	780 U	710 U	720 U	760 U
3,3'-Dichlorobenzidine	µg/Kg	1500 U	1500 U	1500 U	NS	1600 U	1400 U	1400 U	1500 U
Benzo(a)anthracene	µg/Kg	160 J	150 J	750 U	NS	76 J	710 U	720 U	760 U
Chrysene	µg/Kg	160 J	160 J	750 U	NS	79 J	710 U	720 U	760 U
bis(2-Ethylhexyl)phthalate	µg/Kg	100 J	360 J	100 J	NS	780 U	710 U	720 U	760 U
Di-n-octylphthalate	µg/Kg	730 U	760 U	750 U	NS	780 U	710 U	720 U	760 U
Benzo(b)fluoranthene	µg/Kg	160 J	140 J	750 U	NS	780 U	710 U	720 U	760 U
Benzo(k)fluoranthene	µg/Kg	110 J	140 J	750 U	NS	780 U	710 U	720 U	760 U
Benzo(a)pyrene	µg/Kg	170 J	150 J	750 U	NS	780 U	710 U	720 U	760 U
Indeno(1,2,3-cd)pyrene	µg/Kg	110 J	96 J	750 U	NS	780 U	710 U	720 U	760 U
Dibenz(a,h)anthracene	µg/Kg	730 U	760 U	750 U	NS	780 U	710 U	720 U	760 U
Benzo(g,h,i)perylene	µg/Kg	120 J	99 J	750 U	NS	780 U	710 U	720 U	760 U

SENECA ARMY DEPOT, ASH LANDFILL
SOIL ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

COMPOUND	UNITS	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		LOCATION	B-10	B-10	B-10	B-10	B-11	B-11	B-11	B-12
		DEPTH	2-4	2-4	6-8	6-8	0-2	2-4	6-8	0-2
		DATE	11/06/91	11/06/91	11/06/91	11/06/91	11/06/91	11/06/91	11/06/91	11/07/91
		ES ID	S1106-32	S1106-33 (1)	S1106-34	S1106-34DL(5)	S1106-36	S1106-37	S1106-38	S1107-39
		LAB ID	148458	148459	148460	148460	148462	148463	148464	148704
VOCs										
PESTICIDES/PCBs										
alpha-BHC	µg/Kg		18 U	18 U	18 U	NS	19 U	17 U	18 U	19 U
beta-BHC	µg/Kg		18 U	18 U	18 U	NS	19 U	17 U	18 U	19 U
delta-BHC	µg/Kg		18 U	18 U	18 U	NS	19 U	17 U	18 U	19 U
gamma-BHC (Lindane)	µg/Kg		18 U	18 U	18 U	NS	19 U	17 U	18 U	19 U
Heptachlor	µg/Kg		18 U	18 U	18 U	NS	19 U	17 U	18 U	14 J
Aldrin	µg/Kg		18 U	18 U	16 U	NS	19 U	17 U	18 U	19 U
Heptachlor epoxide	µg/Kg		18 U	18 U	18 U	NS	19 U	17 U	18 U	19 U
Endosulfan I	µg/Kg		18 U	18 U	18 U	NS	19 U	17 U	18 U	19 U
Dieldrin	µg/Kg		36 U	37 U	36 U	NS	38 U	34 U	35 U	46
4,4'-DDE	µg/Kg		28 J	30 J	36 U	NS	38 U	34 U	35 U	37 U
Endrin	µg/Kg		36 U	37 U	36 U	NS	38 U	34 U	35 U	37 U
Endosulfan II	µg/Kg		36 U	37 U	36 U	NS	38 U	34 U	35 U	37 U
4,4'-DDD	µg/Kg		36	34 J	36 U	NS	38 U	34 U	35 U	37 U
Endosulfan sulfate	µg/Kg		36 U	37 U	36 U	NS	38 U	34 U	35 U	37 U
4,4'-DDT	µg/Kg		36 U	37 U	36 U	NS	38 U	34 U	35 U	37 U
Methoxychlor	µg/Kg		180 U	180 U	180 U	NS	190 U	170 U	180 U	190 U
Endrin ketone	µg/Kg		36 U	37 U	36 U	NS	38 U	34 U	35 U	37 U
Endrin aldehyde	µg/Kg		NS	NS	NS	NS	NS	NS	NS	NS
alpha-Chlordane	µg/Kg		180 U	180 U	180 U	NS	190 U	170 U	180 U	190 U
gamma-Chlordane	µg/Kg		180 U	180 U	180 U	NS	190 U	170 U	180 U	190 U
Toxaphene	µg/Kg		360 U	370 U	360 U	NS	380 U	340 U	350 U	370 U
Aroclor-1016	µg/Kg		180 U	180 U	180 U	NS	190 U	170 U	180 U	190 U
Aroclor-1221	µg/Kg		180 U	180 U	180 U	NS	190 U	170 U	180 U	190 U
Aroclor-1232	µg/Kg		180 U	180 U	180 U	NS	190 U	170 U	180 U	190 U
Aroclor-1242	µg/Kg		180 U	180 U	180 U	NS	190 U	170 U	180 U	190 U
Aroclor-1248	µg/Kg		180 U	180 U	180 U	NS	190 U	170 U	180 U	190 U
Aroclor-1254	µg/Kg		360 U	370 U	360 U	NS	380 U	340 U	350 U	370 U
Aroclor-1260	µg/Kg		360 U	370 U	360 U	NS	380 U	340 U	350 U	370 U
HERBICIDES										
2,4-D	µg/Kg		56 U J	57 U J	57 U J	NS	60 U J	54 U J	55 U J	59 U J
2,4-DB	µg/Kg		56 U J	57 U J	57 U J	NS	60 U J	54 U J	55 U J	59 U J
2,4,5-T	µg/Kg		6 U J	6 U J	6 U J	NS	6 U J	5 U J	5 U J	6 U J
2,4,5-TP (Silvex)	µg/Kg		6 U J	6 U J	6 U J	NS	6 U J	5 U J	5 U J	6 U J
Dalapon	µg/Kg		140 U J	140 U J	140 U J	NS	140 U J	130 U J	130 U J	140 U J
Dicamba	µg/Kg		6 U J	6 U J	6 U J	NS	6 U J	5 U J	5 U J	6 U J
Dichloroprop	µg/Kg		56 U J	57 U J	57 U J	NS	60 U J	54 U J	55 U J	59 U J
Dinoseb	µg/Kg		28 U J	29 U J	28 U J	NS	30 U J	27 U J	27 U J	29 U J
MCPA	µg/Kg		5600 U J	5700 U J	5700 U J	NS	6000 U J	5400 U J	5500 U J	5900 U J
MCPP	µg/Kg		5600 U J	5700 U J	5700 U J	NS	24000 J	5400 U J	5500 U J	18000 J
METALS										
Aluminum	mg/kg		17300	15100	18800	NS	19000	15800	19600	17500
Antimony	mg/kg		8.4 U J	10.3 U J	10.2 U J	NS	12.3 U J	10.9 U J	8 U J	10.2 U J
Arsenic	mg/kg		9.7 J	6.1 J	4.9 J	NS	11.4 J	6 J	5 J	4.8 J
Barium	mg/kg		145 J	83 J	56.9 J	NS	190 J	82.8 J	73.6 J	91.4 J
Beryllium	mg/kg		0.94	0.85 J	1	NS	1.1 J	1.1	0.93	0.99
Cadmium	mg/kg		3.1	2.8	2.9	NS	4.2	2.8	2.5	1.9
Calcium	mg/kg		53500	43900	31000	NS	6440	25400	28800	9480
Chromium	mg/kg		30.4 J	26.5 J	28.3 J	NS	39.3 J	21.8 J	29.9 J	24.2 J
Cobalt	mg/kg		13.8	10.7	15.8	NS	13.4	12.4	13	11.1
Copper	mg/kg		56.9	41.2	25.6	NS	109	29.2	34.4	26.9
Iron	mg/kg		32200	34900	35400	NS	129000	33000	31500	32300
Lead	mg/kg		83.1	54.8	14.1	NS	244	13.3	41.3	40.2
Magnesium	mg/kg		16900	12000	8150	NS	5390	5170	7460	5570
Manganese	mg/kg		732	632	953	NS	975	1050	602	1090
Mercury	mg/kg		0.33	0.47	0.05 J	NS	0.48	0.11	0.09	0.06 J
Nickel	mg/kg		42.2	40.6	44.5	NS	40.6	30.4	41.2	35.5
Potassium	mg/kg		2380	2150	2180	NS	2930	19000	2270	2150
Selenium	mg/kg		0.13 U J	0.18 U J	0.16 U J	NS	0.18 U J	0.18 U J	0.18 U J	0.16 U J
Silver	mg/kg		5.6	4.3	1.5 U	NS	1.8 U	1.6 U	1.2 U	1.6 J
Sodium	mg/kg		707 R	466 R	115 R	NS	94 U	83.1 U	91.9 R	77.9 U
Thallium	mg/kg		0.36 U	0.46 U	0.44 U	NS	0.49 U	0.5 U	0.51 U	0.44 U
Vanadium	mg/kg		28.6	21.6	26	NS	29.6	20	21.7	26.4
Zinc	mg/kg		554	537	114 J	NS	1080 J	121 J	240 J	110 J
Cyanide	mg/kg		0.64 U	0.68 U	0.65 U	NS	0.71 U	0.64 U	0.62 U	0.71 U

SENECA ARMY DEPOT, ASH LANDFILL
SOIL ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

COMPOUND	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
LOCATION	UNITS	B-12	B-12	B-13	B-13	B-13	B-14	B-14	B-14
DEPTH		2-4	6-8	0-2	2-4	6-8	0-2	2-4	2-4
DATE		11/07/91	11/07/91	11/07/91	11/07/91	11/07/91	11/08/91	11/08/91	11/08/91
ES ID		S1107-40	S1107-41	S1107-42	S1107-43	S1107-44	S1108-45	S1108-46	S1108-47(
LAB ID		148705	148706	148707	148708	148709	148710	148711	148712
VOCs									
Chloromethane	µg/Kg	11 U	11 U	12 U	11 U	11 U	12 U	11 U	11 U
Bromomethane	µg/Kg	11 U	11 U	12 U	11 U	11 U	12 U	11 U	11 U
Vinyl Chloride	µg/Kg	11 U	11 U	12 U	11 U	11 U	12 U	11 U	11 U
Chloroethane	µg/Kg	11 U	11 U	12 U	11 U	11 U	12 U	11 U	11 U
Methylene Chloride	µg/Kg	5 U	5 U	6 U	5 U	5 U	5 U	5 U	5 U
Acetone	µg/Kg	11 U	11 U	12 U	11 U	11 U	12 U	11 U	11 U
Carbon Disulfide	µg/Kg	5 U	5 U	6 U	5 U	5 U	6 U	5 U	5 U
1,1-Dichloroethene	µg/Kg	5 U	5 U	6 U	5 U	5 U	6 U	5 U	5 U
1,1-Dichloroethane	µg/Kg	5 U	5 U	6 U	5 U	5 U	6 U	5 U	5 U
1,2-Dichloroethene (total)	µg/Kg	2 J	5 U	6 U	5 U	5 U	4 J	3 J	16 J
Chloroform	µg/Kg	5 U	5 U	6 U	5 U	5 J	6 U	5 U	5 U
1,2-Dichloroethane	µg/Kg	5 U	5 U	6 U	5 U	5 U	6 U	5 U	5 U
2-Butanone	µg/Kg	11 U	11 U	12 U	11 U	11 U	12 U	11 U	11 U
1,1,1-Trichloroethane	µg/Kg	5 U	5 U	6 U	5 U	5 U	6 U	5 U	5 U
Carbon Tetrachloride	µg/Kg	5 U	5 U	6 U	5 U	5 U	6 U	5 U	5 U
Vinyl Acetate	µg/Kg	11 U	11 U	12 U	11 U	11 U	12 U	11 U	11 U
Bromodichloromethane	µg/Kg	5 U	5 U	6 U	5 U	5 U	6 U	5 U	5 U
1,2-Dichloropropane	µg/Kg	5 U	5 U	6 U	5 U	5 U	6 U	5 U	5 U
cis-1,3-Dichloropropene	µg/Kg	5 U	5 U	6 U	5 U	5 U	6 U	5 U	5 U
Trichloroethene	µg/Kg	2 J	2 J	6 U	5 U	5 U	7	3 J	8 J
Dibromochloromethane	µg/Kg	5 U	5 U	6 U	5 U	5 U	6 U	5 U	5 U
1,1,2-Trichloroethane	µg/Kg	5 U	5 U	6 U	5 U	5 U	6 U	5 U	5 U
Benzene	µg/Kg	5 U	5 U	6 U	5 U	5 U	6 U	5 U	5 U
trans-1,3-Dichloropropene	µg/Kg	5 U	5 U	6 U	5 U	5 U	6 U	5 U	5 U
Bromoform	µg/Kg	5 U	5 U	6 U	5 U	5 U	6 U	5 U	5 U
4-Methyl-2-Pentanone	µg/Kg	11 U	11 U	12 U	11 U	11 U	12 U	11 U	11 U
2-Hexanone	µg/Kg	11 U	11 U	12 U	11 U	11 U	12 U	11 U	11 U
Tetrachloroethene	µg/Kg	5 U	5 J	6 U	5 U	5 U	6 U	5 U	5 U
1,1,2,2-Tetrachloroethane	µg/Kg	5 U	5 U	6 U	5 U	5 U	6 U	5 U	5 U
Toluene	µg/Kg	5 U	5 U	6 U	5 U	1 J	2 J	5 U	5 U
Chlorobenzene	µg/Kg	5 U	5 U	6 U	5 U	5 U	6 U	5 U	5 U
Ethylbenzene	µg/Kg	5 U	5 U	6 U	5 U	5 U	6 U	5 U	5 U
Styrene	µg/Kg	5 U	5 U	6 U	5 U	5 U	6 U	5 U	5 U
Xylene (total)	µg/Kg	5 U	5 U	6 U	5 U	5 U	6 U	5 U	5 U

SENECA ARMY DEPOT, ASH LANDFILL
SOIL ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	B-12	B-12	B-13	B-13	B-13	B-14	B-14	B-14
	DEPTH	2-4	6-8	0-2	2-4	8-8	0-2	2-4	2-4
	DATE	11/07/91	11/07/91	11/07/91	11/07/91	11/07/91	11/08/91	11/08/91	11/08/91
	ES ID	S1107-40	S1107-41	S1107-42	S1107-43	S1107-44	S1108-45	S1108-46	S1108-47(
	LAB ID	148705	148706	148707	148708	148709	148710	148711	148712
COMPOUND	UNITS								
VOCs									
SEMIVOLATILES									
Phenol	µg/Kg	700 U	NS	810 U	710 U	670 U	760 U	700 U	720 U
bis(2-Chloroethyl) ether	µg/Kg	700 U	NS	810 U	710 U	670 U	760 U	700 U	720 U
2-Chlorophenol	µg/Kg	700 U	NS	810 U	710 U	670 U	760 U	700 U	720 U
1,3-Dichlorobenzene	µg/Kg	700 U	NS	810 U	710 U	670 U	760 U	700 U	720 U
1,4-Dichlorobenzene	µg/Kg	700 U	NS	810 U	710 U	670 U	760 U	700 U	720 U
Benzyl Alcohol	µg/Kg	700 U	NS	810 U	710 U	670 U	760 U	700 U	720 U
1,2-Dichlorobenzene	µg/Kg	700 U	NS	810 U	710 U	670 U	760 U	700 U	720 U
2-Methylphenol	µg/Kg	700 U	NS	810 U	710 U	670 U	760 U	700 U	720 U
bis(2-Chloroisopropyl) ether	µg/Kg	700 U	NS	810 U	710 U	670 U	760 U	700 U	720 U
4-Methylphenol	µg/Kg	700 U	NS	810 U	710 U	670 U	760 U	700 U	720 U
N-Nitroso-di-n-propylamine	µg/Kg	700 U	NS	810 U	710 U	670 U	760 U	700 U	720 U
Hexachloroethane	µg/Kg	700 U	NS	810 U	710 U	670 U	760 U	700 U	720 U
Nitrobenzene	µg/Kg	700 U	NS	810 U	710 U	670 U	760 U	700 U	720 U
Isophorone	µg/Kg	700 U	NS	810 U	710 U	670 U	760 U	700 U	720 U
2-Nitrophenol	µg/Kg	700 U	NS	810 U	710 U	670 U	760 U	700 U	720 U
2,4-Dimethylphenol	µg/Kg	700 U	NS	810 U	710 U	670 U	760 U	700 U	720 U
Benzoic acid	µg/Kg	3400 U	NS	4000 U	3400 U	3200 U	3700 U	3400 U	3500 U
bis(2-Chloroethoxy) methane	µg/Kg	700 U	NS	810 U	710 U	670 U	760 U	700 U	720 U
2,4-Dichlorophenol	µg/Kg	700 U	NS	810 U	710 U	670 U	760 U	700 U	720 U
1,2,4-Trichlorobenzene	µg/Kg	700 U	NS	810 U	710 U	670 U	760 U	700 U	720 U
Naphthalene	µg/Kg	700 U	NS	810 U	710 U	670 U	760 U	700 U	720 U
4-Chloroaniline	µg/Kg	700 U	NS	810 U	710 U	670 U	760 U	700 U	720 U
Hexachlorobutadiene	µg/Kg	700 U	NS	810 U	710 U	670 U	760 U	700 U	720 U
4-Chloro-3-methylphenol	µg/Kg	700 U	NS	810 U	710 U	670 U	760 U	700 U	720 U
2-Methylnaphthalene	µg/Kg	700 U	NS	810 U	710 U	670 U	760 U	700 U	720 U
Hexachlorocyclopentadiene	µg/Kg	700 U	NS	810 U	710 U	670 U	760 U	700 U	720 U
2,4,6-Trichlorophenol	µg/Kg	700 U	NS	810 U	710 U	670 U	760 U	700 U	720 U
2,4,5-Trichlorophenol	µg/Kg	3400 U	NS	4000 U	3400 U	3200 U	3700 U	3400 U	3500 U
2-Chloronaphthalene	µg/Kg	700 U	NS	810 U	710 U	670 U	760 U	700 U	720 U
2-Nitroaniline	µg/Kg	3400 U	NS	4000 U	3400 U	3200 U	3700 U	3400 U	3500 U
Dimethylphthalate	µg/Kg	700 U	NS	810 U	710 U	670 U	760 U	700 U	720 U
Acenaphthylene	µg/Kg	700 U	NS	810 U	710 U	670 U	760 U	700 U	720 U
2,6-Dinitrotoluene	µg/Kg	700 U	NS	810 U	710 U	670 U	760 U	700 U	720 U
3-Nitroaniline	µg/Kg	3400 U	NS	4000 U	3400 U	3200 U	3700 U	3400 U	3500 U
Acenaphthene	µg/Kg	700 U	NS	810 U	710 U	670 U	760 U	700 U	720 U
2,4-Dinitrophenol	µg/Kg	3400 U	NS	4000 U	3400 U	3200 U	3700 U	3400 U	3500 U
4-Nitrophenol	µg/Kg	3400 U	NS	4000 U	3400 U	3200 U	3700 U	3400 U	3500 U
Dibenzofuran	µg/Kg	700 U	NS	810 U	710 U	670 U	760 U	700 U	720 U
2,4-Dinitrotoluene	µg/Kg	700 U	NS	810 U	710 U	670 U	760 U	700 U	720 U
Diethylphthalate	µg/Kg	700 U	NS	810 U	710 U	670 U	760 U	700 U	720 U
4-Chlorophenyl-phenyl ether	µg/Kg	700 U	NS	810 U	710 U	670 U	760 U	700 U	720 U
Fluorene	µg/Kg	700 U	NS	810 U	710 U	670 U	760 U	700 U	720 U
4-Nitroaniline	µg/Kg	3400 U	NS	4000 U	3400 U	3200 U	3700 U	3400 U	3500 U
4,6-Dinitro-2-methylphenol	µg/Kg	3400 U	NS	4000 U	3400 U	3200 U	3700 U	3400 U	3500 U
N-Nitrosodiphenylamine (1)	µg/Kg	700 U	NS	810 U	710 U	670 U	760 U	700 U	720 U
4-Bromophenyl-phenylether	µg/Kg	700 U	NS	810 U	710 U	670 U	760 U	700 U	720 U
Hexachlorobenzene	µg/Kg	700 U	NS	810 U	710 U	670 U	760 U	700 U	720 U
Pentachlorophenol	µg/Kg	3400 U	NS	4000 U	3400 U	3200 U	3700 U	3400 U	3500 U
Phenanthrene	µg/Kg	700 U	NS	250 J	710 U	670 U	310 J	700 U	720 U
Anthracene	µg/Kg	700 U	NS	810 U	710 U	670 U	71 J	700 U	720 U
Carbazole	µg/Kg	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate	µg/Kg	700 U	NS	810 U	710 U	670 U	760 U	700 U	720 U
Fluoranthene	µg/Kg	700 U	NS	240 J	710 U	670 U	290 J	700 U	720 U
Pyrene	µg/Kg	700 U	NS	260 J	710 U	670 U	240 J	700 U	720 U
Butylbenzylphthalate	µg/Kg	700 U	NS	810 U	710 U	670 U	760 U	700 U	720 U
3,3'-Dichlorobenzidine	µg/Kg	1400 U	NS	1600 U	1400 U	1300 U	1500 U	1400 U	1400 U
Benzo(a)anthracene	µg/Kg	700 U	NS	130 J	710 U	670 U	160 J	700 U	720 U
Chrysene	µg/Kg	700 U	NS	130 J	710 U	670 U	150 J	700 U	720 U
bis(2-Ethylhexyl)phthalate	µg/Kg	700 U	NS	810 U	710 U	670 U	1300	290 J	2000 J
Di-n-octylphthalate	µg/Kg	700 U	NS	810 U	710 U	670 U	760 U	700 U	720 U
Benzo(b)fluoranthene	µg/Kg	700 U	NS	140 J	710 U	670 U	110 J	700 U	720 U
Benzo(k)fluoranthene	µg/Kg	700 U	NS	96 J	710 U	670 U	140 J	700 U	720 U
Benzo(a)pyrene	µg/Kg	700 U	NS	130 J	710 U	670 U	140 J	700 U	720 U
Indeno(1,2,3-cd)pyrene	µg/Kg	700 U	NS	810 U	710 U	670 U	760 U	700 U	720 U
Dibenz(a,h)anthracene	µg/Kg	700 U	NS	810 U	710 U	670 U	760 U	700 U	720 U
Benzo(g,h,i)perylene	µg/Kg	700 U	NS	810 U	710 U	670 U	760 U	700 U	720 U

SENECA ARMY DEPOT, ASH LANDFILL
SOIL ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

COMPOUND	UNITS								
MATRIX		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
LOCATION		B-12	B-12	B-13	B-13	B-13	B-14	B-14	B-14
DEPTH		2-4	6-8	0-2	2-4	6-8	0-2	2-4	2-4
DATE		11/07/91	11/07/91	11/07/91	11/07/91	11/07/91	11/08/91	11/08/91	11/08/91
ES ID		S1107-40	S1107-41	S1107-42	S1107-43	S1107-44	S1108-45	S1108-46	S1108-47(
LAB ID		148705	148706	148707	148708	148709	148710	148711	148712
VOCs									
PESTICIDES/PCBs									
alpha-BHC	µg/Kg	17 U	NS	20 U	17 U	16 U	18 U	17 U	17 U
beta-BHC	µg/Kg	17 U	NS	20 U	17 U	16 U	18 U	17 U	17 U
delta-BHC	µg/Kg	17 U	NS	20 U	17 U	16 U	18 U	17 U	17 U
gamma-BHC (Lindane)	µg/Kg	17 U	NS	20 U	17 U	16 U	18 U	17 U	17 U
Heptachlor	µg/Kg	17 U	NS	20 U	17 U	16 U	18 U	17 U	17 U
Aldrin	µg/Kg	17 U	NS	20 U	17 U	16 U	18 U	17 U	17 U
Heptachlor epoxide	µg/Kg	17 U	NS	20 U	17 U	16 U	18 U	17 U	17 U
Endosulfan I	µg/Kg	17 U	NS	20 U	17 U	16 U	18 U	17 U	17 U
Dieldrin	µg/Kg	34 U	NS	40 U	34 U	32 U	37 U	34 U	35 U
4,4'-DDE	µg/Kg	34 U	NS	40 U	34 U	32 U	37 U	34 U	35 U
Endrin	µg/Kg	34 U	NS	40 U	34 U	32 U	37 U	34 U	35 U
Endosulfan II	µg/Kg	34 U	NS	40 U	34 U	32 U	37 U	34 U	35 U
4,4'-DDD	µg/Kg	34 U	NS	40 U	34 U	32 U	37 U	34 U	35 U
Endosulfan sulfate	µg/Kg	34 U	NS	40 U	34 U	32 U	37 U	34 U	35 U
4,4'-DDT	µg/Kg	34 U	NS	40 U	34 U	32 U	37 U	34 U	35 U
Methoxychlor	µg/Kg	170 U	NS	200 U	170 U	160 U	180 U	170 U	170 U
Endrin ketone	µg/Kg	34 U	NS	40 U	34 U	32 U	37 U	34 U	35 U
Endrin aldehyde	µg/Kg	NS	NS	NS	NS	NS	NS	NS	NS
alpha-Chlordane	µg/Kg	170 U	NS	200 U	170 U	160 U	180 U	170 U	170 U
gamma-Chlordane	µg/Kg	170 U	NS	200 U	170 U	160 U	180 U	170 U	170 U
Toxaphene	µg/Kg	340 U	NS	400 U	340 U	320 U	370 U	340 U	350 U
Aroclor-1016	µg/Kg	170 U	NS	200 U	170 U	160 U	180 U	170 U	170 U
Aroclor-1221	µg/Kg	170 U	NS	200 U	170 U	160 U	180 U	170 U	170 U
Aroclor-1232	µg/Kg	170 U	NS	200 U	170 U	160 U	180 U	170 U	170 U
Aroclor-1242	µg/Kg	170 U	NS	200 U	170 U	160 U	180 U	170 U	170 U
Aroclor-1248	µg/Kg	170 U	NS	200 U	170 U	160 U	180 U	170 U	170 U
Aroclor-1254	µg/Kg	340 U	NS	400 U	340 U	320 U	370 U	340 U	350 U
Aroclor-1260	µg/Kg	340 U	NS	400 U	340 U	320 U	370 U	340 U	350 U
HERBICIDES									
2,4-D	µg/Kg	54 U J	NS	61 U J	55 U J	52 U J	57 U J	54 U J	55 U J
2,4-DB	µg/Kg	54 U J	NS	61 U J	555 U J	52 U J	57 U J	54 U J	55 U J
2,4,5-T	µg/Kg	5 U J	NS	6 U J	5 U J	5 U J	6 U J	5 U J	5 U J
2,4,5-TP (Silvex)	µg/Kg	5 U J	NS	6 U J	5 U J	5 U J	6 U J	5 U J	5 U J
Dalapon	µg/Kg	130 U J	NS	150 U J	130 U J	120 U J	140 U J	130 U J	130 U J
Dicamba	µg/Kg	5 U J	NS	6 U J	5 U J	5 U J	6 U J	5 U J	5 U J
Dichloroprop	µg/Kg	54 U J	NS	61 U J	55 U J	52 U J	57 U J	54 U J	55 U J
Dinoseb	µg/Kg	27 U J	NS	31 U J	27 U J	26 U J	29 U J	27 U J	27 U J
MCPA	µg/Kg	5400 U J	NS	6100 U J	5500 U J	5200 U J	5700 U J	5400 U J	5500 U J
MCPP	µg/Kg	5400 U J	NS	6100 U J	5500 U J	5200 U J	8800 J	5400 U J	5500 U J
METALS									
Aluminum	mg/kg	14200	NS	19900	14400	18200	12600	12400	12600
Antimony	mg/kg	10 U	NS	12.5 U J	10.8 U J	8.4 U J	10.6 U J	10.6 U J	9.3 U J
Arsenic	mg/kg	4.2	NS	5.4	4.7	5.6	5	4	4.6
Barium	mg/kg	54.5	NS	380	78.3	101	86.1	58.7	64
Beryllium	mg/kg	0.73 J	NS	1.2	0.77 J	0.88	0.69 U	0.71 J	0.69 J
Cadmium	mg/kg	3.2 J	NS	4.7 J	3.2 J	4.2 J	3.4 J	2.9 J	2.7
Calcium	mg/kg	53100	NS	11400	61400	26700	49200	87500	93800
Chromium	mg/kg	21	NS	30.9	22.7	27.7	22.1	19	18.9
Cobalt	mg/kg	12.2	NS	16.8	10.8	16.3	6.2 J	10.3	8.4 J
Copper	mg/kg	23	NS	55	25.9	23.4	43	22.3	21.1
Iron	mg/kg	30900	NS	37000	29500	36000	27000	24900	24600
Lead	mg/kg	6.4 J	NS	65.6	15.8	11.6 J	141	11.9 J	9.3
Magnesium	mg/kg	8410	NS	5740	9940	7670	10300	8500	8280
Manganese	mg/kg	586	NS	2740	572	470	330	520	557
Mercury	mg/kg	0.04 J	NS	0.09 J	0.04 U	0.04 J	0.07 J	0.04 U	0.04 U
Nickel	mg/kg	34	NS	37.2	36.4	44	20.9	29.3	29
Potassium	mg/kg	1330	NS	2420	2030	1790	1730	1480	1640
Selenium	mg/kg	1 U J	NS	0.4 U J	1.5 U J	0.31 U J	0.33 U J	1.4 U J	1.5 U J
Silver	mg/kg	5.4 J	NS	1.9 U J	1.6 U J	1.3 U J	1.6 U J	1.6 U J	1.4 U J
Sodium	mg/kg	264 R	NS	132 R	140 R	116 R	96.4 R	114 R	118 R
Thallium	mg/kg	0.34 U	NS	0.66 U	0.51 U	0.51 U	5.4 U	4.7 U	4.8 U
Vanadium	mg/kg	19	NS	31.8	21.8	21.6	22.7	18.1	18.1
Zinc	mg/kg	95.3	NS	461	164	118	357	85.7	87.1
Cyanide	mg/kg	0.64 U	NS	0.68 U	0.61 U	0.61 U	0.67 U	0.63 U	0.58 U

SENECA ARMY DEPOT, ASH LANDFILL
SOIL ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	B-14	B-14	B-15	B-15	B-15	B-15	B-15	B-15
	DEPTH	4-6	4-6	0-2	0-2	2-4	2-4	2-4	2-4
	DATE	11/08/91	11/08/91	11/08/91	11/08/91	11/08/91	11/08/91	11/08/91	11/08/91
	ES ID (1)	S1108-48	S1108-48RE(4)	S1108-49	S1108-49DL(5)	S1108-50	S1108-50DL(5)	S1108-50RE(4)	S1108-51
	LAB ID	148713	148713	148714	148714	148715	148715	148715	148716
COMPOUND	UNITS								
VOCs									
Chloromethane	µg/Kg	10 U J	10 U J	38 U	6300 U R	2200 U J	27000 U R	NS	29000 U J
Bromomethane	µg/Kg	10 U J	10 U J	38 U	6300 U R	2200 U J	27000 U R	NS	29000 U J
Vinyl Chloride	µg/Kg	10 U J	10 U J	38 U	6300 U R	2200 U J	27000 U R	NS	29000 U J
Chloroethane	µg/Kg	10 U J	10 U J	38 U	6300 U R	2200 U J	27000 U R	NS	29000 U J
Methylene Chloride	µg/Kg	5 U J	5 U J	19 U	3100 U R	1100 U J	14000 U R	NS	14000 U J
Acetone	µg/Kg	12 U J	10 U J	38 U	6300 U R	2200 U J	27000 U R	NS	8400 U J
Carbon Disulfide	µg/Kg	5 U J	5 U J	19 U	3100 U R	1100 U J	14000 U R	NS	14000 U J
1,1-Dichloroethene	µg/Kg	5 U J	5 U J	19 U	3100 U R	1100 U J	14000 U R	NS	14000 U J
1,1-Dichloroethane	µg/Kg	5 U J	5 U J	19 U	3100 U R	1100 U J	14000 U R	NS	14000 U J
1,2-Dichloroethene (total)	µg/Kg	6 J	3 J	6600 R	29000	40000 J	36000 U R	NS	79000 J
Chloroform	µg/Kg	5 U J	5 U J	18 J	3100 U R	1100 U J	14000 U R	NS	14000 U J
1,2-Dichloroethane	µg/Kg	5 U J	5 U J	19 U	3100 U R	1100 U J	14000 U R	NS	14000 U J
2-Butanone	µg/Kg	10 U J	10 U J	38 U	6300 U R	2200 U J	27000 U R	NS	29000 U J
1,1,1-Trichloroethane	µg/Kg	5 U J	5 U J	19 U	3100 U R	1100 U J	14000 U R	NS	14000 U J
Carbon Tetrachloride	µg/Kg	5 U J	5 U J	19 U	3100 U R	1100 U J	14000 U R	NS	14000 U J
Vinyl Acetate	µg/Kg	10 U J	10 U J	38 U	6300 U R	2200 U J	27000 U R	NS	29000 U J
Bromodichloromethane	µg/Kg	5 U J	5 U J	19 U	3100 U R	1100 U J	14000 U R	NS	14000 U J
1,2-Dichloropropane	µg/Kg	5 U J	5 U J	19 U	3100 U R	1100 U J	14000 U R	NS	14000 U J
cis-1,3-Dichloropropene	µg/Kg	5 U J	5 U J	19 U	3100 U R	1100 U J	14000 U R	NS	14000 U J
Trichloroethene	µg/Kg	8 J	5 J	13000 R	110000	580000 R	470000 J	NS	740000 R
Dibromochloromethane	µg/Kg	5 U J	5 U J	19 U	3100 U R	1100 U J	14000 U R	NS	14000 U J
1,1,2-Trichloroethane	µg/Kg	5 U J	5 U J	19 U	3100 U R	1100 U J	14000 U R	NS	14000 U J
Benzene	µg/Kg	5 U J	5 U J	19 U	3100 U R	1100 U J	14000 U R	NS	14000 U J
trans-1,3-Dichloropropene	µg/Kg	5 U J	5 U J	19 U	3100 U R	1100 U J	14000 U R	NS	14000 U J
Bromoform	µg/Kg	5 U J	5 U J	19 U	3100 U R	1100 U J	14000 U R	NS	14000 U J
4-Methyl-2-Pentanone	µg/Kg	10 U J	10 U J	38 U	6300 U R	2200 U J	27000 U R	NS	29000 U J
2-Hexanone	µg/Kg	10 U J	10 U J	38 U	6300 U R	2200 U J	27000 U R	NS	29000 U J
Tetrachloroethene	µg/Kg	5 U J	5 U J	7 J	3100 U R	1100 U J	14000 U R	NS	14000 U J
1,1,2,2-Tetrachloroethane	µg/Kg	5 U J	5 U J	19 U	3100 U R	1100 U J	14000 U R	NS	14000 U J
Toluene	µg/Kg	3 U J	2 J	4 J	570 R	3700 J	4600 R	NS	5700 J
Chlorobenzene	µg/Kg	5 U J	5 U J	19 U	3100 U R	1100 U J	14000 U R	NS	14000 U J
Ethylbenzene	µg/Kg	5 U J	5 U J	19 U	3100 U R	2000 J	14000 U R	NS	2800 U J
Styrene	µg/Kg	5 U J	5 U J	19 U	3100 U R	1100 U J	14000 U R	NS	14000 U J
Xylene (total)	µg/Kg	5 U J	5 U J	19 U	3100 U R	14000 J	15000 U R	NS	17000 J

SENECA ARMY DEPOT, ASH LANDFILL
SOIL ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

COMPOUND	UNITS	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		LOCATION	B-14	B-14	B-15	B-15	B-15	B-15	B-15	B-15
		DEPTH	4-6	4-6	0-2	0-2	2-4	2-4	2-4	2-4
		DATE	11/08/91	11/08/91	11/08/91	11/08/91	11/08/91	11/08/91	11/08/91	11/08/91
		ES ID (1)	S1108-48	S1108-48RE(4)	S1108-49	S1108-49DL(5)	S1108-50	S1108-50DL(5)	S1108-50RE(4)	S1108-51
		LAB ID	146713	146713	146714	146714	146715	146715	146715	146716
VOCs										
SEMIVOLATILES										
Phenol	µg/Kg	690 U	NS	700 U	NS	1600 U J	NS	1600 U J	2000 U J	
bis(2-Chloroethyl) ether	µg/Kg	690 U	NS	700 U	NS	1600 U J	NS	1600 U J	2000 U J	
2-Chlorophenol	µg/Kg	690 U	NS	700 U	NS	1600 U J	NS	1600 U J	2000 U J	
1,3-Dichlorobenzene	µg/Kg	690 U	NS	700 U	NS	1600 U J	NS	1600 U J	2000 U J	
1,4-Dichlorobenzene	µg/Kg	690 U	NS	700 U	NS	1600 U J	NS	1600 U J	2000 U J	
Benzyl Alcohol	µg/Kg	690 U	NS	700 U	NS	1600 U J	NS	1600 U J	2000 U J	
1,2-Dichlorobenzene	µg/Kg	690 U	NS	700 U	NS	1600 U J	NS	1600 U J	2000 U J	
2-Methylphenol	µg/Kg	690 U	NS	700 U	NS	1600 U J	NS	1600 U J	2000 U J	
bis(2-Chloroisopropyl) ether	µg/Kg	690 U	NS	700 U	NS	1600 U J	NS	1600 U J	2000 U J	
4-Methylphenol	µg/Kg	690 U	NS	700 U	NS	1600 U J	NS	1600 U J	2000 U J	
N-Nitroso-di-n-propylamine	µg/Kg	690 U	NS	700 U	NS	1600 U J	NS	1600 U J	2000 U J	
Hexachloroethane	µg/Kg	690 U	NS	700 U	NS	1600 U J	NS	1600 U J	2000 U J	
Nitrobenzene	µg/Kg	690 U	NS	700 U	NS	1600 U J	NS	1600 U J	2000 U J	
Isophorone	µg/Kg	690 U	NS	700 U	NS	1600 U J	NS	1600 U J	2000 U J	
2-Nitrophenol	µg/Kg	690 U	NS	700 U	NS	1600 U J	NS	1600 U J	2000 U J	
2,4-Dimethylphenol	µg/Kg	690 U	NS	700 U	NS	1600 U J	NS	1600 U J	2000 U J	
Benzoic acid	µg/Kg	3300 U	NS	3400 U	NS	7700 U J	NS	7700 U J	9500 U J	
bis(2-Chloroethoxy) methane	µg/Kg	690 U	NS	700 U	NS	1600 U J	NS	1600 U J	2000 U J	
2,4-Dichlorophenol	µg/Kg	690 U	NS	700 U	NS	1600 U J	NS	1600 U J	2000 U J	
1,2,4-Trichlorobenzene	µg/Kg	690 U	NS	700 U	NS	1600 U J	NS	1600 U J	2000 U J	
Naphthalene	µg/Kg	690 U	NS	700 U	NS	1900 J	NS	2000 J	2500 J	
4-Chloroaniline	µg/Kg	690 U	NS	700 U	NS	1600 U J	NS	1600 U J	2000 U J	
Hexachlorobutadiene	µg/Kg	690 U	NS	700 U	NS	1600 U J	NS	1600 U J	2000 U J	
4-Chloro-3-methylphenol	µg/Kg	690 U	NS	700 U	NS	1600 U J	NS	1600 U J	2000 U J	
2-Methylnaphthalene	µg/Kg	690 U	NS	700 U	NS	2000 J	NS	2000 J	2700 J	
Hexachlorocyclopentadiene	µg/Kg	690 U	NS	700 U	NS	1600 U J	NS	1600 U J	2000 U J	
2,4,6-Trichlorophenol	µg/Kg	690 U	NS	700 U	NS	1600 U J	NS	1600 U J	2000 U J	
2,4,5-Trichlorophenol	µg/Kg	3300 U	NS	3400 U	NS	7700 U J	NS	7700 U J	9500 U J	
2-Chloronaphthalene	µg/Kg	690 U	NS	700 U	NS	1600 U J	NS	1600 U J	2000 U J	
2-Nitroaniline	µg/Kg	3300 U	NS	3400 U	NS	7700 U J	NS	7700 U J	9500 U J	
Dimethylphthalate	µg/Kg	690 U	NS	700 U	NS	1600 U J	NS	1600 U J	2000 U J	
Acenaphthylene	µg/Kg	690 U	NS	700 U	NS	1600 U J	NS	1600 U J	2000 U J	
2,6-Dinitrotoluene	µg/Kg	690 U	NS	700 U	NS	1600 U J	NS	1600 U J	2000 U J	
3-Nitroaniline	µg/Kg	3300 U	NS	3400 U	NS	7700 U J	NS	7700 U J	9500 U J	
Acenaphthene	µg/Kg	690 U	NS	700 U	NS	1600 U J	NS	1600 U J	2000 U J	
2,4-Dinitrophenol	µg/Kg	3300 U	NS	3400 U	NS	7700 U J	NS	7700 U J	9500 U J	
4-Nitrophenol	µg/Kg	3300 U	NS	3400 U	NS	7700 U J	NS	7700 U J	9500 U J	
Dibenzofuran	µg/Kg	690 U	NS	700 U	NS	1600 U J	NS	1600 U J	2000 U J	
2,4-Dinitrotoluene	µg/Kg	690 U	NS	700 U	NS	1600 U J	NS	1600 U J	2000 U J	
Diethylphthalate	µg/Kg	690 U	NS	700 U	NS	1600 U J	NS	1600 U J	2000 U J	
4-Chlorophenyl-phenylether	µg/Kg	690 U	NS	700 U	NS	1600 U J	NS	1600 U J	2000 U J	
Fluorene	µg/Kg	690 U	NS	700 U	NS	1600 U J	NS	1600 U J	2000 U J	
4-Nitroaniline	µg/Kg	3300 U	NS	3400 U	NS	7700 U J	NS	7700 U J	9500 U J	
4,6-Dinitro-2-methylphenol	µg/Kg	3300 U	NS	3400 U	NS	7700 U J	NS	7700 U J	9500 U J	
N-Nitrosodiphenylamine (1)	µg/Kg	690 U	NS	700 U	NS	1600 U J	NS	1600 U J	2000 U J	
4-Bromophenyl-phenylether	µg/Kg	690 U	NS	700 U	NS	1600 U J	NS	1600 U J	2000 U J	
Hexachlorobenzene	µg/Kg	690 U	NS	700 U	NS	1600 U J	NS	1600 U J	2000 U J	
Pentachlorophenol	µg/Kg	3300 U	NS	3400 U	NS	7700 U J	NS	7700 U J	9500 U J	
Phenanthrene	µg/Kg	690 U	NS	700 U	NS	300 J	NS	290 J	420 J	
Anthracene	µg/Kg	690 U	NS	700 U	NS	1600 U J	NS	1600 U J	2000 U J	
Carbazole	µg/Kg	NS	NS	NS	NS	NS	NS	NS	NS	
Di-n-butylphthalate	µg/Kg	690 U	NS	700 U	NS	1600 U J	NS	1600 U J	2000 U J	
Fluoranthene	µg/Kg	690 U	NS	96 J	NS	1600 U J	NS	1600 U J	2000 U J	
Pyrene	µg/Kg	690 U	NS	100 J	NS	180 J	NS	160 J	230 J	
Butylbenzylphthalate	µg/Kg	690 U	NS	700 U	NS	1600 U J	NS	1600 U J	2000 U J	
3,3'-Dichlorobenzidine	µg/Kg	1400 U	NS	1400 U	NS	3200 U J	NS	3200 U J	3900 U J	
Benzo(a)anthracene	µg/Kg	690 U	NS	97 J	NS	1600 U J	NS	1600 U J	2000 U J	
Chrysene	µg/Kg	690 U	NS	120 J	NS	1600 U J	NS	1600 U J	2000 U J	
bis(2-Ethylhexyl)phthalate	µg/Kg	690 U	NS	460 J	NS	450 J	NS	360 J	940 J	
Di-n-octylphthalate	µg/Kg	690 U	NS	700 U	NS	1600 U J	NS	1600 U J	2000 U J	
Benzo(b)fluoranthene	µg/Kg	690 U	NS	140 J	NS	1600 U J	NS	1600 U J	2000 U J	
Benzo(k)fluoranthene	µg/Kg	690 U	NS	140 J	NS	1600 U J	NS	1600 U J	2000 U J	
Benzo(a)pyrene	µg/Kg	690 U	NS	150 J	NS	1600 U J	NS	1600 U J	2000 U J	
Indeno(1,2,3-cd)pyrene	µg/Kg	690 U	NS	180 J	NS	1600 U J	NS	1600 U J	2000 U J	
Dibenz(a,h)anthracene	µg/Kg	690 U	NS	700 U	NS	1600 U J	NS	1600 U J	2000 U J	
Benzo(g,h,i)perylene	µg/Kg	690 U	NS	190 J	NS	1600 U J	NS	1600 U J	2000 U J	

SENECA ARMY DEPOT, ASH LANDFILL
SOIL ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

COMPOUND	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	B-14	B-14	B-15	B-15	B-15	B-15	B-15	B-15
	DEPTH	4-6	4-6	0-2	0-2	2-4	2-4	2-4	2-4
	DATE	11/08/91	11/08/91	11/08/91	11/08/91	11/08/91	11/08/91	11/08/91	11/08/91
	ES ID :1)	S1108-48	S1108-48RE(4)	S1108-49	S1108-49DL(5)	S1108-50	S1108-50DL(5)	S1108-50RE(4)	S1108-51
	LAB ID	148713	148713	148714	148714	148715	148715	148715	148716
	UNITS								
VOCs									
PESTICIDES/PCBs									
alpha-BHC	µg/Kg	17 U	NS	17 U	NS	19 U	NS	NS	19 U
beta-BHC	µg/Kg	17 U	NS	17 U	NS	19 U	NS	NS	19 U
delta-BHC	µg/Kg	17 U	NS	17 U	NS	19 U	NS	NS	19 U
gamma-BHC (Lindane)	µg/Kg	17 U	NS	17 U	NS	19 U	NS	NS	19 U
Heptachlor	µg/Kg	17 U	NS	17 U	NS	19 U	NS	NS	19 U
Aldrin	µg/Kg	17 U	NS	17 U	NS	19 U	NS	NS	19 U
Heptachlor epoxide	µg/Kg	17 U	NS	17 U	NS	19 U	NS	NS	19 U
Endosulfan I	µg/Kg	17 U	NS	17 U	NS	19 U	NS	NS	19 U
Dieldrin	µg/Kg	33 U	NS	34 U	NS	39 U	NS	NS	38 U
4,4'-DDE	µg/Kg	33 U	NS	250	NS	39 U	NS	NS	38 U
Endrin	µg/Kg	33 U	NS	34 U	NS	39 U	NS	NS	38 U
Endosulfan II	µg/Kg	33 U	NS	34 U	NS	39 U	NS	NS	38 U
4,4'-DDD	µg/Kg	33 U	NS	34 U	NS	39 U	NS	NS	38 U
Endosulfan sulfate	µg/Kg	33 U	NS	34 U	NS	39 U	NS	NS	38 U
4,4'-DDT	µg/Kg	33 U	NS	34 U	NS	39 U	NS	NS	38 U
Methoxychlor	µg/Kg	170 U	NS	170 U	NS	190 U	NS	NS	190 U
Endrin ketone	µg/Kg	33 U	NS	34 U	NS	39 U	NS	NS	38 U
Endrin aldehyde	µg/Kg	NS	NS	NS	NS	NS	NS	NS	NS
alpha-Chlordane	µg/Kg	170 U	NS	170 U	NS	190 U	NS	NS	190 U
gamma-Chlordane	µg/Kg	170 U	NS	170 U	NS	190 U	NS	NS	190 U
Toxaphene	µg/Kg	330 U	NS	340 U	NS	390 U	NS	NS	380 U
Aroclor-1016	µg/Kg	170 U	NS	170 U	NS	190 U	NS	NS	190 U
Aroclor-1221	µg/Kg	170 U	NS	170 U	NS	190 U	NS	NS	190 U
Aroclor-1232	µg/Kg	170 U	NS	170 U	NS	190 U	NS	NS	190 U
Aroclor-1242	µg/Kg	170 U	NS	170 U	NS	190 U	NS	NS	190 U
Aroclor-1248	µg/Kg	170 U	NS	170 U	NS	190 U	NS	NS	190 U
Aroclor-1254	µg/Kg	330 U	NS	340 U	NS	390 U	NS	NS	380 U
Aroclor-1260	µg/Kg	330 U	NS	330 J	NS	370 J	NS	NS	430
HERBICIDES									
2,4-D	µg/Kg	53 U J	NS	53 U J	NS	60 U J	NS	NS	59 U J
2,4-DB	µg/Kg	53 U J	NS	53 U J	NS	60 U J	NS	NS	59 U J
2,4,5-T	µg/Kg	5 U J	NS	5 U J	NS	6 U J	NS	NS	6 U J
2,4,5-TP (Silvex)	µg/Kg	5 U J	NS	5 U J	NS	6 U J	NS	NS	6 U J
Dalapon	µg/Kg	130 U J	NS	130 U J	NS	140 U J	NS	NS	140 U J
Dicamba	µg/Kg	5 U J	NS	5 U J	NS	6 U J	NS	NS	6 U J
Dichloroprop	µg/Kg	53 U J	NS	53 U J	NS	60 U J	NS	NS	59 U J
Dinoseb	µg/Kg	26 U J	NS	26 U J	NS	30 U J	NS	NS	30 U J
MCPA	µg/Kg	5300 U J	NS	5300 U J	NS	6000 U J	NS	NS	5900 U J
MCPP	µg/Kg	5300 U J	NS	5300 U J	NS	6000 U J	NS	NS	5900 U J
METALS									
Aluminum	mg/kg	18100	NS	16100	NS	13900	NS	NS	18100
Antimony	mg/kg	10.5 U J	NS	11 U J	NS	10.6 J	NS	NS	12.1 U J
Arsenic	mg/kg	2.7	NS	4.1	NS	5.5 U	NS	NS	5
Barium	mg/kg	55.8	NS	121	NS	75.7	NS	NS	109
Beryllium	mg/kg	0.87 J	NS	0.89 J	NS	0.78 J	NS	NS	1 J
Cadmium	mg/kg	3.7 J	NS	3.4 J	NS	3.2 J	NS	NS	3.4 J
Calcium	mg/kg	29700	NS	30900	NS	50000 J	NS	NS	10500 J
Chromium	mg/kg	28.2	NS	30.5	NS	22	NS	NS	26.5
Cobalt	mg/kg	14.1	NS	14	NS	10.1	NS	NS	13.7
Copper	mg/kg	15.8	NS	38.6	NS	25.4	NS	NS	28.9
Iron	mg/kg	37800	NS	35300	NS	27700	NS	NS	32800
Lead	mg/kg	5.4 J	NS	40.7	NS	27	NS	NS	33.1
Magnesium	mg/kg	7770	NS	8190	NS	6190	NS	NS	5840
Manganese	mg/kg	483	NS	476	NS	653	NS	NS	600
Mercury	mg/kg	0.04 U	NS	0.06 J	NS	0.05 J	NS	NS	0.06 J
Nickel	mg/kg	41	NS	53	NS	37	NS	NS	35.6
Potassium	mg/kg	1770	NS	1910	NS	1280	NS	NS	2200
Selenium	mg/kg	1.6 U J	NS	0.31 U J	NS	1.4 U J	NS	NS	1.5 U J
Silver	mg/kg	1.6 U J	NS	1.7 U J	NS	1.6 U J	NS	NS	1.8 U J
Sodium	mg/kg	116 R	NS	97.3 R	NS	81.1 U	NS	NS	92.4 U
Thallium	mg/kg	0.52 U	NS	0.52 U	NS	0.46 U	NS	NS	0.49 U
Vanadium	mg/kg	21.8	NS	23.3	NS	21	NS	NS	28.6
Zinc	mg/kg	99	NS	117	NS	123	NS	NS	106
Cyanide	mg/kg	0.6 U	NS	0.47 U	NS	0.59 U	NS	NS	0.68 U

SENECA ARMY DEPOT, ASH LANDFILL
SOIL ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	B-15	B-15	B-15	B-16	B-16	B-16	B-17	B-17
	DEPTH	2-4	6-8	6-8	0-2	2-4	6-8	0-2	0-2
	DATE	11/08/91	11/08/91	11/08/91	11/12/91	11/12/91	11/12/91	11/13/91	11/13/91
	ES ID (1)	S1108-51DL(5)	S1108-52	S1108-52DL(5)	S1112-53	S1112-54	S1112-55	S1113-56	S1113-56R
	LAB ID	148716	148717	148717	148925	148926	148927	148928	148928
COMPOUND	UNITS								
VOCs									
Chloromethane	µg/Kg	48000 U R	1400 U J	3400 U R	12 U	11 U	10 U	11 U J	11 U J
Bromomethane	µg/Kg	48000 U R	1400 U J	3400 U R	12 U	11 U	10 U	11 U J	11 U J
Vinyl Chloride	µg/Kg	48000 U R	1400 U J	3400 U R	12 U	11 U	10 U	11 U J	11 U J
Chloroethane	µg/Kg	48000 U R	1400 U J	3400 U R	12 U	11 U	10 U	11 U J	11 U J
Methylene Chloride	µg/Kg	24000 U R	680 U J	1700 U R	6 U	6 U	5 U	5 U J	6 U J
Acetone	µg/Kg	48000 U R	1400 U J	3400 U R	12 U	15 U	27 U	11 U J	18 U J
Carbon Disulfide	µg/Kg	24000 U R	680 U J	1700 U R	6 U	6 U	5 U	5 U J	5 U J
1,1-Dichloroethene	µg/Kg	24000 U R	680 U J	1700 U R	6 U	6 U	5 U	5 U J	5 U J
1,1-Dichloroethane	µg/Kg	24000 U R	680 U J	1700 U R	6 U	6 U	5 U	5 U J	5 U J
1,2-Dichloroethene (total)	µg/Kg	69000 U R	11000 J	19000 R	6 U	6 U	5 U	5 U J	5 U J
Chloroform	µg/Kg	5300 R	680 U J	1700 U R	6 U	2 J	5 U	5 U J	5 U J
1,2-Dichloroethane	µg/Kg	24000 U R	680 U J	1700 U R	8 U	6 U	5 U	5 U J	5 U J
2-Butanone	µg/Kg	48000 U R	1400 U J	3400 U R	12 U	11 U	10 U	11 U J	11 U J
1,1,1-Trichloroethane	µg/Kg	24000 U R	680 U J	1700 U R	6 U	6 U	5 U	5 U J	5 U J
Carbon Tetrachloride	µg/Kg	24000 U R	680 U J	1700 U R	6 U	6 U	5 U	5 U J	5 U J
Vinyl Acetate	µg/Kg	48000 U R	1400 U J	3400 U R	12 U	11 U	10 U	11 U J	11 U J
Bromodichloromethane	µg/Kg	24000 U R	680 U J	1700 U R	6 U	6 U	5 U	5 U J	5 U J
1,2-Dichloropropane	µg/Kg	24000 U R	680 U J	1700 U R	6 U	6 U	5 U	5 U J	5 U J
cis-1,3-Dichloropropene	µg/Kg	24000 U R	680 U J	1700 U R	6 U	6 U	5 U	5 U J	5 U J
Trichloroethene	µg/Kg	540000 J	29000 R	38000 J	6 U	6 U	7	9 J	9 J
Dibromochloromethane	µg/Kg	24000 U R	680 U J	1700 U R	6 U	6 U	5 U	5 U J	5 U J
1,1,2-Trichloroethane	µg/Kg	24000 U R	680 U J	1700 U R	6 U	6 U	5 U	5 U J	5 U J
Benzene	µg/Kg	24000 U R	680 U J	1700 U R	6 U	6 U	5 U	5 U J	5 U J
trans-1,3-Dichloropropene	µg/Kg	24000 U R	680 U J	1700 U R	6 U	6 U	5 U	5 U J	5 U J
Bromoform	µg/Kg	24000 U R	680 U J	1700 U R	6 U	6 U	5 U	5 U J	5 U J
4-Methyl-2-Pentanone	µg/Kg	48000 U R	1400 U J	3400 U R	12 U	11 U	10 U	11 U J	11 U J
2-Hexanone	µg/Kg	48000 U R	1400 U J	3400 U R	12 U	11 U	10 U	11 U J	11 U J
Tetrachloroethene	µg/Kg	24000 U R	680 U J	1700 U R	6 U	6 U	5 U	5 U J	5 U J
1,1,2,2-Tetrachloroethane	µg/Kg	24000 U R	680 U J	1700 U R	6 U	6 U	5 U	5 U J	5 U J
Toluene	µg/Kg	6900 R	850 J	970 R	6 U	6 U	6	5 U J	1 J
Chlorobenzene	µg/Kg	24000 U R	680 U J	1700 U R	6 U	6 U	5 U	5 U J	5 U J
Ethylbenzene	µg/Kg	24000 U R	800 J	1700 U R	8 U	6 U	5 U	5 U J	5 U J
Styrene	µg/Kg	24000 U R	680 U J	1700 U R	6 U	6 U	5 U	5 U J	5 U J
Xylene (total)	µg/Kg	18000 R	4900 J	12000 R	6 U	6 U	28	5 U J	5 U J

SENECA ARMY DEPOT, ASH LANDFILL
SOIL ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

COMPOUND	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
LOCATION		B-15	B-15	B-15	B-16	B-16	B-16	B-17	B-17
DEPTH		2-4	6-8	6-8	0-2	2-4	6-8	0-2	0-2
DATE		11/08/91	11/08/91	11/08/91	11/12/91	11/12/91	11/12/91	11/13/91	11/13/91
ES ID (1)		S1108-51DL(5)	S1108-52	S1108-52DL(5)	S1112-53	S1112-54	S1112-55	S1113-56	S1113-56R
LAB ID		148716	148717	148717	148925	148926	148927	148928	148928
	UNITS								
VOCs									
SEMIVOLATILES									
Phenol	µg/Kg	2000 U J	950 U J	NS	800 U	730 U	710 U	740 U	NS
bis(2-Chloroethyl) ether	µg/Kg	2000 U J	950 U J	NS	800 U	730 U	710 U	740 U	NS
2-Chlorophenol	µg/Kg	2000 U J	950 U J	NS	800 U	730 U	710 U	740 U	NS
1,3-Dichlorobenzene	µg/Kg	2000 U J	950 U J	NS	800 U	730 U	710 U	740 U	NS
1,4-Dichlorobenzene	µg/Kg	2000 U J	950 U J	NS	800 U	730 U	710 U	740 U	NS
Benzyl Alcohol	µg/Kg	2000 U J	950 U J	NS	800 U	730 U	710 U	740 U	NS
1,2-Dichlorobenzene	µg/Kg	2000 U J	950 U J	NS	800 U	730 U	710 U	740 U	NS
2-Methylphenol	µg/Kg	2000 U J	950 U J	NS	800 U	730 U	710 U	740 U	NS
bis(2-Chloroisopropyl) ether	µg/Kg	2000 U J	950 U J	NS	800 U	730 U	710 U	740 U	NS
4-Methylphenol	µg/Kg	2000 U J	950 U J	NS	800 U	730 U	710 U	740 U	NS
N-Nitroso-di-n-propylamine	µg/Kg	2000 U J	950 U J	NS	800 U	730 U	710 U	740 U	NS
Hexachloroethane	µg/Kg	2000 U J	950 U J	NS	800 U	730 U	710 U	740 U	NS
Nitrobenzene	µg/Kg	2000 U J	950 U J	NS	800 U	730 U	710 U	740 U	NS
Isophorone	µg/Kg	2000 U J	950 U J	NS	800 U	730 U	710 U	740 U	NS
2-Nitrophenol	µg/Kg	2000 U J	950 U J	NS	800 U	730 U	710 U	740 U	NS
2,4-Dimethylphenol	µg/Kg	2000 U J	950 U J	NS	800 U	730 U	710 U	740 U	NS
Benzoic acid	µg/Kg	9500 U J	4600 U J	NS	3900 U	3600 U	3400 U	3600 U	NS
bis(2-Chloroethoxy) methane	µg/Kg	2000 U J	950 U J	NS	800 U	730 U	710 U	740 U	NS
2,4-Dichlorophenol	µg/Kg	2000 U J	950 U J	NS	800 U	730 U	710 U	740 U	NS
1,2,4-Trichlorobenzene	µg/Kg	2000 U J	950 U J	NS	800 U	730 U	710 U	740 U	NS
Naphthalene	µg/Kg	2400 J	1200 J	NS	800 U	730 U	710 U	740 U	NS
4-Chloroaniline	µg/Kg	2000 U J	950 U J	NS	800 U	730 U	710 U	740 U	NS
Hexachlorobutadiene	µg/Kg	2000 U J	950 U J	NS	800 U	730 U	710 U	740 U	NS
4-Chloro-3-methylphenol	µg/Kg	2000 U J	950 U J	NS	800 U	730 U	710 U	740 U	NS
2-Methylnaphthalene	µg/Kg	2600 J	950 U J	NS	800 U	730 U	710 U	740 U	NS
Hexachlorocyclopentadiene	µg/Kg	2000 U J	950 U J	NS	800 U	730 U	710 U	740 U	NS
2,4,6-Trichlorophenol	µg/Kg	2000 U J	950 U J	NS	800 U	730 U	710 U	740 U	NS
2,4,5-Trichlorophenol	µg/Kg	9500 U J	4600 U J	NS	3900 U	3600 U	3400 U	3600 U	NS
2-Chloronaphthalene	µg/Kg	2000 U J	950 U J	NS	800 U	730 U	710 U	740 U	NS
2-Nitroaniline	µg/Kg	9500 U J	4800 U J	NS	3900 U	3600 U	3400 U	3600 U	NS
Dimethylphthalate	µg/Kg	2000 U J	950 U J	NS	800 U	730 U	710 U	740 U	NS
Acenaphthylene	µg/Kg	2000 U J	950 U J	NS	510 J	730 U	710 U	740 U	NS
2,6-Dinitrotoluene	µg/Kg	2000 U J	950 U J	NS	800 U	730 U	710 U	740 U	NS
3-Nitroaniline	µg/Kg	9500 U J	4600 U J	NS	3900 U	3600 U	3400 U	3600 U	NS
Acenaphthene	µg/Kg	2000 U J	950 U J	NS	800 U	730 U	710 U	740 U	NS
2,4-Dinitrophenol	µg/Kg	9500 U J	4600 U J	NS	3900 U	3600 U	3400 U	3600 U	NS
4-Nitrophenol	µg/Kg	9500 U J	4600 U J	NS	3900 U	3600 U	3400 U	3600 U	NS
Dibenzofuran	µg/Kg	2000 U J	950 U J	NS	800 U	730 U	710 U	740 U	NS
2,4-Dinitrotoluene	µg/Kg	2000 U J	950 U J	NS	800 U	730 U	710 U	740 U	NS
Diethylphthalate	µg/Kg	2000 U J	950 U J	NS	800 U	730 U	710 U	740 U	NS
4-Chlorophenyl-phenylether	µg/Kg	2000 U J	950 U J	NS	800 U	730 U	710 U	740 U	NS
Fluorene	µg/Kg	2000 U J	950 U J	NS	800 U	730 U	710 U	740 U	NS
4-Nitroaniline	µg/Kg	9500 U J	4600 U J	NS	3900 U	3600 U	3400 U	3600 U	NS
4,6-Dinitro-2-methylphenol	µg/Kg	9500 U J	4600 U J	NS	3900 U	3600 U	3400 U	3600 U	NS
N-Nitrosodiphenylamine (1)	µg/Kg	2000 U J	950 U J	NS	800 U	730 U	710 U	740 U	NS
4-Bromophenyl-phenylether	µg/Kg	2000 U J	950 U J	NS	800 U	730 U	710 U	740 U	NS
Hexachlorobenzene	µg/Kg	2000 U J	950 U J	NS	800 U	730 U	710 U	740 U	NS
Pentachlorophenol	µg/Kg	9500 U J	4600 U J	NS	3900 U	3600 U	3400 U	3600 U	NS
Phenanthrene	µg/Kg	400 J	170 J	NS	170 J	730 U	710 U	740 U	NS
Anthracene	µg/Kg	2000 U J	950 U J	NS	800 U	730 U	710 U	740 U	NS
Carbazole	µg/Kg	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate	µg/Kg	2000 U J	950 U J	NS	800 U	730 U	710 U	740 U	NS
Fluoranthene	µg/Kg	2000 U J	950 U J	NS	800	730 U	710 U	740 U	NS
Pyrene	µg/Kg	2000 U J	150 J	NS	1800	730 U	710 U	740 U	NS
Butylbenzylphthalate	µg/Kg	2000 U J	950 U J	NS	800 U	730 U	710 U	740 U	NS
3,3'-Dichlorobenzidine	µg/Kg	3900 U J	1900 U J	NS	1600 U	1500 U	1400 U	1500 U	NS
Benzo(a)anthracene	µg/Kg	2000 U J	950 U J	NS	1300	730 U	710 U	740 U	NS
Chrysene	µg/Kg	2000 U J	950 U J	NS	1800	730 U	710 U	740 U	NS
bis(2-Ethylhexyl)phthalate	µg/Kg	790 J	110 J	NS	800 U	730 U	700 J	740 U	NS
Di-n-octylphthalate	µg/Kg	2000 U J	950 U J	NS	800 U	730 U	710 U	740 U	NS
Benzo(b)fluoranthene	µg/Kg	2000 U J	950 U J	NS	740 J	730 U	710 U	740 U	NS
Benzo(k)fluoranthene	µg/Kg	2000 U J	950 U J	NS	870	730 U	710 U	740 U	NS
Benzo(a)pyrene	µg/Kg	2000 U J	950 U J	NS	1500	730 U	710 U	740 U	NS
Indeno(1,2,3-cd)pyrene	µg/Kg	2000 U J	950 U J	NS	660 J	730 U	710 U	740 U	NS
Dibenz(a,h)anthracene	µg/Kg	2000 U J	950 U J	NS	330 J	730 U	710 U	740 U	NS
Benzo(g,h,i)perylene	µg/Kg	2000 U J	950 U J	NS	880	730 U	710 U	740 U	NS

SENECA ARMY DEPOT, ASH LANDFILL
SOIL ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

COMPOUND	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	B-15	B-15	B-15	B-16	B-16	B-16	B-17	B-17
	DEPTH	2-4	6-8	6-8	0-2	2-4	6-8	0-2	0-2
	DATE	11/08/91	11/08/91	11/08/91	11/12/91	11/12/91	11/12/91	11/13/91	11/13/91
	ES ID (1)	S1108-51DL(5)	S1108-52	S1108-52DL(5)	S1112-53	S1112-54	S1112-55	S1113-56	S1113-56R
	LAB ID	148716	148717	148717	148925	148926	148927	148928	148928
	UNITS								
VOCs									
PESTICIDES/PCBs									
alpha-BHC	µg/Kg	NS	17 U J	NS	19 U	18 U	17 U	18 U	NS
beta-BHC	µg/Kg	NS	17 U J	NS	19 U	18 U	17 U	18 U	NS
delta-BHC	µg/Kg	NS	17 U J	NS	19 U	18 U	17 U	18 U	NS
gamma-BHC (Lindane)	µg/Kg	NS	17 U J	NS	19 U	18 U	17 U	18 U	NS
Heptachlor	µg/Kg	NS	17 U J	NS	19 U	18 U	17 U	18 U	NS
Aldrin	µg/Kg	NS	17 U J	NS	19 U	18 U	17 U	18 U	NS
Heptachlor epoxide	µg/Kg	NS	17 U J	NS	19 U	18 U	17 U	18 U	NS
Endosulfan I	µg/Kg	NS	17 U J	NS	19 U	18 U	17 U	18 U	NS
Dieldrin	µg/Kg	NS	35 U J	NS	39 U	36 U	34 U	36 U	NS
4,4'-DDE	µg/Kg	NS	69 J	NS	21 J	36 U	34 U	39	NS
Endrin	µg/Kg	NS	35 U J	NS	39 U	36 U	34 U	36 U	NS
Endosulfan II	µg/Kg	NS	35 U J	NS	39 U	36 U	34 U	36 U	NS
4,4'-DDD	µg/Kg	NS	35 U J	NS	39 U	36 U	34 U	36 U	NS
Endosulfan sulfate	µg/Kg	NS	35 U J	NS	39 U	36 U	34 U	36 U	NS
4,4'-DDT	µg/Kg	NS	35 U J	NS	39 U	36 U	34 U	36 U	NS
Methoxychlor	µg/Kg	NS	170 U J	NS	190 U	180 U	170 U	180 U	NS
Endrin ketone	µg/Kg	NS	35 U J	NS	39 U	36 U	34 U	36 U	NS
Endrin aldehyde	µg/Kg	NS	NS	NS	NS	NS	NS	NS	NS
alpha-Chlordane	µg/Kg	NS	170 U J	NS	190 U	180 U	170 U	180 U	NS
gamma-Chlordane	µg/Kg	NS	170 U J	NS	190 U	180 U	170 U	180 U	NS
Toxaphene	µg/Kg	NS	350 U J	NS	390 U	360 U	340 U	360 U	NS
Aroclor-1016	µg/Kg	NS	170 U J	NS	190 U	180 U	170 U	180 U	NS
Aroclor-1221	µg/Kg	NS	170 U J	NS	190 U	180 U	170 U	180 U	NS
Aroclor-1232	µg/Kg	NS	170 U J	NS	190 U	180 U	170 U	180 U	NS
Aroclor-1242	µg/Kg	NS	170 U J	NS	190 U	180 U	170 U	180 U	NS
Aroclor-1248	µg/Kg	NS	170 U J	NS	190 U	180 U	170 U	180 U	NS
Aroclor-1254	µg/Kg	NS	350 U J	NS	390 U	360 U	340 U	360 U	NS
Aroclor-1260	µg/Kg	NS	230 J	NS	390 U	360 U	340 U	360 U	NS
HERBICIDES									
2,4-D	µg/Kg	NS	54 U J	NS	59 U J	55 U J	54 U J	56 U J	NS
2,4-DB	µg/Kg	NS	54 U J	NS	59 U J	55 U J	54 U J	56 U J	NS
2,4,5-T	µg/Kg	NS	5 U J	NS	6 U J	6 U J	5 U J	6 U J	NS
2,4,5-TP (Silvex)	µg/Kg	NS	5 U J	NS	6 U J	6 U J	5 U J	6 U J	NS
Dalapon	µg/Kg	NS	130 U J	NS	140 U J	130 U J	130 U J	130 U J	NS
Dicamba	µg/Kg	NS	5 U J	NS	6 U J	6 U J	5 U J	6 U J	NS
Dichloroprop	µg/Kg	NS	54 U J	NS	59 U J	55 U J	54 U J	56 U J	NS
Dinoseb	µg/Kg	NS	27 U J	NS	30 U J	28 U J	27 U J	28 U J	NS
MCPA	µg/Kg	NS	5400 U J	NS	5900 U J	5500 U J	5400 U J	5600 U J	NS
MCPP	µg/Kg	NS	5400 U J	NS	5900 U J	5500 U J	5400 U J	5600 U J	NS
METALS									
Aluminum	mg/kg	NS	16600	NS	12700	19800	19300	10900	NS
Antimony	mg/kg	NS	9.3 U J	NS	8.5 U J	10.9 U J	8.4 U J	12.3 J	NS
Arsenic	mg/kg	NS	3.4	NS	5.1	4.4	3.8	7	NS
Barium	mg/kg	NS	49.9	NS	91.1	101	64.8	82.5	NS
Beryllium	mg/kg	NS	0.81 J	NS	0.78 J	1	0.96	0.74 U	NS
Cadmium	mg/kg	NS	3.7 J	NS	1.8	3.2 J	2.9 J	8.2 J	NS
Calcium	mg/kg	NS	12400	NS	26100	27800	43000	74700	NS
Chromium	mg/kg	NS	26.7	NS	15.9	26.6	27.4	28.1	NS
Cobalt	mg/kg	NS	12.6	NS	5.8 J	12.8	13.3	11.2	NS
Copper	mg/kg	NS	16.9	NS	23.4	23.9	19.1	52.1	NS
Iron	mg/kg	NS	31000	NS	16500	32000	31800	86400	NS
Lead	mg/kg	NS	9.8 J	NS	39.8	9.5 J	5.3 J	40.1	NS
Magnesium	mg/kg	NS	8290	NS	10200	8730	11000	24900	NS
Manganese	mg/kg	NS	467	NS	582	634	574	602	NS
Mercury	mg/kg	NS	0.04 U	NS	0.07 J	0.05 J	0.04 U	0.06 J	NS
Nickel	mg/kg	NS	41.8	NS	17.5	35.3	38.6	39.7	NS
Potassium	mg/kg	NS	1310	NS	1960	2970	2540	1610	NS
Selenium	mg/kg	NS	1.6 U J	NS	0.39 U J	0.24 U J	0.35 U J	0.32 U J	NS
Silver	mg/kg	NS	1.4 U J	NS	1.3 U J	1.6 U J	1.3 U J	1.7 U J	NS
Sodium	mg/kg	NS	71.4 U	NS	64.9 U	83.6 U	139 J	99.3 J	NS
Thallium	mg/kg	NS	0.53 U	NS	0.64 U	0.4 U	0.58 U	0.52 U	NS
Vanadium	mg/kg	NS	21	NS	23.8	31	26.4	23.5	NS
Zinc	mg/kg	NS	94.4	NS	58.1	83.3	94.6	244	NS
Cyanide	mg/kg	NS	0.59 U	NS	0.65 U	0.6 U	0.66 U	0.65 U	NS

SENECA ARMY DEPOT, ASH LANDFILL
SOIL ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

COMPOUND	MATRIX	LOCATION	DEPTH	DATE	ES ID	LAB ID	UNITS
	SOIL	B-17	2-4	11/13/91	E(4)	S1113-57	148929
	SOIL	B-17	2-4	11/13/91		S1113-57DL(5)	148929
	SOIL	B-17	4-6	11/13/91		S1113-58	148930
	SOIL	B-17	6-8	11/13/91		S1113-59 (2)	148931
	SOIL	B-18	0-2	11/13/91		S1113-60	148932
	SOIL	B-18	2-4	11/13/91		S1113-61	148933
	SOIL	B-18	4-6	11/13/91		S1113-62	148934
	SOIL	B-19	0-2	11/13/91		S1113-63	148935
VOCs							
Chloromethane	µg/Kg	12 U J	16 U R	12 U	33 U	12 U	11 U	11 U	12 U
Bromomethane	µg/Kg	12 U J	16 U R	12 U	33 U	12 U	11 U	11 U	12 U
Vinyl Chloride	µg/Kg	12 U J	16 U R	12 U	33 U	12 U	11 U	11 U	12 U
Chloroethane	µg/Kg	12 U J	16 U R	12 U	33 U	12 U	11 U	11 U	12 U
Methylene Chloride	µg/Kg	6 U J	6 U R	6 U	7 U	5 U	5 U	5 U	5 U
Acetone	µg/Kg	12 U J	16 U R	15 U	16 U	12 U	11 U	11 U	12 U
Carbon Disulfide	µg/Kg	6 U J	8 U R	6 U	17 U	6 U	5 U	5 U	6 U
1,1-Dichloroethene	µg/Kg	6 U J	6 U R	6 U	17 U	6 U	5 U	5 U	6 U
1,1-Dichloroethane	µg/Kg	6 U J	6 U R	6 U	17 U	6 U	5 U	5 U	6 U
1,2-Dichloroethene (total)	µg/Kg	14 J	13 R	4 J	190	6 U	4 J	5 U	6 U
Chloroform	µg/Kg	6 U J	6 U R	6 U	17 U	6 U	4 J	6	6 U
1,2-Dichloroethane	µg/Kg	6 U J	8 U R	6 U	21	6 U	5 U	5 U	6 U
2-Butanone	µg/Kg	12 U J	16 U R	12 U	33 U	12 U	11 U	11 U	12 U
1,1,1-Trichloroethane	µg/Kg	6 U J	6 U R	6 U	17 U	6 U	3 J	5 U	6 U
Carbon Tetrachloride	µg/Kg	6 U J	8 U R	6 U	17 U	6 U	5 U	5 U	6 U
Vinyl Acetate	µg/Kg	12 U J	16 U R	12 U	33 U	12 U	11 U	11 U	12 U
Bromodichloromethane	µg/Kg	6 U J	8 U R	6 U	17 U	6 U	5 U	5 U	6 U
1,2-Dichloropropane	µg/Kg	6 U J	6 U R	6 U	17 U	6 U	5 U	5 U	6 U
cis-1,3-Dichloropropene	µg/Kg	6 U J	8 U R	6 U	17 U	6 U	5 U	5 U	6 U
Trichloroethene	µg/Kg	260 R	210 J	47	540 J	6 U	5 U	5 U	6 U
Dibromochloromethane	µg/Kg	6 U J	8 U R	6 U	17 U	6 U	5 U	5 U	6 U
1,1,2-Trichloroethane	µg/Kg	6 U J	8 U R	6 U	17 U	6 U	5 U	5 U	6 U
Benzene	µg/Kg	6 U J	8 U R	6 U	17 U	6 U	5 U	5 U	6 U
trans-1,3-Dichloropropene	µg/Kg	6 U J	8 U R	6 U	17 U	6 U	5 U	5 U	6 U
Bromoform	µg/Kg	6 U J	6 U R	6 U	17 U	6 U	5 U	5 U	6 U
4-Methyl-2-Pentanone	µg/Kg	12 U J	16 U R	12 U	33 U	12 U	11 U	11 U	12 U
2-Hexanone	µg/Kg	12 U J	16 U R	12 U	33 U	12 U	11 U	11 U	12 U
Tetrachloroethene	µg/Kg	6 U J	8 U R	6 U	17 U	6 U	6	5 U	6 U
1,1,2,2-Tetrachloroethane	µg/Kg	6 U J	8 U R	6 U	17 U	6 U	5 U	5 U	6 U
Toluene	µg/Kg	5 J	3 R	6 U	17 U	6 U	5 U	5 U	6 U
Chlorobenzene	µg/Kg	6 U J	6 U R	6 U	17 U	6 U	5 U	5 U	6 U
Ethylbenzene	µg/Kg	6 U J	6 U R	6 U	17 U	6 U	5 U	5 U	6 U
Styrene	µg/Kg	6 U J	6 U R	6 U	17 U	6 U	5 U	5 U	6 U
Xylene (total)	µg/Kg	6 U J	8 U R	6 U	17 U	6 U	5 U	5 U	6 U

SENECA ARMY DEPOT, ASH LANDFILL
SOIL ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

	MATRIX		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION		B-17	B-17	B-17	B-17	B-18	B-18	B-18	B-19
	DEPTH		2-4	2-4	4-6	8-8	0-2	2-4	4-6	0-2
	DATE		11/13/91	11/13/91	11/13/91	11/13/91	11/13/91	11/13/91	11/13/91	11/13/91
	ES ID	E(4)	S1113-57	S1113-57DL(5)	S1113-58	S1113-59 (2)	S1113-60	S1113-61	S1113-62	S1113-63
	LAB ID		148929	148929	148930	148931	148932	148933	148934	148935
COMPOUND	UNITS									
VOCs										
SEMIVOLATILES										
Phenol	µg/Kg		790 U	NS	770 U	680 U	740 U	740 U	700 U	780 U
bis(2-Chloroethyl) ether	µg/Kg		790 U	NS	770 U	680 U	740 U	740 U	700 U	780 U
2-Chlorophenol	µg/Kg		790 U	NS	770 U	680 U	740 U	740 U	700 U	780 U
1,3-Dichlorobenzene	µg/Kg		790 U	NS	770 U	680 U	740 U	740 U	700 U	780 U
1,4-Dichlorobenzene	µg/Kg		790 U	NS	770 U	680 U	740 U	740 U	700 U	780 U
Benzyl Alcohol	µg/Kg		790 U	NS	770 U	680 U	740 U	740 U	700 U	780 U
1,2-Dichlorobenzene	µg/Kg		790 U	NS	770 U	680 U	740 U	740 U	700 U	780 U
2-Methylphenol	µg/Kg		790 U	NS	770 U	680 U	740 U	740 U	700 U	780 U
bis(2-Chloroisopropyl) ether	µg/Kg		790 U	NS	770 U	680 U	740 U	740 U	700 U	780 U
4-Methylphenol	µg/Kg		790 U	NS	770 U	680 U	740 U	740 U	700 U	780 U
N-Nitroso-di-n-propylamine	µg/Kg		790 U	NS	770 U	680 U	740 U	740 U	700 U	780 U
Hexachloroethane	µg/Kg		790 U	NS	770 U	680 U	740 U	740 U	700 U	780 U
Nitrobenzene	µg/Kg		790 U	NS	770 U	680 U	740 U	740 U	700 U	780 U
Isophorone	µg/Kg		790 U	NS	770 U	680 U	740 U	740 U	700 U	780 U
2-Nitrophenol	µg/Kg		790 U	NS	770 U	680 U	740 U	740 U	700 U	780 U
2,4-Dimethylphenol	µg/Kg		790 U	NS	770 U	680 U	740 U	740 U	700 U	780 U
Benzoic acid	µg/Kg		3900 U	NS	3700 U	3300 U	3600 U	3800 U	3400 U	3800 U
bis(2-Chloroethoxy) methane	µg/Kg		790 U	NS	770 U	680 U	740 U	740 U	700 U	780 U
2,4-Dichlorophenol	µg/Kg		790 U	NS	770 U	680 U	740 U	740 U	700 U	780 U
1,2,4-Trichlorobenzene	µg/Kg		790 U	NS	770 U	680 U	740 U	740 U	700 U	780 U
Naphthalene	µg/Kg		790 U	NS	770 U	680 U	740 U	740 U	700 U	780 U
4-Chloroaniline	µg/Kg		790 U	NS	770 U	680 U	740 U	740 U	700 U	780 U
Hexachlorobutadiene	µg/Kg		790 U	NS	770 U	680 U	740 U	740 U	700 U	780 U
4-Chloro-3-methylphenol	µg/Kg		790 U	NS	770 U	680 U	740 U	740 U	700 U	780 U
2-Methylnaphthalene	µg/Kg		790 U	NS	770 U	680 U	740 U	740 U	700 U	780 U
Hexachlorocyclopentadiene	µg/Kg		790 U	NS	770 U	680 U	740 U	740 U	700 U	780 U
2,4,6-Trichlorophenol	µg/Kg		790 U	NS	770 U	680 U	740 U	740 U	700 U	780 U
2,4,5-Trichlorophenol	µg/Kg		3900 U	NS	3700 U	3300 U	3600 U	3600 U	3400 U	3800 U
2-Chloronaphthalene	µg/Kg		790 U	NS	770 U	680 U	740 U	740 U	700 U	780 U
2-Nitroaniline	µg/Kg		3900 U	NS	3700 U	3300 U	3600 U	3600 U	3400 U	3800 U
Dimethylphthalate	µg/Kg		790 U	NS	770 U	680 U	740 U	740 U	700 U	780 U
Acenaphthylene	µg/Kg		790 U	NS	770 U	680 U	740 U	740 U	700 U	780 U
2,6-Dinitrotoluene	µg/Kg		790 U	NS	770 U	680 U	740 U	740 U	700 U	780 U
3-Nitroaniline	µg/Kg		3900 U	NS	3700 U	3300 U	3600 U	3600 U	3400 U	3800 U
Acenaphthene	µg/Kg		790 U	NS	770 U	680 U	740 U	740 U	700 U	780 U
2,4-Dinitrophenol	µg/Kg		3900 U	NS	3700 U	3300 U	3600 U	3600 U	3400 U	3800 U
4-Nitrophenol	µg/Kg		3900 U	NS	3700 U	3300 U	3600 U	3600 U	3400 U	3800 U
Dibenzofuran	µg/Kg		790 U	NS	770 U	680 U	740 U	740 U	700 U	780 U
2,4-Dinitrotoluene	µg/Kg		790 U	NS	770 U	680 U	740 U	740 U	700 U	780 U
Diethylphthalate	µg/Kg		790 U	NS	770 U	680 U	740 U	740 U	700 U	780 U
4-Chlorophenyl-phenylether	µg/Kg		790 U	NS	770 U	680 U	740 U	740 U	700 U	780 U
Fluorene	µg/Kg		790 U	NS	770 U	680 U	740 U	740 U	700 U	780 U
4-Nitroaniline	µg/Kg		3900 U	NS	3700 U	3300 U	3600 U	3600 U	3400 U	3800 U
4,6-Dinitro-2-methylphenol	µg/Kg		3900 U	NS	3700 U	3300 U	3600 U	3600 U	3400 U	3800 U
N-Nitrosodiphenylamine (1)	µg/Kg		790 U	NS	770 U	680 U	740 U	740 U	700 U	780 U
4-Bromophenyl-phenylether	µg/Kg		790 U	NS	770 U	680 U	740 U	740 U	700 U	780 U
Hexachlorobenzene	µg/Kg		790 U	NS	770 U	680 U	740 U	740 U	700 U	780 U
Pentachlorophenol	µg/Kg		3900 U	NS	3700 U	3300 U	3600 U	3600 U	3400 U	3800 U
Phenanthrene	µg/Kg		790 U	NS	770 U	680 U	740 U	740 U	700 U	780 U
Anthracene	µg/Kg		790 U	NS	770 U	680 U	740 U	740 U	700 U	780 U
Carbazole	µg/Kg		NS	NS	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate	µg/Kg		790 U	NS	770 U	680 U	740 U	740 U	700 U	780 U
Fluoranthene	µg/Kg		790 U	NS	770 U	680 U	740 U	740 U	700 U	780 U
Pyrene	µg/Kg		790 U	NS	770 U	680 U	740 U	740 U	700 U	780 U
Butylbenzylphthalate	µg/Kg		790 U	NS	770 U	680 U	740 U	740 U	700 U	780 U
3,3'-Dichlorobenzidine	µg/Kg		1600 U	NS	1500 U	1400 U	1500 U	1500 U	1400 U	1600 U
Benzo(a)anthracene	µg/Kg		790 U	NS	770 U	680 U	740 U	740 U	700 U	780 U
Chrysene	µg/Kg		790 U	NS	770 U	680 U	740 U	740 U	700 U	780 U
bis(2-Ethylhexyl)phthalate	µg/Kg		790 U	NS	770 U	680 U	740 U	400 J	110 J	780 U
Di-n-octylphthalate	µg/Kg		790 U	NS	770 U	680 U	740 U	740 U	700 U	780 U
Benzo(b)fluoranthene	µg/Kg		790 U	NS	770 U	680 U	740 U	740 U	700 U	780 U
Benzo(k)fluoranthene	µg/Kg		790 U	NS	770 U	680 U	740 U	740 U	700 U	780 U
Benzo(a)pyrene	µg/Kg		790 U	NS	770 U	680 U	740 U	740 U	700 U	780 U
Indeno(1,2,3-cd)pyrene	µg/Kg		790 U	NS	770 U	680 U	740 U	740 U	700 U	780 U
Dibenz(a,h)anthracene	µg/Kg		790 U	NS	770 U	680 U	740 U	740 U	700 U	780 U
Benzo(g,h,i)perylene	µg/Kg		790 U	NS	770 U	680 U	740 U	740 U	700 U	780 U

SENECA ARMY DEPOT, ASH LANDFILL
SOIL ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

COMPOUND	MATRIX																	
	LOCATION	SOIL		B-17	SOIL	B-17	SOIL	B-17	SOIL	B-17	SOIL	B-18	SOIL	B-18	SOIL	B-18	SOIL	B-19
	DEPTH			2-4		2-4		4-6		6-8		0-2		2-4		4-6		0-2
	DATE			11/13/91		11/13/91		11/13/91		11/13/91		11/13/91		11/13/91		11/13/91		11/13/91
	ES ID	E(4)		S1113-57		S1113-57DL(5)		S1113-58		S1113-59 (2)		S1113-60		S1113-61		S1113-62		S1113-63
	LAB ID			148929		148929		148930		148931		148932		148933		148934		148935
	UNITS																	
VOCs																		
PESTICIDES/PCBs																		
alpha-BHC	µg/Kg		19	U	NS		19	U	17	U	18	U	18	U	17	U	19	U
beta-BHC	µg/Kg		19	U	NS		19	U	17	U	18	U	18	U	17	U	19	U
delta-BHC	µg/Kg		19	U	NS		19	U	17	U	18	U	18	U	17	U	19	U
gamma-BHC (Lindane)	µg/Kg		19	U	NS		19	U	17	U	18	U	18	U	17	U	19	U
Heptachlor	µg/Kg		19	U	NS		19	U	17	U	18	U	18	U	17	U	19	U
Aldrin	µg/Kg		19	U	NS		19	U	17	U	18	U	18	U	17	U	19	U
Heptachlor epoxide	µg/Kg		19	U	NS		19	U	17	U	18	U	18	U	17	U	19	U
Endosulfan I	µg/Kg		19	U	NS		19	U	17	U	18	U	18	U	17	U	19	U
Dieldrin	µg/Kg		39	U	NS		37	U	33	U	36	U	36	U	34	U	38	U
4,4'-DDE	µg/Kg		39	U	NS		37	U	33	U	36	U	36	U	34	U	38	U
Endrin	µg/Kg		39	U	NS		37	U	33	U	36	U	36	U	34	U	38	U
Endosulfan II	µg/Kg		39	U	NS		37	U	33	U	36	U	36	U	34	U	38	U
4,4'-DDD	µg/Kg		39	U	NS		37	U	33	U	36	U	36	U	34	U	38	U
Endosulfan sulfate	µg/Kg		39	U	NS		37	U	33	U	36	U	36	U	34	U	38	U
4,4'-DDT	µg/Kg		39	U	NS		37	U	33	U	36	U	36	U	34	U	38	U
Methoxychlor	µg/Kg		190	U	NS		190	U	170	U	180	U	180	U	170	U	190	U
Endrin ketone	µg/Kg		39	U	NS		37	U	33	U	36	U	36	U	34	U	38	U
Endrin aldehyde	µg/Kg		NS		NS		NS		NS		NS		NS		NS		NS	
alpha-Chlordane	µg/Kg		190	U	NS		190	U	170	U	180	U	180	U	170	U	190	U
gamma-Chlordane	µg/Kg		190	U	NS		190	U	170	U	180	U	180	U	170	U	190	U
Toxaphene	µg/Kg		390	U	NS		370	U	330	U	360	U	360	U	340	U	380	U
Aroclor-1016	µg/Kg		190	U	NS		190	U	170	U	180	U	180	U	170	U	190	U
Aroclor-1221	µg/Kg		190	U	NS		190	U	170	U	180	U	180	U	170	U	190	U
Aroclor-1232	µg/Kg		190	U	NS		190	U	170	U	180	U	180	U	170	U	190	U
Aroclor-1242	µg/Kg		190	U	NS		190	U	170	U	180	U	180	U	170	U	190	U
Aroclor-1248	µg/Kg		190	U	NS		190	U	170	U	180	U	180	U	170	U	190	U
Aroclor-1254	µg/Kg		390	U	NS		370	U	330	U	360	U	360	U	340	U	380	U
Aroclor-1260	µg/Kg		390	U	NS		370	U	330	U	360	U	360	U	340	U	380	U
HERBICIDES																		
2,4-D	µg/Kg		60	U J	NS		60	U J	53	U J	56	U J	57	U J	53	U J	60	U J
2,4-DB	µg/Kg		60	U J	NS		60	U J	53	U J	56	U J	57	U J	53	U J	60	U J
2,4,5-T	µg/Kg		6	U J	NS		6	U J	5	U J	6	U J	6	U J	5	U J	6	U J
2,4,5-TP (Silvex)	µg/Kg		6	U J	NS		6	U J	5	U J	6	U J	6	U J	5	U J	6	U J
Dalapon	µg/Kg		150	U J	NS		140	U J	130	U J	140	U J	140	U J	130	U J	140	U J
Dicamba	µg/Kg		6	U J	NS		6	U J	5	U J	6	U J	6	U J	5	U J	6	U J
Dichloroprop	µg/Kg		60	U J	NS		60	U J	53	U J	56	U J	57	U J	53	U J	60	U J
Dinoseb	µg/Kg		30	U J	NS		30	U J	28	U J	28	U J	29	U J	26	U J	30	U J
MCPA	µg/Kg		6000	U J	NS		6000	U J	5300	U J	5600	U J	5700	U J	5300	U J	6000	U J
MCPP	µg/Kg		6000	U J	NS		6000	U J	5300	U J	5600	U J	5700	U J	5300	U J	6000	U J
METALS																		
Aluminum	mg/kg		18700		NS		16800		15100		22600		21100		22300		16600	
Antimony	mg/kg		10.3	U J	NS		6.6	U J	10.6	U J	8	U J	8.6	U J	8.7	J	10.6	U J
Arsenic	mg/kg		5.5		NS		4.6		4.6		5.1		5.8		6.5		5.9	
Barium	mg/kg		157		NS		73.5		40.1		85.8		59.9		59.7		89.9	
Beryllium	mg/kg		1.1		NS		0.88		0.81	J	1.1		0.95		1		1	
Cadmium	mg/kg		3.7	J	NS		2.9	J	3		4		4.1		4.2		3.7	
Calcium	mg/kg		20500		NS		13200		58100		6180		3100		30000		3440	
Chromium	mg/kg		31.6		NS		26.5		22.4		30.4		30.5		31.9		26	
Cobalt	mg/kg		13.1		NS		10.6		11.3		16		15.7		16.3		11	
Copper	mg/kg		48.7		NS		20.2		12.9		24.6	J	15.8	J	18.4	J	22.5	J
Iron	mg/kg		34600		NS		30200		26700		34500		36700		37800		33300	
Lead	mg/kg		106		NS		12.8		5.2	J	8.9	J	4.6	J	4.9	J	13.7	J
Magnesium	mg/kg		9340		NS		8270		6750		6440		7790		8260		5460	
Manganese	mg/kg		1090		NS		400		677		666		522		615		517	
Mercury	mg/kg		0.11		NS		0.05	U	0.04	U	0.06	J	0.04	U	0.04	U	0.05	J
Nickel	mg/kg		37.2		NS		39.2		33.7		41.8		46.5		46.5		37.3	
Potassium	mg/kg		2750		NS		1610		1630		2870		1850		2450		1240	
Selenium	mg/kg		0.34	U J	NS		0.26	U J	0.31	U J	0.29	U J	0.32	U J	0.27	U J	0.29	U J
Silver	mg/kg		1.5	U J	NS		0.99	U J	1.6	U	1.2	U	1.3	U	1.2	U	1.6	U
Sodium	mg/kg		78.9	U	NS		50.7	U	242	J	105	J	99.9	J	176	J	85.7	J
Thallium	mg/kg		0.56	U	NS		0.43	U	0.51	U	0.48	U	0.52	U	0.44	U	0.48	U
Vanadium	mg/kg		30.8		NS		24.3		19.8		29		24.5		27		25	
Zinc	mg/kg		1710		NS		253		67.2		113		98.8		102		90.7	
Cyanide	mg/kg		0.64	U	NS		0.59	U	0.52	U	0.66	U	0.65	U	0.64	U	0.66	U

SENECA ARMY DEPOT, ASH LANDFILL
SOIL ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	B-19	B-19	B-20	B-20	B-20	B-20	B-21	B-21
	DEPTH	2-4	4-6	0-2	2-4	2-4	4-6	0-2	2-4
	DATE	11/13/91	11/13/91	11/14/91	11/14/91	11/14/91	11/14/91	11/14/91	11/14/91
	ES ID	S1113-64	S1113-65	S1114-66	S1114-67	S1114-67D	S1114-68	S1114-69	S1114-70
	LAB ID	148936	148937	149176	149177	149177	149178	149179	149180
COMPOUND	UNITS								
VOCs									
Chloromethane	µg/Kg	12 U	11 U	12 U	11 U	NS	11 U	12 U	12 U
Bromomethane	µg/Kg	12 U	11 U	12 U	11 U	NS	11 U	12 U	12 U
Vinyl Chloride	µg/Kg	12 U	11 U	12 U	11 U	NS	11 U	12 U	12 U
Chloroethane	µg/Kg	12 U	11 U	12 U	11 U	NS	11 U	12 U	12 U
Methylene Chloride	µg/Kg	9 U	5 U	6 U	6 U	NS	5 U	6 U	6 U
Acetone	µg/Kg	12 U	11 U	12 U	11 U	NS	11 U	31 U	12 U
Carbon Disulfide	µg/Kg	6 U	5 U	6 U	6 U	NS	5 U	6 U	6 U
1,1-Dichloroethene	µg/Kg	6 U	5 U	6 U	6 U	NS	5 U	6 U	6 U
1,1-Dichloroethane	µg/Kg	6 U	5 U	6 U	6 U	NS	5 U	6 U	6 U
1,2-Dichloroethene (total)	µg/Kg	6 U	5 U	6 U	6 U	NS	5 U	6 U	6 U
Chloroform	µg/Kg	1 J	5 U	6 U	6 U	NS	5 U	6 U	6 U
1,2-Dichloroethane	µg/Kg	6 U	5 U	6 U	6 U	NS	5 U	6 U	6 U
2-Butanone	µg/Kg	10 J	11 U	12 U	11 U	NS	11 U	12 U	12 U
1,1,1-Trichloroethane	µg/Kg	6 U	5 U	6 U	6 U	NS	5 U	6 U	6 U
Carbon Tetrachloride	µg/Kg	6 U	5 U	6 U	6 U	NS	5 U	6 U	6 U
Vinyl Acetate	µg/Kg	12 U	11 U	12 U	11 U	NS	11 U	12 U	12 U
Bromodichloromethane	µg/Kg	6 U	5 U	6 U	6 U	NS	5 U	6 U	6 U
1,2-Dichloropropane	µg/Kg	6 U	5 U	6 U	6 U	NS	5 U	6 U	6 U
cis-1,3-Dichloropropene	µg/Kg	6 U	5 U	6 U	6 U	NS	5 U	6 U	6 U
Trichloroethene	µg/Kg	1 J	5 U	6 U	2 J	NS	5 U	6 U	6 U
Dibromochloromethane	µg/Kg	6 U	5 U	6 U	6 U	NS	5 U	6 U	6 U
1,1,2-Trichloroethane	µg/Kg	6 U	5 U	6 U	6 U	NS	5 U	6 U	6 U
Benzene	µg/Kg	2 J	5 U	6 U	6 U	NS	5 U	6 U	6 U
trans-1,3-Dichloropropene	µg/Kg	6 U	5 U	6 U	6 U	NS	5 U	6 U	6 U
Bromoform	µg/Kg	6 U	5 U	6 U	6 U	NS	5 U	6 U	6 U
4-Methyl-2-Pentanone	µg/Kg	12 U	11 U	12 U	11 U	NS	11 U	12 U	12 U
2-Hexanone	µg/Kg	12 U	11 U	12 U	11 U	NS	11 U	12 U	12 U
Tetrachloroethene	µg/Kg	6 U	5 U	6 U	6 U	NS	5 U	6 U	6 U
1,1,2,2-Tetrachloroethane	µg/Kg	6 U	5 U	6 U	6 U	NS	5 U	6 U	6 U
Toluene	µg/Kg	15	5 U	6 U	6 U	NS	5 U	6 U	6 U
Chlorobenzene	µg/Kg	6 U	5 U	6 U	6 U	NS	5 U	6 U	6 U
Ethylbenzene	µg/Kg	4 J	5 U	6 U	6 U	NS	5 U	6 U	6 U
Styrene	µg/Kg	6 U	5 U	6 U	6 U	NS	5 U	6 U	6 U
Xylene (total)	µg/Kg	18	5 U	6 U	6 U	NS	5 U	6 U	6 U

SENECA ARMY DEPOT, ASH LANDFILL
SOIL ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

COMPOUND	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	B-19	B-19	B-20	B-20	B-20	B-20	B-21	B-21
	DEPTH	2-4	4-6	0-2	2-4	2-4	4-6	0-2	2-4
	DATE	11/13/91	11/13/91	11/14/91	11/14/91	11/14/91	11/14/91	11/14/91	11/14/91
	ES ID	S1113-64	S1113-65	S1114-66	S1114-67	S1114-67D	S1114-68	S1114-69	S1114-70
	LAB ID	148938	148937	149176	149177	149177	149178	149179	149180
	UNITS								
VOCs									
SEMIVOLATILES									
Phenol	µg/Kg	730 U	760 U	780 U	750 U	NS	740 U	780 U	770 U
bis(2-Chloroethyl) ether	µg/Kg	9 J	760 U	780 U	750 U	NS	740 U	780 U	770 U
2-Chlorophenol	µg/Kg	730 U	760 U	780 U	750 U	NS	740 U	780 U	770 U
1,3-Dichlorobenzene	µg/Kg	730 U	760 U	780 U	750 U	NS	740 U	780 U	770 U
1,4-Dichlorobenzene	µg/Kg	730 U	760 U	780 U	750 U	NS	740 U	780 U	770 U
Benzyl Alcohol	µg/Kg	730 U	760 U	780 U	750 U	NS	740 U	780 U	770 U
1,2-Dichlorobenzene	µg/Kg	730 U	760 U	780 U	750 U	NS	740 U	780 U	770 U
2-Methylphenol	µg/Kg	730 U	760 U	780 U	750 U	NS	740 U	780 U	770 U
bis(2-Chloroisopropyl) ether	µg/Kg	730 U	760 U	780 U	750 U	NS	740 U	780 U	770 U
4-Methylphenol	µg/Kg	730 U	760 U	780 U	750 U	NS	740 U	780 U	770 U
N-Nitroso-di-n-propylamine	µg/Kg	730 U	760 U	780 U	750 U	NS	740 U	780 U	770 U
Hexachloroethane	µg/Kg	730 U	760 U	780 U	750 U	NS	740 U	780 U	770 U
Nitrobenzene	µg/Kg	730 U	760 U	780 U	750 U	NS	740 U	780 U	770 U
Isophorone	µg/Kg	730 U	760 U	780 U	750 U	NS	740 U	780 U	770 U
2-Nitrophenol	µg/Kg	730 U	760 U	780 U	750 U	NS	740 U	780 U	770 U
2,4-Dimethylphenol	µg/Kg	730 U	760 U	780 U	750 U	NS	740 U	780 U	770 U
Benzoic acid	µg/Kg	3500 U	3700 U	3800 U	3600 U	NS	3600 U	3800 U	3700 U
bis(2-Chloroethoxy) methane	µg/Kg	730 U	760 U	780 U	750 U	NS	740 U	780 U	770 U
2,4-Dichlorophenol	µg/Kg	730 U	760 U	780 U	750 U	NS	740 U	780 U	770 U
1,2,4-Trichlorobenzene	µg/Kg	730 U	760 U	780 U	750 U	NS	740 U	780 U	770 U
Naphthalene	µg/Kg	730 U	760 U	780 U	750 U	NS	740 U	780 U	770 U
4-Chloroaniline	µg/Kg	730 U	760 U	780 U	750 U	NS	740 U	780 U	770 U
Hexachlorobutadiene	µg/Kg	730 U	760 U	780 U	750 U	NS	740 U	780 U	770 U
4-Chloro-3-methylphenol	µg/Kg	730 U	760 U	780 U	750 U	NS	740 U	780 U	770 U
2-Methylnaphthalene	µg/Kg	88 J	760 U	780 U	750 U	NS	740 U	780 U	770 U
Hexachlorocyclopentadiene	µg/Kg	730 U	760 U	780 U	750 U	NS	740 U	780 U	770 U
2,4,6-Trichlorophenol	µg/Kg	730 U	760 U	780 U	750 U	NS	740 U	780 U	770 U
2,4,5-Trichlorophenol	µg/Kg	3500 U	3700 U	3800 U	3600 U	NS	3600 U	3800 U	3700 U
2-Chloronaphthalene	µg/Kg	730 U	760 U	780 U	750 U	NS	740 U	780 U	770 U
2-Nitroaniline	µg/Kg	3500 U	3700 U	3800 U	3600 U	NS	3600 U	3800 U	3700 U
Dimethylphthalate	µg/Kg	730 U	760 U	780 U	750 U	NS	740 U	780 U	770 U
Acenaphthylene	µg/Kg	730 U	760 U	780 U	750 U	NS	740 U	780 U	770 U
2,6-Dinitrotoluene	µg/Kg	730 U	760 U	780 U	750 U	NS	740 U	780 U	770 U
3-Nitroaniline	µg/Kg	3500 U	3700 U	3800 U	3600 U	NS	3600 U	3800 U	3700 U
Acenaphthene	µg/Kg	6 J	760 U	780 U	750 U	NS	740 U	220 J	770 U
2,4-Dinitrophenol	µg/Kg	3500 U	3700 U	3800 U	3600 U	NS	3600 U	3800 U	3700 U
4-Nitrophenol	µg/Kg	3500 U	3700 U	3800 U	3600 U	NS	3600 U	3800 U	3700 U
Dibenzofuran	µg/Kg	730 U	760 U	780 U	750 U	NS	740 U	780 U	770 U
2,4-Dinitrotoluene	µg/Kg	730 U	760 U	780 U	750 U	NS	740 U	780 U	770 U
Diethylphthalate	µg/Kg	730 U	760 U	780 U	750 U	NS	740 U	780 U	770 U
4-Chlorophenyl-phenylether	µg/Kg	730 U	760 U	780 U	750 U	NS	740 U	780 U	770 U
Fluorene	µg/Kg	730 U	760 U	780 U	750 U	NS	740 U	160 J	770 U
4-Nitroaniline	µg/Kg	3500 U	3700 U	3800 U	3600 U	NS	3600 U	3800 U	3700 U
4,6-Dinitro-2-methylphenol	µg/Kg	3500 U	3700 U	3800 U	3600 U	NS	3600 U	3800 U	3700 U
N-Nitrosodiphenylamine (1)	µg/Kg	730 U	760 U	780 U	750 U	NS	740 U	780 U	770 U
4-Bromophenyl-phenylether	µg/Kg	730 U	760 U	780 U	750 U	NS	740 U	780 U	770 U
Hexachlorobenzene	µg/Kg	730 U	760 U	780 U	750 U	NS	740 U	780 U	770 U
Pentachlorophenol	µg/Kg	3500 U	3700 U	3800 U	3600 U	NS	3600 U	3800 U	3700 U
Phenanthrene	µg/Kg	730 U	760 U	290 J	750 U	NS	740 U	1700	770 U
Anthracene	µg/Kg	730 U	760 U	84 J	750 U	NS	740 U	460 J	770 U
Carbazole	µg/Kg	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate	µg/Kg	730 U	760 U	88 J	750 U	NS	740 U	780 U	770 U
Fluoranthene	µg/Kg	730 U	760 U	270 J	750 U	NS	740 U	2000	770 U
Pyrene	µg/Kg	730 U	760 U	300 J	750 U	NS	740 U	2100	770 U
Butylbenzylphthalate	µg/Kg	730 U	760 U	780 U	750 U	NS	740 U	780 U	770 U
3,3'-Dichlorobenzidine	µg/Kg	1500 U	1500 U	1600 U	1500 U	NS	1500 U	1600 U	1500 U
Benzo(a)anthracene	µg/Kg	730 U	760 U	150 J	750 U	NS	740 U	830	770 U
Chrysene	µg/Kg	730 U	760 U	160 J	750 U	NS	740 U	880	770 U
bis(2-Ethylhexyl)phthalate	µg/Kg	730 U	88 J	780 U	750 U	NS	740 U	630 J	770 U
Di-n-octylphthalate	µg/Kg	730 U	760 U	780 U	750 U	NS	740 U	780 U	770 U
Benzo(b)fluoranthene	µg/Kg	730 U	760 U	93 J	750 U	NS	740 U	670 J	770 U
Benzo(k)fluoranthene	µg/Kg	730 U	760 U	160 J	750 U	NS	740 U	700 J	770 U
Benzo(a)pyrene	µg/Kg	730 U	760 U	120 J	750 U	NS	740 U	760 J	770 U
Indeno(1,2,3-cd)pyrene	µg/Kg	730 U	760 U	780 U	750 U	NS	740 U	350 J	770 U
Dibenz(a,h)anthracene	µg/Kg	730 U	760 U	780 U	750 U	NS	740 U	780 U	770 U
Benzo(g,h,i)perylene	µg/Kg	730 U	760 U	780 U	750 U	NS	740 U	370 J	770 U

SENECA ARMY DEPOT, ASH LANDFILL
SOIL ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

COMPOUND	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	B-19	B-19	B-20	B-20	B-20	B-20	B-21	B-21
	DEPTH	2-4	4-6	0-2	2-4	2-4	4-6	0-2	2-4
	DATE	11/13/91	11/13/91	11/14/91	11/14/91	11/14/91	11/14/91	11/14/91	11/14/91
	ES ID	S1113-64	S1113-65	S1114-66	S1114-67	S1114-67D	S1114-68	S1114-69	S1114-70
	LAB ID	148938	148937	149176	149177	149177	149178	149179	149180
	UNITS								
VOCs									
PESTICIDES/PCBs									
alpha-BHC	µg/Kg	18 U	18 U	19 U	18 U	90 U R	18 U	19 U	19 U
beta-BHC	µg/Kg	15 U	18 U	19 U	18 U	90 U R	18 U	19 U	19 U
delta-BHC	µg/Kg	18 U	18 U	19 U	18 U	90 U R	18 U	19 U	19 U
gamma-BHC (Lindane)	µg/Kg	18 U	18 U	19 U	18 U	90 U R	18 U	19 U	19 U
Heptachlor	µg/Kg	18 U	18 U	19 U	18 U	90 U R	18 U	19 U	19 U
Aldrin	µg/Kg	18 U	18 U	19 U	18 U	90 U R	18 U	19 U	19 U
Heptachlor epoxide	µg/Kg	18 U	18 U	19 U	18 U	90 U R	18 U	19 U	19 U
Endosulfan I	µg/Kg	18 U	18 U	19 U	18 U	90 U R	18 U	19 U	19 U
Dieldrin	µg/Kg	35 U	37 U	38 U	36 U	180 U R	36 U	38 U	37 U
4,4'-DDE	µg/Kg	35 U	37 U	26 J	190 R	140 J	18 J	38 U	37 U
Endrin	µg/Kg	35 U	37 U	38 U	36 U	180 U R	36 U	38 U	37 U
Endosulfan II	µg/Kg	35 U	37 U	38 U	36 U	180 U R	36 U	38 U	37 U
4,4'-DDD	µg/Kg	35 U	37 U	36 U	36 U	180 U R	38 U	38 U	37 U
Endosulfan sulfate	µg/Kg	35 U	37 U	38 U	36 U	180 U R	36 U	38 U	37 U
4,4'-DDT	µg/Kg	35 U	37 U	38 U	29 J	180 U R	36 U	38 U	37 U
Methoxychlor	µg/Kg	180 U	180 U	190 U	180 U	900 U R	180 U	190 U	190 U
Endrin ketone	µg/Kg	35 U	37 U	38 U	36 U	180 U R	36 U	38 U	37 U
Endrin aldehyde	µg/Kg	NS	NS	NS	NS	NS	NS	NS	NS
alpha-Chlordane	µg/Kg	180 U	180 U	190 U	180 U	900 U R	180 U	190 U	190 U
gamma-Chlordane	µg/Kg	180 U	180 U	190 U	180 U	900 U R	180 U	190 U	190 U
Toxaphene	µg/Kg	350 U	370 U	380 U	360 U	1800 U R	360 U	380 U	370 U
Aroclor-1016	µg/Kg	180 U	180 U	190 U	180 U	900 U R	180 U	190 U	190 U
Aroclor-1221	µg/Kg	180 U	180 U	190 U	180 U	900 U R	180 U	190 U	190 U
Aroclor-1232	µg/Kg	180 U	180 U	190 U	180 U	900 U R	180 U	190 U	190 U
Aroclor-1242	µg/Kg	180 U	180 U	190 U	180 U	900 U R	180 U	190 U	190 U
Aroclor-1248	µg/Kg	180 U	180 U	190 U	180 U	900 U R	180 U	190 U	190 U
Aroclor-1254	µg/Kg	350 U	370 U	380 U	360 U	1800 U R	360 U	380 U	370 U
Aroclor-1260	µg/Kg	350 U	370 U	380 U	360 U	1800 U R	360 U	380 U	370 U
HERBICIDES									
2,4-D	µg/Kg	56 U J	59 U J	60 U J	57 U J	NS	56 U J	58 U J	57 U J
2,4-DB	µg/Kg	56 U J	59 U J	60 U J	57 U J	NS	56 U J	58 U J	57 U J
2,4,5-T	µg/Kg	6 U J	6 U J	6 U J	6 U J	NS	6 U J	6 U J	6 U J
2,4,5-TP (Silvex)	µg/Kg	6 U J	6 U J	6 U J	6 U J	NS	6 U J	6 U J	6 U J
Dalapon	µg/Kg	140 U J	140 U J	140 U J	140 U J	NS	130 U J	140 U J	140 U J
Dicamba	µg/Kg	6 U J	6 U J	6 U J	6 U J	NS	6 U J	6 U J	6 U J
Dichloroprop	µg/Kg	56 U J	59 U J	60 U J	57 U J	NS	56 U J	58 U J	57 U J
Dinoseb	µg/Kg	28 U J	29 U J	30 U J	29 U J	NS	28 U J	29 U J	29 U J
MCPA	µg/Kg	5600 U J	5900 U J	6000 U J	5700 U J	NS	5600 U J	5800 U J	5700 U J
MCPP	µg/Kg	5600 U J	5900 U J	6000 U J	5700 U J	NS	5600 U J	5800 U J	5700 U J
METALS									
Aluminum	mg/kg	21600	19500	13200	20300	NS	19900	19400	21300
Antimony	mg/kg	11 U J	10.3 U J	10.6 U J	10.6 U J	NS	7.5 U J	9.8 U J	7.8 U J
Arsenic	mg/kg	4.8	5.2	4.9	4.5	NS	4	4.8	4.8
Barium	mg/kg	81.7	90.7	74.5	90.7	NS	62.8	110	75.9
Beryllium	mg/kg	1.1	1	0.8 J	1.1	NS	1	0.99	1.1
Cadmium	mg/kg	4	3.8	2.6	4	NS	4	3.3	4.8
Calcium	mg/kg	9750	18000	123000	32500	NS	35500	38300	7850
Chromium	mg/kg	34.8	29.8	17.5	29.8	NS	29.8	28	33.4
Cobalt	mg/kg	16.9	16.5	6.9 J	15.5	NS	14.3	13.9	17.8
Copper	mg/kg	18.3 J	22.8 J	26.5 J	26.1 J	NS	19.8 J	26 J	21.8 J
Iron	mg/kg	40300	38300	19900	36800	NS	35500	31600	41500
Lead	mg/kg	7.4 J	8.6 J	18.4	26.3	NS	6.2 J	15.7	8.2 J
Magnesium	mg/kg	8050	6890	24100	8010	NS	7890	9500	7720
Manganese	mg/kg	918	947	681	1080	NS	920	1460	924
Mercury	mg/kg	0.04 U	0.07 J	0.05 J	0.04 U	NS	0.05 U	0.31	0.04 U
Nickel	mg/kg	53.2	45.7	20.1	43.6	NS	43.5	41.1	52.2
Potassium	mg/kg	2110	1860	2050	2310	NS	2070	2300	1630
Selenium	mg/kg	0.36 U J	0.29 U J	0.37 U J	0.23 U J	NS	0.28 U J	0.32 U J	0.34 U J
Silver	mg/kg	1.6 U	1.5 U	1.6 U	1.6 U	NS	1.1 U	1.5 U	1.1 U
Sodium	mg/kg	122 J	126 J	150 J	115 J	NS	162 J	133 J	101 J
Thallium	mg/kg	0.6 U	0.48 U	0.61 U	0.38 U	NS	0.45 U	0.53 U	0.56 U
Vanadium	mg/kg	27.2	26.3	22.2	29.3	NS	24.8	27.9	26.4
Zinc	mg/kg	86.1	88.9	130	273	NS	104	335	92.2
Cyanide	mg/kg	0.64 U	0.68 U	0.67 U	0.63	NS	0.63 U	0.58 U	0.67 U

SENECA ARMY DEPOT, ASH LANDFILL
SOIL ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

COMPOUND	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	B-21	B-21	B-22	B-22	B-22	B-23	B-23	B-23	B-23	B-24
	DEPTH	2-4	4-6	0-2	2-4	4-6	0-2	2-4	4-6	0-2	0-2
	DATE	11/14/91	11/14/91	12/02/91	12/02/91	12/02/91	12/02/91	12/02/91	12/02/91	12/03/91	12/03/91
	ES ID	S1114-71 (1)	S1114-72	S1202-73 (3)	S1202-74 (4)	S1202-75(3	S1202-76	S1202-77	S1202-78	S1203-79 (3)	S1203-79 (3)
	LAB ID	149181	149182	150016	150017	150016	150019	150020	150021	150022	150022
	UNITS										
VOCs											
Chloromethane	µg/Kg	11 U	11 U	12 U	10 U	11 U	12 U	11 U	11 U	13 U	13 U
Bromomethane	µg/Kg	11 U	11 U	12 U	10 U	11 U	12 U	11 U	11 U	13 U	13 U
Vinyl Chloride	µg/Kg	11 U	11 U	12 U	10 U	11 U	12 U	11 U	11 U	13 U	13 U
Chloroethane	µg/Kg	11 U	11 U	12 U	10 U	11 U	12 U	11 U	11 U	13 U	13 U
Methylene Chloride	µg/Kg	6 U	5 U	6 U	5 U	5 U	6 U	5 U	6 U	6 U	6 U
Acetone	µg/Kg	11 U	11 U	12 U	11 U	11 U	12 U	13 U	12 U	13 U	13 U
Carbon Disulfide	µg/Kg	6 U	5 U	6 U	5 U	5 U	6 U	5 U	6 U	6 U	6 U
1,1-Dichloroethene	µg/Kg	6 U	5 U	6 U	5 U	5 U	6 U	5 U	6 U	6 U	6 U
1,1-Dichloroethane	µg/Kg	6 U	5 U	6 U	5 U	5 U	6 U	5 U	6 U	6 U	6 U
1,2-Dichloroethene (total)	µg/Kg	6 U	5 U	6 U	5 U	5 U	6 U	5 U	6 U	6 U	6 U
Chloroform	µg/Kg	6 U	5 U	6 U	5 U	5 U	6 U	5 U	6 U	6 U	6 U
1,2-Dichloroethane	µg/Kg	6 U	5 U	6 U	5 U	5 U	6 U	5 U	6 U	6 U	6 U
2-Butanone	µg/Kg	11 U	11 U	12 U	10 U	11 U	12 U	11 U	11 U	13 U	13 U
1,1,1-Trichloroethane	µg/Kg	6 U	5 U	6 U	5 U	5 U	6 U	5 U	6 U	6 U	6 U
Carbon Tetrachloride	µg/Kg	6 U	5 U	6 U	5 U	5 U	6 U	5 U	6 U	6 U	6 U
Vinyl Acetate	µg/Kg	11 U	11 U	12 U	10 U	11 U	12 U	11 U	11 U	13 U	13 U
Bromodichloromethane	µg/Kg	6 U	5 U	6 U	5 U	5 U	6 U	5 U	6 U	6 U	6 U
1,2-Dichloropropane	µg/Kg	6 U	5 U	6 U	5 U	5 U	6 U	5 U	6 U	6 U	6 U
cis-1,3-Dichloropropene	µg/Kg	6 U	5 U	6 U	5 U	5 U	6 U	5 U	6 U	6 U	6 U
Trichloroethene	µg/Kg	6 U	5 U	6 U	5 U	5 U	6 U	5 U	6 U	6 U	6 U
Dibromochloromethane	µg/Kg	6 U	5 U	6 U	5 U	5 U	6 U	5 U	6 U	6 U	6 U
1,1,2-Trichloroethane	µg/Kg	6 U	5 U	6 U	5 U	5 U	6 U	5 U	6 U	6 U	6 U
Benzene	µg/Kg	6 U	5 U	6 U	5 U	5 U	6 U	5 U	6 U	6 U	6 U
trans-1,3-Dichloropropene	µg/Kg	6 U	5 U	6 U	5 U	5 U	6 U	5 U	6 U	6 U	6 U
Bromoform	µg/Kg	6 U	5 U	6 U	5 U	5 U	6 U	5 U	6 U	6 U	6 U
4-Methyl-2-Pentanone	µg/Kg	11 U	11 U	12 U	10 U	11 U	12 U	11 U	11 U	13 U	13 U
2-Hexanone	µg/Kg	11 U	11 U	12 U	10 U	11 U	12 U	11 U	11 U	13 U	13 U
Tetrachloroethene	µg/Kg	6 U	5 U	6 U	5 U	5 U	6 U	5 U	6 U	6 U	6 U
1,1,2,2-Tetrachloroethane	µg/Kg	6 U	5 U	6 U	5 U	5 U	6 U	5 U	6 U	6 U	6 U
Toluene	µg/Kg	6 U	5 U	6 U	5 U	5 U	6 U	5 U	6 U	6 U	6 U
Chlorobenzene	µg/Kg	6 U	5 U	6 U	5 U	5 U	6 U	5 U	6 U	6 U	6 U
Ethylbenzene	µg/Kg	6 U	5 U	6 U	5 U	5 U	6 U	5 U	6 U	6 U	6 U
Styrene	µg/Kg	6 U	5 U	6 U	5 U	5 U	6 U	5 U	6 U	6 U	6 U
Xylene (total)	µg/Kg	6 U	5 U	6 U	5 U	5 U	6 U	5 U	6 U	6 U	6 U

SENECA ARMY DEPOT, ASH LANDFILL
SOIL ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

COMPOUND	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	B-21	B-21	B-22	B-22	B-22	B-23	B-23	B-23	B-24
	DEPTH	2-4	4-6	0-2	2-4	4-6	0-2	2-4	4-6	0-2
	DATE	11/14/91	11/14/91	12/02/91	12/02/91	12/02/91	12/02/91	12/02/91	12/02/91	12/03/91
	ES ID	S1114-71 (1)	S1114-72	S1202-73 (3)	S1202-74 (4)	S1202-75(3	S1202-76	S1202-77	S1202-78	S1203-79 (3)
	LAB ID	149181	149182	150016	150017	150018	150019	150020	150021	150022
	UNITS									
VOCs										
SEMIVOLATILES										
Phenol	µg/Kg	740 U	NS	800 U	710 U	NS	790 U	740 U	730 U	900 U
bis(2-Chloroethyl) ether	µg/Kg	740 U	NS	800 U	710 U	NS	790 U	740 U	730 U	900 U
2-Chlorophenol	µg/Kg	740 U	NS	800 U	710 U	NS	790 U	740 U	730 U	900 U
1,3-Dichlorobenzene	µg/Kg	740 U	NS	800 U	710 U	NS	790 U	740 U	730 U	900 U
1,4-Dichlorobenzene	µg/Kg	740 U	NS	800 U	710 U	NS	790 U	740 U	730 U	900 U
Benzyl Alcohol	µg/Kg	740 U	NS	800 U	710 U	NS	790 U	740 U	730 U	900 U
1,2-Dichlorobenzene	µg/Kg	740 U	NS	800 U	710 U	NS	790 U	740 U	730 U	900 U
2-Methylphenol	µg/Kg	740 U	NS	800 U	710 U	NS	790 U	740 U	730 U	900 U
bis(2-Chloroisopropyl) ether	µg/Kg	740 U	NS	800 U	710 U	NS	790 U	740 U	730 U	900 U
4-Methylphenol	µg/Kg	740 U	NS	800 U	710 U	NS	790 U	740 U	730 U	900 U
N-Nitroso-di-n-propylamine	µg/Kg	740 U	NS	800 U	710 U	NS	790 U	740 U	730 U	900 U
Hexachloroethane	µg/Kg	740 U	NS	800 U	710 U	NS	790 U	740 U	730 U	900 U
Nitrobenzene	µg/Kg	740 U	NS	800 U	710 U	NS	790 U	740 U	730 U	900 U
Isophorone	µg/Kg	740 U	NS	800 U	710 U	NS	790 U	740 U	730 U	900 U
2-Nitrophenol	µg/Kg	740 U	NS	800 U	710 U	NS	790 U	740 U	730 U	900 U
2,4-Dimethylphenol	µg/Kg	740 U	NS	800 U	710 U	NS	790 U	740 U	730 U	900 U
Benzoic acid	µg/Kg	3600 U	NS	3900 U	3500 U	NS	3800 U	3600 U	3600 U	4400 U
bis(2-Chloroethoxy) methane	µg/Kg	740 U	NS	800 U	710 U	NS	790 U	740 U	730 U	900 U
2,4-Dichlorophenol	µg/Kg	740 U	NS	800 U	710 U	NS	790 U	740 U	730 U	900 U
1,2,4-Trichlorobenzene	µg/Kg	740 U	NS	800 U	710 U	NS	790 U	740 U	730 U	900 U
Naphthalene	µg/Kg	740 U	NS	800 U	710 U	NS	790 U	740 U	730 U	900 U
4-Chloroaniline	µg/Kg	740 U	NS	800 U	710 U	NS	790 U	740 U	730 U	900 U
Hexachlorobutadiene	µg/Kg	740 U	NS	800 U	710 U	NS	790 U	740 U	730 U	900 U
4-Chloro-3-methylphenol	µg/Kg	740 U	NS	800 U	710 U	NS	790 U	740 U	730 U	900 U
2-Methylnaphthalene	µg/Kg	740 U	NS	800 U	710 U	NS	790 U	740 U	730 U	900 U
Hexachlorocyclopentadiene	µg/Kg	740 U	NS	800 U	710 U	NS	790 U	740 U	730 U	900 U
2,4,6-Trichlorophenol	µg/Kg	740 U	NS	800 U	710 U	NS	790 U	740 U	730 U	900 U
2,4,5-Trichlorophenol	µg/Kg	3600 U	NS	3900 U	3500 U	NS	3800 U	3600 U	3600 U	4400 U
2-Chloronaphthalene	µg/Kg	740 U	NS	800 U	710 U	NS	790 U	740 U	730 U	900 U
2-Nitroaniline	µg/Kg	3800 U	NS	3900 U	3500 U	NS	3800 U	3600 U	3600 U	4400 U
Dimethylphthalate	µg/Kg	740 U	NS	800 U	710 U	NS	790 U	740 U	730 U	900 U
Acenaphthylene	µg/Kg	740 U	NS	800 U	710 U	NS	790 U	740 U	730 U	900 U
2,6-Dinitrotoluene	µg/Kg	740 U	NS	800 U	710 U	NS	790 U	740 U	730 U	900 U
3-Nitroaniline	µg/Kg	3600 U	NS	3900 U	3500 U	NS	3800 U	3600 U	3600 U	4400 U
Acenaphthene	µg/Kg	740 U	NS	800 U	710 U	NS	790 U	740 U	730 U	900 U
2,4-Dinitrophenol	µg/Kg	3600 U	NS	3900 U	3500 U	NS	3800 U	3600 U	3600 U	4400 U
4-Nitrophenol	µg/Kg	3600 U	NS	3900 U	3500 U	NS	3800 U	3600 U	3600 U	4400 U
Dibenzofuran	µg/Kg	740 U	NS	800 U	710 U	NS	790 U	740 U	730 U	900 U
2,4-Dinitrotoluene	µg/Kg	740 U	NS	800 U	710 U	NS	790 U	740 U	730 U	900 U
Diethylphthalate	µg/Kg	740 U	NS	800 U	710 U	NS	790 U	740 U	730 U	900 U
4-Chlorophenyl-phenyl ether	µg/Kg	740 U	NS	800 U	710 U	NS	790 U	740 U	730 U	900 U
Fluorene	µg/Kg	740 U	NS	800 U	710 U	NS	790 U	740 U	730 U	900 U
4-Nitroaniline	µg/Kg	3600 U	NS	3900 U	3500 U	NS	3800 U	3600 U	3600 U	4400 U
4,6-Dinitro-2-methylphenol	µg/Kg	3600 U	NS	3900 U	3500 U	NS	3800 U	3600 U	3600 U	4400 U
N-Nitrosodiphenylamine (1)	µg/Kg	740 U	NS	800 U	710 U	NS	790 U	740 U	730 U	900 U
4-Bromophenyl-phenyl ether	µg/Kg	740 U	NS	800 U	710 U	NS	790 U	740 U	730 U	900 U
Hexachlorobenzene	µg/Kg	740 U	NS	800 U	710 U	NS	790 U	740 U	730 U	900 U
Pentachlorophenol	µg/Kg	3600 U	NS	3900 U	3500 U	NS	3800 U	3600 U	3600 U	4400 U
Phenanthrene	µg/Kg	740 U	NS	800 U	710 U	NS	790 U	740 U	730 U	900 U
Anthracene	µg/Kg	740 U	NS	800 U	710 U	NS	790 U	740 U	730 U	900 U
Carbazole	µg/Kg	NS	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate	µg/Kg	740 U	NS	800 U	710 U	NS	790 U	740 U	730 U	900 U
Fluoranthene	µg/Kg	740 U	NS	800 U	710 U	NS	790 U	740 U	730 U	900 U
Pyrene	µg/Kg	740 U	NS	800 U	710 U	NS	790 U	740 U	730 U	900 U
Butylbenzylphthalate	µg/Kg	740 U	NS	800 U	710 U	NS	790 U	740 U	730 U	900 U
3,3'-Dichlorobenzidine	µg/Kg	1500 U	NS	1600 U	1400 U	NS	1600 U	1500 U	1500 U	1800 U
Benzo(a)anthracene	µg/Kg	740 U	NS	800 U	710 U	NS	790 U	740 U	730 U	900 U
Chrysene	µg/Kg	740 U	NS	800 U	710 U	NS	790 U	740 U	730 U	900 U
bis(2-Ethylhexyl)phthalate	µg/Kg	740 U	NS	800 U	710 U	NS	790 U	740 U	730 U	900 U
Di-n-octylphthalate	µg/Kg	740 U	NS	800 U	710 U	NS	790 U	740 U	730 U	900 U
Benzo(b)fluoranthene	µg/Kg	740 U	NS	800 U	710 U	NS	790 U	740 U	730 U	900 U
Benzo(k)fluoranthene	µg/Kg	740 U	NS	800 U	710 U	NS	790 U	740 U	730 U	900 U
Benzo(a)pyrene	µg/Kg	740 U	NS	800 U	710 U	NS	790 U	740 U	730 U	900 U
Indeno(1,2,3-cd)pyrene	µg/Kg	740 U	NS	800 U	710 U	NS	790 U	740 U	730 U	900 U
Dibenz(a,h)anthracene	µg/Kg	740 U	NS	800 U	710 U	NS	790 U	740 U	730 U	900 U
Benzo(g,h,i)perylene	µg/Kg	740 U	NS	800 U	710 U	NS	790 U	740 U	730 U	900 U

SENECA ARMY DEPOT, ASH LANDFILL
SOIL ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

COMPOUND	UNITS									
MATRIX		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
LOCATION		B-21	B-21	B-22	B-22	B-22	B-23	B-23	B-23	B-24
DEPTH		2-4	4-6	0-2	2-4	4-6	0-2	2-4	4-6	0-2
DATE		11/14/91	11/14/91	12/02/91	12/02/91	12/02/91	12/02/91	12/02/91	12/02/91	12/03/91
ES ID		S1114-71 (1)	S1114-72	S1202-73 (3)	S1202-74 (4)	S1202-75(3	S1202-76	S1202-77	S1202-78	S1203-79 (3)
LAB ID		149181	149182	150016	150017	150018	150019	150020	150021	150022
VOCs										
PESTICIDES/PCBs										
alpha-BHC	µg/Kg	18 U	NS	19 U	17 U	NS	19 U	18 U	18 U	22 U
beta-BHC	µg/Kg	18 U	NS	19 U	17 U	NS	19 U	18 U	18 U	22 U
delta-BHC	µg/Kg	18 U	NS	19 U	17 U	NS	19 U	18 U	18 U	22 U
gamma-BHC (Lindane)	µg/Kg	18 U	NS	19 U	17 U	NS	19 U	18 U	18 U	22 U
Heptachlor	µg/Kg	16 U	NS	19 U	17 U	NS	19 U	18 U	18 U	22 U
Aldrin	µg/Kg	18 U	NS	19 U	17 U	NS	19 U	18 U	18 U	22 U
Heptachlor epoxide	µg/Kg	18 U	NS	19 U	17 U	NS	19 U	18 U	18 U	22 U
Endosulfan I	µg/Kg	18 U	NS	19 U	17 U	NS	19 U	18 U	18 U	22 U
Dieldrin	µg/Kg	36 U	NS	38 U	35 U	NS	38 U	36 U	36 U	44 U
4,4'-DDE	µg/Kg	36 U	NS	38 U	35 U	NS	38 U	36 U	36 U	44 U
Endrin	µg/Kg	36 U	NS	38 U	35 U	NS	38 U	36 U	36 U	44 U
Endosulfan II	µg/Kg	36 U	NS	38 U	35 U	NS	38 U	36 U	36 U	44 U
4,4'-DDD	µg/Kg	36 U	NS	38 U	35 U	NS	38 U	36 U	36 U	44 U
Endosulfan sulfate	µg/Kg	36 U	NS	38 U	35 U	NS	38 U	38 U	36 U	44 U
4,4'-DDT	µg/Kg	36 U	NS	38 U	35 U	NS	38 U	36 U	36 U	44 U
Methoxychlor	µg/Kg	180 U	NS	190 U	170 U	NS	190 U	180 U	180 U	220 U
Endrin ketone	µg/Kg	36 U	NS	38 U	35 U	NS	38 U	36 U	36 U	44 U
Endrin aldehyde	µg/Kg	NS	NS	NS	NS	NS	NS	NS	NS	NS
alpha-Chlordane	µg/Kg	180 U	NS	190 U	170 U	NS	190 U	180 U	180 U	220 U
gamma-Chlordane	µg/Kg	180 U	NS	190 U	170 U	NS	190 U	180 U	180 U	220 U
Toxaphene	µg/Kg	360 U	NS	380 U	350 U	NS	380 U	360 U	360 U	440 U
Aroclor-1016	µg/Kg	180 U	NS	190 U	170 U	NS	190 U	180 U	180 U	220 U
Aroclor-1221	µg/Kg	180 U	NS	190 U	170 U	NS	190 U	180 U	180 U	220 U
Aroclor-1232	µg/Kg	180 U	NS	190 U	170 U	NS	190 U	180 U	180 U	220 U
Aroclor-1242	µg/Kg	180 U	NS	190 U	170 U	NS	190 U	180 U	180 U	220 U
Aroclor-1248	µg/Kg	180 U	NS	190 U	170 U	NS	190 U	180 U	180 U	220 U
Aroclor-1254	µg/Kg	360 U	NS	360 U	350 U	NS	380 U	360 U	360 U	440 U
Aroclor-1260	µg/Kg	360 U	NS	380 U	350 U	NS	380 U	360 U	360 U	440 U
HERBICIDES										
2,4-D	µg/Kg	57 U J	NS	60 U J	54 U J	NS	60 U J	56 U J	56 U J	68 U J
2,4-DB	µg/Kg	57 U J	NS	60 U J	54 U J	NS	60 U J	56 U J	56 U J	68 U J
2,4,5-T	µg/Kg	6 U J	NS	6 U J	5 U J	NS	6 U J	6 U J	6 U J	7 U J
2,4,5-TP (Silvex)	µg/Kg	6 U J	NS	6 U J	5 U J	NS	6 U J	6 U J	6 U J	7 U J
Dalapon	µg/Kg	140 U J	NS	150 U J	130 U J	NS	140 U J	130 U J	130 U J	160 U J
Dicamba	µg/Kg	6 U J	NS	6 U J	5 U J	NS	8 U J	6 U J	6 U J	7 U J
Dichloroprop	µg/Kg	57 U J	NS	60 U J	54 U J	NS	60 U J	56 U J	56 U J	68 U J
Dinoseb	µg/Kg	28 U J	NS	30 U J	27 U J	NS	30 U J	28 U J	28 U J	34 U J
MCPA	µg/Kg	5700 U J	NS	6000 U J	5400 U J	NS	8000 U J	5600 U J	5600 U J	6800 U J
MCPP	µg/Kg	5700 U J	NS	6000 U J	5400 U J	NS	6000 U J	5600 U J	5600 U J	6800 U J
METALS										
Aluminum	mg/kg	21400	NS	18400	16500	NS	15700	18700	18100	21700
Antimony	mg/kg	9 U J	NS	9.2 U J	10.5 U J	NS	10.2 U J	9.8 U J	10.5 U J	12.3 U J
Arsenic	mg/kg	4.9	NS	7.6 J	4.6 J	NS	3.6 J	5.5 J	5.2 J	6.1 J
Barium	mg/kg	74.7	NS	107	70	NS	96.2	69	67	166
Beryllium	mg/kg	1.1	NS	1.1	0.9 J	NS	0.98	1.1	0.98	1.3
Cadmium	mg/kg	4.2	NS	1.8	2.5	NS	2.1	2.4	2.6	2.7
Calcium	mg/kg	9720	NS	3270	10800	NS	1980	6970	11400	5440
Chromium	mg/kg	33.9	NS	27.4	29.4	NS	22.6	31.1	31.7	29.6
Cobalt	mg/kg	19	NS	11.5	16.2	NS	11.5	16.1	16.2	13.9
Copper	mg/kg	20.3 J	NS	21.4	22.8	NS	18.4	22.7	21.3	32
Iron	mg/kg	38900	NS	32000	37300	NS	27800	36000	39400	33500
Lead	mg/kg	7.6 J	NS	13.6 R	4.5 R	NS	8.4 R	8 R	4.1 R	15.5 R
Magnesium	mg/kg	7540	NS	5470	7570	NS	4150	7830	8620	5710
Manganese	mg/kg	834	NS	578	848	NS	632	577	733	1420
Mercury	mg/kg	0.03 U	NS	0.04 U	0.07 J	NS	0.04 U	0.07 J	0.07 J	0.1 J
Nickel	mg/kg	51.3	NS	34.5	48.8	NS	20.9	43.8	48.1	38.5
Potassium	mg/kg	1940	NS	1970	1470	NS	1530	1920	1580	2790
Selenium	mg/kg	0.32 U J	NS	0.21 U J	0.19 U J	NS	0.19 U J	0.15 U J	0.16 U J	0.27 U J
Silver	mg/kg	1.3 U	NS	1.5 J	1.7 U	NS	1.7 U	1.6 U	1.7 U	2 U
Sodium	mg/kg	111 J	NS	53 U	63.2 J	NS	59.3 U	56.9 U	60.7 U	71.1 U
Thallium	mg/kg	0.52 U	NS	0.59 U J	0.53 U J	NS	0.53 U J	0.42 U J	0.46 U J	0.74 U J
Vanadium	mg/kg	28.3	NS	28.2	21	NS	27.4	25.4	27.2	33.8
Zinc	mg/kg	84	NS	76.4	74.5	NS	56	79.6	102	107
Cyanide	mg/kg	0.68 U	NS	0.72 U	0.65 U	NS	0.7 U	0.67 U	0.85 U	0.79 U

SENECA ARMY DEPOT, ASH LANDFILL
SOIL ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

COMPOUND	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
LOCATION		B-24	B-24	B-25	B-25	B-25	B-25	B-27	B-27
DEPTH		2-4	4-6	0-2	2-4	4-6	4-6	0-2	2-4
DATE		12/03/91	12/03/91	12/03/91	12/03/91	12/03/91	12/03/91	12/04/91	12/04/91
ES ID		S1203-80 (3)	S1203-81 (3)	S1203-82	S1203-83	S1203-84	S1203-84RE (4)	S1204-86 (2,3)	S1204-87 (3)
LAB ID		150023	150024	150025	150026	150027	150027	150235	150236
	UNITS								
VOCs									
Chloromethane	µg/Kg	11 U	11 U	13 U	12 U	11 U	11 U J	12 U	12 U
Bromomethane	µg/Kg	11 U	11 U	13 U	12 U	11 U	11 U J	12 U	12 U
Vinyl Chloride	µg/Kg	11 U	11 U	13 U	12 U	11 U	11 U J	12 U	12 U
Chloroethane	µg/Kg	11 U	11 U	13 U	12 U	11 U	11 U J	12 U	12 U
Methylene Chloride	µg/Kg	5 U	5 U	6 U	6 U	5 U	6 U J	6 U	6 U
Acetone	µg/Kg	11 U	11 U	13 U	12 U	11 U	12 U J	12 U	12 U
Carbon Disulfide	µg/Kg	5 U	5 U	6 U	6 U	5 U	5 U J	6 U	6 U
1,1-Dichloroethene	µg/Kg	5 U	5 U	6 U	6 U	5 U	5 U J	6 U	6 U
1,1-Dichloroethane	µg/Kg	5 U	5 U	6 U	6 U	5 U	5 U J	6 U	6 U
1,2-Dichloroethene (total)	µg/Kg	5 U	5 U	6 U	6 U	5 U	5 U J	100	250
Chloroform	µg/Kg	5 U	5 U	6 U	6 U	5 U	5 U J	6 U	6 U
1,2-Dichloroethane	µg/Kg	5 U	5 U	6 U	6 U	5 U	5 U J	6 U	6 U
2-Butanone	µg/Kg	11 U	11 U	13 U	12 U	11 U	11 U J	12 U	12 U
1,1,1-Trichloroethane	µg/Kg	5 U	5 U	6 U	6 U	5 U	5 U J	6 U	6 U
Carbon Tetrachloride	µg/Kg	5 U	5 U	6 U	6 U	5 U	5 U J	6 U	6 U
Vinyl Acetate	µg/Kg	11 U	11 U	13 U	12 U	11 U	11 U J	12 U	12 U
Bromodichloromethane	µg/Kg	5 U	5 U	6 U	6 U	5 U	5 U J	6 U	6 U
1,2-Dichloropropane	µg/Kg	5 U	5 U	6 U	6 U	5 U	5 U J	6 U	6 U
cis-1,3-Dichloropropene	µg/Kg	5 U	5 U	6 U	6 U	5 U	5 U J	6 U	6 U
Trichloroethene	µg/Kg	5 U	5 U	6 U	6 U	5 U	5 U J	10	13
Dibromochloromethane	µg/Kg	5 U	5 U	6 U	6 U	5 U	5 U J	6 U	6 U
1,1,2-Trichloroethane	µg/Kg	5 U	5 U	6 U	6 U	5 U	5 U J	6 U	6 U
Benzene	µg/Kg	5 U	5 U	6 U	6 U	5 U	5 U J	6 U	6 U
trans-1,3-Dichloropropene	µg/Kg	5 U	5 U	6 U	6 U	5 U	5 U J	6 U	6 U
Bromoform	µg/Kg	5 U	5 U	6 U	6 U	5 U	5 U J	6 U	6 U
4-Methyl-2-Pentanone	µg/Kg	11 U	11 U	13 U	12 U	11 U	11 U J	12 U	12 U
2-Hexanone	µg/Kg	11 U	11 U	13 U	12 U	11 U	11 U J	12 U	12 U
Tetrachloroethene	µg/Kg	5 U	5 U	6 U	6 U	5 U	5 U J	4 J	6 U
1,1,2,2-Tetrachloroethane	µg/Kg	5 U	5 U	6 U	6 U	5 U	5 U J	6 U	6 U
Toluene	µg/Kg	5 U	5 U	6 U	6 U	1 J	1 J	6 U	6 U
Chlorobenzene	µg/Kg	5 U	5 U	6 U	6 U	5 U	5 U J	6 U	6 U
Ethylbenzene	µg/Kg	5 U	5 U	6 U	6 U	5 U	5 U J	6 U	6 U
Styrene	µg/Kg	5 U	5 U	6 U	6 U	5 U	5 U J	6 U	6 U
Xylene (total)	µg/Kg	5 U	5 U	6 U	6 U	5 U	5 U J	6 U	6 U

SENECA ARMY DEPOT, ASH LANDFILL
SOIL ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

COMPOUND	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	B-24	B-24	B-25	B-25	B-25	B-25	B-27	B-27
	DEPTH	2-4	4-6	0-2	2-4	4-6	4-6	0-2	2-4
	DATE	12/03/91	12/03/91	12/03/91	12/03/91	12/03/91	12/03/91	12/04/91	12/04/91
	ES ID	S1203-80 (3)	S1203-81 (3)	S1203-82	S1203-83	S1203-84	S1203-84RE(4)	S1204-86(2,3)	S1204-87 (3)
	LAB ID	150023	150024	150025	150026	150027	150027	150235	150236
	UNITS								
VOCs									
SEMIVOLATILES									
Phenol	µg/Kg	720 U	700 U	880 U	730 U	710 U	NS	840 U	780 U
bis(2-Chloroethyl) ether	µg/Kg	720 U	700 U	880 U	730 U	710 U	NS	840 U	780 U
2-Chlorophenol	µg/Kg	720 U	700 U	880 U	730 U	710 U	NS	840 U	780 U
1,3-Dichlorobenzene	µg/Kg	720 U	700 U	880 U	730 U	710 U	NS	840 U	780 U
1,4-Dichlorobenzene	µg/Kg	720 U	700 U	880 U	730 U	710 U	NS	840 U	780 U
Benzyl Alcohol	µg/Kg	720 U	700 U	880 U	730 U	710 U	NS	840 U	780 U
1,2-Dichlorobenzene	µg/Kg	720 U	700 U	880 U	730 U	710 U	NS	840 U	780 U
2-Methylphenol	µg/Kg	720 U	700 U	880 U	730 U	710 U	NS	840 U	780 U
bis(2-Chloroisopropyl) ether	µg/Kg	720 U	700 U	880 U	730 U	710 U	NS	840 U	780 U
4-Methylphenol	µg/Kg	720 U	700 U	880 U	730 U	710 U	NS	840 U	780 U
N-Nitroso-di-n-propylamine	µg/Kg	720 U	700 U	880 U	730 U	710 U	NS	840 U	780 U
Hexachloroethane	µg/Kg	720 U	700 U	880 U	730 U	710 U	NS	840 U	780 U
Nitrobenzene	µg/Kg	720 U	700 U	880 U	730 U	710 U	NS	840 U	780 U
Isophorone	µg/Kg	720 U	700 U	880 U	730 U	710 U	NS	840 U	780 U
2-Nitrophenol	µg/Kg	720 U	700 U	880 U	730 U	710 U	NS	840 U	780 U
2,4-Dimethylphenol	µg/Kg	720 U	700 U	880 U	730 U	710 U	NS	840 U	780 U
Benzoic acid	µg/Kg	3500 U	3400 U	4300 U	3600 U	3400 U	NS	4100 U	3800 U
bis(2-Chloroethoxy) methane	µg/Kg	720 U	700 U	880 U	730 U	710 U	NS	840 U	780 U
2,4-Dichlorophenol	µg/Kg	720 U	700 U	880 U	730 U	710 U	NS	840 U	780 U
1,2,4-Trichlorobenzene	µg/Kg	720 U	700 U	880 U	730 U	710 U	NS	840 U	780 U
Naphthalene	µg/Kg	720 U	700 U	880 U	730 U	710 U	NS	840 U	780 U
4-Chloroaniline	µg/Kg	720 U	700 U	880 U	730 U	710 U	NS	840 U	780 U
Hexachlorobutadiene	µg/Kg	720 U	700 U	880 U	730 U	710 U	NS	840 U	780 U
4-Chloro-3-methylphenol	µg/Kg	720 U	700 U	880 U	730 U	710 U	NS	840 U	780 U
2-Methylnaphthalene	µg/Kg	720 U	700 U	880 U	730 U	710 U	NS	840 U	780 U
Hexachlorocyclopentadiene	µg/Kg	720 U	700 U	880 U	730 U	710 U	NS	840 U	780 U
2,4,6-Trichlorophenol	µg/Kg	720 U	700 U	880 U	730 U	710 U	NS	840 U	780 U
2,4,5-Trichlorophenol	µg/Kg	3500 U	3400 U	4300 U	3600 U	3400 U	NS	4100 U	3800 U
2-Chloronaphthalene	µg/Kg	720 U	700 U	880 U	730 U	710 U	NS	840 U	780 U
2-Nitroaniline	µg/Kg	3500 U	3400 U	4300 U	3600 U	3400 U	NS	4100 U	3800 U
Dimethylphthalate	µg/Kg	720 U	700 U	880 U	730 U	710 U	NS	840 U	780 U
Acenaphthylene	µg/Kg	720 U	700 U	880 U	730 U	710 U	NS	840 U	780 U
2,6-Dinitrotoluene	µg/Kg	720 U	700 U	880 U	730 U	710 U	NS	840 U	780 U
3-Nitroaniline	µg/Kg	3500 U	3400 U	4300 U	3600 U	3400 U	NS	4100 U	3800 U
Acenaphthene	µg/Kg	720 U	700 U	880 U	730 U	710 U	NS	840 U	780 U
2,4-Dinitrophenol	µg/Kg	3500 U	3400 U	4300 U	3600 U	3400 U	NS	4100 U	3800 U
4-Nitrophenol	µg/Kg	3500 U	3400 U	4300 U	3600 U	3400 U	NS	4100 U	3800 U
Dibenzofuran	µg/Kg	720 U	700 U	880 U	730 U	710 U	NS	840 U	780 U
2,4-Dinitrotoluene	µg/Kg	720 U	700 U	880 U	730 U	710 U	NS	840 U	780 U
Diethylphthalate	µg/Kg	720 U	700 U	880 U	730 U	710 U	NS	840 U	780 U
4-Chlorophenyl-phenyl ether	µg/Kg	720 U	700 U	880 U	730 U	710 U	NS	840 U	780 U
Fluorene	µg/Kg	720 U	700 U	880 U	730 U	710 U	NS	840 U	780 U
4-Nitroaniline	µg/Kg	3500 U	3400 U	4300 U	3600 U	3400 U	NS	4100 U	3800 U
4,6-Dinitro-2-methylphenol	µg/Kg	3500 U	3400 U	4300 U	3600 U	3400 U	NS	4100 U	3800 U
N-Nitrosodiphenylamine (1)	µg/Kg	720 U	700 U	880 U	730 U	710 U	NS	840 U	780 U
4-Bromophenyl-phenylether	µg/Kg	720 U	700 U	880 U	730 U	710 U	NS	840 U	780 U
Hexachlorobenzene	µg/Kg	720 U	700 U	880 U	730 U	710 U	NS	840 U	780 U
Pentachlorophenol	µg/Kg	3500 U	3400 U	4300 U	3600 U	3400 U	NS	4100 U	3800 U
Phenanthrene	µg/Kg	720 U	700 U	880 U	730 U	710 U	NS	840 U	780 U
Anthracene	µg/Kg	720 U	700 U	880 U	730 U	710 U	NS	840 U	780 U
Carbazole	µg/Kg	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate	µg/Kg	720 U	700 U	880 U	730 U	710 U	NS	840 U	780 U
Fluoranthene	µg/Kg	720 U	700 U	880 U	730 U	710 U	NS	110 J	780 U
Pyrene	µg/Kg	720 U	700 U	880 U	730 U	710 U	NS	90 J	780 U
Butylbenzylphthalate	µg/Kg	720 U	700 U	880 U	730 U	710 U	NS	840 U	780 U
3,3'-Dichlorobenzidine	µg/Kg	1400 U	1400 U	1800 U	1500 U	1400 U	NS	1700 U	1800 U
Benzo(a)anthracene	µg/Kg	720 U	700 U	880 U	730 U	710 U	NS	840 U	780 U
Chrysene	µg/Kg	720 U	700 U	880 U	730 U	710 U	NS	840 U	780 U
bis(2-Ethylhexyl)phthalate	µg/Kg	720 U	700 U	880 U	730 U	510 J	NS	840 U	780 U
Di-n-octylphthalate	µg/Kg	720 U	700 U	880 U	730 U	710 U	NS	840 U	780 U
Benzo(b)fluoranthene	µg/Kg	720 U	700 U	880 U	730 U	710 U	NS	840 U	780 U
Benzo(k)fluoranthene	µg/Kg	720 U	700 U	880 U	730 U	710 U	NS	840 U	780 U
Benzo(a)pyrene	µg/Kg	720 U	700 U	880 U	730 U	710 U	NS	840 U	780 U
Indeno(1,2,3-cd)pyrene	µg/Kg	720 U	700 U	880 U	730 U	710 U	NS	840 U	780 U
Dibenz(a,h)anthracene	µg/Kg	720 U	700 U	880 U	730 U	710 U	NS	840 U	780 U
Benzo(g,h,i)perylene	µg/Kg	720 U	700 U	880 U	730 U	710 U	NS	840 U	780 U

SENECA ARMY DEPOT, ASH LANDFILL
SOIL ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

COMPOUND	UNITS	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		LOCATION	B-24	B-24	B-25	B-25	B-25	B-25	B-27	B-27
		DEPTH	2-4	4-6	0-2	2-4	4-6	4-6	0-2	2-4
		DATE	12/03/91	12/03/91	12/03/91	12/03/91	12/03/91	12/03/91	12/04/91	12/04/91
		ES ID	S1203-80 (3)	S1203-81 (3)	S1203-82	S1203-83	S1203-84	S1203-84RE(4)	S1204-86(2,3)	S1204-87 (3)
		LAB ID	150023	150024	150025	150026	150027	150027	150235	150236
VOCs										
PESTICIDES/PCBs										
alpha-BHC	µg/Kg	17 U	17 U	21 U	18 U	17 U	NS	20 U	19 U	
beta-BHC	µg/Kg	17 U	17 U	21 U	18 U	17 U	NS	20 U	19 U	
delta-BHC	µg/Kg	17 U	17 U	21 U	18 U	17 U	NS	20 U	19 U	
gamma-BHC (Lindane)	µg/Kg	17 U	17 U	21 U	18 U	17 U	NS	20 U	19 U	
Heptachlor	µg/Kg	17 U	17 U	21 U	18 U	17 U	NS	20 U	19 U	
Aldrin	µg/Kg	17 U	17 U	21 U	18 U	17 U	NS	20 U	19 U	
Heptachlor epoxide	µg/Kg	17 U	17 U	21 U	18 U	17 U	NS	20 U	19 U	
Endosulfan I	µg/Kg	17 U	17 U	21 U	18 U	17 U	NS	20 U	19 U	
Dieldrin	µg/Kg	34 U	34 U	43 U	36 U	34 U	NS	41 U	38 U	
4,4'-DDE	µg/Kg	34 U	34 U	43 U	36 U	34 U	NS	41 U	38 U	
Endrin	µg/Kg	34 U	34 U	43 U	36 U	34 U	NS	41 U	38 U	
Endosulfan II	µg/Kg	34 U	34 U	43 U	36 U	34 U	NS	41 U	38 U	
4,4'-DDD	µg/Kg	34 U	34 U	43 U	36 U	34 U	NS	41 U	38 U	
Endosulfan sulfate	µg/Kg	34 U	34 U	43 U	36 U	34 U	NS	41 U	38 U	
4,4'-DDT	µg/Kg	34 U	34 U	43 U	36 U	34 U	NS	41 U	38 U	
Methoxychlor	µg/Kg	170 U	170 U	210 U	180 U	170 U	NS	200 U	190 U	
Endrin ketone	µg/Kg	34 U	34 U	43 U	36 U	34 U	NS	41 U	38 U	
Endrin aldehyde	µg/Kg	NS	NS	NS	NS	NS	NS	NS	NS	
alpha-Chlordane	µg/Kg	170 U	170 U	210 U	180 U	170 U	NS	200 U	190 U	
gamma-Chlordane	µg/Kg	170 U	170 U	210 U	180 U	170 U	NS	200 U	190 U	
Toxaphene	µg/Kg	340 U	340 U	430 U	360 U	340 U	NS	410 U	380 U	
Aroclor-1016	µg/Kg	170 U	170 U	210 U	180 U	170 U	NS	200 U	190 U	
Aroclor-1221	µg/Kg	170 U	170 U	210 U	180 U	170 U	NS	200 U	190 U	
Aroclor-1232	µg/Kg	170 U	170 U	210 U	180 U	170 U	NS	200 U	190 U	
Aroclor-1242	µg/Kg	170 U	170 U	210 U	180 U	170 U	NS	200 U	190 U	
Aroclor-1248	µg/Kg	170 U	170 U	210 U	180 U	170 U	NS	200 U	190 U	
Aroclor-1254	µg/Kg	340 U	340 U	430 U	360 U	340 U	NS	410 U	380 U	
Aroclor-1260	µg/Kg	340 U	340 U	430 U	360 U	340 U	NS	410 U	380 U	
HERBICIDES										
2,4-D	µg/Kg	55 U J	53 U J	66 U J	55 U J	53 U J	NS	63 U J	59 U J	
2,4-DB	µg/Kg	55 U J	53 U J	66 U J	55 U J	53 U J	NS	63 U J	59 U J	
2,4,5-T	µg/Kg	5 U J	5 U J	7 U J	6 U J	5 U J	NS	6 U J	6 U J	
2,4,5-TP (Silvex)	µg/Kg	5 U J	5 U J	7 U J	6 U J	5 U J	NS	6 U J	6 U J	
Dalapon	µg/Kg	130 U J	130 U J	160 U J	130 U J	130 U J	NS	150 U J	140 U J	
Dicamba	µg/Kg	5 U J	5 U J	7 U J	6 U J	5 U J	NS	6 U J	6 U J	
Dichloroprop	µg/Kg	55 U J	53 U J	66 U J	55 U J	53 U J	NS	63 U J	59 U J	
Dinoseb	µg/Kg	27 U J	27 U J	33 U J	28 U J	27 U J	NS	32 U J	30 U J	
MCPA	µg/Kg	5500 U J	5300 U J	6600 U J	5500 U J	5300 U J	NS	6300 U J	5900 U J	
MCPP	µg/Kg	5500 U J	5300 U J	6600 U J	5500 U J	5300 U J	NS	6300 U J	5900 U J	
METALS										
Aluminum	mg/kg	14200	17200	16300	16200	19800	NS	14600	17800	
Antimony	mg/kg	9.2 U J	9.8 U J	12.4 U J	7.5 U J	11.7 U J	NS	12.4 U J	8.4 U J	
Arsenic	mg/kg	5.2	3.1 J	5 J	6.2 J	3.5 J	NS	5.5 J	4.6 J	
Barium	mg/kg	59.6	67.6	104	68.6	54.9	NS	114	96.7	
Beryllium	mg/kg	0.82 J	1	0.99 J	0.88	1.2	NS	0.89 R	1 R	
Cadmium	mg/kg	2.1	2.2	2.3	2.3	2.7	NS	1.8	2.4	
Calcium	mg/kg	92200	33900	3970	16900	33200	NS	4570	4930	
Chromium	mg/kg	24.2	29.3	25.6	26.5	34.5	NS	22.4	28	
Cobalt	mg/kg	12	15.4	12.9	16	19.7	NS	8.1 J	18	
Copper	mg/kg	19.5	22.5	25.8	26.3	17.5	NS	29.9	19.7	
Iron	mg/kg	30800	36100	31200	35600	41100	NS	23200	36100	
Lead	mg/kg	6.1 R	3.7 R	14 R	7.4 R	3.5 R	NS	33.2	12 R	
Magnesium	mg/kg	8340	8170	5190	6950	9190	NS	4000	6170	
Manganese	mg/kg	622	920	853	700	1030	NS	526	1120	
Mercury	mg/kg	0.04 U	0.04 J	0.08 J	0.04 U	0.04 U	NS	0.09 J	0.04 J	
Nickel	mg/kg	38.1	43.8	31.4	45.6	54.6	NS	25.3	39.5	
Potassium	mg/kg	1580	2190	2130	1550	1860	NS	1850	1920	
Selenium	mg/kg	0.21 U J	0.18 U J	0.18 U J	0.15 U J	0.18 U J	NS	0.22 U J	0.14 U J	
Silver	mg/kg	1.5 U	1.6 U	2 U	1.2 U	1.9 U	NS	2 U	1.4 U	
Sodium	mg/kg	104 J	106 J	72 U	55.4 J	106 J	NS	71.7 U	48.5 U	
Thallium	mg/kg	0.6 U J	0.51 U J	0.5 U J	0.42 U J	0.5 U J	NS	0.61 U J	0.39 U J	
Vanadium	mg/kg	22	24.5	28.6	23.3	26.5	NS	25.6	28	
Zinc	mg/kg	69.8	88.6	93.2	99	66.9	NS	284	84.4	
Cyanide	mg/kg	0.63 U	0.59 U	0.76 U	0.6 U	0.62 U	NS	0.6 U	0.61 U	

SENECA ARMY DEPOT, ASH LANDFILL
SOIL ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	B-28	B-28	B-28	B-28	B-28	B-28	B-28	B-29
	DEPTH	0-2	2-4	2-4	2-4	2-4	4-6	4-6	0-2
	DATE	12/04/91	12/04/91	12/04/91	12/04/91	12/04/91	12/04/91	12/04/91	12/04/91
	ES ID	S1204-88 (3)	S1204-89	S1204-89A(1)	S1204-89ARE(4)	S1204-89DL(5)	S1204-90(3)	S1204-90RE(4)	S1204-91
	LAB ID	150237	150238	150240	150240	150238	150241	150241	150242
COMPOUND	UNITS								
VOCs									
Chloromethane	µg/Kg	12 U	39 U	56 U	NS	59 U	1400 U	NS	12 U
Bromomethane	µg/Kg	12 U	39 U	56 U	NS	59 U	1400 U	NS	12 U
Vinyl Chloride	µg/Kg	12 U	39 U	56 U	NS	59 U	1400 U	NS	12 U
Chloroethane	µg/Kg	12 U	39 U	56 U	NS	59 U	1400 U	NS	12 U
Methylene Chloride	µg/Kg	6 U	20 U	28 U	NS	29 U	690 U	NS	6 U
Acetone	µg/Kg	12 U	39 U	56 J	NS	59 U	1400 U	NS	12 U
Carbon Disulfide	µg/Kg	6 U	20 U	28 U	NS	29 U	690 U	NS	6 U
1,1-Dichloroethene	µg/Kg	6 U	20 U	28 U	NS	29 U	690 U	NS	6 U
1,1-Dichloroethane	µg/Kg	6 U	20 U	28 U	NS	29 U	690 U	NS	6 U
1,2-Dichloroethene (total)	µg/Kg	160	2500 J	1600	NS	440	20000	NS	76
Chloroform	µg/Kg	6 U	20 U	28 U	NS	32	690 U	NS	6 U
1,2-Dichloroethane	µg/Kg	6 U	20 U	28 U	NS	29 U	690 U	NS	6 U
2-Butanone	µg/Kg	12 U	39 U	56 U	NS	59 U	1400 U	NS	12 U
1,1,1-Trichloroethane	µg/Kg	6 U	20 U	28 U	NS	29 U	690 U	NS	6 U
Carbon Tetrachloride	µg/Kg	6 U	20 U	28 U	NS	29 U	690 U	NS	6 U
Vinyl Acetate	µg/Kg	12 U	39 U	56 U	NS	59 U	1400 U	NS	12 U
Bromodichloromethane	µg/Kg	6 U	20 U	28 U	NS	29 U	690 U	NS	6 U
1,2-Dichloropropane	µg/Kg	6 U	20 U	28 U	NS	29 U	690 U	NS	6 U
cis-1,3-Dichloropropene	µg/Kg	6 U	20 U	28 U	NS	29 U	690 U	NS	6 U
Trichloroethene	µg/Kg	18	83	74	NS	31	2600	NS	49
Dibromochloromethane	µg/Kg	6 U	20 U	28 U	NS	29 U	690 U	NS	6 U
1,1,2-Trichloroethane	µg/Kg	6 U	20 U	28 U	NS	29 U	690 U	NS	6 U
Benzene	µg/Kg	6 U	20 U	28 U	NS	29 U	690 U	NS	6 U
trans-1,3-Dichloropropene	µg/Kg	6 U	20 U	28 U	NS	29 U	690 U	NS	6 U
Bromoform	µg/Kg	6 U	20 U	28 U	NS	29 U	690 U	NS	6 U
4-Methyl-2-Pentanone	µg/Kg	12 U	39 U	56 U	NS	59 U	1400 U	NS	12 U
2-Hexanone	µg/Kg	12 U	39 U	56 U	NS	59 U	1400 U	NS	12 U
Tetrachloroethene	µg/Kg	6 U	20 U	28 U	NS	29 U	690 U	NS	6 U
1,1,2,2-Tetrachloroethane	µg/Kg	6 U	20 U	28 U	NS	29 U	690 U	NS	6 U
Toluene	µg/Kg	6 U	20 U	28 U	NS	29 U	690 U	NS	6 U
Chlorobenzene	µg/Kg	6 U	20 U	28 U	NS	29 U	690 U	NS	6 U
Ethylbenzene	µg/Kg	6 U	20 U	28 U	NS	29 U	690 U	NS	6 U
Styrene	µg/Kg	6 U	20 U	28 U	NS	29 U	690 U	NS	6 U
Xylene (total)	µg/Kg	6 U	20 U	28 U	NS	29 U	690 U	NS	6 U

SENECA ARMY DEPOT, ASH LANDFILL
SOIL ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

COMPOUND	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	B-28	B-28	B-28	B-28	B-28	B-28	B-28	B-29
	DEPTH	0-2	2-4	2-4	2-4	2-4	4-6	4-8	0-2
	DATE	12/04/91	12/04/91	12/04/91	12/04/91	12/04/91	12/04/91	12/04/91	12/04/91
	ES ID	S1204-88 (3)	S1204-89	S1204-89A(1)	S1204-89ARE(4)	S1204-89DL(5)	S1204-90 (3)	S1204-90RE(4)	S1204-91
	LAB ID	150237	150238	150240	150240	150238	150241	150241	150242
	UNITS								
VOCs									
SEMIVOLATILES									
Phenol	µg/Kg	710 U	760 U	760 U	NS	NS	730 U	NS	790 U
bis(2-Chloroethyl) ether	µg/Kg	710 U	760 U	760 U	NS	NS	730 U	NS	790 U
2-Chlorophenol	µg/Kg	710 U	760 U	760 U	NS	NS	730 U	NS	790 U
1,3-Dichlorobenzene	µg/Kg	710 U	760 U	760 U	NS	NS	730 U	NS	790 U
1,4-Dichlorobenzene	µg/Kg	710 U	760 U	760 U	NS	NS	730 U	NS	790 U
Benzyl Alcohol	µg/Kg	710 U	760 U	760 U	NS	NS	730 U	NS	790 U
1,2-Dichlorobenzene	µg/Kg	710 U	760 U	760 U	NS	NS	730 U	NS	790 U
2-Methylphenol	µg/Kg	710 U	760 U	760 U	NS	NS	730 U	NS	790 U
bis(2-Chloroisopropyl) ether	µg/Kg	710 U	760 U	760 U	NS	NS	730 U	NS	790 U
4-Methylphenol	µg/Kg	710 U	760 U	760 U	NS	NS	730 U	NS	790 U
N-Nitroso-di-n-propylamine	µg/Kg	710 U	760 U	760 U	NS	NS	730 U	NS	790 U
Hexachloroethane	µg/Kg	710 U	760 U	760 U	NS	NS	730 U	NS	790 U
Nitrobenzene	µg/Kg	710 U	760 U	760 U	NS	NS	730 U	NS	790 U
Isophorone	µg/Kg	710 U	760 U	760 U	NS	NS	730 U	NS	790 U
2-Nitrophenol	µg/Kg	710 U	760 U	760 U	NS	NS	730 U	NS	790 U
2,4-Dimethylphenol	µg/Kg	710 U	760 U	760 U	NS	NS	730 U	NS	790 U
Benzoic acid	µg/Kg	3500 U	3700 U	3700 U	NS	NS	3500 U	NS	3800 U
bis(2-Chloroethoxy) methane	µg/Kg	710 U	760 U	760 U	NS	NS	730 U	NS	790 U
2,4-Dichlorophenol	µg/Kg	710 U	760 U	760 U	NS	NS	730 U	NS	790 U
1,2,4-Trichlorobenzene	µg/Kg	710 U	760 U	760 U	NS	NS	730 U	NS	790 U
Naphthalene	µg/Kg	710 U	760 U	760 U	NS	NS	730 U	NS	790 U
4-Chloroaniline	µg/Kg	710 U	760 U	760 U	NS	NS	730 U	NS	790 U
Hexachlorobutadiene	µg/Kg	710 U	760 U	760 U	NS	NS	730 U	NS	790 U
4-Chloro-3-methylphenol	µg/Kg	710 U	760 U	760 U	NS	NS	730 U	NS	790 U
2-Methylnaphthalene	µg/Kg	710 U	760 U	760 U	NS	NS	730 U	NS	790 U
Hexachlorocyclopentadiene	µg/Kg	710 U	760 U	760 U	NS	NS	730 U	NS	790 U
2,4,6-Trichlorophenol	µg/Kg	710 U	760 U	760 U	NS	NS	730 U	NS	790 U
2,4,5-Trichlorophenol	µg/Kg	3500 U	3700 U	3700 U	NS	NS	3500 U	NS	3800 U
2-Chloronaphthalene	µg/Kg	710 U	760 U	760 U	NS	NS	730 U	NS	790 U
2-Nitroaniline	µg/Kg	3500 U	3700 U	3700 U	NS	NS	3500 U	NS	3800 U
Dimethylphthalate	µg/Kg	710 U	760 U	760 U	NS	NS	730 U	NS	790 U
Acenaphthylene	µg/Kg	710 U	760 U	760 U	NS	NS	730 U	NS	790 U
2,6-Dinitrotoluene	µg/Kg	710 U	760 U	760 U	NS	NS	730 U	NS	790 U
3-Nitroaniline	µg/Kg	3500 U	3700 U	3700 U	NS	NS	3500 U	NS	3800 U
Acenaphthene	µg/Kg	710 U	760 U	760 U	NS	NS	730 U	NS	790 U
2,4-Dinitrophenol	µg/Kg	3500 U	3700 U	3700 U	NS	NS	3500 U	NS	3800 U
4-Nitrophenol	µg/Kg	3500 U	3700 U	3700 U	NS	NS	3500 U	NS	3800 U
Dibenzofuran	µg/Kg	710 U	760 U	760 U	NS	NS	730 U	NS	790 U
2,4-Dinitrotoluene	µg/Kg	710 U	760 U	760 U	NS	NS	730 U	NS	790 U
Diethylphthalate	µg/Kg	710 U	760 U	760 U	NS	NS	730 U	NS	790 U
4-Chlorophenyl-phenyl ether	µg/Kg	710 U	760 U	760 U	NS	NS	730 U	NS	790 U
Fluorene	µg/Kg	710 U	760 U	760 U	NS	NS	730 U	NS	790 U
4-Nitroaniline	µg/Kg	3500 U	3700 U	3700 U	NS	NS	3500 U	NS	3800 U
4,6-Dinitro-2-methylphenol	µg/Kg	3500 U	3700 U	3700 U	NS	NS	3500 U	NS	3800 U
N-Nitrosodiphenylamine (1)	µg/Kg	710 U	760 U	760 U	NS	NS	730 U	NS	790 U
4-Bromophenyl-phenylether	µg/Kg	710 U	760 U	760 U	NS	NS	730 U	NS	790 U
Hexachlorobenzene	µg/Kg	710 U	760 U	760 U	NS	NS	730 U	NS	790 U
Pentachlorophenol	µg/Kg	3500 U	3700 U	3700 U	NS	NS	3500 U	NS	3800 U
Phenanthrene	µg/Kg	710 U	760 U	760 U	NS	NS	730 U	NS	790 U
Anthracene	µg/Kg	710 U	760 U	760 U	NS	NS	730 U	NS	790 U
Carbazole	µg/Kg	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate	µg/Kg	710 U	760 U	760 U	NS	NS	730 U	NS	790 U
Fluoranthene	µg/Kg	710 U	760 U	760 U	NS	NS	730 U	NS	72 J
Pyrene	µg/Kg	710 U	760 U	760 U	NS	NS	730 U	NS	790 U
Butylbenzylphthalate	µg/Kg	710 U	760 U	760 U	NS	NS	730 U	NS	790 U
3,3'-Dichlorobenzidine	µg/Kg	1400 U	1500 U	1500 U	NS	NS	1500 U	NS	1600 U
Benzo(a)anthracene	µg/Kg	710 U	760 U	760 U	NS	NS	730 U	NS	790 U
Chrysene	µg/Kg	710 U	760 U	760 U	NS	NS	730 U	NS	790 U
bis(2-Ethylhexyl)phthalate	µg/Kg	710 U	760 U	760 U	NS	NS	730 U	NS	790 U
Di-n-octylphthalate	µg/Kg	710 U	760 U	760 U	NS	NS	730 U	NS	790 U
Benzo(b)fluoranthene	µg/Kg	710 U	760 U	760 U	NS	NS	730 U	NS	790 U
Benzo(k)fluoranthene	µg/Kg	710 U	760 U	760 U	NS	NS	730 U	NS	790 U
Benzo(a)pyrene	µg/Kg	710 U	760 U	760 U	NS	NS	730 U	NS	790 U
Indeno(1,2,3-cd)pyrene	µg/Kg	710 U	760 U	760 U	NS	NS	730 U	NS	790 U
Dibenz(a,h)anthracene	µg/Kg	710 U	760 U	760 U	NS	NS	730 U	NS	790 U
Benzo(g,h,i)perylene	µg/Kg	710 U	760 U	760 U	NS	NS	730 U	NS	790 U

SENECA ARMY DEPOT, ASH LANDFILL
SOIL ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

COMPOUND	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	B-28	B-28	B-28	B-28	B-28	B-28	B-28	B-29
	DEPTH	0-2	2-4	2-4	2-4	2-4	4-8	4-6	0-2
	DATE	12/04/91	12/04/91	12/04/91	12/04/91	12/04/91	12/04/91	12/04/91	12/04/91
	ES ID	S1204-88 (3)	S1204-89	S1204-89A(1)	S1204-89ARE(4)	S1204-89DL(5)	S1204-90(3)	S1204-90RE(4)	S1204-91
	LAB ID	150237	150238	150240	150240	150238	150241	150241	150242
	UNITS								
VOCs									
PESTICIDES/PCBs									
alpha-BHC	µg/Kg	17 U	18 U	19 U	19 U J	NS	18 U	18 U J	19 U
beta-BHC	µg/Kg	17 U	18 U	19 U	19 U J	NS	18 U	18 U J	19 U
delta-BHC	µg/Kg	17 U	18 U	19 U	19 U J	NS	18 U	18 U J	19 U
gamma-BHC (Lindane)	µg/Kg	17 U	18 U	19 U	19 U J	NS	18 U	18 U J	19 U
Heptachlor	µg/Kg	17 U	18 U	19 U	19 U J	NS	18 U	18 U J	19 U
Aldrin	µg/Kg	17 U	18 U	19 U	19 U J	NS	18 U	18 U J	19 U
Heptachlor epoxide	µg/Kg	17 U	18 U	19 U	19 U J	NS	18 U	18 U J	19 U
Endosulfan I	µg/Kg	17 U	18 U	19 U	19 U J	NS	18 U	18 U J	19 U
Dieldrin	µg/Kg	35 U	37 U	37 U	37 U J	NS	35 U	35 U J	38 U
4,4'-DDE	µg/Kg	35 U	37 U	37 U	37 U J	NS	35 U	35 U J	38 U
Endrin	µg/Kg	35 U	37 U	37 U	37 U J	NS	35 U	35 U J	38 U
Endosulfan II	µg/Kg	35 U	37 U	37 U	37 U J	NS	35 U	35 U J	38 U
4,4'-DDD	µg/Kg	35 U	37 U	37 U	37 U J	NS	35 U	35 U J	38 U
Endosulfan sulfate	µg/Kg	35 U	37 U	37 U	37 U J	NS	35 U	35 U J	38 U
4,4'-DDT	µg/Kg	35 U	37 U	37 U	37 U J	NS	35 U	35 U J	38 U
Methoxychlor	µg/Kg	170 U	180 U	190 U	190 U J	NS	180 U	180 U J	190 U
Endrin ketone	µg/Kg	35 U	37 U	37 U	37 U J	NS	35 U	35 U J	38 U
Endrin aldehyde	µg/Kg	NS	NS	NS	NS	NS	NS	NS	NS
alpha-Chlordane	µg/Kg	170 U	180 U	190 U	190 U J	NS	180 U	180 U J	190 U
gamma-Chlordane	µg/Kg	170 U	180 U	190 U	190 U J	NS	180 U	180 U J	190 U
Toxaphene	µg/Kg	350 U	370 U	370 U	370 U J	NS	350 U	350 U J	380 U
Aroclor-1016	µg/Kg	170 U	180 U	190 U	190 U J	NS	180 U	180 U J	190 U
Aroclor-1221	µg/Kg	170 U	180 U	190 U	190 U J	NS	180 U	180 U J	190 U
Aroclor-1232	µg/Kg	170 U	180 U	190 U	190 U J	NS	180 U	180 U J	190 U
Aroclor-1242	µg/Kg	170 U	180 U	190 U	190 U J	NS	180 U	180 U J	190 U
Aroclor-1248	µg/Kg	170 U	180 U	190 U	190 U J	NS	180 U	180 U J	190 U
Aroclor-1254	µg/Kg	350 U	370 U	370 U	370 U J	NS	350 U	350 U J	380 U
Aroclor-1260	µg/Kg	350 U	370 U	370 U	370 U J	NS	390	230 J	380 U
HERBICIDES									
2,4-D	µg/Kg	54 U J	58 U J	59 U	NS	NS	55 U	NS	61 U
2,4-DB	µg/Kg	54 U J	58 U J	59 U	NS	NS	55 U	NS	61 U
2,4,5-T	µg/Kg	5 U J	6 U J	5.9 U	NS	NS	5.5 U	NS	6.1 U
2,4,5-TP (Silvex)	µg/Kg	5 U J	6 U J	5.9 U	NS	NS	5.5 U	NS	6.1 U
Dalapon	µg/Kg	130 U J	140 U J	140 U	NS	NS	130 U	NS	150 U
Dicamba	µg/Kg	5 U J	6 U J	5.9 U	NS	NS	5.5 U	NS	6.1 U
Dichloroprop	µg/Kg	54 U J	58 U J	59 U	NS	NS	55 U	NS	61 U
Dinoseb	µg/Kg	27 U J	29 U J	29 U	NS	NS	28 U	NS	30 U
MCPA	µg/Kg	5400 U J	5800 U J	5900 U	NS	NS	5500 U	NS	6100 U
MCPP	µg/Kg	5400 U J	5800 U J	5900 U	NS	NS	5500 U	NS	6100 U
METALS									
Aluminum	mg/kg	14500	15600	20100	NS	NS	19200	NS	19100
Antimony	mg/kg	12.1 U J	7.6 U J	6.8 U J	NS	NS	8.9 U J	NS	11.2 U J
Arsenic	mg/kg	3.9 J	6.3 J	6.1	NS	NS	4.5	NS	5.1
Barium	mg/kg	94.7	89.5	71.5	NS	NS	50.4	NS	144
Beryllium	mg/kg	0.88 R	0.94 R	1 R	NS	NS	0.99 R	NS	1.2 R
Cadmium	mg/kg	2.6	2.4	4.1	NS	NS	3.9	NS	3.8
Calcium	mg/kg	3540	2870	3010 J	NS	NS	10900 J	NS	5110 J
Chromium	mg/kg	21.5	26.3	30.5	NS	NS	29	NS	26.6
Cobalt	mg/kg	14.3	16.7	17.7	NS	NS	14.4	NS	13.9
Copper	mg/kg	23.2	24.6	25.6	NS	NS	13.8	NS	28.9
Iron	mg/kg	26200	35800	44000	NS	NS	40900	NS	32000
Lead	mg/kg	16	8.1 R	12.4 J	NS	NS	5.5 J	NS	12.8 J
Magnesium	mg/kg	4240	6370	7500	NS	NS	7720	NS	5300
Manganese	mg/kg	1290	1070	938	NS	NS	646	NS	1700
Mercury	mg/kg	0.05 J	0.04 U	0.04 U	NS	NS	0.03 U	NS	0.07 J
Nickel	mg/kg	28.3	43.1	48.2	NS	NS	46.9	NS	35.3
Potassium	mg/kg	1590	1550	1980	NS	NS	1700	NS	2480
Selenium	mg/kg	0.14 U J	0.22 U J	0.19 U J	NS	NS	0.14 U J	NS	0.13 U J
Silver	mg/kg	2 U	1.2 U	0.43 U	NS	NS	0.56 U	NS	1.1 J
Sodium	mg/kg	69.9 U	44.2 U	63.1 J	NS	NS	84.3 J	NS	66 J
Thallium	mg/kg	0.39 U J	0.81 U J	0.54 U	NS	NS	0.39 U	NS	0.37 U
Vanadium	mg/kg	19.1	22.4	26	NS	NS	23.7	NS	32.6
Zinc	mg/kg	131	136	168	NS	NS	112	NS	101
Cyanide	mg/kg	0.65 U	0.65 U	0.62 U	NS	NS	0.62 U	NS	0.71 U

SENECA ARMY DEPOT, ASH LANDFILL
SOIL ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	B-29	B-29	B-29	B-29	B-29	B-29	B-29	B-29
	DEPTH	0-2	0-2	0-2	0-2	2-4	4-6	4-6	4-6
	DATE	12/04/91	12/04/91	12/04/91	12/04/91	12/04/91	12/04/91	12/04/91	12/04/91
	ES ID	S1204-91RE(4)	S1204-91A(1)	S1204-91ARE(1)	S1204-92	S1204-92RE(4)	S1204-93	S1204-93RE(4)	S1204-93A(1)
	LAB ID	150242	150243	150243	150244	150244	150245	150245	150246
COMPOUND	UNITS								
VOCs									
Chloromethane	µg/Kg	NS	12 U	NS	41 U	NS	1400 U	NS	1400 U
Bromomethane	µg/Kg	NS	12 U	NS	41 U	NS	1400 U	NS	1400 U
Vinyl Chloride	µg/Kg	NS	12 U	NS	41 U	NS	1400 U	NS	1400 U
Chloroethane	µg/Kg	NS	12 U	NS	41 U	NS	1400 U	NS	1400 U
Methylene Chloride	µg/Kg	NS	6 U	NS	21 U	NS	680 U	NS	700 U
Acetone	µg/Kg	NS	12 U	NS	42	NS	1400 U	NS	1400 U
Carbon Disulfide	µg/Kg	NS	6 U	NS	21 U	NS	680 U	NS	700 U
1,1-Dichloroethene	µg/Kg	NS	6 U	NS	21 U	NS	680 U	NS	700 U
1,1-Dichloroethane	µg/Kg	NS	6 U	NS	21 U	NS	680 U	NS	700 U
1,2-Dichloroethene (total)	µg/Kg	NS	66	NS	610	NS	14000	NS	11000
Chloroform	µg/Kg	NS	6 U	NS	21 U	NS	680 U	NS	700 U
1,2-Dichloroethane	µg/Kg	NS	6 U	NS	21 U	NS	680 U	NS	700 U
2-Butanone	µg/Kg	NS	12 U	NS	41 U	NS	1400 U	NS	1400 U
1,1,1-Trichloroethane	µg/Kg	NS	6 U	NS	21 U	NS	680 U	NS	700 U
Carbon Tetrachloride	µg/Kg	NS	6 U	NS	21 U	NS	680 U	NS	700 U
Vinyl Acetate	µg/Kg	NS	12 U	NS	41 U	NS	1400 U	NS	1400 U
Bromodichloromethane	µg/Kg	NS	6 U	NS	21 U	NS	680 U	NS	700 U
1,2-Dichloropropane	µg/Kg	NS	6 U	NS	21 U	NS	680 U	NS	700 U
cis-1,3-Dichloropropene	µg/Kg	NS	6 U	NS	21 U	NS	680 U	NS	700 U
Trichloroethene	µg/Kg	NS	58	NS	250	NS	21000	NS	17000
Dibromochloromethane	µg/Kg	NS	6 U	NS	21 U	NS	680 U	NS	700 U
1,1,2-Trichloroethane	µg/Kg	NS	6 U	NS	21 U	NS	680 U	NS	700 U
Benzene	µg/Kg	NS	6 U	NS	21 U	NS	680 U	NS	700 U
trans-1,3-Dichloropropene	µg/Kg	NS	6 U	NS	21 U	NS	680 U	NS	700 U
Bromoform	µg/Kg	NS	6 U	NS	21 U	NS	680 U	NS	700 U
4-Methyl-2-Pentanone	µg/Kg	NS	12 U	NS	41 U	NS	1400 U	NS	1400 U
2-Hexanone	µg/Kg	NS	12 U	NS	41 U	NS	1400 U	NS	1400 U
Tetrachloroethene	µg/Kg	NS	6 U	NS	21 U	NS	680 U	NS	700 U
1,1,2,2-Tetrachloroethane	µg/Kg	NS	6 U	NS	21 U	NS	680 U	NS	700 U
Toluene	µg/Kg	NS	6 U	NS	21 U	NS	680 U	NS	700 U
Chlorobenzene	µg/Kg	NS	6 U	NS	21 U	NS	620 J	NS	360 J
Ethylbenzene	µg/Kg	NS	6 U	NS	21 U	NS	680 U	NS	700 U
Styrene	µg/Kg	NS	6 U	NS	21 U	NS	680 U	NS	700 U
Xylene (total)	µg/Kg	NS	6 U	NS	21 U	NS	680 U	NS	700 U

SENECA ARMY DEPOT, ASH LANDFILL
SOIL ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	B-29	B-29	B-29	B-29	B-29	B-29	B-29	B-29
	DEPTH	0-2	0-2	0-2	0-2	2-4	4-6	4-6	4-6
	DATE	12/04/91	12/04/91	12/04/91	12/04/91	12/04/91	12/04/91	12/04/91	12/04/91
	ES ID	S1204-91RE(4)	S1204-91A(1)	S1204-91ARE(1)	S1204-92	S1204-92RE(4)	S1204-93	S1204-93RE(4)	S1204-93A(1)
	LAB ID	150242	150243	150243	150244	150244	150245	150245	150246
COMPOUND	UNITS								
VOCs									
SEMIVOLATILES									
Phenol	µg/Kg	NS	780 U	NS	720 U	NS	730 U	NS	750 U
bis(2-Chloroethyl) ether	µg/Kg	NS	780 U	NS	720 U	NS	730 U	NS	750 U
2-Chlorophenol	µg/Kg	NS	780 U	NS	720 U	NS	730 U	NS	750 U
1,3-Dichlorobenzene	µg/Kg	NS	780 U	NS	720 U	NS	730 U	NS	750 U
1,4-Dichlorobenzene	µg/Kg	NS	780 U	NS	720 U	NS	730 U	NS	750 U
Benzyl Alcohol	µg/Kg	NS	780 U	NS	720 U	NS	730 U	NS	750 U
1,2-Dichlorobenzene	µg/Kg	NS	780 U	NS	720 U	NS	730 U	NS	750 U
2-Methylphenol	µg/Kg	NS	780 U	NS	720 U	NS	730 U	NS	750 U
bis(2-Chloroisopropyl) ether	µg/Kg	NS	780 U	NS	720 U	NS	730 U	NS	750 U
4-Methylphenol	µg/Kg	NS	780 U	NS	720 U	NS	730 U	NS	750 U
N-Nitroso-di-n-propylamine	µg/Kg	NS	780 U	NS	720 U	NS	730 U	NS	750 U
Hexachloroethane	µg/Kg	NS	780 U	NS	720 U	NS	730 U	NS	750 U
Nitrobenzene	µg/Kg	NS	780 U	NS	720 U	NS	730 U	NS	750 U
Isophorone	µg/Kg	NS	780 U	NS	720 U	NS	730 U	NS	750 U
2-Nitrophenol	µg/Kg	NS	780 U	NS	720 U	NS	730 U	NS	750 U
2,4-Dimethylphenol	µg/Kg	NS	780 U	NS	720 U	NS	730 U	NS	750 U
Benzoic acid	µg/Kg	NS	3800 U	NS	3500 U	NS	3500 U	NS	3600 U
bis(2-Chloroethoxy) methane	µg/Kg	NS	780 U	NS	720 U	NS	730 U	NS	750 U
2,4-Dichlorophenol	µg/Kg	NS	780 U	NS	720 U	NS	730 U	NS	750 U
1,2,4-Trichlorobenzene	µg/Kg	NS	780 U	NS	720 U	NS	730 U	NS	750 U
Naphthalene	µg/Kg	NS	780 U	NS	720 U	NS	730 U	NS	750 U
4-Chloroaniline	µg/Kg	NS	780 U	NS	720 U	NS	730 U	NS	750 U
Hexachlorobutadiene	µg/Kg	NS	780 U	NS	720 U	NS	730 U	NS	750 U
4-Chloro-3-methylphenol	µg/Kg	NS	780 U	NS	720 U	NS	730 U	NS	750 U
2-Methylnaphthalene	µg/Kg	NS	780 U	NS	720 U	NS	730 U	NS	750 U
Hexachlorocyclopentadiene	µg/Kg	NS	780 U	NS	720 U	NS	730 U	NS	750 U
2,4,6-Trichlorophenol	µg/Kg	NS	780 U	NS	720 U	NS	730 U	NS	750 U
2,4,5-Trichlorophenol	µg/Kg	NS	3800 U	NS	3500 U	NS	3500 U	NS	3600 U
2-Chloronaphthalene	µg/Kg	NS	780 U	NS	720 U	NS	730 U	NS	750 U
2-Nitroaniline	µg/Kg	NS	3800 U	NS	3500 U	NS	3500 U	NS	3600 U
Dimethylphthalate	µg/Kg	NS	780 U	NS	720 U	NS	730 U	NS	750 U
Acenaphthylene	µg/Kg	NS	780 U	NS	720 U	NS	730 U	NS	750 U
2,6-Dinitrotoluene	µg/Kg	NS	780 U	NS	720 U	NS	730 U	NS	750 U
3-Nitroaniline	µg/Kg	NS	3800 U	NS	3500 U	NS	3500 U	NS	3600 U
Acenaphthene	µg/Kg	NS	780 U	NS	720 U	NS	730 U	NS	750 U
2,4-Dinitrophenol	µg/Kg	NS	3800 U	NS	3500 U	NS	3500 U	NS	3600 U
4-Nitrophenol	µg/Kg	NS	3800 U	NS	3500 U	NS	3500 U	NS	3600 U
Dibenzofuran	µg/Kg	NS	780 U	NS	720 U	NS	730 U	NS	750 U
2,4-Dinitrotoluene	µg/Kg	NS	780 U	NS	720 U	NS	730 U	NS	750 U
Diethylphthalate	µg/Kg	NS	780 U	NS	720 U	NS	730 U	NS	750 U
4-Chlorophenyl-phenyl ether	µg/Kg	NS	780 U	NS	720 U	NS	730 U	NS	750 U
Fluorene	µg/Kg	NS	780 U	NS	720 U	NS	730 U	NS	750 U
4-Nitroaniline	µg/Kg	NS	3800 U	NS	3500 U	NS	3500 U	NS	3600 U
4,6-Dinitro-2-methylphenol	µg/Kg	NS	3800 U	NS	3500 U	NS	3500 U	NS	3600 U
N-Nitrosodiphenylamine (1)	µg/Kg	NS	780 U	NS	720 U	NS	730 U	NS	750 U
4-Bromophenyl-phenyl ether	µg/Kg	NS	780 U	NS	720 U	NS	730 U	NS	750 U
Hexachlorobenzene	µg/Kg	NS	780 U	NS	720 U	NS	730 U	NS	750 U
Pentachlorophenol	µg/Kg	NS	3800 U	NS	3500 U	NS	3500 U	NS	3600 U
Phenanthrene	µg/Kg	NS	780 U	NS	720 U	NS	730 U	NS	750 U
Anthracene	µg/Kg	NS	780 U	NS	720 U	NS	730 U	NS	750 U
Carbazole	µg/Kg	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate	µg/Kg	NS	780 U	NS	720 U	NS	730 U	NS	750 U
Fluoranthene	µg/Kg	NS	100 J	NS	720 U	NS	730 U	NS	750 U
Pyrene	µg/Kg	NS	120 J	NS	720 U	NS	730 U	NS	750 U
Butylbenzylphthalate	µg/Kg	NS	780 U	NS	720 U	NS	730 U	NS	750 U
3,3'-Dichlorobenzidine	µg/Kg	NS	780 U	NS	1400 U	NS	1500 U	NS	1500 U
Benzo(a)anthracene	µg/Kg	NS	160 J	NS	720 U	NS	730 U	NS	750 U
Chrysene	µg/Kg	NS	160 J	NS	720 U	NS	730 U	NS	750 U
bis(2-Ethylhexyl)phthalate	µg/Kg	NS	780 U	NS	720 U	NS	730 U	NS	750 U
Di-n-octylphthalate	µg/Kg	NS	780 U	NS	720 U	NS	730 U	NS	750 U
Benzo(b)fluoranthene	µg/Kg	NS	140 J	NS	720 U	NS	730 U	NS	750 U
Benzo(k)fluoranthene	µg/Kg	NS	210 J	NS	720 U	NS	730 U	NS	750 U
Benzo(a)pyrene	µg/Kg	NS	190 J	NS	720 U	NS	730 U	NS	750 U
Indeno(1,2,3-cd)pyrene	µg/Kg	NS	780 U	NS	720 U	NS	730 U	NS	750 U
Dibenz(a,h)anthracene	µg/Kg	NS	780 U	NS	720 U	NS	730 U	NS	750 U
Benzo(g,h,i)perylene	µg/Kg	NS	780 U	NS	720 U	NS	730 U	NS	750 U

SENECA ARMY DEPOT, ASH LANDFILL
SOIL ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

COMPOUND	UNITS							
MATRIX		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
LOCATION		B-29	B-29	B-29	B-29	B-29	B-29	B-29	B-29
DEPTH		0-2	0-2	0-2	0-2	2-4	4-6	4-8	4-6
DATE		12/04/91	12/04/91	12/04/91	12/04/91	12/04/91	12/04/91	12/04/91	12/04/91
ES ID		S1204-91RE(4)	S1204-91A(1)	S1204-91ARE(1)	S1204-92	S1204-92RE(4)	S1204-93	S1204-93RE(4)	S1204-93A(1)
LAB ID		150242	150243	150243	150244	150244	150245	150245	150246
VOCs									
PESTICIDES/PCBs									
alpha-BHC	µg/Kg	19 U J	19 U	19 U J	18 U	18 U J	18 U	18 U J	18 U
beta-BHC	µg/Kg	19 U J	19 U	19 U J	18 U	18 U J	18 U	18 U J	18 U
delta-BHC	µg/Kg	19 U J	19 U	19 U J	18 U	18 U J	18 U	18 U J	18 U
gamma-BHC (Lindane)	µg/Kg	19 U J	19 U	19 U J	18 U	18 U J	18 U	18 U J	18 U
Heptachlor	µg/Kg	19 U J	19 U	19 U J	18 U	18 U J	18 U	18 U J	18 U
Aldrin	µg/Kg	19 U J	19 U	19 U J	18 U	18 U J	18 U	18 U J	18 U
Heptachlor epoxide	µg/Kg	19 U J	19 U	19 U J	18 U	18 U J	18 U	18 U J	18 U
Endosulfan I	µg/Kg	19 U J	19 U	19 U J	18 U	18 U J	18 U	18 U J	18 U
Dieldrin	µg/Kg	39 U J	38 U	38 U J	35 U	36 U J	35 U	36 U J	38 U
4,4'-DDE	µg/Kg	39 U J	38 U	38 U J	35 U	36 U J	35 U	38 U J	36 U
Endrin	µg/Kg	39 U J	38 U	38 U J	35 U	36 U J	35 U	38 U J	36 U
Endosulfan II	µg/Kg	39 U J	38 U	38 U J	35 U	38 U J	35 U	36 U J	38 U
4,4'-DDD	µg/Kg	39 U J	38 U	38 U J	35 U	36 U J	35 U	38 U J	36 U
Endosulfan sulfate	µg/Kg	39 U J	38 U	38 U J	35 U	36 U J	35 U	36 U J	36 U
4,4'-DDT	µg/Kg	39 U J	38 U	38 U J	35 U	36 U J	35 U	36 U J	36 U
Methoxychlor	µg/Kg	190 U J	190 U	190 U J	180 U	180 U J	180 U	180 U J	180 U
Endrin ketone	µg/Kg	39 U J	38 U	38 U J	35 U	36 U J	35 U	38 U J	38 U
Endrin aldehyde	µg/Kg	NS	NS	NS	NS	NS	NS	NS	NS
alpha-Chlordane	µg/Kg	190 U J	190 U	190 U J	180 U	180 U J	180 U	180 U J	180 U
gamma-Chlordane	µg/Kg	190 U J	190 U	190 U J	180 U	180 U J	180 U	180 U J	180 U
Toxaphene	µg/Kg	390 U J	380 U	380 U J	350 U	360 U J	350 U	360 U J	360 U
Aroclor-1016	µg/Kg	190 U J	190 U	190 U J	180 U	180 U J	180 U	180 U J	180 U
Aroclor-1221	µg/Kg	190 U J	190 U	190 U J	180 U	180 U J	180 U	180 U J	180 U
Aroclor-1232	µg/Kg	190 U J	190 U	190 U J	180 U	180 U J	180 U	180 U J	180 U
Aroclor-1242	µg/Kg	190 U J	190 U	190 U J	180 U	180 U J	180 U	180 U J	180 U
Aroclor-1248	µg/Kg	190 U J	190 U	190 U J	180 U	180 U J	180 U	180 U J	180 U
Aroclor-1254	µg/Kg	390 U J	380 U	380 U J	350 U	360 U J	350 U	360 U J	360 U
Aroclor-1260	µg/Kg	390 U J	380 U	380 U J	350 U	360 U J	350 U	360 U J	360 U
HERBICIDES									
2,4-D	µg/Kg	NS	60 U	NS	57 U	NS	57 U	NS	56 U
2,4-DB	µg/Kg	NS	60 U	NS	57 U	NS	410 J	NS	56 U J
2,4,5-T	µg/Kg	NS	6 U	NS	5.7 U	NS	5.7 U	NS	5.6 U
2,4,5-TP (Silvex)	µg/Kg	NS	6 U	NS	5.7 U	NS	5.7 U	NS	5.6 U
Dalapon	µg/Kg	NS	140 U	NS	140 U	NS	140 U	NS	130 U
Dicamba	µg/Kg	NS	6 U	NS	5.7 U	NS	5.7 U	NS	5.6 U
Dichloroprop	µg/Kg	NS	60 U	NS	57 U	NS	57 U	NS	58 U
Dinoseb	µg/Kg	NS	30 U	NS	29 U	NS	28 U	NS	28 U
MCPA	µg/Kg	NS	6000 U	NS	5700 U	NS	5700 U	NS	5600 U
MCPP	µg/Kg	NS	6000 U	NS	5700 U	NS	5700 U	NS	5600 U
METALS									
Aluminum	mg/kg	NS	16300	NS	18100	NS	18500	NS	14700
Antimony	mg/kg	NS	10.4 U J	NS	6.6 U J	NS	10.4 U J	NS	10.3 U J
Arsenic	mg/kg	NS	4.7	NS	4.2	NS	4.4	NS	4.2
Barium	mg/kg	NS	84.1	NS	71.8	NS	49.9	NS	34.8 J
Beryllium	mg/kg	NS	1 R	NS	0.9 R	NS	0.99 R	NS	0.81 R
Cadmium	mg/kg	NS	3.4	NS	3.7	NS	4	NS	3
Calcium	mg/kg	NS	5040 J	NS	60500 J	NS	12100 J	NS	15900 J
Chromium	mg/kg	NS	23.2	NS	25.7	NS	27.5	NS	22
Cobalt	mg/kg	NS	10.8	NS	15.2	NS	15.2	NS	10.1
Copper	mg/kg	NS	24.5	NS	27.3	NS	21.5	NS	16
Iron	mg/kg	NS	26100	NS	35300	NS	36800	NS	27500
Lead	mg/kg	NS	9.4 J	NS	6.8 J	NS	4.1 J	NS	4.3 J
Magnesium	mg/kg	NS	5230	NS	9690	NS	7460	NS	6030
Manganese	mg/kg	NS	551	NS	667	NS	492 J	NS	364 J
Mercury	mg/kg	NS	0.05 J	NS	0.03 U	NS	0.05 J	NS	0.05 U
Nickel	mg/kg	NS	31.1	NS	41.8	NS	41.2	NS	32.4
Potassium	mg/kg	NS	2230	NS	2180	NS	1690	NS	1350
Selenium	mg/kg	NS	0.13 U J	NS	0.75 U J	NS	0.15 U J	NS	0.22 U J
Silver	mg/kg	NS	0.68 U	NS	0.42 U	NS	0.89 J	NS	0.66 U
Sodium	mg/kg	NS	64.9 J	NS	131 J	NS	80.8 J	NS	78.6 J
Thallium	mg/kg	NS	0.38 U	NS	0.42 U	NS	0.41 U	NS	0.63 U
Vanadium	mg/kg	NS	27.8	NS	25.3	NS	23.5	NS	18.9 R
Zinc	mg/kg	NS	77.2	NS	101	NS	100	NS	68.5
Cyanide	mg/kg	NS	0.71 U	NS	0.65 U	NS	0.59 U	NS	0.6 U

SENECA ARMY DEPOT, ASH LANDFILL
SOIL ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

COMPOUND	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	B-29	B-30	B-30	B-30	B-30	B-30	B-30	B-30
	DEPTH	4-6	0-2	0-2	0-2	2-4	2-4	2-4	4-6
	DATE	12/04/91	12/04/91	12/04/91	12/04/91	12/04/91	12/04/91	12/04/91	12/04/91
	ES ID	S1204-93ARE(1,4)	S1204-94	S1204-94A(1)	S1204-94RE(4)	S1204-95RE(4)	S1204-95	S1204-95RE(4)	S1204-96
	LAB ID	150246	150247	150248	150247	150249	150249	150249	150250
	UNITS								
VOCs									
Chloromethane	µg/Kg	NS	12 U	12 U	NS	57 U J	57 U J	NS	1400 U
Bromomethane	µg/Kg	NS	12 U	12 U	NS	57 U J	57 U J	NS	1400 U
Vinyl Chloride	µg/Kg	NS	12 U	12 U	NS	57 U J	57 U J	NS	1400 U
Chloroethane	µg/Kg	NS	12 U	12 U	NS	57 U J	57 U J	NS	1400 U
Methylene Chloride	µg/Kg	NS	6 U	6 U	NS	29 U J	29 U J	NS	720 U
Acetone	µg/Kg	NS	12 U	12 U	NS	57 U J	57 U J	NS	1400 U
Carbon Disulfide	µg/Kg	NS	6 U	6 U	NS	29 U J	29 U J	NS	720 U
1,1-Dichloroethene	µg/Kg	NS	6 U	6 U	NS	29 U J	29 U J	NS	720 U
1,1-Dichloroethane	µg/Kg	NS	6 U	6 U	NS	29 U J	29 U J	NS	720 U
1,2-Dichloroethene (total)	µg/Kg	NS	45	31	NS	1400 J	1700 J	NS	18000
Chloroform	µg/Kg	NS	6 U	4 J	NS	29 U J	29 U J	NS	720 U
1,2-Dichloroethane	µg/Kg	NS	6 U	6 U	NS	29 U J	29 U J	NS	720 U
2-Butanone	µg/Kg	NS	12 U	12 U	NS	57 U J	57 U J	NS	1400 U
1,1,1-Trichloroethane	µg/Kg	NS	6 U	6 U	NS	29 U J	29 U J	NS	720 U
Carbon Tetrachloride	µg/Kg	NS	6 U	6 U	NS	29 U J	29 U J	NS	720 U
Vinyl Acetate	µg/Kg	NS	12 U	12 U	NS	57 U J	57 U J	NS	1400 U
Bromodichloromethane	µg/Kg	NS	6 U	6 U	NS	29 U J	29 U J	NS	720 U
1,2-Dichloropropane	µg/Kg	NS	6 U	6 U	NS	29 U J	29 U J	NS	720 U
cis-1,3-Dichloropropene	µg/Kg	NS	6 U	6 U	NS	29 U J	29 U J	NS	720 U
Trichloroethene	µg/Kg	NS	5 J	5 J	NS	110 J	91 J	NS	450 J
Dibromochloromethane	µg/Kg	NS	6 U	6 U	NS	29 U J	29 U J	NS	720 U
1,1,2-Trichloroethane	µg/Kg	NS	6 U	6 U	NS	29 U J	29 U J	NS	720 U
Benzene	µg/Kg	NS	6 U	6 U	NS	29 U J	29 U J	NS	720 U
trans-1,3-Dichloropropene	µg/Kg	NS	6 U	6 U	NS	29 U J	29 U J	NS	720 U
Bromoform	µg/Kg	NS	6 U	6 U	NS	29 U J	29 U J	NS	720 U
4-Methyl-2-Pentanone	µg/Kg	NS	12 U	12 U	NS	57 U J	57 U J	NS	1400 U
2-Hexanone	µg/Kg	NS	12 U	12 U	NS	57 U J	57 U J	NS	1400 U
Tetrachloroethene	µg/Kg	NS	6 U	6 U	NS	29 U J	29 U J	NS	720 U
1,1,2,2-Tetrachloroethane	µg/Kg	NS	6 U	6 U	NS	29 U J	29 U J	NS	720 U
Toluene	µg/Kg	NS	6 U	6 U	NS	29 U J	29 U J	NS	410 J
Chlorobenzene	µg/Kg	NS	6 U	6 U	NS	29 U J	29 U J	NS	720 U
Ethylbenzene	µg/Kg	NS	6 U	6 U	NS	29 U J	29 U J	NS	720 U
Styrene	µg/Kg	NS	6 U	6 U	NS	29 U J	29 U J	NS	720 U
Xylene (total)	µg/Kg	NS	6 U	6 U	NS	41 J	28 J	NS	970

SENECA ARMY DEPOT, ASH LANDFILL
SOIL ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

COMPOUND	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	B-29	B-30	B-30	B-30	B-30	B-30	B-30	B-30
	DEPTH	4-6	0-2	0-2	0-2	2-4	2-4	2-4	4-6
	DATE	12/04/91	12/04/91	12/04/91	12/04/91	12/04/91	12/04/91	12/04/91	12/04/91
	ES ID	S1204-93ARE(1,4)	S1204-94	S1204-94A(1)	S1204-94RE(4)	S1204-95RE(4)	S1204-95	S1204-95RE(4)	S1204-96
	LAB ID	150246	150247	150248	150247	150249	150249	150249	150250
	UNITS								
VOCs									
SEMIVOLATILES									
Phenol	µg/Kg	NS	800 U R	760 U	800 U J	NS	720 U	720 U	1500 U J
bis(2-Chloroethyl) ether	µg/Kg	NS	800 U R	760 U	800 U J	NS	720 U J	720 U J	1500 U J
2-Chlorophenol	µg/Kg	NS	800 U R	760 U	800 U J	NS	720 U	720 U	1500 U J
1,3-Dichlorobenzene	µg/Kg	NS	800 U R	760 U	800 U J	NS	720 U J	720 U J	1500 U J
1,4-Dichlorobenzene	µg/Kg	NS	800 U R	760 U	800 U J	NS	720 U J	720 U J	1500 U J
Benzyl Alcohol	µg/Kg	NS	800 U R	760 U	800 U J	NS	720 U J	720 U J	1500 U J
1,2-Dichlorobenzene	µg/Kg	NS	800 U R	760 U	800 U J	NS	720 U J	720 U J	1500 U J
2-Methylphenol	µg/Kg	NS	800 U R	760 U	800 U J	NS	720 U	720 U	1500 U J
bis(2-Chloroisopropyl) ether	µg/Kg	NS	800 U R	760 U	800 U J	NS	720 U J	720 U J	1500 U J
4-Methylphenol	µg/Kg	NS	800 U R	760 U	800 U J	NS	720 U	720 U	1500 U J
N-Nitroso-di-n-propylamine	µg/Kg	NS	800 U R	760 U	800 U J	NS	720 U J	720 U J	1500 U J
Hexachloroethane	µg/Kg	NS	800 U R	760 U	800 U J	NS	720 U J	720 U J	1500 U J
Nitrobenzene	µg/Kg	NS	800 U R	760 U	800 U J	NS	720 U J	720 U J	1500 U J
Isophorone	µg/Kg	NS	800 U R	760 U	800 U J	NS	720 U J	720 U J	1500 U J
2-Nitrophenol	µg/Kg	NS	800 U R	760 U	800 U J	NS	720 U	720 U	1500 U J
2,4-Dimethylphenol	µg/Kg	NS	800 U R	760 U	800 U J	NS	720 U	720 U	1500 U J
Benzoic acid	µg/Kg	NS	3900 U R	120 J	3900 U J	NS	3500 U J	720 U J	7100 U J
bis(2-Chloroethoxy) methane	µg/Kg	NS	800 U R	760 U	800 U J	NS	720 U J	720 U J	1500 U J
2,4-Dichlorophenol	µg/Kg	NS	800 U R	760 U	800 U J	NS	720 U	720 U	1500 U J
1,2,4-Trichlorobenzene	µg/Kg	NS	800 U R	760 U	800 U J	NS	720 U J	720 U J	1500 U J
Naphthalene	µg/Kg	NS	800 U R	760 U	800 U J	NS	720 U J	720 U J	240 J
4-Chloroaniline	µg/Kg	NS	800 U R	760 U	800 U J	NS	720 U J	720 U J	1500 U J
Hexachlorobutadiene	µg/Kg	NS	800 U R	760 U	800 U J	NS	720 U J	720 U J	1500 U J
4-Chloro-3-methylphenol	µg/Kg	NS	800 U R	760 U	800 U J	NS	720 U	720 U	1500 U J
2-Methylnaphthalene	µg/Kg	NS	800 U R	760 U	800 U J	NS	720 U J	720 U J	250 J
Hexachlorocyclopentadiene	µg/Kg	NS	800 U R	760 U	800 U J	NS	720 U J	720 U J	1500 U J
2,4,6-Trichlorophenol	µg/Kg	NS	800 U R	760 U	800 U J	NS	720 U	720 U	1500 U J
2,4,5-Trichlorophenol	µg/Kg	NS	3900 U R	3700 U	3900 U J	NS	3500 U	3500 U	7100 U J
2-Chloronaphthalene	µg/Kg	NS	800 U R	760 U	800 U J	NS	720 U J	720 U J	1500 U J
2-Nitroaniline	µg/Kg	NS	3900 U R	3700 U	3900 U J	NS	3500 U J	3500 U J	7100 U J
Dimethylphthalate	µg/Kg	NS	800 U R	760 U	800 U J	NS	720 U J	720 U J	1500 U J
Acenaphthylene	µg/Kg	NS	800 U R	760 U	800 U J	NS	720 U J	720 U J	1500 U J
2,6-Dinitrotoluene	µg/Kg	NS	800 U R	760 U	800 U J	NS	720 U J	720 U J	1500 U J
3-Nitroaniline	µg/Kg	NS	3900 U R	3700 U	3900 U J	NS	3500 U J	3500 U J	7100 U J
Acenaphthene	µg/Kg	NS	800 U R	760 U	800 U J	NS	720 U J	720 U J	1500 U J
2,4-Dinitrophenol	µg/Kg	NS	3900 U R	3700 U	3900 U J	NS	3500 U	3500 U	7100 U J
4-Nitrophenol	µg/Kg	NS	3900 U R	81 J	3900 U J	NS	3500 U	3500 U	7100 U J
Dibenzofuran	µg/Kg	NS	800 U R	760 U	800 U J	NS	720 U J	720 U J	1500 U J
2,4-Dinitrotoluene	µg/Kg	NS	800 U R	760 U	800 U J	NS	720 U J	720 U J	1500 U J
Diethylphthalate	µg/Kg	NS	800 U R	760 U	800 U J	NS	720 U J	720 U J	1500 U J
4-Chlorophenyl-phenylether	µg/Kg	NS	800 U R	760 U	800 U J	NS	720 U J	720 U J	1500 U J
Fluorene	µg/Kg	NS	800 U R	760 U	800 U J	NS	720 U J	720 U J	1500 U J
4-Nitroaniline	µg/Kg	NS	3900 U R	3700 U	3900 U J	NS	3500 U J	3500 U J	7100 U J
4,6-Dinitro-2-methylphenol	µg/Kg	NS	3900 U R	3700 U	3900 U J	NS	3500 U	3500 U	7100 U J
N-Nitrosodiphenylamine (1)	µg/Kg	NS	800 U R	760 U	800 U J	NS	720 U J	720 U J	1500 U J
4-Bromophenyl-phenylether	µg/Kg	NS	800 U R	760 U	800 U J	NS	720 U J	720 U J	1500 U J
Hexachlorobenzene	µg/Kg	NS	800 U R	760 U	800 U J	NS	720 U J	720 U J	1500 U J
Pentachlorophenol	µg/Kg	NS	3900 U R	3700 U	3900 U J	NS	3500 U	3500 U	7100 U J
Phenanthrene	µg/Kg	NS	800 U R	760 U	800 U J	NS	720 U J	720 U J	1500 U J
Anthracene	µg/Kg	NS	800 U R	760 U	800 U J	NS	720 U J	720 U J	1500 U J
Carbazole	µg/Kg	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate	µg/Kg	NS	800 U R	760 U	800 U J	NS	720 U J	720 U J	1500 U J
Fluoranthene	µg/Kg	NS	800 U R	760 U	800 U J	NS	720 U J	720 U J	1500 U J
Pyrene	µg/Kg	NS	800 U R	760 U	800 U J	NS	720 U J	720 U J	1500 U J
Butylbenzylphthalate	µg/Kg	NS	800 U R	760 U	800 U J	NS	720 U J	720 U J	1500 U J
3,3'-Dichlorobenzidine	µg/Kg	NS	1600 U R	760 U	1600 U J	NS	1400 U J	1400 U J	2900 U J
Benzo(a)anthracene	µg/Kg	NS	800 U R	85 J	800 U J	NS	720 U J	720 U J	1500 U J
Chrysene	µg/Kg	NS	800 U R	79 J	800 U J	NS	720 U J	720 U J	1500 U J
bis(2-Ethylhexyl)phthalate	µg/Kg	NS	800 U R	760 U	800 U J	NS	720 U J	720 U J	1500 U J
Di-n-octylphthalate	µg/Kg	NS	800 U R	760 U	800 U J	NS	720 U J	720 U J	1500 U J
Benzo(b)fluoranthene	µg/Kg	NS	800 U R	760 U	800 U J	NS	720 U J	720 U J	1500 U J
Benzo(k)fluoranthene	µg/Kg	NS	800 U R	760 U	800 U J	NS	720 U J	720 U J	1500 U J
Benzo(a)pyrene	µg/Kg	NS	800 U R	70 J	800 U J	NS	720 U J	720 U J	1500 U J
Indeno(1,2,3-cd)pyrene	µg/Kg	NS	800 U R	81 J	800 U J	NS	720 U J	720 U J	1500 U J
Dibenz(a,h)anthracene	µg/Kg	NS	800 U R	81 J	800 U J	NS	720 U J	720 U J	1500 U J
Benzo(g,h,i)perylene	µg/Kg	NS	800 U R	84 J	800 U J	NS	720 U J	720 U J	1500 U J

SENECA ARMY DEPOT, ASH LANDFILL
SOIL ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	B-29	B-30	B-30	B-30	B-30	B-30	B-30	B-30
	DEPTH	4-6	0-2	0-2	0-2	2-4	2-4	2-4	4-6
	DATE	12/04/91	12/04/91	12/04/91	12/04/91	12/04/91	12/04/91	12/04/91	12/04/91
	ES ID	S1204-93ARE(1,4)	S1204-94	S1204-94A(1)	S1204-94RE(4)	S1204-95RE(4)	S1204-95	S1204-95RE(4)	S1204-96
	LAB ID	150246	150247	150248	150247	150249	150249	150249	150250
COMPOUND	UNITS								
VOCs									
PESTICIDES/PCBs									
alpha-BHC	µg/Kg	18 U J	19 U R	18 U	19 U J	19 U	17 U	18 U J	18 U
beta-BHC	µg/Kg	18 U J	19 U R	18 U	19 U J	19 U	17 U	18 U J	18 U
delta-BHC	µg/Kg	18 U J	19 U R	18 U	19 U J	19 U	17 U	18 U J	18 U
gamma-BHC (Lindane)	µg/Kg	18 U J	19 U R	18 U	19 U J	19 U	17 U	18 U J	18 U
Heptachlor	µg/Kg	18 U J	19 U R	18 U	19 U J	19 U	17 U	18 U J	18 U
Aldrin	µg/Kg	18 U J	19 U R	18 U	19 U J	19 U	17 U	18 U J	18 U
Heptachlor epoxide	µg/Kg	18 U J	19 U R	18 U	19 U J	19 U	17 U	18 U J	18 U
Endosulfan I	µg/Kg	18 U J	19 U R	18 U	19 U J	19 U	17 U	18 U J	18 U
Dieldrin	µg/Kg	35 U J	39 U R	37 U	38 U J	38 U	35 U	35 U J	36 U
4,4'-DDE	µg/Kg	35 U J	39 U R	37 U	38 U J	38 U	35 U	35 U J	36 U
Endrin	µg/Kg	35 U J	39 U R	37 U	38 U J	38 U	35 U	35 U J	36 U
Endosulfan II	µg/Kg	35 U J	39 U R	37 U	38 U J	38 U	35 U	35 U J	36 U
4,4'-DDD	µg/Kg	35 U J	39 U R	37 U	38 U J	38 U	35 U	35 U J	36 U
Endosulfan sulfate	µg/Kg	35 U J	39 U R	37 U	38 U J	38 U	35 U	35 U J	36 U
4,4'-DDT	µg/Kg	35 U J	39 U R	37 U	38 U J	38 U	35 U	35 U J	36 U
Methoxychlor	µg/Kg	180 U J	190 U R	180 U	190 U J	190 U	170 U	180 U J	180 U
Endrin ketone	µg/Kg	35 U J	39 U R	37 U	38 U J	38 U	35 U	35 U J	36 U
Endrin aldehyde	µg/Kg	NS	NS	NS	NS	NS	NS	NS	NS
alpha-Chlordane	µg/Kg	180 U J	190 U R	180 U	190 U J	190 U	170 U	180 U J	180 U
gamma-Chlordane	µg/Kg	180 U J	190 U R	180 U	190 U J	190 U	170 U	180 U J	180 U
Toxaphene	µg/Kg	350 U J	390 U R	370 U	380 U J	380 U	350 U	350 U J	360 U
Aroclor-1016	µg/Kg	180 U J	190 U R	180 U	190 U J	190 U	170 U	180 U J	180 U
Aroclor-1221	µg/Kg	180 U J	190 U R	180 U	190 U J	190 U	170 U	180 U J	180 U
Aroclor-1232	µg/Kg	180 U J	190 U R	180 U	190 U J	190 U	170 U	180 U J	180 U
Aroclor-1242	µg/Kg	180 U J	190 U R	180 U	190 U J	190 U	170 R	180 U J	200 R
Aroclor-1248	µg/Kg	180 U J	190 U R	180 U	190 U J	190 U	170 U	180 U J	180 U
Aroclor-1254	µg/Kg	350 U J	390 U R	370 U	380 U J	380 U	350 U	350 U J	360 U
Aroclor-1260	µg/Kg	350 U J	390 U R	370 U	380 U J	380 U	580	770 J	370
HERBICIDES									
2,4-D	µg/Kg	NS	61 U	60 U	NS	NS	56 U	NS	56 U
2,4-DB	µg/Kg	NS	61 U	60 U	NS	NS	56 U	NS	56 U
2,4,5-T	µg/Kg	NS	6.1 U	6 U	NS	NS	5.6 U	NS	5.6 U
2,4,5-TP (Silvex)	µg/Kg	NS	6.1 U	6 U	NS	NS	5.6 U	NS	5.6 U
Dalapon	µg/Kg	NS	150 U	140 U	NS	NS	130 U	NS	130 U
Dicamba	µg/Kg	NS	6.1 U	6 U	NS	NS	5.6 U	NS	5.6 U
Dichloroprop	µg/Kg	NS	61 U	60 U	NS	NS	56 U	NS	56 U
Dinoseb	µg/Kg	NS	30 U	30 U	NS	NS	28 U	NS	28 U
MCPA	µg/Kg	NS	6100 U	6000 U	NS	NS	5600 U	NS	5600 U
MCPP	µg/Kg	NS	6100 U	6000 U	NS	NS	5600 U	NS	5600 U
METALS									
Aluminum	mg/kg	NS	16200	14400	NS	NS	15700	NS	13000
Antimony	mg/kg	NS	7.3 U J	9.5 U J	NS	NS	7.6 U J	NS	6.3 U J
Arsenic	mg/kg	NS	5.1	4.8	NS	NS	5.5	NS	3
Barium	mg/kg	NS	86.4	74.6	NS	NS	64.9	NS	38.5
Beryllium	mg/kg	NS	0.79 R	0.8 R	NS	NS	0.82 R	NS	0.69 R
Cadmium	mg/kg	NS	2.9	2.2	NS	NS	3	NS	2.9
Calcium	mg/kg	NS	16900 J	20200	NS	NS	44800 J	NS	2460 J
Chromium	mg/kg	NS	20	18.5	NS	NS	22.5	NS	20.7
Cobalt	mg/kg	NS	8.9	7.8 J	NS	NS	12.5	NS	10.4
Copper	mg/kg	NS	18.9	18.1	NS	NS	22.9	NS	12
Iron	mg/kg	NS	24000	19700	NS	NS	27700	NS	29800
Lead	mg/kg	NS	11.5 J	8.8 J	NS	NS	7 J	NS	7.3 J
Magnesium	mg/kg	NS	5190	10700	NS	NS	7660	NS	5160
Manganese	mg/kg	NS	735	597	NS	NS	627	NS	347
Mercury	mg/kg	NS	0.04 U	0.05 J	NS	NS	0.04 J	NS	0.04 U
Nickel	mg/kg	NS	23.7	19.8	NS	NS	36.7	NS	31
Potassium	mg/kg	NS	2040	2120	NS	NS	1910	NS	938
Selenium	mg/kg	NS	0.17 U J	1.1 U J	NS	NS	0.98 U J	NS	0.61 U J
Silver	mg/kg	NS	0.47 U	0.61 U	NS	NS	0.48 U	NS	0.45 J
Sodium	mg/kg	NS	83.3 J	74.8 J	NS	NS	101 J	NS	40 J
Thallium	mg/kg	NS	0.47 U	0.6 U	NS	NS	0.55 U	NS	0.34 U
Vanadium	mg/kg	NS	25.2	24	NS	NS	21.5 R	NS	16 R
Zinc	mg/kg	NS	68.5	69.5	NS	NS	98.5	NS	74.4
Cyanide	mg/kg	NS	0.69 U	0.68 U	NS	NS	0.61 U	NS	0.65 U

SENECA ARMY DEPOT, ASH LANDFILL
SOIL ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	B-30	B-30	B-30	B-30	B-31	B-31	B-31	B-31
	DEPTH	4-6	4-6	4-6	4-6	0-2	0-2	0-2	0-2
	DATE	12/04/91	12/04/91	12/04/91	12/04/91	12/05/91	12/05/91	12/05/91	12/05/91
	ES ID	S1204-96A(1)	S1204-96ADL(5)	S1204-96RE(4)	S1204-96ARE(1,4)	S1205-97	S1205-97A(1)	S1205-97RE(4)	S1205-97ARE(1,4)
	LAB ID	150251	150251	150250	150251	150252	150253	150252	150253
COMPOUND	UNITS								
VOCs									
Chloromethane	µg/Kg	1400 U	2800 U R	NS	NS	12 U	12 U	NS	NS
Bromomethane	µg/Kg	1400 U	2800 U R	NS	NS	12 U	12 U	NS	NS
Vinyl Chloride	µg/Kg	1400 U	2800 U R	NS	NS	12 U	12 U	NS	NS
Chloroethane	µg/Kg	1400 U	2800 U R	NS	NS	12 U	12 U	NS	NS
Methylene Chloride	µg/Kg	710 U	1500 R	NS	NS	6 U	6 U	NS	NS
Acetone	µg/Kg	680 J	4100 R	NS	NS	12 U	12 U	NS	NS
Carbon Disulfide	µg/Kg	710 U	1400 U R	NS	NS	6 U	6 U	NS	NS
1,1-Dichloroethene	µg/Kg	710 U	1400 U R	NS	NS	6 U	6 U	NS	NS
1,1-Dichloroethane	µg/Kg	710 U	1400 U R	NS	NS	6 U	6 U	NS	NS
1,2-Dichloroethene (total)	µg/Kg	16000	4100 R	NS	NS	6 U	6 U	NS	NS
Chloroform	µg/Kg	710 U	1400 U R	NS	NS	6 U	6 U	NS	NS
1,2-Dichloroethane	µg/Kg	710 U	1400 U R	NS	NS	6 U	6 U	NS	NS
2-Butanone	µg/Kg	1400 U	2800 U R	NS	NS	12 U	12 U	NS	NS
1,1,1-Trichloroethane	µg/Kg	710 U	1400 U R	NS	NS	6 U	6 U	NS	NS
Carbon Tetrachloride	µg/Kg	710 U	1400 U R	NS	NS	6 U	6 U	NS	NS
Vinyl Acetate	µg/Kg	1400 U	2800 U R	NS	NS	12 U	12 U	NS	NS
Bromodichloromethane	µg/Kg	710 U	1400 U R	NS	NS	6 U	6 U	NS	NS
1,2-Dichloropropane	µg/Kg	710 U	1400 U R	NS	NS	6 U	6 U	NS	NS
cis-1,3-Dichloropropene	µg/Kg	710 U	1400 U R	NS	NS	6 U	6 U	NS	NS
Trichloroethene	µg/Kg	390 J	1400 U R	NS	NS	23 J	110 J	NS	NS
Dibromochloromethane	µg/Kg	710 U	1400 U R	NS	NS	6 U	6 U	NS	NS
1,1,2-Trichloroethane	µg/Kg	710 U	1400 U R	NS	NS	6 U	6 U	NS	NS
Benzene	µg/Kg	710 U	1400 U R	NS	NS	6 U	6 U	NS	NS
trans-1,3-Dichloropropene	µg/Kg	710 U	1400 U R	NS	NS	6 U	6 U	NS	NS
Bromoform	µg/Kg	710 U	1400 U R	NS	NS	6 U	6 U	NS	NS
4-Methyl-2-Pentanone	µg/Kg	1400 U	2800 U R	NS	NS	12 U	12 U	NS	NS
2-Hexanone	µg/Kg	1400 U	2800 U R	NS	NS	12 U	12 U	NS	NS
Tetrachloroethene	µg/Kg	710 U	1400 U R	NS	NS	6 U	6 U	NS	NS
1,1,2,2-Tetrachloroethane	µg/Kg	710 U	1400 U R	NS	NS	6 U	6 U	NS	NS
Toluene	µg/Kg	640 J	420 R	NS	NS	6 U	6 U	NS	NS
Chlorobenzene	µg/Kg	710 U	1400 U R	NS	NS	6 U	6 U	NS	NS
Ethylbenzene	µg/Kg	660 J	520 R	NS	NS	6 U	6 U	NS	NS
Styrene	µg/Kg	710 U	1400 U R	NS	NS	6 U	6 U	NS	NS
Xylene (total)	µg/Kg	2100	970 R	NS	NS	6 U	6 U	NS	NS

SENECA ARMY DEPOT, ASH LANDFILL
SOIL ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	B-30	B-30	B-30	B-30	B-31	B-31	B-31	B-31
	DEPTH	4-6	4-6	4-6	4-6	0-2	0-2	0-2	0-2
	DATE	12/04/91	12/04/91	12/04/91	12/04/91	12/05/91	12/05/91	12/05/91	12/05/91
	ES ID	S1204-96A(1)	S1204-96ADL(5)	S1204-96RE(4)	S1204-96ARE(1,4)	S1205-97	S1205-97A(1)	S1205-97RE(4)	S1205-97ARE(1,4)
	LAB ID	150251	150251	150250	150251	150252	150253	150252	150253
COMPOUND	UNITS								
VOCs									
SEMIVOLATILES									
Phenol	µg/Kg	1400 U J	NS	NS	NS	800 U	780 U	NS	NS
bis(2-Chloroethyl) ether	µg/Kg	1400 U J	NS	NS	NS	800 U	780 U	NS	NS
2-Chlorophenol	µg/Kg	1400 U J	NS	NS	NS	800 U	780 U	NS	NS
1,3-Dichlorobenzene	µg/Kg	1400 U J	NS	NS	NS	800 U	780 U	NS	NS
1,4-Dichlorobenzene	µg/Kg	1400 U J	NS	NS	NS	800 U	780 U	NS	NS
Benzyl Alcohol	µg/Kg	1400 U J	NS	NS	NS	800 U	780 U	NS	NS
1,2-Dichlorobenzene	µg/Kg	1400 U J	NS	NS	NS	800 U	780 U	NS	NS
2-Methylphenol	µg/Kg	1400 U J	NS	NS	NS	800 U	780 U	NS	NS
bis(2-Chloroisopropyl) ether	µg/Kg	1400 U J	NS	NS	NS	800 U	780 U	NS	NS
4-Methylphenol	µg/Kg	1400 U J	NS	NS	NS	800 U	780 U	NS	NS
N-Nitroso-di-n-propylamine	µg/Kg	1400 U J	NS	NS	NS	800 U	780 U	NS	NS
Hexachloroethane	µg/Kg	1400 U J	NS	NS	NS	800 U	780 U	NS	NS
Nitrobenzene	µg/Kg	1400 U J	NS	NS	NS	800 U	780 U	NS	NS
Isophorone	µg/Kg	1400 U J	NS	NS	NS	800 U	780 U	NS	NS
2-Nitrophenol	µg/Kg	1400 U J	NS	NS	NS	800 U	780 U	NS	NS
2,4-Dimethylphenol	µg/Kg	1400 U J	NS	NS	NS	800 U	780 U	NS	NS
Benzoic acid	µg/Kg	7000 U J	NS	NS	NS	3900 U	94 J	NS	NS
bis(2-Chloroethoxy) methane	µg/Kg	1400 U J	NS	NS	NS	800 U	780 U	NS	NS
2,4-Dichlorophenol	µg/Kg	1400 U J	NS	NS	NS	800 U	780 U	NS	NS
1,2,4-Trichlorobenzene	µg/Kg	1400 U J	NS	NS	NS	800 U	780 U	NS	NS
Naphthalene	µg/Kg	240 J	NS	NS	NS	800 U	780 U	NS	NS
4-Chloroaniline	µg/Kg	1400 U J	NS	NS	NS	800 U	780 U	NS	NS
Hexachlorobutadiene	µg/Kg	1400 U J	NS	NS	NS	800 U	780 U	NS	NS
4-Chloro-3-methylphenol	µg/Kg	1400 U J	NS	NS	NS	800 U	780 U	NS	NS
2-Methylnaphthalene	µg/Kg	220 J	NS	NS	NS	78 J	780 U	NS	NS
Hexachlorocyclopentadiene	µg/Kg	1400 U J	NS	NS	NS	800 U	780 U	NS	NS
2,4,6-Trichlorophenol	µg/Kg	1400 U J	NS	NS	NS	800 U	780 U	NS	NS
2,4,5-Trichlorophenol	µg/Kg	7000 U J	NS	NS	NS	3900 U	3800 U	NS	NS
2-Chloronaphthalene	µg/Kg	1400 U J	NS	NS	NS	800 U	780 U	NS	NS
2-Nitroaniline	µg/Kg	7000 U J	NS	NS	NS	3900 U	3800 U	NS	NS
Dimethylphthalate	µg/Kg	1400 U J	NS	NS	NS	800 U	780 U	NS	NS
Acenaphthylene	µg/Kg	1400 U J	NS	NS	NS	800 U	780 U	NS	NS
2,6-Dinitrotoluene	µg/Kg	1400 U J	NS	NS	NS	800 U	780 U	NS	NS
3-Nitroaniline	µg/Kg	7000 U J	NS	NS	NS	3900 U	3800 U	NS	NS
Acenaphthene	µg/Kg	1400 U J	NS	NS	NS	800 U	780 U	NS	NS
2,4-Dinitrophenol	µg/Kg	7000 U J	NS	NS	NS	3900 U	3800 U	NS	NS
4-Nitrophenol	µg/Kg	7000 U J	NS	NS	NS	3900 U	3800 U	NS	NS
Dibenzofuran	µg/Kg	1400 U J	NS	NS	NS	800 U	780 U	NS	NS
2,4-Dinitrotoluene	µg/Kg	1400 U J	NS	NS	NS	800 U	780 U	NS	NS
Diethylphthalate	µg/Kg	1400 U J	NS	NS	NS	800 U	780 U	NS	NS
4-Chlorophenyl-phenylether	µg/Kg	1400 U J	NS	NS	NS	800 U	780 U	NS	NS
Fluorene	µg/Kg	1400 U J	NS	NS	NS	800 U	780 U	NS	NS
4-Nitroaniline	µg/Kg	7000 U J	NS	NS	NS	3900 U	3800 U	NS	NS
4,6-Dinitro-2-methylphenol	µg/Kg	7000 U J	NS	NS	NS	3900 U	3800 U	NS	NS
N-Nitrosodiphenylamine (1)	µg/Kg	1400 U J	NS	NS	NS	800 U	780 U	NS	NS
4-Bromophenyl-phenylether	µg/Kg	1400 U J	NS	NS	NS	800 U	780 U	NS	NS
Hexachlorobenzene	µg/Kg	1400 U J	NS	NS	NS	800 U	780 U	NS	NS
Pentachlorophenol	µg/Kg	7000 U J	NS	NS	NS	3900 U	3800 U	NS	NS
Phenanthrene	µg/Kg	1400 U J	NS	NS	NS	180 J	120 J	NS	NS
Anthracene	µg/Kg	1400 U J	NS	NS	NS	800 U	780 U	NS	NS
Carbazole	µg/Kg	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate	µg/Kg	1400 U J	NS	NS	NS	800 U	150 J	NS	NS
Fluoranthene	µg/Kg	1400 U J	NS	NS	NS	250 J	250 J	NS	NS
Pyrene	µg/Kg	1400 U J	NS	NS	NS	190 J	250 J	NS	NS
Butylbenzylphthalate	µg/Kg	1400 U J	NS	NS	NS	800 U	140 J	NS	NS
3,3'-Dichlorobenzidine	µg/Kg	2900 U J	NS	NS	NS	1600 U	1600 U	NS	NS
Benzo(a)anthracene	µg/Kg	1400 U J	NS	NS	NS	140 J	260 J	NS	NS
Chrysene	µg/Kg	1400 U J	NS	NS	NS	150 J	210 J	NS	NS
bis(2-Ethylhexyl)phthalate	µg/Kg	1400 U J	NS	NS	NS	83 J	230 J	NS	NS
Di-n-octylphthalate	µg/Kg	1400 U J	NS	NS	NS	800 U	150 J	NS	NS
Benzo(b)fluoranthene	µg/Kg	1400 U J	NS	NS	NS	130 J	240 J	NS	NS
Benzo(k)fluoranthene	µg/Kg	1400 U J	NS	NS	NS	99 J	160 J	NS	NS
Benzo(a)pyrene	µg/Kg	1400 U J	NS	NS	NS	110 J	200 J	NS	NS
Indeno(1,2,3-cd)pyrene	µg/Kg	1400 U J	NS	NS	NS	82 J	200 J	NS	NS
Dibenz(a,h)anthracene	µg/Kg	1400 U J	NS	NS	NS	800 U	170 J	NS	NS
Benzo(g,h,i)perylene	µg/Kg	1400 U J	NS	NS	NS	83 J	220 J	NS	NS

SENECA ARMY DEPOT, ASH LANDFILL
SOIL ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

COMPOUND	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	B-30	B-30	B-30	B-30	B-31	B-31	B-31	B-31
	DEPTH	4-6	4-6	4-6	4-6	0-2	0-2	0-2	0-2
	DATE	12/04/91	12/04/91	12/04/91	12/04/91	12/05/91	12/05/91	12/05/91	12/05/91
	ES ID	S1204-96A(1)	S1204-96ADL(5)	S1204-96RE(4)	S1204-96ARE(1,4)	S1205-97	S1205-97A(1)	S1205-97RE(4)	S1205-97ARE(1,4)
	LAB ID	150251	150251	150250	150251	150252	150253	150252	150253
	UNITS								
VOCs									
PESTICIDES/PCBs									
alpha-BHC	µg/Kg	17 U	NS	17 U J	17 U J	20 U	19 U	19 U J	19 U J
beta-BHC	µg/Kg	17 U	NS	17 U J	17 U J	20 U	19 U	19 U J	19 U J
delta-BHC	µg/Kg	17 U	NS	17 U J	17 U J	20 U	19 U	19 U J	19 U J
gamma-BHC (Lindane)	µg/Kg	17 U	NS	17 U J	17 U J	20 U	19 U	19 U J	19 U J
Heptachlor	µg/Kg	17 U	NS	17 U J	17 U J	20 U	19 U	19 U J	19 U J
Aldrin	µg/Kg	17 U	NS	17 U J	17 U J	20 U	19 U	19 U J	19 U J
Heptachlor epoxide	µg/Kg	17 U	NS	17 U J	17 U J	20 U	19 U	19 U J	19 U J
Endosulfan I	µg/Kg	17 U	NS	17 U J	17 U J	20 U	19 U	19 U J	19 U J
Dieldrin	µg/Kg	35 U	NS	35 U J	34 U J	39 U	38 U	39 U J	38 U J
4,4'-DDE	µg/Kg	35 U	NS	35 U J	34 U J	39 U	41	43 J	43 J
Endrin	µg/Kg	35 U	NS	35 U J	34 U J	39 U	38 U	39 U J	38 U J
Endosulfan II	µg/Kg	35 U	NS	35 U J	34 U J	39 U	38 U	39 U J	38 U J
4,4'-DDD	µg/Kg	35 U	NS	36 J	34 U J	39 U	38 U	39 U J	38 U J
Endosulfan sulfate	µg/Kg	35 U	NS	35 U J	34 U J	39 U	38 U	39 U J	38 U J
4,4'-DDT	µg/Kg	35 U	NS	35 U J	34 U J	38 J	43	100 J	72 J
Methoxychlor	µg/Kg	170 U	NS	170 U J	170 U J	200 U	190 U	190 U J	190 U J
Endrin ketone	µg/Kg	35 U	NS	35 U J	34 U J	39 U	38 U	39 U J	38 U J
Endrin aldehyde	µg/Kg	NS	NS	NS	NS	NS	NS	NS	NS
alpha-Chlordane	µg/Kg	170 U	NS	170 U J	170 U J	200 U	190 U	190 U J	190 U J
gamma-Chlordane	µg/Kg	170 U	NS	170 U J	170 U J	200 U	190 U	190 U J	190 U J
Toxaphene	µg/Kg	350 U	NS	350 U J	340 U J	390 U	380 U	390 U J	380 U J
Aroclor-1016	µg/Kg	170 U	NS	170 U J	170 U J	200 U	190 U	190 U J	190 U J
Aroclor-1221	µg/Kg	170 U	NS	170 U J	170 U J	200 U	190 U	190 U J	190 U J
Aroclor-1232	µg/Kg	170 U	NS	170 U J	170 U J	200 U	190 U	190 U J	190 U J
Aroclor-1242	µg/Kg	160 J	NS	170 U J	170 U J	400 R	220 R	190 U J	190 U J
Aroclor-1248	µg/Kg	170 U	NS	170 U J	170 U J	200 U	190 U	190 U J	190 U J
Aroclor-1254	µg/Kg	350 U	NS	350 U J	340 U J	390 U	380 U	390 U J	380 U J
Aroclor-1260	µg/Kg	270 J	NS	490 J	280 J	390 U	380 U	390 U J	380 U J
HERBICIDES									
2,4-D	µg/Kg	55 U	NS	NS	NS	60 U	59 U	NS	NS
2,4-DB	µg/Kg	55 U	NS	NS	NS	60 U	59 U	NS	NS
2,4,5-T	µg/Kg	5.5 U	NS	NS	NS	6 U	5.9 U	NS	NS
2,4,5-TP (Silvex)	µg/Kg	5.5 U	NS	NS	NS	6 U	5.9 U	NS	NS
Dalapon	µg/Kg	130 U	NS	NS	NS	140 U	140 U	NS	NS
Dicamba	µg/Kg	5.5 U	NS	NS	NS	6 U	5.9 U	NS	NS
Dichloroprop	µg/Kg	55 U	NS	NS	NS	60 U	59 U	NS	NS
Dinoseb	µg/Kg	27 U	NS	NS	NS	30 U	30 U	NS	NS
MCPA	µg/Kg	5500 U	NS	NS	NS	6000 U	5900 U	NS	NS
MCPP	µg/Kg	5500 U	NS	NS	NS	6000 U	5900 U	NS	NS
METALS									
Aluminum	mg/kg	19600	NS	NS	NS	18400	14100	NS	NS
Antimony	mg/kg	11.1 U J	NS	NS	NS	9.9 U J	7.4 J	NS	NS
Arsenic	mg/kg	4.3	NS	NS	NS	10.8	8.6	NS	NS
Barium	mg/kg	63.9	NS	NS	NS	136	111	NS	NS
Beryllium	mg/kg	1.1 R	NS	NS	NS	1 R	0.87 R	NS	NS
Cadmium	mg/kg	3.7	NS	NS	NS	3.8	3.7	NS	NS
Calcium	mg/kg	4110 J	NS	NS	NS	24700 J	79200 J	NS	NS
Chromium	mg/kg	29.7	NS	NS	NS	28.3 J	22.4 J	NS	NS
Cobalt	mg/kg	13.7	NS	NS	NS	11.8	10.8	NS	NS
Copper	mg/kg	15.6	NS	NS	NS	64.8	146	NS	NS
Iron	mg/kg	35500	NS	NS	NS	34400	30700	NS	NS
Lead	mg/kg	8.2 J	NS	NS	NS	160	202	NS	NS
Magnesium	mg/kg	7230	NS	NS	NS	7810	8510	NS	NS
Manganese	mg/kg	449	NS	NS	NS	670	495	NS	NS
Mercury	mg/kg	0.04 U	NS	NS	NS	0.76	0.17	NS	NS
Nickel	mg/kg	42.4	NS	NS	NS	35.5 J	39.9 J	NS	NS
Potassium	mg/kg	2060	NS	NS	NS	2610	2110	NS	NS
Selenium	mg/kg	0.19 U J	NS	NS	NS	0.23 U J	0.22 U J	NS	NS
Silver	mg/kg	0.76 J	NS	NS	NS	0.63 U	0.56 J	NS	NS
Sodium	mg/kg	62.9 J	NS	NS	NS	113 J	141 J	NS	NS
Thallium	mg/kg	0.52 U	NS	NS	NS	0.64 U	0.61 U	NS	NS
Vanadium	mg/kg	24.8	NS	NS	NS	29.7	24.1	NS	NS
Zinc	mg/kg	111	NS	NS	NS	797	1210	NS	NS
Cyanide	mg/kg	0.65 U	NS	NS	NS	0.72 U	0.63 U	NS	NS

SENECA ARMY DEPOT, ASH LANDFILL
SOIL ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	B-31	B-31	B-31	B-31	B-31	B-31
	DEPTH	2-4	2-4	4-6	4-6	6-8	6-8
	DATE	12/05/91	12/05/91	12/05/91	12/05/91	12/05/91	12/05/91
	ES ID	S1205-98(3)	S1205-98RE(3,4)	S1205-99	S1205-99R	S1205-100(2)	S1205-100RE(4)
	LAB ID	150254	150254	150255	150255	150256	150256
COMPOUND	UNITS						
VOCs							
Chloromethane	µg/Kg	12 U	NS	56 U	NS	63 U	63 U
Bromomethane	µg/Kg	12 U	NS	56 U	NS	63 U	63 U
Vinyl Chloride	µg/Kg	12 U	NS	66	NS	370	320
Chloroethane	µg/Kg	12 U	NS	56 U	NS	63 U	63 U
Methylene Chloride	µg/Kg	6 U	NS	28 U	NS	32 U	32 U
Acetone	µg/Kg	12 U	NS	56 U	NS	63 U	63 U
Carbon Disulfide	µg/Kg	6 U	NS	120	NS	32 U	32 U
1,1-Dichloroethene	µg/Kg	6 U	NS	28 U	NS	32 U	32 U
1,1-Dichloroethane	µg/Kg	6 U	NS	28 U	NS	32 U	32 U
1,2-Dichloroethene (total)	µg/Kg	6 U	NS	660	NS	630	600
Chloroform	µg/Kg	5 J	NS	28 U	NS	32 U	32 U
1,2-Dichloroethane	µg/Kg	6 U	NS	28 U	NS	32 U	32 U
2-Butanone	µg/Kg	12 U	NS	56 U	NS	63 U	63 U
1,1,1-Trichloroethane	µg/Kg	6 U	NS	28 U	NS	32 U	32 U
Carbon Tetrachloride	µg/Kg	6 U	NS	28 U	NS	32 U	32 U
Vinyl Acetate	µg/Kg	12 U	NS	56 U	NS	63 U	63 U
Bromodichloromethane	µg/Kg	6 U	NS	28 U	NS	32 U	32 U
1,2-Dichloropropane	µg/Kg	6 U	NS	28 U	NS	32 U	32 U
cis-1,3-Dichloropropene	µg/Kg	6 U	NS	28 U	NS	32 U	32 U
Trichloroethene	µg/Kg	5 J	NS	2400 E	NS	640	610
Dibromochloromethane	µg/Kg	6 U	NS	28 U	NS	32 U	32 U
1,1,2-Trichloroethane	µg/Kg	6 U	NS	28 U	NS	32 U	32 U
Benzene	µg/Kg	6 U	NS	6 J	NS	32 U	32 U
trans-1,3-Dichloropropene	µg/Kg	6 U	NS	28 U	NS	32 U	32 U
Bromoform	µg/Kg	6 U	NS	28 U	NS	32 U	32 U
4-Methyl-2-Pentanone	µg/Kg	12 U	NS	56 U	NS	63 U	63 U
2-Hexanone	µg/Kg	12 U	NS	56 U	NS	63 U	63 U
Tetrachloroethene	µg/Kg	6 U	NS	28 U	NS	32 U	32 U
1,1,2,2-Tetrachloroethane	µg/Kg	6 U	NS	28 U	NS	32 U	32 U
Toluene	µg/Kg	6 U	NS	85	NS	32 U	32 U
Chlorobenzene	µg/Kg	6 U	NS	28 U	NS	32 U	32 U
Ethylbenzene	µg/Kg	6 U	NS	23 J	NS	32 U	32 U
Styrene	µg/Kg	6 U	NS	28 U	NS	32 U	32 U
Xylene (total)	µg/Kg	6 U	NS	69	NS	32 U	32 U

SENECA ARMY DEPOT, ASH LANDFILL
SOIL ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	B-31	B-31	B-31	B-31	B-31	B-31
	DEPTH	2-4	2-4	4-6	4-6	6-8	6-8
	DATE	12/05/91	12/05/91	12/05/91	12/05/91	12/05/91	12/05/91
	ES ID	S1205-98(3)	S1205-98RE(3,4)	S1205-99	S1205-99R	S1205-100(2)	S1205-100RE(4)
	LAB ID	150254	150254	150255	150255	150256	150256
COMPOUND	UNITS						
VOCs							
SEMIVOLATILES							
Phenol	µg/Kg	780 U	NS	720 U	720 U	14000 J	NS
bis(2-Chloroethyl) ether	µg/Kg	780 U	NS	720 U J	720 U J	4100 U J	NS
2-Chlorophenol	µg/Kg	780 U	NS	720 U	720 U	4100 U J	NS
1,3-Dichlorobenzene	µg/Kg	780 U	NS	720 U J	720 U J	4100 U J	NS
1,4-Dichlorobenzene	µg/Kg	780 U	NS	720 U J	720 U J	4100 U J	NS
Benzyl Alcohol	µg/Kg	780 U	NS	720 U J	720 U J	4100 U J	NS
1,2-Dichlorobenzene	µg/Kg	780 U	NS	720 U J	720 U J	4100 U J	NS
2-Methylphenol	µg/Kg	780 U	NS	720 U	720 U	4100 U J	NS
bis(2-Chloroisopropyl) ether	µg/Kg	780 U	NS	720 U J	720 U J	4100 U J	NS
4-Methylphenol	µg/Kg	780 U	NS	720 U	720 U	4100 U J	NS
N-Nitroso-di-n-propylamine	µg/Kg	780 U	NS	720 U J	720 U J	4100 U J	NS
Hexachloroethane	µg/Kg	780 U	NS	720 U J	720 U J	4100 U J	NS
Nitrobenzene	µg/Kg	780 U	NS	720 U J	720 U J	4100 U J	NS
Isophorone	µg/Kg	780 U	NS	720 U J	720 U J	4100 U J	NS
2-Nitrophenol	µg/Kg	780 U	NS	720 U	720 U	1300 J	NS
2,4-Dimethylphenol	µg/Kg	780 U	NS	720 U	720 U	4100 U J	NS
Benzoic acid	µg/Kg	3800 U	NS	3500 U J	3500 U J	1500 J	NS
bis(2-Chloroethoxy) methane	µg/Kg	780 U	NS	720 U J	720 U J	4100 U J	NS
2,4-Dichlorophenol	µg/Kg	780 U	NS	720 U	720 U	4100 U J	NS
1,2,4-Trichlorobenzene	µg/Kg	780 U	NS	720 U J	720 U J	4100 U J	NS
Naphthalene	µg/Kg	780 U	NS	180 J	200 J	4100 U J	NS
4-Chloroaniline	µg/Kg	780 U	NS	720 U J	720 U J	4100 U J	NS
Hexachlorobutadiene	µg/Kg	780 U	NS	720 U J	720 U J	4100 U J	NS
4-Chloro-3-methylphenol	µg/Kg	780 U	NS	720 U	720 U	4100 U J	NS
2-Methylnaphthalene	µg/Kg	780 U	NS	720 U J	720 U J	4100 U J	NS
Hexachlorocyclopentadiene	µg/Kg	780 U	NS	720 U J	720 U J	4100 U J	NS
2,4,6-Trichlorophenol	µg/Kg	780 U	NS	720 U	720 U	4100 U J	NS
2,4,5-Trichlorophenol	µg/Kg	3800 U	NS	3500 U	3500 U	20000 U J	NS
2-Chloronaphthalene	µg/Kg	780 U	NS	720 U J	720 U J	4100 U J	NS
2-Nitroaniline	µg/Kg	3800 U	NS	3500 U J	3500 U J	20000 U J	NS
Dimethylphthalate	µg/Kg	780 U	NS	720 U J	720 U J	4100 U J	NS
Acenaphthylene	µg/Kg	780 U	NS	720 U J	720 U J	4100 U J	NS
2,6-Dinitrotoluene	µg/Kg	780 U	NS	720 U J	720 U J	4100 U J	NS
3-Nitroaniline	µg/Kg	3800 U	NS	3500 U J	3500 U J	20000 U J	NS
Acenaphthene	µg/Kg	780 U	NS	720 U J	720 U J	4100 U J	NS
2,4-Dinitrophenol	µg/Kg	3800 U	NS	3500 U	3500 U	20000 U J	NS
4-Nitrophenol	µg/Kg	3800 U	NS	3500 U	3500 U	1600 J	NS
Dibenzofuran	µg/Kg	780 U	NS	110 U J	720 U J	4100 U J	NS
2,4-Dinitrotoluene	µg/Kg	780 U	NS	720 U J	720 U J	4100 U J	NS
Diethylphthalate	µg/Kg	780 U	NS	720 U J	720 U J	4100 U J	NS
4-Chlorophenyl-phenyl ether	µg/Kg	780 U	NS	720 U J	720 U J	4100 U J	NS
Fluorene	µg/Kg	780 U	NS	720 U J	720 U J	4100 U J	NS
4-Nitroaniline	µg/Kg	3800 U	NS	3500 U J	3500 U J	20000 U J	NS
4,6-Dinitro-2-methylphenol	µg/Kg	3800 U	NS	720 U	3500 U	20000 U J	NS
N-Nitrosodiphenylamine (1)	µg/Kg	780 U	NS	720 U J	720 U J	4100 U J	NS
4-Bromophenyl-phenyl ether	µg/Kg	780 U	NS	720 U J	720 U J	4100 U J	NS
Hexachlorobenzene	µg/Kg	780 U	NS	720 U J	720 U J	4100 U J	NS
Pentachlorophenol	µg/Kg	3800 U	NS	3500 U	3500 U	20000 U J	NS
Phenanthrene	µg/Kg	780 U	NS	110 U J	110 U J	4100 U J	NS
Anthracene	µg/Kg	780 U	NS	720 U J	720 U J	4100 U J	NS
Carbazole	µg/Kg	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate	µg/Kg	780 U	NS	720 U J	720 U J	4100 U J	NS
Fluoranthene	µg/Kg	150 J	NS	120 U J	110 U J	4100 U J	NS
Pyrene	µg/Kg	110 J	NS	140 U J	130 U J	4100 U J	NS
Butylbenzylphthalate	µg/Kg	780 U	NS	390 U J	720 U J	4100 U J	NS
3,3'-Dichlorobenzidine	µg/Kg	1600 U	NS	1400 U J	1400 U J	8100 U J	NS
Benzo(a)anthracene	µg/Kg	100 J	NS	720 U J	720 U J	4100 U J	NS
Chrysene	µg/Kg	100 J	NS	83 U J	110 U J	4100 U J	NS
bis(2-Ethylhexyl)phthalate	µg/Kg	170 J	NS	220 U J	210 U J	4100 U J	NS
Di-n-octylphthalate	µg/Kg	780 U	NS	250 U J	720 U J	4100 U J	NS
Benzo(b)fluoranthene	µg/Kg	100 J	NS	720 U J	720 U J	4100 U J	NS
Benzo(k)fluoranthene	µg/Kg	82 J	NS	720 U J	720 U J	4100 U J	NS
Benzo(a)pyrene	µg/Kg	86 J	NS	720 U J	720 U J	4100 U J	NS
Indeno(1,2,3-cd)pyrene	µg/Kg	780 U	NS	720 U J	720 U J	4100 U J	NS
Dibenz(a,h)anthracene	µg/Kg	780 U	NS	720 U J	720 U J	4100 U J	NS
Benzo(g,h,i)perylene	µg/Kg	72 J	NS	720 U J	720 U J	4100 U J	NS

SENECA ARMY DEPOT, ASH LANDFILL
SOIL ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

COMPOUND	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	B-31	B-31	B-31	B-31	B-31	B-31
	DEPTH	2-4	2-4	4-6	4-6	6-8	6-8
	DATE	12/05/91	12/05/91	12/05/91	12/05/91	12/05/91	12/05/91
	ES ID	S1205-98(3)	S1205-98RE(3,4)	S1205-99	S1205-99R	S1205-100(2)	S1205-100RE(4)
	LAB ID	150254	150254	150255	150255	150256	150256
	UNITS						
VOCs							
PESTICIDES/PCBs							
alpha-BHC	µg/Kg	19 U	19 U J	17 U	17 U J	20 U	20 U J
beta-BHC	µg/Kg	19 U	19 U J	17 U	17 U J	20 U	20 U J
delta-BHC	µg/Kg	19 U	19 U J	17 U	17 U J	20 U	20 U J
gamma-BHC (Lindane)	µg/Kg	19 U	19 U J	17 U	17 U J	20 U	20 U J
Heptachlor	µg/Kg	19 U	19 U J	17 U	17 U J	20 U	20 U J
Aldrin	µg/Kg	19 U	19 U J	17 U	17 U J	20 U	20 U J
Heptachlor epoxide	µg/Kg	19 U	19 U J	17 U	17 U J	20 U	20 U J
Endosulfan I	µg/Kg	19 U	19 U J	17 U	17 U J	20 U	20 U J
Dieldrin	µg/Kg	38 U	36 U J	35 U	35 U J	40 U	40 U J
4,4'-DDE	µg/Kg	57	71 J	35 U	35 U J	40 U	40 U J
Endrin	µg/Kg	38 U	38 U J	35 U	35 U J	40 U	40 U J
Endosulfan II	µg/Kg	38 U	38 U J	35 U	35 U J	40 U	40 U J
4,4'-DDD	µg/Kg	36 U	38 U J	35 U	35 U J	40 U	40 U J
Endosulfan sulfate	µg/Kg	38 U	38 U J	35 U	35 U J	40 U	40 U J
4,4'-DDT	µg/Kg	38 U	38 U J	35 U	35 U J	40 U	40 U J
Methoxychlor	µg/Kg	190 U	190 U J	170 U	170 U J	200 U	200 U J
Endrin ketone	µg/Kg	38 U	38 U J	35 U	35 U J	40 U	40 U J
Endrin aldehyde	µg/Kg	NS	NS	NS	NS	NS	NS
alpha-Chlordane	µg/Kg	190 U	190 U J	170 U	170 U J	200 U	200 U J
gamma-Chlordane	µg/Kg	190 U	190 U J	170 U	170 U J	200 U	200 U J
Toxaphene	µg/Kg	380 U	380 U J	350 U	350 U J	400 U	400 U J
Aroclor-1016	µg/Kg	190 U	190 U J	170 U	170 U J	200 U	200 U J
Aroclor-1221	µg/Kg	190 U	190 U J	170 U	170 U J	200 U	200 U J
Aroclor-1232	µg/Kg	190 U	190 U J	170 U	170 U J	200 U	200 U J
Aroclor-1242	µg/Kg	1000 R	190 U J	570 R	170 U J	450 R	200 U J
Aroclor-1248	µg/Kg	190 U	190 U J	170 U	170 U J	200 U	200 U J
Aroclor-1254	µg/Kg	380 U	380 U J	350 U	350 U J	400 U	400 U J
Aroclor-1260	µg/Kg	380 U	380 U J	350 U	350 U J	400 U	400 U J
HERBICIDES							
2,4-D	µg/Kg	60 U	NS	54 U	NS	61 U	NS
2,4-DB	µg/Kg	60 U	NS	54 U	NS	61 U	NS
2,4,5-T	µg/Kg	6 U	NS	5.4 U	NS	6.1 U	NS
2,4,5-TP (Silvex)	µg/Kg	6 U	NS	5.4 U	NS	6.1 U	NS
Dalapon	µg/Kg	140 U	NS	130 U	NS	150 U	NS
Dicamba	µg/Kg	6 U	NS	5.4 U	NS	6.1 U	NS
Dichloroprop	µg/Kg	60 U	NS	54 U	NS	61 U	NS
Dinoseb	µg/Kg	30 U	NS	27 U	NS	31 U	NS
MCPA	µg/Kg	6000 U	NS	6200 U	NS	6100 U	NS
MCPP	µg/Kg	6000 U	NS	6200 U	NS	6100 U	NS
METALS							
Aluminum	mg/kg	25500	NS	15000	NS	21200	NS
Antimony	mg/kg	8.7 U J	NS	11.4 U J	NS	13.1 U J	NS
Arsenic	mg/kg	45.8	NS	3.9	NS	2.6	NS
Barium	mg/kg	121	NS	52.2	NS	61.1	NS
Beryllium	mg/kg	0.98 R	NS	0.86 R	NS	1.1 R	NS
Cadmium	mg/kg	4.3	NS	3.5	NS	4.4	NS
Calcium	mg/kg	17800 J	NS	25500 J	NS	3460	NS
Chromium	mg/kg	34.8	NS	28.8	NS	30.4	NS
Cobalt	mg/kg	15.4	NS	14.4	NS	18.1	NS
Copper	mg/kg	76.1	NS	31.6	NS	26.4	NS
Iron	mg/kg	41800	NS	29000	NS	44100	NS
Lead	mg/kg	696	NS	68.5	NS	15.3 J	NS
Magnesium	mg/kg	9290	NS	7020	NS	7010	NS
Manganese	mg/kg	724	NS	337	NS	541	NS
Mercury	mg/kg	0.17	NS	0.05 J	NS	0.05 U	NS
Nickel	mg/kg	40.9	NS	51.1	NS	47	NS
Potassium	mg/kg	2330	NS	2170	NS	1280	NS
Selenium	mg/kg	0.23 U J	NS	0.24 J	NS	0.23 U J	NS
Silver	mg/kg	0.55 U	NS	0.9 J	NS	0.84 U	NS
Sodium	mg/kg	201 J	NS	141 J	NS	326 J	NS
Thallium	mg/kg	0.64 U	NS	0.51 U	NS	0.66 U	NS
Vanadium	mg/kg	28.3	NS	22 R	NS	25.3	NS
Zinc	mg/kg	472	NS	393	NS	93.5	NS
Cyanide	mg/kg	0.63 U	NS	0.64 U	NS	0.73 U	NS

SENECA ARMY DEPOT, ASH LANDFILL
SOIL ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	B-32	B-32	B-32	B-32	B-33	B-33	B-34	B-34
	DEPTH(FT.)	0-2	2-4	4-6	6-7.8	0-2	2-3.5	0-2	2-2.75
	DATE	04/27/93	04/27/93	04/27/93	04/27/93	12/14/92	12/14/92	12/14/92	12/14/92
	ES ID	B32-1	B32-2	B32-3	B32-4	B33-1	B33-2	B34-1	B34-2
	LAB ID	183092	183093	183094	183095	176253	176254	176255	176256
COMPOUND	UNITS								
VOCs									
Chloromethane	µg/Kg	11 U	12 U	1300 U	1300 U	12 U	12 U	12 U	12 U
Bromomethane	µg/Kg	11 U	12 U	1300 U	1300 U	12 U	12 U	12 U	12 U
Vinyl Chloride	µg/Kg	11 U	12 U	1300 U	1300 U	12 U	12 U	12 U	12 U
Chloroethane	µg/Kg	11 U	12 U	1300 U	1300 U	12 U	12 U	12 U	12 U
Methylene Chloride	µg/Kg	11 U	12 U	1300 U	1300 U	12 U	12 U	12 U	12 U
Acetone	µg/Kg	17 U	12 U	1300 U	1300 U	12 U	12 U	12 U	12 U
Carbon Disulfide	µg/Kg	11 U	12 U	1300 U	1300 U	12 U	12 U	12 U	12 U
1,1-Dichloroethene	µg/Kg	11 U	12 U	1300 U	1300 U	12 U	12 U	12 U	12 U
1,1-Dichloroethane	µg/Kg	11 U	12 U	1300 U	1300 U	12 U	12 U	12 U	12 U
1,2-Dichloroethene (total)	µg/Kg	110	12 U	1300 U	240 J	12 U	12 U	12 U	12 U
Chloroform	µg/Kg	11 U	12 U	1300 U	1300 U	12 U	12 U	12 U	12 U
1,2-Dichloroethane	µg/Kg	11 U	12 U	1300 U	1300 U	12 U	12 U	12 U	12 U
2-Butanone	µg/Kg	11 U	12 U	1300 U	1300 U	12 U	12 U	12 U	12 U
1,1,1-Trichloroethane	µg/Kg	11 U	12 U	1300 U	1300 U	12 U	12 U	12 U	12 U
Carbon Tetrachloride	µg/Kg	11 U	12 U	1300 U	1300 U	12 U	12 U	12 U	12 U
Vinyl acetate	µg/Kg	NS	NS	NS	NS	NS	NS	NS	NS
Bromodichloromethane	µg/Kg	11 U	12 U	1300 U	1300 U	12 U	12 U	12 U	12 U
1,2-Dichloropropane	µg/Kg	11 U	12 U	1300 U	1300 U	12 U	12 U	12 U	12 U
cis-1,3-Dichloropropene	µg/Kg	11 U	12 U	1300 U	1300 U	12 U	12 U	12 U	12 U
Trichloroethene	µg/Kg	140	12 U	1300 U	1300 U	12 U	12 U	12 U	12 U
Dibromochloromethane	µg/Kg	11 U	12 U	1300 U	1300 U	12 U	12 U	12 U	12 U
1,1,2-Trichloroethane	µg/Kg	11 U	12 U	1300 U	1300 U	12 U	12 U	12 U	12 U
Benzene	µg/Kg	11 U	12 U	1300 U	1300 U	12 U	12 U	12 U	12 U
trans-1,3-Dichloropropene	µg/Kg	11 U	12 U	1300 U	1300 U	12 U	12 U	12 U	12 U
Bromoform	µg/Kg	11 U	12 U	1300 U	1300 U	12 U	12 U	12 U	12 U
4-Methyl-2-Pentanone	µg/Kg	11 U	12 U	1300 U	1300 U	12 U	12 U	12 U	12 U
2-Hexanone	µg/Kg	11 U	12 U	1300 U	1300 U	12 U	12 U	12 U	12 U
Tetrachloroethene	µg/Kg	11 U	12 U	1300 U	1300 U	12 U	12 U	12 U	12 U
1,1,2,2-Tetrachloroethane	µg/Kg	11 U	12 U	1300 U	1300 U	12 U	12 U	12 U	12 U
Toluene	µg/Kg	11 U	12 U	1300 U	1300 U	12 U	12 U	12 U	12 U
Chlorobenzene	µg/Kg	11 U	12 U	1300 U	1300 U	12 U	12 U	12 U	12 U
Ethylbenzene	µg/Kg	11 U	12 U	1300 U	1300 U	12 U	12 U	12 U	12 U
Styrene	µg/Kg	11 U	12 U	1300 U	1300 U	12 U	12 U	12 U	12 U
Xylene (total)	µg/Kg	11 U	12 U	1300 U	1300 U	12 U	12 U	12 U	12 U

SENECA ARMY DEPOT, ASH LANDFILL
SOIL ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	B-32	B-32	B-32	B-32	B-33	B-33	B-34	B-34
	DEPTH(FT.)	0-2	2-4	4-6	6-7.8	0-2	2-3.5	0-2	2-2.75
	DATE	04/27/93	04/27/93	04/27/93	04/27/93	12/14/92	12/14/92	12/14/92	12/14/92
	ES ID	B32-1	B32-2	B32-3	B32-4	B33-1	B33-2	B34-1	B34-2
	LAB ID	183092	183093	183094	183095	176253	176254	176255	176256
COMPOUND	UNITS								
VOCs									
Semivolatiles									
Phenol	µg/Kg	360 U	400 U	440 U	350 U	420 U	380 U	400 U	360 U
bis(2-Chloroethyl) ether	µg/Kg	360 U	400 U	440 U	350 U	420 U	380 U	400 U	360 U
2-Chlorophenol	µg/Kg	360 U	400 U	440 U	350 U	420 U	380 U	400 U	360 U
1,3-Dichlorobenzene	µg/Kg	360 U	400 U	440 U	350 U	420 U	380 U	400 U	360 U
1,4-Dichlorobenzene	µg/Kg	360 U	400 U	440 U	350 U	420 U	380 U	400 U	360 U
Benzyl alcohol	µg/Kg	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dichlorobenzene	µg/Kg	360 U	400 U	440 U	350 U	420 U	380 U	400 U	360 U
2-Methylphenol	µg/Kg	360 U	400 U	440 U	350 U	420 U	380 U	400 U	360 U
2,2'-oxybis(1-Chloropropane)	µg/Kg	360 U	400 U	440 U	350 U	420 U	380 U	400 U	360 U
4-Methylphenol	µg/Kg	360 U	400 U	440 U	350 U	420 U	380 U	400 U	360 U
N-Nitroso-di-n-propylamine	µg/Kg	360 U	400 U	440 U	350 U	420 U	380 U	400 U	360 U
Hexachloroethane	µg/Kg	360 U	400 U	440 U	350 U	420 U	380 U	400 U	360 U
Nitrobenzene	µg/Kg	360 U	400 U	440 U	350 U	420 U	380 U	400 U	360 U
Isophorone	µg/Kg	360 U	400 U	440 U	350 U	420 U	380 U	400 U	360 U
2-Nitrophenol	µg/Kg	360 U	400 U	440 U	350 U	420 U	380 U	400 U	360 U
2,4-Dimethylphenol	µg/Kg	360 U	400 U	440 U	350 U	420 U	380 U	400 U	360 U
Benzoic acid	µg/Kg	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroethoxy) methane	µg/Kg	360 U	400 U	440 U	350 U	420 U	380 U	400 U	360 U
2,4-Dichlorophenol	µg/Kg	360 U	400 U	440 U	350 U	420 U	380 U	400 U	360 U
1,2,4-Trichlorobenzene	µg/Kg	360 U	400 U	440 U	350 U	420 U	380 U	400 U	360 U
Naphthalene	µg/Kg	360 U	400 U	440 U	290 J	420 U	380 U	400 U	360 U
4-Chloroaniline	µg/Kg	360 U	400 U	440 U	350 U	420 U	380 U	400 U	360 U
Hexachlorobutadiene	µg/Kg	360 U	400 U	440 U	350 U	420 U	380 U	400 U	360 U
4-Chloro-3-methylphenol	µg/Kg	360 U	400 U	440 U	350 U	420 U	380 U	360 U	400 U
2-Methylnaphthalene	µg/Kg	360 U	400 U	440 U	320 J	420 U	380 U	400 U	360 U
Hexachlorocyclopentadiene	µg/Kg	360 U	400 U	440 U	350 U	420 U	380 U	400 U	360 U
2,4,6-Trichlorophenol	µg/Kg	360 U	400 U	440 U	350 U	420 U	380 U	400 U	360 U
2,4,5-Trichlorophenol	µg/Kg	870 U	970 U	1100 U	860 U	1000 U	910 U	970 U	880 U
2-Chloronaphthalene	µg/Kg	360 U	400 U	440 U	350 U	420 U	380 U	400 U	360 U
2-Nitroaniline	µg/Kg	870 U	970 U	1100 U	860 U	1000 U	910 U	970 U	880 U
Dimethylphthalate	µg/Kg	360 U	400 U	440 U	350 U	420 U	380 U	400 U	360 U
Acenaphthylene	µg/Kg	360 U	400 U	440 U	350 U	420 U	380 U	400 U	360 U
2,6-Dinitrotoluene	µg/Kg	360 U	400 U	440 U	350 U	420 U	380 U	400 U	360 U
3-Nitroaniline	µg/Kg	870 U	970 U	1100 U	860 U	1000 U	910 U	970 U	880 U
Acenaphthene	µg/Kg	360 U	400 U	440 U	350 U	420 U	380 U	400 U	360 U
2,4-Dinitrophenol	µg/Kg	870 U	970 U	1100 U	860 U	1000 U	910 U	970 U	880 U
4-Nitrophenol	µg/Kg	870 U	970 U	1100 U	860 U	1000 U	910 U	970 U	880 U
Dibenzofuran	µg/Kg	360 U	400 U	440 U	350 U	420 U	380 U	400 U	360 U
2,4-Dinitrotoluene	µg/Kg	360 U	400 U	440 U	350 U	420 U	380 U	400 U	360 U
Diethylphthalate	µg/Kg	360 U	400 U	440 U	350 U	420 U	380 U	400 U	360 U
4-Chlorophenyl-phenylether	µg/Kg	360 U	400 U	440 U	350 U	420 U	380 U	400 U	360 U
Fluorene	µg/Kg	360 U	400 U	440 U	350 U	420 U	380 U	400 U	360 U
4-Nitroaniline	µg/Kg	870 U	970 U	1100 U	860 U	1000 U	910 U	970 U	880 U
4,6-Dinitro-2-methylphenol	µg/Kg	870 U	970 U	1100 U	860 U	1000 U	910 U	970 U	880 U
N-Nitrosodiphenylamine	µg/Kg	360 U	400 U	440 U	350 U	420 U	380 U	400 U	360 U
4-Bromophenyl-phenylether	µg/Kg	360 U	400 U	440 U	350 U	420 U	380 U	400 U	360 U
Hexachlorobenzene	µg/Kg	360 U	400 U	440 U	350 U	420 U	380 U	400 U	360 U
Pentachlorophenol	µg/Kg	870 U	970 U	1100 U	860 U	1000 U	910 U	970 U	880 U
Phenanthrene	µg/Kg	360 U	400 U	440 U	140 J	20 J	380 U	51 J	360 U
Anthracene	µg/Kg	360 U	400 U	440 U	350 U	420 U	380 U	19 J	360 U
Carbazole	µg/Kg	360 U	400 U	440 U	350 U	420 U	380 U	400 U	360 U
Di-n-butylphthalate	µg/Kg	360 U	400 U	440 U	180 J	420 U	380 U	400 U	360 U
Fluoranthene	µg/Kg	80 J	400 U	440 U	350 U	28 J	380 U	62 J	360 U
Pyrene	µg/Kg	74 J	400 U	440 U	130 J	30 J	380 U	64 J	16 J
Butylbenzylphthalate	µg/Kg	360 U	400 U	440 U	350 U	420 U	380 U	400 U	360 U
3,3'-Dichlorobenzidine	µg/Kg	360 U	400 U	440 U	350 U	420 U	380 U	400 U	360 U
Benzo(a)anthracene	µg/Kg	58 J	400 U	440 U	350 U	18 J	380 U	42 J	360 U
Chrysene	µg/Kg	66 J	400 U	440 U	350 U	25 J	380 U	51 J	13 J
bis(2-Ethylhexyl)phthalate	µg/Kg	53 J	110 J	200 J	440	400 J	380 U	650	780
Di-n-octylphthalate	µg/Kg	360 U	400 U	440 U	350 U	420 U	380 U	400 U	360 U
Benzo(b)fluoranthene	µg/Kg	67 J	400 U	440 U	350 U	420 U	380 U	39 J	360 U
Benzo(k)fluoranthene	µg/Kg	49 J	400 U	440 U	350 U	420 U	380 U	39 J	360 U
Benzo(a)pyrene	µg/Kg	58 J	400 U	440 U	350 U	420 U	380 U	38 J	360 U
Indeno(1,2,3-cd)pyrene	µg/Kg	360 U	400 U	440 U	350 U	420 U	380 U	34 J	360 U
Dibenz(a,h)anthracene	µg/Kg	360 U	400 U	440 U	350 U	420 U	380 U	400 U	360 U
Benzo(g,h,i)perylene	µg/Kg	360 U	400 U	440 U	350 U	420 U	380 U	37 J	360 U

SENECA ARMY DEPOT, ASH LANDFILL
SOIL ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	B-32	B-32	B-32	B-32	B-33	B-33	B-34	B-34
	DEPTH(FT.)	0-2	2-4	4-6	6-7.8	0-2	2-3.5	0-2	2-2.75
	DATE	04/27/93	04/27/93	04/27/93	04/27/93	12/14/92	12/14/92	12/14/92	12/14/92
	ES ID	B32-1	B32-2	B32-3	B32-4	B33-1	B33-2	B34-1	B34-2
	LAB ID	183092	183093	183094	183095	176253	176254	176255	176256
COMPOUND	UNITS								
VOCs									
Pesticides/PCBs									
alpha-BHC	µg/Kg	1.9 U	2.1 U	2.3 U	1.9 U	2.2 U	1.9 U	2.1 U	1.9 U
beta-BHC	µg/Kg	1.9 U	2.1 U	2.3 U	1.9 U	2.2 U	1.9 U	2.1 U	1.9 U
delta-BHC	µg/Kg	1.9 U	2.1 U	2.3 U	1.9 U	2.2 U	1.9 U	2.1 U	1.9 U
gamma-BHC (Lindane)	µg/Kg	1.9 U	2.1 U	2.3 U	1.9 U	2.2 U	1.9 U	2.1 U	1.9 U
Heptachlor	µg/Kg	1.9 U	2.1 U	2.3 U	1.9 U	2.2 U	1.9 U	2.1 U	1.9 U
Aldrin	µg/Kg	1.9 U	2.1 U	2.3 U	1.9 U	2.2 U	1.9 U	2.1 U	1.9 U
Heptachlor epoxide	µg/Kg	1.9 U	2.1 U	2.3 U	1.9 U	2.2 U	1.9 U	2.1 U	1.9 U
Endosulfan I	µg/Kg	1.9 U	2.1 U	2.3 U	1.9 U	2.2 U	1.9 U	2.1 U	1.9 U
Dieldrin	µg/Kg	3.6 U	4 U	4.4 U	3.6 U	4.2 U	3.8 U	4 U	3.7 U
4,4'-DDE	µg/Kg	6.6	4 U	4.4 U	3.6 U	2.5 J	3.8 U	4.7 J	3.7 U
Endrin	µg/Kg	3.6 U	4 U	4.4 U	3.6 U	4.2 U	3.8 U	4 U	3.7 U
Endosulfan II	µg/Kg	3.6 U	4 U	4.4 U	3.6 U	4.2 U	3.8 U	4 U	3.7 U
4,4'-DDD	µg/Kg	3.6 U	4 U	4.4 U	3.6 U	4.2 U	3.8 U	4 U	3.7 U
Endosulfan sulfate	µg/Kg	3.6 U	4 U	4.4 U	3.6 U	4.2 U	3.8 U	4 U	3.7 U
4,4'-DDT	µg/Kg	1.8 J	4 U	4.4 U	3.6 U	3.6 J	3.8 U	9	2.5 J
Methoxychlor	µg/Kg	19 U	21 U	23 U	19 U	22 U	19 U	21 U	19 U
Endrin ketone	µg/Kg	3.6 U	4 U	4.4 U	3.6 U	4.2 U	3.8 U	4 U	3.7 U
Endrin aldehyde	µg/Kg	3.6 U	4 U	4.4 U	3.6 U	4.2 U	3.8 U	4 U	3.7 U
alpha-Chlordane	µg/Kg	1.9 U	2.1 U	2.3 U	1.9 U	2.2 U	1.9 U	2.1 U	1.9 U
gamma-Chlordane	µg/Kg	1.9 U	2.1 U	2.3 U	1.9 U	2.2 U	1.9 U	2.1 U	1.9 U
Toxaphene	µg/Kg	190 U	210 U	230 U	190 U	220 U	190 U	210 U	190 U
Aroclor-1016	µg/Kg	36 U	40 U	44 U	36 U	42 U	38 U	40 U	37 U
Aroclor-1221	µg/Kg	74 U	81 U	90 U	74 U	86 U	77 U	81 U	74 U
Aroclor-1232	µg/Kg	36 U	40 U	44 U	36 U	42 U	38 U	40 U	37 U
Aroclor-1242	µg/Kg	36 U	40 U	44 U	36 U	42 U	38 U	40 U	37 U
Aroclor-1248	µg/Kg	36 U	40 U	29 J	140 J	42 U	38 U	40 U	37 U
Aroclor-1254	µg/Kg	36 U	40 U	44 U	36 U	42 U	38 U	40 U	37 U
Aroclor-1260	µg/Kg	36 U	40 U	170	320 J	42 U	38 U	40 U	37 U
Herbicides									
2,4-D	µg/Kg	56 U	61 U	68 U	55 U	64 U	57 U	61 U	55 U
2,4-DB	µg/Kg	56 U	61 U	68 U	55 U	64 U	57 U	61 U	55 U
2,4,5-T	µg/Kg	5.6 U	6.1 U	6.8 U	5.5 U	6.4 U	5.7 U	6.1 U	5.5 U
2,4,5-TP (Silvex)	µg/Kg	5.6 U	6.1 U	6.8 U	5.5 U	6.4 U	5.7 U	6.1 U	5.5 U
Dalapon	µg/Kg	140 U	150 U	170 U	140 U	150 U	140 U	150 U	130 U
Dicamba	µg/Kg	5.6 U	6.1 U	6.8 U	5.5 U	6.4 U	5.7 U	6.1 U	5.5 U
Dichloroprop	µg/Kg	56 U	61.0 U	68 U	55 U	64 U	57 U	61 U	55 U
Dinoseb	µg/Kg	28 U	31.0 U	34 U	28 U	32 U	29 U	30 U	27 U
MCPA	µg/Kg	5600 U	6100.0 U	6800 U	5500 U	6400 U	5700 U	6100 U	5500 U
MCPP	µg/Kg	5600 U	6100.0 U	6800 U	5500 U	6400 U	5700 U	6100 U	5500 U
Metals									
Aluminum	mg/Kg	13900	14400	16800	13900	19700	16000	21400	17200
Antimony	mg/Kg	5.7 UJ	5.7 UJ	4.9 UJ	3.7 UJ	6.9 UJ	7.7 UJ	7.5 UJ	7.7 UJ
Arsenic	mg/Kg	4.5	4.5	5	2.7	2	1.6	3.6	1.9
Barium	mg/Kg	85.1	105	81.8	46.6	108 J	58.9 J	99.1 J	65.9 J
Beryllium	mg/Kg	0.69 J	0.81 J	0.8 J	0.62 J	1	0.74	1.1	0.76
Cadmium	mg/Kg	0.41 U	0.42 U	0.36 U	0.27 U	0.4 U	0.44 U	0.43 U	0.44 U
Calcium	mg/Kg	27900	8740	4310	3910	4620	46100	4340	41300
Chromium	mg/Kg	25.5	22.9	27.4	22.7	32 J	26.6 J	35 J	28.5 J
Cobalt	mg/Kg	15.8	11.2	16.5	12	17.1	17.3	16.5	15.5
Copper	mg/Kg	36.8	32.8	29.8	17.3	24.4	18.7	26	18.4
Iron	mg/Kg	29800	26500	34900	28300	36800	35300	40200	33400
Lead	mg/Kg	44.8	36.1	15.5	5.8	19.2	6.7 R	9.1 R	9.1 R
Magnesium	mg/Kg	7520	6030	6200	5710	6550	7260	7020	7200
Manganese	mg/Kg	499	799	430	513	1070	780	857	852
Mercury	mg/Kg	0.21	0.04 U	0.05 U	0.03 U	0.06 R	0.04 R	0.09 R	0.08 R
Nickel	mg/Kg	49.7	29.1	46.2	36	45.6	43.7	49.5	42.6
Potassium	mg/Kg	1450	1550	1320	904	1580	1370	1520	1410
Selenium	mg/Kg	0.24 J	0.19 U	0.23 U	0.17 U	0.15 U	0.48 J	0.58 J	0.69
Silver	mg/Kg	0.89 U	0.9 U	0.76 U	0.58 U	0.41 U	0.45 U	0.44 U	0.46 U
Sodium	mg/Kg	118 J	107 U	91 U	68.7 U	52 J	162 J	55 J	155 J
Thallium	mg/Kg	0.6 U	0.56 U	0.69 U	0.5 U	0.35 U	0.33 U	0.37 U	0.32 U
Vanadium	mg/Kg	19.3	23.7	24.7	17	26.9	20.9	29	22.4
Zinc	mg/Kg	194	129	132	79.1	114 J	87.8 J	200 J	84.2 J
Cyanide	mg/Kg	0.66 U	0.71 U	0.81 U	0.66 U	0.76 U	0.65 U	0.7 U	0.63 U

SENECA ARMY DEPOT, ASH LANDFILL
SOIL ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

COMPOUND	MATRIX LOCATION DEPTH(FT.) DATE ES ID LAB ID UNITS	SOIL B-35 0-2 12/15/92 B35-1 176442	SOIL B-35 0-2 12/15/92 B35-1RE 176442R1	SOIL B-35 2-4 12/15/92 B35-2 176443	SOIL B-35 2-4 12/15/92 B35-2RE 176443R1	SOIL B-35 4-5.1 12/15/92 B35-3 176444	SOIL B-36 0-2 04/27/93 B36-1 183096	SOIL B-36 2-4 04/27/93 B36-2 183097	SOIL B-36 4-6 04/27/93 B36-3 183098
VOCs									
Chloromethane	µg/Kg	13 U J	13 U J	13 U	NS	12 U	12 U	12 U	53 U
Bromomethane	µg/Kg	13 U J	13 U J	13 U	NS	12 U	12 U	12 U	53 U
Vinyl Chloride	µg/Kg	13 U J	13 U J	13 U	NS	8 J	12 U	12 U	53 U
Chloroethane	µg/Kg	13 U J	13 U J	13 U	NS	12 U	12 U	12 U	53 U
Methylene Chloride	µg/Kg	13 U J	13 U J	13 U	NS	12 U	12 U	12 U	53 U
Acetone	µg/Kg	13 U J	13 U J	23 U	NS	20 U	12 U	130	87
Carbon Disulfide	µg/Kg	13 U J	13 U J	13 U	NS	12 U	12 U	12 U	53 U
1,1-Dichloroethene	µg/Kg	13 U J	13 U J	3 J	NS	140	12 U	12 U	53 U
1,1-Dichloroethane	µg/Kg	13 U J	13 U J	13 U	NS	12 U	12 U	12 U	53 U
1,2-Dichloroethene (total)	µg/Kg	13 U J	13 U J	13 J	NS	200	12 U	12 U	53 U
Chloroform	µg/Kg	13 U J	13 U J	13 U	NS	12 U	12 U	12 U	53 U
1,2-Dichloroethane	µg/Kg	13 U J	13 U J	13 U	NS	12 U	12 U	12 U	53 U
2-Butanone	µg/Kg	13 U J	13 U J	13 U	NS	12 U	12 U	17	53 U
1,1,1-Trichloroethane	µg/Kg	13 U J	13 U J	13 U	NS	12 U	12 U	12 U	53 U
Carbon Tetrachloride	µg/Kg	13 U J	13 U J	13 U	NS	12 U	12 U	12 U	53 U
Vinyl acetate	µg/Kg	NS	NS	NS	NS	NS	NS	NS	NS
Bromodichloromethane	µg/Kg	13 U J	13 U J	13 U	NS	12 U	12 U	12 U	53 U
1,2-Dichloropropane	µg/Kg	13 U J	13 U J	13 U	NS	12 U	12 U	12 U	53 U
cis-1,3-Dichloropropene	µg/Kg	13 U J	13 U J	13 U	NS	12 U	12 U	12 U	53 U
Trichloroethene	µg/Kg	44 J	45 J	5 J	NS	110	12 U	12 U	53 U
Dibromochloromethane	µg/Kg	13 U J	13 U J	13 U	NS	12 U	12 U	12 U	53 U
1,1,2-Trichloroethane	µg/Kg	13 U J	13 U J	13 U	NS	12 U	12 U	12 U	53 U
Benzene	µg/Kg	13 U J	13 U J	13 U	NS	12 U	12 U	12 U	53 U
trans-1,3-Dichloropropene	µg/Kg	13 U J	13 U J	13 U	NS	12 U	12 U	12 U	53 U
Bromoform	µg/Kg	13 U J	13 U J	13 U	NS	12 U	12 U	12 U	53 U
4-Methyl-2-Pentanone	µg/Kg	13 U J	13 U J	13 U	NS	12 U	12 U	12 U	53 U
2-Hexanone	µg/Kg	13 U J	13 U J	13 U	NS	12 U	12 U	12 U	53 U
Tetrachloroethene	µg/Kg	13 U J	13 U J	13 U	NS	12 U	12 U	12 U	53 U
1,1,2,2-Tetrachloroethane	µg/Kg	13 U J	13 U J	13 U	NS	12 U	12 U	12 U	53 U
Toluene	µg/Kg	13 U J	13 U J	13 U	NS	12 U	12 U	3 J	11 J
Chlorobenzene	µg/Kg	13 U J	13 U J	13 U	NS	12 U	12 U	12 U	53 U
Ethylbenzene	µg/Kg	13 U J	13 U J	13 U	NS	12 U	12 U	12 U	8 J
Styrene	µg/Kg	13 U J	13 U J	13 U	NS	12 U	12 U	12 U	53 U
Xylene (total)	µg/Kg	13 U J	13 U J	13 U	NS	12 U	12 U	12 U	91

SENECA ARMY DEPOT, ASH LANDFILL
SOIL ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

COMPOUND	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	B-35	B-35	B-35	B-35	B-35	B-36	B-36	B-36
	DEPTH(FT.)	0-2	0-2	2-4	2-4	4-5.1	0-2	2-4	4-6
	DATE	12/15/92	12/15/92	12/15/92	12/15/92	12/15/92	04/27/93	04/27/93	04/27/93
	ES ID	B35-1	B35-1RE	B35-2	B35-2RE	B35-3	B36-1	B36-2	B36-3
	LAB ID	176442	176442R1	176443	176443R1	176444	183096	183097	183098
	UNITS								
VOCs									
Semivolatiles									
Phenol	µg/Kg	400 UJ	400 UJ	8100 UJ	400 UJ	410 U	370 U	410 U	770 U
bis(2-Chloroethyl) ether	µg/Kg	400 UJ	400 UJ	8100 UJ	400 UJ	410 U	370 U	410 U	770 U
2-Chlorophenol	µg/Kg	400 UJ	400 UJ	8100 UJ	400 UJ	410 U	370 U	410 U	770 U
1,3-Dichlorobenzene	µg/Kg	400 UJ	400 UJ	8100 UJ	400 UJ	410 U	370 U	410 U	770 U
1,4-Dichlorobenzene	µg/Kg	400 UJ	400 UJ	8100 UJ	400 UJ	410 U	370 U	410 U	770 U
Benzyl alcohol	µg/Kg	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dichlorobenzene	µg/Kg	400 UJ	400 UJ	8100 UJ	400 UJ	410 U	370 U	410 U	770 U
2-Methylphenol	µg/Kg	400 UJ	400 UJ	8100 UJ	400 UJ	410 U	370 U	410 U	770 U
2,2'-oxybis(1-Chloropropane)	µg/Kg	400 UJ	400 UJ	8100 UJ	400 UJ	410 U	370 U	410 U	770 U
4-Methylphenol	µg/Kg	400 UJ	400 UJ	8100 UJ	29 J	410 U	370 U	410 U	770 U
N-Nitroso-di-n-propylamine	µg/Kg	400 UJ	400 UJ	8100 UJ	400 UJ	410 U	370 U	410 U	770 U
Hexachloroethane	µg/Kg	400 UJ	400 UJ	8100 UJ	400 UJ	410 U	370 U	410 U	770 U
Nitrobenzene	µg/Kg	400 UJ	400 UJ	8100 UJ	400 UJ	410 U	370 U	410 U	770 U
Isophorone	µg/Kg	400 UJ	400 UJ	8100 UJ	400 UJ	410 U	370 U	410 U	770 U
2-Nitrophenol	µg/Kg	400 UJ	400 UJ	8100 UJ	400 UJ	410 U	370 U	410 U	770 U
2,4-Dimethylphenol	µg/Kg	400 UJ	400 UJ	8100 UJ	400 UJ	410 U	370 U	410 U	770 U
Benzoic acid	µg/Kg	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroethoxy) methane	µg/Kg	400 UJ	400 UJ	8100 UJ	400 UJ	410 U	370 U	410 U	770 U
2,4-Dichlorophenol	µg/Kg	400 UJ	400 UJ	8100 UJ	400 UJ	410 U	370 U	410 U	770 U
1,2,4-Trichlorobenzene	µg/Kg	400 UJ	400 UJ	8100 UJ	400 UJ	410 U	370 U	410 U	770 U
Naphthalene	µg/Kg	52 J	23 J	8100 UJ	25 J	410 U	370 U	410 U	410 J
4-Chloroaniline	µg/Kg	400 UJ	400 UJ	8100 UJ	400 UJ	410 U	370 U	410 U	770 U
Hexachlorobutadiene	µg/Kg	400 UJ	400 UJ	8100 UJ	400 UJ	410 U	370 U	410 U	770 U
4-Chloro-3-methylphenol	µg/Kg	400 UJ	8100 UJ	400 UJ	410 UJ	360 U	370 U	410 U	770 U
2-Methylnaphthalene	µg/Kg	20 J	19 J	8100 UJ	20 J	410 U	370 U	410 U	3600
Hexachlorocyclopentadiene	µg/Kg	400 UJ	400 UJ	8100 UJ	400 UJ	410 U	370 U	410 U	770 U
2,4,6-Trichlorophenol	µg/Kg	400 UJ	400 UJ	8100 UJ	400 UJ	410 U	370 U	410 U	770 U
2,4,5-Trichlorophenol	µg/Kg	960 UJ	960 UJ	20000 UJ	980 UJ	990 U	910 U	980 U	1900 U
2-Chloronaphthalene	µg/Kg	400 UJ	400 UJ	8100 UJ	400 UJ	410 U	370 U	410 U	770 U
2-Nitroaniline	µg/Kg	960 UJ	960 UJ	20000 UJ	980 UJ	990 U	910 U	980 U	1900 U
Dimethylphthalate	µg/Kg	400 UJ	400 UJ	8100 UJ	400 UJ	410 U	370 U	410 U	770 U
Acenaphthylene	µg/Kg	14 J	400 UJ	8100 UJ	400 UJ	410 U	54 J	39 J	770 U
2,6-Dinitrotoluene	µg/Kg	400 UJ	400 UJ	8100 UJ	400 UJ	410 U	370 U	410 U	770 U
3-Nitroaniline	µg/Kg	960 UJ	960 UJ	20000 UJ	980 UJ	990 U	910 U	980 U	1900 U
Acenaphthene	µg/Kg	40 J	38 J	8100 UJ	13 J	410 U	37 J	410 U	770 U
2,4-Dinitrophenol	µg/Kg	960 UJ	960 UJ	20000 UJ	980 UJ	990 U	910 U	980 U	1900 U
4-Nitrophenol	µg/Kg	960 UJ	960 UJ	20000 UJ	980 UJ	990 U	910 U	980 U	1900 U
Dibenzofuran	µg/Kg	24 J	24 J	8100 UJ	400 UJ	410 U	370 U	410 U	770 U
2,4-Dinitrotoluene	µg/Kg	400 UJ	400 UJ	8100 UJ	400 UJ	410 U	370 U	410 U	770 U
Diethylphthalate	µg/Kg	400 UJ	400 UJ	8100 UJ	400 UJ	410 U	370 U	410 U	770 U
4-Chlorophenyl-phenyl ether	µg/Kg	400 UJ	400 UJ	8100 UJ	400 UJ	410 U	370 U	410 U	770 U
Fluorene	µg/Kg	36 J	35 J	8100 UJ	16 J	410 U	43 J	410 U	470 J
4-Nitroaniline	µg/Kg	960 UJ	960 UJ	20000 UJ	980 UJ	990 U	910 U	980 U	1900 U
4,6-Dinitro-2-methylphenol	µg/Kg	960 UJ	960 UJ	20000 UJ	980 UJ	990 U	910 U	980 U	1900 U
N-Nitrosodiphenylamine	µg/Kg	400 UJ	400 UJ	8100 UJ	400 UJ	410 U	370 U	410 U	770 U
4-Bromophenyl-phenyl ether	µg/Kg	400 UJ	400 UJ	8100 UJ	400 UJ	410 U	370 U	410 U	770 U
Hexachlorobenzene	µg/Kg	400 UJ	400 UJ	8100 UJ	400 UJ	410 U	370 U	410 U	770 U
Pentachlorophenol	µg/Kg	960 UJ	960 UJ	20000 UJ	980 UJ	990 U	910 U	410 J	1900 U
Phenanthrene	µg/Kg	460 J	430 J	330 J	260 J	410 U	300 J	230 J	1200
Anthracene	µg/Kg	75 J	69 J	8100 UJ	67 J	410 U	61 J	410 U	770 U
Carbazole	µg/Kg	160 J	160 J	8100 UJ	100 J	410 U	370 U	410 U	770 U
Di-n-butylphthalate	µg/Kg	400 UJ	400 UJ	8100 UJ	23 J	260 J	370 U	220 J	330 J
Fluoranthene	µg/Kg	530 J	560 J	550 J	480 J	410 U	630	210 J	160 J
Pyrene	µg/Kg	630 J	500 J	600 J	710 J	410 U	510	190 J	230 J
Butylbenzylphthalate	µg/Kg	400 UJ	400 UJ	8100 UJ	130 J	410 U	370 U	410 U	770 U
3,3'-Dichlorobenzidine	µg/Kg	400 UJ	400 UJ	8100 UJ	400 UJ	410 U	370 U	410 U	770 U
Benzo(a)anthracene	µg/Kg	220 J	220 J	8100 UJ	430 J	410 U	460	150 J	770 U
Chrysene	µg/Kg	290 J	290 J	420 J	450 J	410 U	430	100 J	770 U
bis(2-Ethylhexyl)phthalate	µg/Kg	400 UJ	400 UJ	1400 J	340 J	1700	190 J	370 J	700 J
Di-n-octylphthalate	µg/Kg	400 UJ	400 UJ	8100 UJ	400 UJ	410 U	370 U	410 U	770 U
Benzo(b)fluoranthene	µg/Kg	180 J	220 J	420 J	380 J	410 U	640	130 J	770 U
Benzo(k)fluoranthene	µg/Kg	210 J	210 J	8100 UJ	360 J	410 U	400	130 J	770 U
Benzo(a)pyrene	µg/Kg	100 J	120 J	8100 UJ	300 J	410 U	470	120 J	770 U
Indeno(1,2,3-cd)pyrene	µg/Kg	89 J	110 J	8100 UJ	200 J	410 U	280 J	110 J	770 U
Dibenz(a,h)anthracene	µg/Kg	46 J	29 J	8100 UJ	86 J	410 U	140 J	410 U	770 U
Benzo(g,h,i)perylene	µg/Kg	31 J	42 J	8100 UJ	56 J	410 U	150 J	410 U	770 U

SENECA ARMY DEPOT, ASH LANDFILL
SOIL ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	B-35	B-35	B-35	B-35	B-35	B-36	B-36	B-36
	DEPTH(FT.)	0-2	0-2	2-4	2-4	4-5.1	0-2	2-4	4-6
	DATE	12/15/92	12/15/92	12/15/92	12/15/92	12/15/92	04/27/93	04/27/93	04/27/93
	ES ID	B35-1	B35-1RE	B35-2	B35-2RE	B35-3	B36-1	B36-2	B36-3
	LAB ID	176442	176442R1	176443	176443R1	176444	183096	183097	183098
COMPOUND	UNITS								
VOCs									
Pesticides/PCBs									
alpha-BHC	µg/Kg	2 U	NS	2.1 U	NS	2.1 U	1.9 U	4.2 U	2 U
beta-BHC	µg/Kg	2 U	NS	2.1 U	NS	2.1 U	1.8 J	4.2 U	2 U
delta-BHC	µg/Kg	2 U	NS	2.1 U	NS	2.1 U	1.9 U	2.3 J	2 U
gamma-BHC (Lindane)	µg/Kg	2 U	NS	2.1 U	NS	2.1 U	1.9 U	4.2 U	2 U
Heptachlor	µg/Kg	2 U	NS	2.1 U	NS	2.1 U	1.9 U	4.2 U	2 U
Aldrin	µg/Kg	2 U	NS	2.1 U	NS	2.1 U	1.9 U	4.2 U	2 U
Heptachlor epoxide	µg/Kg	2 U	NS	2.1 U	NS	2.1 U	1.9 U	4.2 U	2 U
Endosulfan I	µg/Kg	2 U	NS	2.1 U	NS	2.1 U	1.9 U	4.2 U	2 U
Dieldrin	µg/Kg	4 U	NS	4 U	NS	4 U	3.7 U	8.1 U	3.8 U
4,4'-DDE	µg/Kg	3.9 J	NS	5.6 J	NS	4 U	22	27	2.3 J
Endrin	µg/Kg	4 U	NS	4 U	NS	4 U	3.7 U	4.1 J	3.8 U
Endosulfan II	µg/Kg	4 U	NS	4 U	NS	4 U	2.7 J	8.1 U	3.8 U
4,4'-DDD	µg/Kg	4 U	NS	7.6	NS	4 U	18	74	36
Endosulfan sulfate	µg/Kg	2.2 J	NS	4 U	NS	4 U	2.5 J	8.1 U	3.8 U
4,4'-DDT	µg/Kg	3.9 J	NS	4 U	NS	4 U	7.1 J	13 J	3.8 U
Methoxychlor	µg/Kg	20 U	NS	21 U	NS	21 U	19 U	42 U	20 U
Endrin ketone	µg/Kg	4 U	NS	4 U	NS	4 U	5.5 J	8.1 U	3.8 U
Endrin aldehyde	µg/Kg	4 U	NS	4 U	NS	4 U	3.7 U	8.1 U	3.8 U
alpha-Chlordane	µg/Kg	2 U	NS	2.1 U	NS	2.1 U	3.1 J	4.2 U	2 U
gamma-Chlordane	µg/Kg	2 U	NS	2.1 U	NS	2.1 U	2.1	4.2 U	2 U
Toxaphene	µg/Kg	200 U	NS	210 U	NS	210 U	190 U	420 U	200 U
Aroclor-1016	µg/Kg	40 U	NS	40 U	NS	40 U	37 U	81 U	38 U
Aroclor-1221	µg/Kg	80 U	NS	82 U	NS	82 U	76 U	160 U	78 U
Aroclor-1232	µg/Kg	40 U	NS	40 U	NS	40 U	37 U	81 U	38 U
Aroclor-1242	µg/Kg	40 U	NS	40 U	NS	40 U	37 U	81 U	38 U
Aroclor-1248	µg/Kg	40 U	NS	40 U	NS	40 U	37 U	81 U	92 J
Aroclor-1254	µg/Kg	40 U	NS	25 J	NS	40 U	37 U	81 U	38 U
Aroclor-1260	µg/Kg	40 U	NS	40 U	NS	40 U	37 U	350 J	180 J
Herbicides									
2,4-D	µg/Kg	60 U	NS	61 U	NS	61 U	57 U	62 U	58 U
2,4-DB	µg/Kg	80 U	NS	61 U	NS	61 U	57 U	62 U	58 U
2,4,5-T	µg/Kg	6 U	NS	6.1 U	NS	6.1 U	5.7 U	6.2 U	5.8 U
2,4,5-TP (Silvex)	µg/Kg	6 U	NS	6.1 U	NS	6.1 U	5.7 U	6.2 U	5.8 U
Dalapon	µg/Kg	140 U	NS	150 U	NS	150 U	140 U	150 U	140 U
Dicamba	µg/Kg	6 U	NS	6.1 U	NS	6.1 U	5.7 U	6.2 U	5.8 U
Dichloroprop	µg/Kg	60 U	NS	61 U	NS	61 U	57.0 U	62 U	58 U
Dinoseb	µg/Kg	30 U	NS	31 U	NS	30 U	29.0 U	31 U	29 U
MCPA	µg/Kg	6000 U	NS	6100 U	NS	6100 U	5700.0 U	6200 U	5800 U
MCPP	µg/Kg	6000 U	NS	6100 U	NS	6100 U	5700.0 U	6200 U	5800 U
Metals									
Aluminum	mg/Kg	14300	NS	15000	NS	22000	11700	16200	15300
Antimony	mg/Kg	8 J	NS	9.1 UJ	NS	7.2 UJ	3.8 UJ	4.7 UJ	5.8 UJ
Arsenic	mg/Kg	1.7	NS	3.8	NS	2.1	9.8	8.1	4.6
Barium	mg/Kg	163 J	NS	182 J	NS	98.1 J	73.7	133	82.5
Beryllium	mg/Kg	0.59 J	NS	0.7 J	NS	1.1	0.57 J	0.85 J	0.71 J
Cadmium	mg/Kg	0.71	NS	0.8 J	NS	0.42 U	0.39 J	0.35 U	0.43 U
Calcium	mg/Kg	25200	NS	30400	NS	5010	40400	7650	14200
Chromium	mg/Kg	28.9 J	NS	34.2 J	NS	36.9 J	26.5	24.8	24.4
Cobalt	mg/Kg	10.6	NS	11	NS	17.7	11.5	12	12.6
Copper	mg/Kg	75.5	NS	73.2	NS	23.3	51.8	27.1	28.4
Iron	mg/Kg	28600	NS	30200	NS	42900	36900	28100	30200
Lead	mg/Kg	126	NS	203	NS	25.4	110	57.9	14.9
Magnesium	mg/Kg	7360	NS	7410	NS	7690	7020	5320	6000
Manganese	mg/Kg	476	NS	443	NS	1250	472	669	886
Mercury	mg/Kg	0.39	NS	0.76	NS	0.06 R	0.33	0.14	0.05 U
Nickel	mg/Kg	35.4	NS	36.1	NS	54.4	42.9	32.8	40.1
Potassium	mg/Kg	1130	NS	1600	NS	1680	1210	1420	1420
Selenium	mg/Kg	1	NS	1.1	NS	0.67 J	0.23 U	0.59 J	0.22 J
Silver	mg/Kg	0.4 U	NS	0.82 J	NS	0.43 U	0.82 J	0.75 U	0.92 U
Sodium	mg/Kg	203 J	NS	268 J	NS	248 J	120 J	88.9 U	109 U
Thallium	mg/Kg	0.33 U	NS	0.39 U	NS	0.35 U	0.68 U	0.43 U	0.63 U
Vanadium	mg/Kg	21.3	NS	22.8	NS	28.9	23.9	25.5	23.6
Zinc	mg/Kg	6290	NS	4210	NS	116 J	252	108	99.6
Cyanide	mg/Kg	0.49 U	NS	2.2	NS	0.67 U	0.68 U	0.74 U	0.59 U

SENECA ARMY DEPOT, ASH LANDFILL
SOIL ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

COMPOUND	MATRIX LOCATION DEPTH(FT.) DATE ES ID LAB ID UNITS	SOIL B-36 6-7.9 04/27/93 B36-4 183099	SOIL B-36 4-6 04/27/93 B36-6 183100 DUP B36-3	SOIL B-37 0-2 04/28/93 B37-1 183181	SOIL B-37 2-4 04/28/93 B37-2 183182	SOIL B-37 4-5.5 04/28/93 B37-3 183183	SOIL B-37 4-5.5 04/28/93 B37-6 183184 DUP B37-3	SOIL B-38 0-2 04/28/93 B38-1 183185	SOIL B-38 0-2 04/28/93 B38-1RE 183185R1
VOCs									
Chloromethane	µg/Kg	1300 U	58 U	13 U	11 U	11 U	11 U	11 U	NS
Bromomethane	µg/Kg	1300 U	58 U	13 U	11 U	11 U	11 U	11 U	NS
Vinyl Chloride	µg/Kg	1300 U	58 U	13 U	11 U	11 U	11 U	11 U	NS
Chloroethane	µg/Kg	1300 U	58 U	13 U	11 U	11 U	11 U	11 U	NS
Methylene Chloride	µg/Kg	1300 U	58 U	13 U	11 U	11 U	11 U	11 U	NS
Acetone	µg/Kg	1300 U	100	13 U	11 U	11 U	13 U	11 U	NS
Carbon Disulfide	µg/Kg	1300 U	58 U	13 U	11 U	11 U	11 U	11 U	NS
1,1-Dichloroethene	µg/Kg	1300 U	58 U	13 U	11 U	11 U	11 U	11 U	NS
1,1-Dichloroethane	µg/Kg	1300 U	58 U	13 U	11 U	11 U	11 U	11 U	NS
1,2-Dichloroethene (total)	µg/Kg	1300 U	58 U	3 J	2 J	16	12	7 J	NS
Chloroform	µg/Kg	1300 U	58 U	13 U	11 U	11 U	11 U	11 U	NS
1,2-Dichloroethane	µg/Kg	1300 U	58 U	13 U	11 U	11 U	11 U	11 U	NS
2-Butanone	µg/Kg	1300 U	58 U	13 U	11 U	11 U	11 U	11 U	NS
1,1,1-Trichloroethane	µg/Kg	1300 U	58 U	13 U	11 U	11 U	11 U	11 U	NS
Carbon Tetrachloride	µg/Kg	1300 U	58 U	13 U	11 U	11 U	11 U	11 U	NS
Vinyl acetate	µg/Kg	NS	NS	NS	NS	NS	NS	NS	NS
Bromodichloromethane	µg/Kg	1300 U	58 U	13 U	11 U	11 U	11 U	11 U	NS
1,2-Dichloropropane	µg/Kg	1300 U	58 U	13 U	11 U	11 U	11 U	11 U	NS
cis-1,3-Dichloropropene	µg/Kg	1300 U	58 U	13 U	11 U	11 U	11 U	11 U	NS
Trichloroethene	µg/Kg	1300 U	58 U	8 J	10 J	37	38	73	NS
Dibromochloromethane	µg/Kg	1300 U	58 U	13 U	11 U	11 U	11 U	11 U	NS
1,1,2-Trichloroethane	µg/Kg	1300 U	58 U	13 U	11 U	11 U	11 U	11 U	NS
Benzene	µg/Kg	1300 U	58 U	13 U	11 U	11 U	11 U	11 U	NS
trans-1,3-Dichloropropene	µg/Kg	1300 U	58 U	13 U	11 U	11 U	11 U	11 U	NS
Bromoform	µg/Kg	1300 U	58 U	13 U	11 U	11 U	11 U	11 U	NS
4-Methyl-2-Pentanone	µg/Kg	1300 U	58 U	13 U	11 U	11 U	11 U	11 U	NS
2-Hexanone	µg/Kg	1300 U	58 U	13 U	11 U	11 U	11 U	11 U	NS
Tetrachloroethene	µg/Kg	1300 U	58 U	13 U	11 U	11 U	11 U	11 U	NS
1,1,2,2-Tetrachloroethane	µg/Kg	1300 U	58 U	13 U	11 U	11 U	11 U	11 U	NS
Toluene	µg/Kg	1300 U	8 J	13 U	11 U	11 U	11 U	11 U	NS
Chlorobenzene	µg/Kg	1300 U	58 U	13 U	11 U	11 U	11 U	11 U	NS
Ethylbenzene	µg/Kg	1300 U	58 U	13 U	11 U	11 U	11 U	11 U	NS
Styrene	µg/Kg	1300 U	58 U	13 U	11 U	11 U	11 U	11 U	NS
Xylene (total)	µg/Kg	500 J	76	13 U	11 U	11 U	11 U	11 U	NS

SENECA ARMY DEPOT, ASH LANDFILL
SOIL ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

COMPOUND	MATRIX / LOCATION / DEPTH(FT.) / DATE / ES ID / LAB ID / UNITS								
	SOIL B-36 6-7.9 04/27/93 B36-4 183099 µg/Kg	SOIL B-36 4-6 04/27/93 B36-6 183100 DUP B36-3 µg/Kg	SOIL B-37 0-2 04/28/93 B37-1 183181 µg/Kg	SOIL B-37 2-4 04/28/93 B37-2 183182 µg/Kg	SOIL B-37 4-5.5 04/28/93 B37-3 183183 µg/Kg	SOIL B-37 4-5.5 04/28/93 B37-6 183184 DUP B37-3 µg/Kg	SOIL B-38 0-2 04/28/93 B38-1 183185 µg/Kg	SOIL B-38 0-2 04/28/93 B38-1RE 183185R1 µg/Kg
VOCs								
Semivolatiles								
Phenol	610 U	390 U	460 U	390 U	360 U	370 U	360 U	360 U
bis(2-Chloroethyl) ether	610 U	390 U	460 U	390 U	360 U	370 U	360 U	360 U
2-Chlorophenol	610 U	390 U	460 U	390 U	360 U	370 U	360 U	360 U
1,3-Dichlorobenzene	610 U	390 U	460 U	390 U	360 U	370 U	360 U	360 U
1,4-Dichlorobenzene	610 U	390 U	460 U	390 U	360 U	370 U	360 U	360 U
Benzyl alcohol	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dichlorobenzene	610 U	390 U	460 U	390 U	360 U	370 U	360 U	360 U
2-Methylphenol	610 U	390 U	460 U	390 U	360 U	370 U	360 U	360 U
2,2'-oxybis(1-Chloropropane)	610 U	390 U	460 U	390 U	360 U	370 U	360 U	360 U
4-Methylphenol	610 U	390 U	460 U	390 U	360 U	370 U	360 U	360 U
N-Nitroso-di-n-propylamine	610 U	390 U	460 U	390 U	360 U	370 U	360 U	360 U
Hexachloroethane	610 U	390 U	460 U	390 U	360 U	370 U	360 U	360 U
Nitrobenzene	610 U	390 U	460 U	390 U	360 U	370 U	360 U	360 U
Isophorone	610 U	390 U	460 U	390 U	360 U	370 U	360 U	360 U
2-Nitrophenol	610 U	390 U	460 U	390 U	360 U	370 U	360 U	360 U
2,4-Dimethylphenol	610 U	390 U	460 U	390 U	360 U	370 U	360 U	360 U
Benzoic acid	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroethoxy) methane	610 U	390 U	460 U	390 U	360 U	370 U	360 U	360 U
2,4-Dichlorophenol	610 U	390 U	460 U	390 U	360 U	370 U	360 U	360 U
1,2,4-Trichlorobenzene	610 U	390 U	460 U	390 U	360 U	370 U	360 U	360 U
Naphthalene	460 J	370 J	460 U	390 U	360 U	370 U	360 U	360 U
4-Chloroaniline	610 U	390 U	460 U	390 U	360 U	370 U	360 U	360 U
Hexachlorobutadiene	610 U	390 U	460 U	390 U	360 U	370 U	360 U	360 U
4-Chloro-3-methylphenol	610 U	390 U	460 U	390 U	360 U	370 U	360 U	360 U
2-Methylnaphthalene	1900	3200	460 U	390 U	360 U	370 U	360 U	360 U
Hexachlorocyclopentadiene	610 U	390 U	460 U	390 U	360 U	370 U	360 U	360 U
2,4,6-Trichlorophenol	610 U	390 U	460 U	390 U	360 U	370 U	360 U	360 U
2,4,5-Trichlorophenol	1500 U	940 U	1100 U	940 U	870 U	890 U	880 U	880 U
2-Chloronaphthalene	610 U	390 U	460 U	390 U	360 U	370 U	360 U	360 U
2-Nitroaniline	1500 U	940 U	1100 U	940 U	870 U	890 U	880 U	880 U
Dimethylphthalate	610 U	390 U	460 U	390 U	360 U	370 U	360 U	360 U
Acenaphthylene	610 U	390 U	460 U	390 U	360 U	370 U	360 U	360 U
2,6-Dinitrotoluene	610 U	390 U	460 U	390 U	360 U	370 U	360 U	360 U
3-Nitroaniline	1500 U	940 U	1100 U	940 U	870 U	890 U	880 U	880 U
Acenaphthene	610 U	390 U	460 U	390 U	360 U	370 U	64 J	67 J
2,4-Dinitrophenol	1500 U	940 U	1100 U	940 U	870 U	890 U	880 U	880 U
4-Nitrophenol	1500 U	940 U	1100 U	940 U	870 U	890 U	880 U	880 U
Dibenzofuran	610 U	390 U	460 U	390 U	360 U	370 U	360 U	360 U
2,4-Dinitrotoluene	610 U	390 U	460 U	390 U	360 U	370 U	360 U	360 U
Diethylphthalate	610 U	390 U	460 U	390 U	360 U	370 U	360 U	360 U
4-Chlorophenyl-phenylether	610 U	390 U	460 U	390 U	360 U	370 U	360 U	360 U
Fluorene	460 J	660	460 U	390 U	360 U	370 U	65 J	72 J
4-Nitroaniline	1500 U	940 U	1100 U	940 U	870 U	890 U	880 U	880 U
4,6-Dinitro-2-methylphenol	1500 U	940 U	1100 U	940 U	870 U	890 U	880 U	880 U
N-Nitrosodiphenylamine	610 U	390 U	460 U	390 U	360 U	370 U	360 U	360 U
4-Bromophenyl-phenylether	610 U	390 U	460 U	390 U	360 U	370 U	360 U	360 U
Hexachlorobenzene	610 U	390 U	460 U	390 U	360 U	370 U	360 U	360 U
Pentachlorophenol	1500 U	940 U	1100 U	940 U	870 U	890 U	880 U	880 U
Phenanthrene	1200	1400	460 U	390 U	360 U	370 U	870	830
Anthracene	610 U	390 U	460 U	390 U	360 U	370 U	210 J	250 J
Carbazole	610 U	390 U	460 U	390 U	360 U	370 U	360 U	360 U
Di-n-butylphthalate	420 J	290 J	460 U	390 U	110 J	160 J	130 J	120 J
Fluoranthene	610 U	94 J	460 U	390 U	360 U	370 U	1500	1300
Pyrene	290 J	98 J	460 U	390 U	360 U	370 U	1400	1300
Butylbenzylphthalate	610 U	390 U	460 U	390 U	360 U	370 U	360 U	360 U
3,3'-Dichlorobenzidine	610 U	390 U	460 U	390 U	360 U	370 U	360 U	360 U
Benzo(a)anthracene	610 U	390 U	460 U	390 U	360 U	370 U	730 J	740 J
Chrysene	610 U	390 U	460 U	390 U	360 U	370 U	490	500
bis(2-Ethylhexyl)phthalate	790	300 J	83 J	99 J	170 J	290 J	260 J	250 J
Di-n-octylphthalate	610 U	390 U	460 U	390 U	360 U	51 J	360 U	360 U
Benzo(b)fluoranthene	610 U	390 U	460 U	390 U	360 U	370 U	660	740 J
Benzo(k)fluoranthene	610 U	390 U	460 U	390 U	360 U	370 U	360 J	310 J
Benzo(a)pyrene	610 U	390 U	460 U	390 U	360 U	370 U	370	380
Indeno(1,2,3-cd)pyrene	610 U	390 U	460 U	390 U	360 U	370 U	150 J	150 J
Dibenz(a,h)anthracene	610 U	390 U	460 U	390 U	360 U	370 U	360 UJ	360 U
Benzo(g,h,i)perylene	610 U	390 U	460 U	390 U	360 U	370 U	360 U	360 U

SENECA ARMY DEPOT, ASH LANDFILL
SOIL ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

COMPOUND	MATRIX LOCATION DEPTH(FT.) DATE ES ID LAB ID UNITS	SOIL B-36 6-7.9 04/27/93 B36-4 183099	SOIL B-36 4-6 04/27/93 B36-6 183100 DUP B36-3	SOIL B-37 0-2 04/28/93 B37-1 183181	SOIL B-37 2-4 04/28/93 B37-2 183182	SOIL B-37 4-5.5 04/28/93 B37-3 183183	SOIL B-37 4-5.5 04/28/93 B37-6 183184 DUP B37-3	SOIL B-38 0-2 04/28/93 B38-1 183185	SOIL B-38 0-2 04/28/93 B38-1RE 183185R1
VOCs									
Pesticides/PCBs									
alpha-BHC	µg/Kg	1.9 U	2 U	2.4 U	2 U	1.8 U	1.9 U	1.9 U	NS
beta-BHC	µg/Kg	1.9 U	2 U	2.4 U	2 U	1.8 U	1.9 U	1.9 U	NS
delta-BHC	µg/Kg	1.9 U	2 U	2.4 U	2 U	1.8 U	1.9 U	1.6 J	NS
gamma-BHC (Lindane)	µg/Kg	1.9 U	2 U	2.4 U	2 U	1.8 U	1.9 U	1.9 U	NS
Heptachlor	µg/Kg	1.9 U	2 U	2.4 U	2 U	1.8 U	1.9 U	1.9 U	NS
Aldrin	µg/Kg	1.9 U	2 U	2.4 U	2 U	1.8 U	1.9 U	1.9 U	NS
Heptachlor epoxide	µg/Kg	1.9 U	2 U	2.4 U	2 U	1.8 U	1.9 U	1.9 U	NS
Endosulfan I	µg/Kg	1.9 U	2 U	2.4 U	2 U	1.8 U	1.9 U	2.1 J	NS
Dieldrin	µg/Kg	3.6 U	3.9 U	4.6 U	3.9 U	3.6 U	3.7 U	3.6 U	NS
4,4'-DDE	µg/Kg	3.6 U	2.2 J	4.6 U	3.9 U	3.6 U	3.7 U	3.4 J	NS
Endrin	µg/Kg	3.6 U	3.9 U	4.6 U	3.9 U	3.6 U	3.7 U	3.6 U	NS
Endosulfan II	µg/Kg	3.6 U	3.9 U	4.6 U	3.9 U	3.6 U	3.7 U	3.6 U	NS
4,4'-DDD	µg/Kg	15	35	4.6 U	3.9 U	3.6 U	3.7 U	3.6 U	NS
Endosulfan sulfate	µg/Kg	3.6 U	3.9 U	4.6 U	3.9 U	3.6 U	3.7 U	3.6 U	NS
4,4'-DDT	µg/Kg	3.6 U	3.9 U	4.6 U	3.9 U	3.6 U	3.7 U	3.6 U	NS
Methoxychlor	µg/Kg	13 J	20 U	24 U	20 U	18 U	19 U	19 U	NS
Endrin ketone	µg/Kg	3.6 U	3.9 U	4.6 U	3.9 U	3.6 U	3.7 U	5.6 J	NS
Endrin aldehyde	µg/Kg	3.6 U	3.9 U	4.6 U	3.9 U	3.6 U	3.7 U	3.6 U	NS
alpha-Chlordane	µg/Kg	1.9 U	2 U	2.4 U	2 U	1.8 U	1.9 U	1.3 J	NS
gamma-Chlordane	µg/Kg	1.9 U	2 U	2.4 U	2 U	1.8 U	1.9 U	1.9 U	NS
Toxaphene	µg/Kg	190 U	200 U	240 U	200 U	180 U	190 U	190 U	NS
Aroclor-1016	µg/Kg	36 U	39 U	46 U	39 U	36 U	37 U	36 U	NS
Aroclor-1221	µg/Kg	74 U	80 U	94 U	78 U	72 U	74 U	73 U	NS
Aroclor-1232	µg/Kg	36 U	39 U	46 U	39 U	36 U	37 U	36 U	NS
Aroclor-1242	µg/Kg	36 U	39 U	46 U	39 U	36 U	37 U	36 U	NS
Aroclor-1248	µg/Kg	180 J	89 J	46 U	39 U	36 U	37 U	36 U	NS
Aroclor-1254	µg/Kg	36 U	39 U	46 U	39 U	36 U	37 U	36 U	NS
Aroclor-1260	µg/Kg	390 J	170 J	46 U	39 U	36 U	37 U	38 U	NS
Herbicides									
2,4-D	µg/Kg	56 U	59 U	71 U	59 U	54 U	56 U	55 U	NS
2,4-DB	µg/Kg	56 U	59 U	71 U	59 U	54 U	56 U	55 U	NS
2,4,5-T	µg/Kg	5.6 U	5.9 U	7.1 U	5.9 U	5.4 U	5.6 U	5.5 U	NS
2,4,5-TP (Silvex)	µg/Kg	5.6 U	5.9 U	7.1 U	5.9 U	5.4 U	5.6 U	5.5 U	NS
Dalapon	µg/Kg	140 U	150 U	170 U	150 U	130 U	140 U	140 U	NS
Dicamba	µg/Kg	5.6 U	5.9 U	7.1 U	5.9 U	5.4 U	5.6 U	5.5 U	NS
Dichloroprop	µg/Kg	56 U	59 U	71 U	59 U	54 U	56 U	55 U	NS
Dinoseb	µg/Kg	28 U	30 U	36 U	30 U	27 U	28 U	28 U	NS
MCPA	µg/Kg	5600 U	5900 U	7100 U	5900 U	5400 U	5600 U	5500 U	NS
MCPP	µg/Kg	5600 U	5900 U	7100 U	5900 U	5400 U	5600 U	5500 U	NS
Metals									
Aluminum	mg/Kg	11500	15700	15400	15400	16000	12800	9120	NS
Antimony	mg/Kg	3.1 UJ	4.1 UJ	7.3 UJ	5.4 UJ	3.5 UJ	4.8 UJ	4.2 J	NS
Arsenic	mg/Kg	4.1	5.3	2.5	4.4	5.9	2.1 J	2.8	NS
Barium	mg/Kg	50.6	75.2	114	75.2	68.7	36.4	211	NS
Beryllium	mg/Kg	0.52 J	0.77	0.92 J	0.74 J	0.74	0.55 J	0.46 J	NS
Cadmium	mg/Kg	0.22 U	0.3 U	0.74 J	0.4 U	0.26 U	0.35 U	0.36 J	NS
Calcium	mg/Kg	61500	7700	6020	26900	7240	21700	16000	NS
Chromium	mg/Kg	18.1	25.5	22.7	24.7	25.6	20.1	18.4	NS
Cobalt	mg/Kg	10.6	15.2	9.6 J	14.5	14.3	10.8	11.5	NS
Copper	mg/Kg	19.4	31.4	34.7	26.4	22.8	10.3	38.4	NS
Iron	mg/Kg	23400	34600	25200	30000	31000	25800	19000	NS
Lead	mg/Kg	9.5	12.4	16.3	8.2	8.7	2.9	59	NS
Magnesium	mg/Kg	7780	6090	4210	6080	6200	5520	4270	NS
Manganese	mg/Kg	495	618	337	757	676	476	400	NS
Mercury	mg/Kg	0.05 U	0.05 U	0.05 U	0.04 U	0.04 U	0.05 U	0.04 J	NS
Nickel	mg/Kg	31	44.1	26	41.3	39.9	31.1	34.3	NS
Potassium	mg/Kg	985	1300	1540	1680	1320	1000	1250	NS
Selenium	mg/Kg	0.53 J	0.19 J	0.41 J	0.21 U	0.16 U	0.22 U	0.19 J	NS
Silver	mg/Kg	0.48 U	0.65 U	1.1 U	0.86 U	0.55 U	0.75 U	0.61 U	NS
Sodium	mg/Kg	184 J	77.3 U	137 U	102 U	65.9 U	89.2 J	102 J	NS
Thallium	mg/Kg	0.61 U	0.43 U	0.56 U	0.62 U	0.49 U	0.65 U	0.42 U	NS
Vanadium	mg/Kg	15.3	23.8	24.1	22.7	21.4	14.9	15.3	NS
Zinc	mg/Kg	75.7	111	98.7	90	84.5	68.4	4070	NS
Cyanide	mg/Kg	0.58 U	0.59 U	0.85 U	0.7 U	0.65 U	0.66 U	0.86 U	NS

SENECA ARMY DEPOT, ASH LANDFILL
SOIL ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	B-38	B-38	B-38	B-38	B-39	B-39	B-39	B-39
	DEPTH(FT.)	2-4	4-6	6-8	4-6	0-2	0-2	3-4	3-4
	DATE	04/28/93	04/28/93	04/28/93	04/28/93	12/15/92	12/15/92	12/15/92	12/15/92
	ES ID	B38-2	B38-3	B38-4	B38-6	B39-1	B39-1RE	B39-2	B39-2RE
	LAB ID	183186	183187	183188	183169	176445	176445R1	176446	176446R1
COMPOUND	UNITS				DUP B38-3				
VOCs									
Chloromethane	µg/Kg	12 U	11 U	12 U	12 U	1300 U	NS	60 U	NS
Bromomethane	µg/Kg	12 U	11 U	12 U	12 U	1300 U	NS	60 U	NS
Vinyl Chloride	µg/Kg	2 J	11 U	9 J	9 J	1300 U	NS	1000	NS
Chloroethane	µg/Kg	12 U	11 U	12 U	12 U	1300 U	NS	60 U	NS
Methylene Chloride	µg/Kg	12 U	11 U	12 U	12 U	1300 U	NS	9 J	NS
Acetone	µg/Kg	140	11 U	12 U	12 U	1300 U	NS	60 J	NS
Carbon Disulfide	µg/Kg	12 U	11 U	12 U	12 U	1300 U	NS	60 U	NS
1,1-Dichloroethene	µg/Kg	12 U	11 U	12 U	12 U	1300 U	NS	30 J	NS
1,1-Dichloroethane	µg/Kg	12 U	11 U	12 U	12 U	1300 U	NS	60 U	NS
1,2-Dichloroethene (total)	µg/Kg	7 J	46	190	95	38000	NS	7300 J	NS
Chloroform	µg/Kg	12 U	11 U	12 U	12 U	1300 U	NS	60 U	NS
1,2-Dichloroethane	µg/Kg	12 U	11 U	12 U	12 U	210 J	NS	60 U	NS
2-Butanone	µg/Kg	22	11 U	12 U	12 U	1300 U	NS	60 U	NS
1,1,1-Trichloroethane	µg/Kg	12 U	11 U	12 U	12 U	1300 U	NS	60 U	NS
Carbon Tetrachloride	µg/Kg	12 U	11 U	12 U	12 U	1300 U	NS	60 U	NS
Vinyl acetate	µg/Kg	NS	NS	NS	NS	NS	NS	NS	NS
Bromodichloromethane	µg/Kg	12 U	11 U	12 U	12 U	1300 U	NS	60 U	NS
1,2-Dichloropropane	µg/Kg	12 U	11 U	12 U	12 U	1300 U	NS	60 U	NS
cis-1,3-Dichloropropene	µg/Kg	12 U	11 U	12 U	12 U	1300 U	NS	60 U	NS
Trichloroethene	µg/Kg	28	47	150	64	150000 J	NS	700	NS
Dibromochloromethane	µg/Kg	12 U	11 U	12 U	12 U	1300 U	NS	60 U	NS
1,1,2-Trichloroethane	µg/Kg	12 U	11 U	12 U	12 U	1300 U	NS	60 U	NS
Benzene	µg/Kg	12 U	11 U	12 U	12 U	1300 U	NS	60 U	NS
trans-1,3-Dichloropropene	µg/Kg	12 U	11 U	12 U	12 U	1300 U	NS	60 U	NS
Bromoform	µg/Kg	12 U	11 U	12 U	12 U	1300 U	NS	60 U	NS
4-Methyl-2-Pentanone	µg/Kg	12 U	11 U	12 U	12 U	1300 U	NS	60 U	NS
2-Hexanone	µg/Kg	12 U	11 U	12 U	12 U	1300 U	NS	60 U	NS
Tetrachloroethene	µg/Kg	12 U	11 U	12 U	12 U	1300 U	NS	60 U	NS
1,1,2,2-Tetrachloroethane	µg/Kg	12 U	11 U	12 U	12 U	1300 U	NS	60 U	NS
Toluene	µg/Kg	12 U	11 U	12 U	12 U	1300 U	NS	60 U	NS
Chlorobenzene	µg/Kg	12 U	11 U	12 U	12 U	1300 U	NS	60 U	NS
Ethylbenzene	µg/Kg	12 U	11 U	12 U	12 U	1300 U	NS	60 U	NS
Styrene	µg/Kg	12 U	11 U	12 U	12 U	1300 U	NS	60 U	NS
Xylene (total)	µg/Kg	12 U	11 U	12 U	12 U	1300 U	NS	30 J	NS

SENECA ARMY DEPOT, ASH LANDFILL
SOIL ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	B-38	B-38	B-38	B-38	B-39	B-39	B-39	B-39
	DEPTH(FT.)	2-4	4-6	8-8	4-6	0-2	0-2	3-4	3-4
	DATE	04/28/93	04/28/93	04/28/93	04/28/93	12/15/92	12/15/92	12/15/92	12/15/92
	ES ID	B38-2	B38-3	B38-4	B38-6	B39-1	B39-1RE	B39-2	B39-2RE
	LAB ID	183186	183187	183188	183169	176445	176445R1	176446	176446R1
COMPOUND	UNITS				DUP B38-3				
VOCs									
Semivolatiles									
Phenol	µg/Kg	400 U	370 U	380 U	360 U	360 UJ	360 UJ	400 UJ	400 UJ
bis(2-Chloroethyl) ether	µg/Kg	400 U	370 U	380 U	360 U	360 UJ	360 UJ	400 UJ	400 UJ
2-Chlorophenol	µg/Kg	400 U	370 U	380 U	360 U	360 UJ	360 UJ	400 UJ	400 UJ
1,3-Dichlorobenzene	µg/Kg	400 U	370 U	380 U	360 U	360 UJ	360 UJ	400 UJ	400 UJ
1,4-Dichlorobenzene	µg/Kg	400 U	370 U	380 U	360 U	360 UJ	360 UJ	400 UJ	400 UJ
Benzyl alcohol	µg/Kg	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dichlorobenzene	µg/Kg	400 U	370 U	380 U	360 U	360 UJ	360 UJ	400 UJ	400 UJ
2-Methylphenol	µg/Kg	400 U	370 U	380 U	360 U	360 UJ	360 UJ	400 UJ	400 UJ
2,2'-oxybis(1-Chloropropane)	µg/Kg	400 U	370 U	380 U	360 U	360 UJ	360 UJ	400 UJ	400 UJ
4-Methylphenol	µg/Kg	400 U	370 U	380 U	360 U	360 UJ	360 UJ	400 UJ	400 UJ
N-Nitroso-di-n-propylamine	µg/Kg	400 U	370 U	380 U	360 U	360 UJ	360 UJ	400 UJ	400 UJ
Hexachloroethane	µg/Kg	400 U	370 U	380 U	360 U	360 UJ	360 UJ	400 UJ	400 UJ
Nitrobenzene	µg/Kg	400 U	370 U	380 U	360 U	360 UJ	360 UJ	400 UJ	400 UJ
Isophorone	µg/Kg	400 U	370 U	380 U	360 U	360 UJ	360 UJ	400 UJ	400 UJ
2-Nitrophenol	µg/Kg	400 U	370 U	380 U	360 U	360 UJ	360 UJ	400 UJ	400 UJ
2,4-Dimethylphenol	µg/Kg	400 U	370 U	380 U	360 U	360 UJ	360 UJ	400 UJ	400 UJ
Benzoic acid	µg/Kg	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroethoxy) methane	µg/Kg	400 U	370 U	380 U	360 U	360 UJ	360 UJ	400 UJ	400 UJ
2,4-Dichlorophenol	µg/Kg	400 U	370 U	380 U	360 U	360 UJ	360 UJ	400 UJ	400 UJ
1,2,4-Trichlorobenzene	µg/Kg	400 U	370 U	380 U	360 U	360 UJ	360 UJ	400 UJ	400 UJ
Naphthalene	µg/Kg	400 U	370 U	380 U	360 U	360 UJ	360 UJ	400 UJ	400 UJ
4-Chloroaniline	µg/Kg	400 U	370 U	380 U	360 U	360 UJ	360 UJ	400 UJ	400 UJ
Hexachlorobutadiene	µg/Kg	400 U	370 U	380 U	360 U	360 UJ	360 UJ	400 UJ	400 UJ
4-Chloro-3-methylphenol	µg/Kg	400 U	370 U	380 U	360 U	360 UJ	400 UJ	400 UJ	390 UJ
2-Methylnaphthalene	µg/Kg	400 U	370 U	380 U	360 U	360 UJ	360 UJ	400 UJ	15 J
Hexachlorocyclopentadiene	µg/Kg	400 U	370 U	380 U	360 U	360 UJ	360 UJ	400 UJ	400 UJ
2,4,6-Trichlorophenol	µg/Kg	400 U	370 U	380 U	360 U	360 UJ	360 UJ	400 UJ	400 UJ
2,4,5-Trichlorophenol	µg/Kg	960 U	910 U	920 U	880 U	870 UJ	870 UJ	980 UJ	980 UJ
2-Chloronaphthalene	µg/Kg	400 U	370 U	380 U	360 U	360 UJ	360 UJ	400 UJ	400 UJ
2-Nitroaniline	µg/Kg	960 U	910 U	920 U	880 U	870 UJ	870 UJ	980 UJ	980 UJ
Dimethylphthalate	µg/Kg	400 U	370 U	380 U	360 U	360 UJ	360 UJ	400 UJ	400 UJ
Acenaphthylene	µg/Kg	400 U	370 U	380 U	360 U	360 UJ	360 UJ	400 UJ	400 UJ
2,6-Dinitrotoluene	µg/Kg	400 U	370 U	380 U	360 U	360 UJ	360 UJ	400 UJ	400 UJ
3-Nitroaniline	µg/Kg	960 U	910 U	920 U	880 U	870 UJ	870 UJ	980 UJ	980 UJ
Acenaphthene	µg/Kg	400 U	370 U	380 U	360 U	360 UJ	360 UJ	400 UJ	400 UJ
2,4-Dinitrophenol	µg/Kg	960 U	910 U	920 U	880 U	870 UJ	870 UJ	980 UJ	980 UJ
4-Nitrophenol	µg/Kg	960 U	910 U	920 U	880 U	870 UJ	870 UJ	980 UJ	980 UJ
Dibenzofuran	µg/Kg	400 U	370 U	380 U	360 U	360 UJ	360 UJ	400 UJ	400 UJ
2,4-Dinitrotoluene	µg/Kg	400 U	370 U	380 U	360 U	360 UJ	360 UJ	400 UJ	400 UJ
Diethylphthalate	µg/Kg	400 U	370 U	380 U	360 U	360 UJ	380 UJ	400 UJ	400 UJ
4-Chlorophenyl-phenylether	µg/Kg	400 U	370 U	380 U	360 U	360 UJ	360 UJ	400 UJ	400 UJ
Fluorene	µg/Kg	400 U	370 U	380 U	360 U	360 UJ	360 UJ	400 UJ	400 UJ
4-Nitroaniline	µg/Kg	960 U	910 U	920 U	880 U	870 UJ	870 UJ	980 UJ	980 UJ
4,6-Dinitro-2-methylphenol	µg/Kg	960 U	910 U	920 U	880 U	870 UJ	870 UJ	980 UJ	980 UJ
N-Nitrosodiphenylamine	µg/Kg	400 U	370 U	380 U	360 U	360 UJ	360 UJ	400 UJ	400 UJ
4-Bromophenyl-phenylether	µg/Kg	400 U	370 U	380 U	360 U	360 UJ	360 UJ	400 UJ	400 UJ
Hexachlorobenzene	µg/Kg	400 U	370 U	380 U	360 U	360 UJ	360 UJ	400 UJ	400 UJ
Pentachlorophenol	µg/Kg	960 U	910 U	920 U	880 U	870 UJ	870 UJ	980 UJ	980 UJ
Phenanthrene	µg/Kg	200 J	370 U	380 U	360 U	96 J	91 J	31 J	28 J
Anthracene	µg/Kg	58 J	370 U	380 U	360 U	360 UJ	13 J	400 UJ	400 UJ
Carbazole	µg/Kg	400 U	370 U	380 U	360 U	360 UJ	360 UJ	400 UJ	400 UJ
Di-n-butylphthalate	µg/Kg	190 J	180 J	110 J	260 J	360 UJ	60 J	400 UJ	400 UJ
Fluoranthene	µg/Kg	530	370 U	380 U	33 J	110 J	110 J	17 J	400 UJ
Pyrene	µg/Kg	450	370 U	380 U	24 J	140 J	130 J	28 J	400 UJ
Butylbenzylphthalate	µg/Kg	400 U	370 U	380 U	360 U	360 UJ	360 UJ	400 UJ	400 UJ
3,3'-Dichlorobenzidine	µg/Kg	400 U	370 U	380 U	360 U	360 UJ	360 UJ	400 UJ	400 UJ
Benzo(a)anthracene	µg/Kg	260 J	370 U	380 U	360 U	38 J	51 J	400 UJ	400 UJ
Chrysene	µg/Kg	220 J	370 U	380 U	360 U	63 J	68 J	400 UJ	400 UJ
bis(2-Ethylhexyl)phthalate	µg/Kg	360 J	520	240 J	550	410 UJ	340 J	800 UJ	590 UJ
Di-n-octylphthalate	µg/Kg	400 U	370 U	380 U	23 J	360 UJ	360 UJ	400 UJ	400 UJ
Benzo(b)fluoranthene	µg/Kg	260 J	370 U	380 U	360 U	41 J	50 J	400 UJ	400 UJ
Benzo(k)fluoranthene	µg/Kg	200 J	370 U	380 U	360 U	40 J	47 J	400 UJ	400 UJ
Benzo(a)pyrene	µg/Kg	220 J	370 U	380 U	360 U	360 UJ	24 J	400 UJ	400 UJ
Indeno(1,2,3-cd)pyrene	µg/Kg	400 U	370 U	380 U	360 U	360 UJ	360 UJ	400 UJ	400 UJ
Dibenz(a,h)anthracene	µg/Kg	400 U	370 U	380 U	360 U	360 UJ	360 UJ	400 UJ	400 UJ
Benzo(g,h,i)perylene	µg/Kg	400 U	370 U	380 U	360 U	360 UJ	360 UJ	400 UJ	400 UJ

SENECA ARMY DEPOT, ASH LANDFILL
SOIL ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

COMPOUND	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	B-38	B-38	B-38	B-38	B-39	B-39	B-39	B-39
	DEPTH(FT.)	2-4	4-6	6-8	4-6	0-2	0-2	3-4	3-4
	DATE	04/28/93	04/28/93	04/28/93	04/28/93	12/15/92	12/15/92	12/15/92	12/15/92
	ES ID	B38-2	B38-3	B38-4	B38-5	B39-1	B39-1RE	B39-2	B39-2RE
	LAB ID	183186	183187	183188	183189	176445	176445R1	176446	176446R1
	UNITS				DUP B38-3				
VOCs									
Pesticides/PCBs									
alpha-BHC	µg/Kg	2 U	1.9 U	2 U	1.9 U	1.8 U	NS	2.1 U	NS
beta-BHC	µg/Kg	2 U	1.9 U	2 U	1.9 U	1.8 U	NS	2.1 U	NS
delta-BHC	µg/Kg	2 U	1.9 U	2 U	1.9 U	1.8 U	NS	2.1 U	NS
gamma-BHC (Lindane)	µg/Kg	2 U	1.9 U	2 U	1.9 U	1.8 U	NS	2.1 U	NS
Heptachlor	µg/Kg	2 U	1.9 U	2 U	1.9 U	1.8 U	NS	2.1 U	NS
Aldrin	µg/Kg	2 U	1.9 U	2 U	1.9 U	1.8 U	NS	2.1 U	NS
Heptachlor epoxide	µg/Kg	2 U	1.9 U	2 U	1.9 U	1.8 U	NS	2.1 U	NS
Endosulfan I	µg/Kg	1.9 J	1.9 U	2 U	1.9 U	1.8 U	NS	2.1 U	NS
Dieldrin	µg/Kg	4 U	3.7 U	3.8 U	3.6 U	3.6 U	NS	4.1 U	NS
4,4'-DDE	µg/Kg	3.2 J	3.7 U	3.8 U	3.6 U	6.9 J	NS	4.1 U	NS
Endrin	µg/Kg	4 U	3.7 U	3.8 U	3.6 U	3.6 U	NS	4.1 U	NS
Endosulfan II	µg/Kg	4 U	3.7 U	3.8 U	3.6 U	3.6 U	NS	4.1 U	NS
4,4'-DDD	µg/Kg	4 U	3.7 U	3.8 U	3.6 U	3.6 U	NS	4.1 U	NS
Endosulfan sulfate	µg/Kg	4 U	3.7 U	3.8 U	3.6 U	3.6 U	NS	4.1 U	NS
4,4'-DDT	µg/Kg	4 U	3.7 U	3.8 U	3.6 U	4.1 J	NS	4.1 U	NS
Methoxychlor	µg/Kg	20 U	19 U	20 U	19 U	18 U	NS	21 U	NS
Endrin ketone	µg/Kg	3.8 J	3.7 U	3.8 U	3.6 U	3.6 U	NS	4.1 U	NS
Endrin aldehyde	µg/Kg	4 U	3.7 U	3.8 U	3.6 U	3.6 U	NS	4.1 U	NS
alpha-Chlordane	µg/Kg	1.4 J	1.9 U	2 U	1.9 U	1.8 U	NS	2.1 U	NS
gamma-Chlordane	µg/Kg	2 U	1.9 U	2 U	1.9 U	1.8 U	NS	2.1 U	NS
Toxaphene	µg/Kg	200 U	190 U	200 U	190 U	180 U	NS	210 U	NS
Aroclor-1016	µg/Kg	40 U	37 U	38 U	36 U	36 U	NS	41 U	NS
Aroclor-1221	µg/Kg	81 U	76 U	78 U	74 U	73 U	NS	82 U	NS
Aroclor-1232	µg/Kg	40 U	37 U	38 U	36 U	36 U	NS	41 U	NS
Aroclor-1242	µg/Kg	40 U	37 U	38 U	36 U	36 U	NS	41 U	NS
Aroclor-1248	µg/Kg	40 U	37 U	38 U	36 U	36 U	NS	41 U	NS
Aroclor-1254	µg/Kg	40 U	37 U	38 U	36 U	36 U	NS	41 U	NS
Aroclor-1260	µg/Kg	40 U	37 U	38 U	36 U	36 U	NS	41 U	NS
Herbicides									
2,4-D	µg/Kg	61 U	57 U	58 U	57 U	54 U	NS	61 U	NS
2,4-DB	µg/Kg	61 U	57 U	58 U	57 U	54 U	NS	61 U	NS
2,4,5-T	µg/Kg	6.1 U	5.7 U	5.8 U	5.7 U	5.4 U	NS	6.1 U	NS
2,4,5-TP (Silvex)	µg/Kg	6.1 U	5.7 U	5.8 U	5.7 U	5.4 U	NS	6.1 U	NS
Dalapon	µg/Kg	150 U	140 U	140 U	140 U	130 U	NS	150 U	NS
Dicamba	µg/Kg	6.1 U	5.7 U	5.8 U	5.7 U	5.4 U	NS	6.1 U	NS
Dichloroprop	µg/Kg	61 U	57 U	58 U	57 U	54 U	NS	61 U	NS
Dinoseb	µg/Kg	31 U	29 U	29 U	29 U	27 U	NS	30 U	NS
MCPA	µg/Kg	6100 U	5700 U	5800 U	5700 U	5400 U	NS	6100 U	NS
MCPP	µg/Kg	6100 U	5700 U	5800 U	5700 U	5400 U	NS	6100 U	NS
Metals									
Aluminum	mg/Kg	13500	10600	14800	10500	7410	NS	11100	NS
Antimony	mg/Kg	5.3 UJ	5.5 UJ	6.3 UJ	4.4 UJ	6.4 UJ	NS	6.9 UJ	NS
Arsenic	mg/Kg	4.6	2.9	3.5	4.5	2.3	NS	4.4	NS
Barium	mg/Kg	105	47.5	51.7	48.4	88.8 J	NS	78.8 J	NS
Beryllium	mg/Kg	0.69 J	0.51 J	0.72 J	0.53 J	0.38 J	NS	0.57 J	NS
Cadmium	mg/Kg	0.39 U	4.4	0.47 U	0.32 U	0.63	NS	0.4 U	NS
Calcium	mg/Kg	53900	64500	11500	61900	139000	NS	124000	NS
Chromium	mg/Kg	25	17.8	24.6	17.3	17.4 J	NS	15.9 J	NS
Cobalt	mg/Kg	12.1	10.4	14.8	10.2	7	NS	6.9	NS
Copper	mg/Kg	31	24.5	15.6	27.5	38.4	NS	22.5	NS
Iron	mg/Kg	27600	22900	30000	21800	16900	NS	17700	NS
Lead	mg/Kg	55.9	59.1 J	6.2	8.2 J	165	NS	11	NS
Magnesium	mg/Kg	7270	8610	6290	9160	23400	NS	10300	NS
Manganese	mg/Kg	1040	488	855	454	436	NS	573	NS
Mercury	mg/Kg	0.04 U	0.02 U	0.04 U	0.03 U	0.1 R	NS	0.08 R	NS
Nickel	mg/Kg	36.9	30	39.8	30.4	24.8	NS	18.4	NS
Potassium	mg/Kg	1340	867 J	1130 J	1020	1400	NS	1320	NS
Selenium	mg/Kg	0.54 J	0.11 U	0.14 U	0.19 U	1.8	NS	1.6	NS
Silver	mg/Kg	0.83 U	0.86 U	1 U	0.7 U	0.38 U	NS	0.41 U	NS
Sodium	mg/Kg	257 J	226 J	119 U	245 J	225 J	NS	442 J	NS
Thallium	mg/Kg	0.49 U	0.34 U	0.42 U	0.58 U	1.6 U	NS	1.7 U	NS
Vanadium	mg/Kg	23.7	15.1	18.6	16.1	12.9	NS	18.4	NS
Zinc	mg/Kg	1110	88.5	64	104	3540	NS	88.2 J	NS
Cyanide	mg/Kg	0.72 U	0.66 U	0.69 U	0.55 U	1.4	NS	0.73 U	NS

SENECA ARMY DEPOT, ASH LANDFILL
SOIL ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	B-39	B-39	B-39	BK-1	BK-2	BK-2RE	B-40	B-40
	DEPTH(FT.)	4-6	4-6	6-6.5	0-2	0-2	0-2	0-2	2-3.4
	DATE	12/15/92	12/15/92	12/15/92	12/16/92	12/16/92	12/16/92	12/08/92	12/08/92
	ES ID	B39-3	B39-3RE	B39-4	BK-1	BK-2	BK-2RE	B40-1	B40-2
	LAB ID	176447	176447R1	176448	176440	176441	176441R1	175786	175787
COMPOUND	UNITS								
VOCs									
Chloromethane	µg/Kg	57 U	NS	12 U	14 U	13 U	NS	13 U	12 U
Bromomethane	µg/Kg	57 U	NS	12 U	14 U	13 U	NS	13 U	12 U
Vinyl Chloride	µg/Kg	160	NS	240 E	14 U	13 U	NS	13 U	12 U
Chloroethane	µg/Kg	57 U	NS	12 U	14 U	13 U	NS	13 U	12 U
Methylene Chloride	µg/Kg	57 U	NS	12 U	14 U	13 U	NS	13 U	12 U
Acetone	µg/Kg	57 U	NS	21 U	14 U	13 U	NS	13 U	12 U
Carbon Disulfide	µg/Kg	57 U	NS	12 U	14 U	13 U	NS	13 U	12 U
1,1-Dichloroethene	µg/Kg	130	NS	140	14 U	13 U	NS	13 U	12 U
1,1-Dichloroethane	µg/Kg	57 U	NS	12 U	14 U	13 U	NS	13 U	12 U
1,2-Dichloroethene (total)	µg/Kg	1600	NS	1700	13 U	13 U	NS	13 U	12 U
Chloroform	µg/Kg	57 U	NS	12 U	14 U	13 U	NS	13 U	12 U
1,2-Dichloroethane	µg/Kg	57 U	NS	12 U	14 U	13 U	NS	13 U	12 U
2-Butanone	µg/Kg	57 U	NS	12 U	14 U	13 U	NS	13 U	12 U
1,1,1-Trichloroethane	µg/Kg	57 U	NS	12 U	14 U	13 U	NS	13 U	12 U
Carbon Tetrachloride	µg/Kg	57 U	NS	12 U	14 U	13 U	NS	13 U	12 U
Vinyl acetate	µg/Kg	NS	NS	NS	NS	NS	NS	NS	NS
Bromodichloromethane	µg/Kg	57 U	NS	12 U	14 U	13 U	NS	13 U	12 U
1,2-Dichloropropane	µg/Kg	57 U	NS	12 U	14 U	13 U	NS	13 U	12 U
cis-1,3-Dichloropropene	µg/Kg	57 U	NS	12 U	14 U	13 U	NS	13 U	12 U
Trichloroethene	µg/Kg	1000	NS	2200 J	14 U	13 U	NS	13 U	12 U
Dibromochloromethane	µg/Kg	57 U	NS	12 U	14 U	13 U	NS	13 U	12 U
1,1,2-Trichloroethane	µg/Kg	57 U	NS	12 U	14 U	13 U	NS	13 U	12 U
Benzene	µg/Kg	57 U	NS	12 U	14 U	13 U	NS	13 U	12 U
trans-1,3-Dichloropropene	µg/Kg	57 U	NS	12 U	14 U	13 U	NS	13 U	12 U
Bromoform	µg/Kg	57 U	NS	12 U	14 U	13 U	NS	13 U	12 U
4-Methyl-2-Pentanone	µg/Kg	57 U	NS	12 U	14 U	13 U	NS	13 U	12 U
2-Hexanone	µg/Kg	57 U	NS	12 U	14 U	13 U	NS	13 U	12 U
Tetrachloroethene	µg/Kg	57 U	NS	12 U	14 U	13 U	NS	13 U	12 U
1,1,2,2-Tetrachloroethane	µg/Kg	57 U	NS	12 U	14 U	13 U	NS	13 U	12 U
Toluene	µg/Kg	57 U	NS	12 U	14 U	13 U	NS	13 U	12 U
Chlorobenzene	µg/Kg	57 U	NS	12 U	14 U	13 U	NS	13 U	12 U
Ethylbenzene	µg/Kg	57 U	NS	12 U	14 U	13 U	NS	13 U	12 U
Styrene	µg/Kg	57 U	NS	12 U	14 U	13 U	NS	13 U	12 U
Xylene (total)	µg/Kg	57 U	NS	5 J	14 U	13 U	NS	13 U	12 U

SENECA ARMY DEPOT, ASH LANDFILL
SOIL ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	B-39	B-39	B-39	BK-1	BK-2	BK-2RE	B-40	B-40
	DEPTH(FT.)	4-6	4-6	6-6.5	0-2	0-2	0-2	0-2	2-3.4
	DATE	12/15/92	12/15/92	12/15/92	12/16/92	12/16/92	12/16/92	12/08/92	12/08/92
	ES ID	B39-3	B39-3RE	B39-4	BK-1	BK-2	BK-2RE	B40-1	B40-2
	LAB ID	176447	176447R1	176448	176440	176441	176441R1	175786	175787
COMPOUND	UNITS								
VOCs									
Semivolatiles									
Phenol	µg/Kg	390 U	390 U	370 U	420 U	430 UJ	430 UJ	390 U	400 U
bis(2-Chloroethyl) ether	µg/Kg	390 U	390 U	370 U	420 U	430 UJ	430 UJ	390 U	400 U
2-Chlorophenol	µg/Kg	390 U	390 U	370 U	420 U	430 UJ	430 UJ	390 U	400 U
1,3-Dichlorobenzene	µg/Kg	390 U	390 U	370 U	420 U	430 UJ	430 UJ	390 U	400 U
1,4-Dichlorobenzene	µg/Kg	390 U	390 U	370 U	420 U	430 UJ	430 UJ	390 U	400 U
Benzyl alcohol	µg/Kg	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dichlorobenzene	µg/Kg	390 U	390 U	370 U	420 U	430 UJ	430 UJ	390 U	400 U
2-Methylphenol	µg/Kg	390 U	390 U	370 U	420 U	430 UJ	430 UJ	390 U	400 U
2,2'-oxybis(1-Chloropropane)	µg/Kg	390 U	390 U	370 U	420 U	430 UJ	430 UJ	390 U	400 U
4-Methylphenol	µg/Kg	390 U	390 U	370 U	420 U	430 UJ	430 UJ	390 U	400 U
N-Nitroso-di-n-propylamine	µg/Kg	390 U	390 U	370 U	420 U	430 UJ	430 UJ	390 U	400 U
Hexachloroethane	µg/Kg	390 U	390 U	370 U	420 U	430 UJ	430 UJ	390 U	400 U
Nitrobenzene	µg/Kg	390 U	390 U	370 U	420 U	430 UJ	430 UJ	390 U	400 U
Isophorone	µg/Kg	390 U	390 U	370 U	420 U	430 UJ	430 UJ	390 U	400 U
2-Nitrophenol	µg/Kg	390 U	390 U	370 U	420 U	430 UJ	430 UJ	390 U	400 U
2,4-Dimethylphenol	µg/Kg	390 U	390 U	370 U	420 U	430 UJ	430 UJ	390 U	400 U
Benzoic acid	µg/Kg	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroethoxy) methane	µg/Kg	390 U	390 U	370 U	420 U	430 UJ	430 UJ	390 U	400 U
2,4-Dichlorophenol	µg/Kg	390 U	390 U	370 U	420 U	430 UJ	430 UJ	390 U	400 U
1,2,4-Trichlorobenzene	µg/Kg	390 U	390 U	370 U	420 U	430 UJ	430 UJ	390 U	400 U
Naphthalene	µg/Kg	390 U	390 U	370 U	420 U	430 UJ	430 UJ	390 U	400 U
4-Chloroaniline	µg/Kg	390 U	390 U	370 U	420 U	430 UJ	430 UJ	390 U	400 U
Hexachlorobutadiene	µg/Kg	390 U	390 U	370 U	420 U	430 UJ	430 UJ	390 U	400 U
4-Chloro-3-methylphenol	µg/Kg	390 U	370 U	420 U	430 U	430 UJ	430 UJ	390 U	400 U
2-Methylnaphthalene	µg/Kg	390 U	390 U	370 U	420 U	430 UJ	430 UJ	390 U	400 U
Hexachlorocyclopentadiene	µg/Kg	390 U	390 U	370 U	420 U	430 UJ	430 UJ	390 U	400 U
2,4,6-Trichlorophenol	µg/Kg	390 U	390 U	370 U	420 U	430 UJ	430 UJ	390 U	400 U
2,4,5-Trichlorophenol	µg/Kg	940 U	940 U	900 U	1000 U	1000 UJ	1000 UJ	950 U	960 U
2-Chloronaphthalene	µg/Kg	390 U	390 U	370 U	420 U	430 UJ	430 UJ	390 U	400 U
2-Nitroaniline	µg/Kg	940 U	940 U	900 U	1000 U	1000 UJ	1000 UJ	950 U	960 U
Dimethylphthalate	µg/Kg	390 U	390 U	370 U	420 U	430 UJ	430 UJ	390 U	400 U
Acenaphthylene	µg/Kg	390 U	390 U	370 U	420 U	430 UJ	430 UJ	13 J	400 U
2,6-Dinitrotoluene	µg/Kg	390 U	390 U	370 U	420 U	430 UJ	430 UJ	390 U	400 U
3-Nitroaniline	µg/Kg	940 U	940 U	900 U	1000 U	1000 UJ	1000 UJ	950 U	960 U
Acenaphthene	µg/Kg	390 U	390 U	370 U	420 U	430 UJ	430 UJ	390 U	400 U
2,4-Dinitrophenol	µg/Kg	940 U	940 U	900 U	1000 U	1000 UJ	1000 UJ	950 U	960 U
4-Nitrophenol	µg/Kg	940 U	940 U	900 U	1000 U	1000 UJ	1000 UJ	950 U	960 U
Dibenzofuran	µg/Kg	390 U	390 U	370 U	420 U	430 UJ	430 UJ	390 U	400 U
2,4-Dinitrotoluene	µg/Kg	390 U	390 U	370 U	420 U	430 UJ	430 UJ	390 U	400 U
Diethylphthalate	µg/Kg	390 U	390 U	370 U	420 U	430 UJ	430 UJ	390 U	400 U
4-Chlorophenyl-phenylether	µg/Kg	390 U	390 U	370 U	420 U	430 UJ	430 UJ	390 U	400 U
Fluorene	µg/Kg	390 U	390 U	370 U	420 U	430 UJ	430 UJ	390 U	400 U
4-Nitroaniline	µg/Kg	940 U	940 U	900 U	1000 U	1000 UJ	1000 UJ	950 U	960 U
4,6-Dinitro-2-methylphenol	µg/Kg	940 U	940 U	900 U	1000 U	1000 UJ	1000 UJ	950 U	960 U
N-Nitrosodiphenylamine	µg/Kg	390 U	390 U	370 U	420 U	430 UJ	430 UJ	390 U	400 U
4-Bromophenyl-phenylether	µg/Kg	390 U	390 U	370 U	420 U	430 UJ	430 UJ	390 U	400 U
Hexachlorobenzene	µg/Kg	390 U	390 U	370 U	420 U	430 UJ	430 UJ	390 U	400 U
Pentachlorophenol	µg/Kg	940 U	940 U	900 U	1000 U	1000 UJ	1000 UJ	950 U	960 U
Phenanthrene	µg/Kg	390 U	390 U	370 U	420 U	29 J	130 J	53 J	16 J
Anthracene	µg/Kg	390 U	390 U	370 U	420 U	430 UJ	31 J	15 J	400 U
Carbazole	µg/Kg	390 U	390 U	370 U	420 U	430 UJ	37 J	390 U	400 U
Di-n-butylphthalate	µg/Kg	390 U	390 U	370 U	420 U	430 UJ	430 UJ	160 J	240 J
Fluoranthene	µg/Kg	390 U	390 U	370 U	23 J	47 J	190 J	92 J	26 J
Pyrene	µg/Kg	390 U	390 U	370 U	21 J	41 J	140 J	110 J	24 J
Butylbenzylphthalate	µg/Kg	390 U	390 U	370 U	420 U	430 UJ	430 UJ	390 U	400 U
3,3'-Dichlorobenzidine	µg/Kg	390 U	390 U	370 U	420 U	430 UJ	430 UJ	390 U	400 U
Benzo(a)anthracene	µg/Kg	390 U	390 U	370 U	420 U	21 J	77 J	46 J	400 U
Chrysene	µg/Kg	390 U	390 U	370 U	420 U	28 J	80 J	74 J	400 U
bis(2-Ethylhexyl)phthalate	µg/Kg	1500	1300	540 U	670 U	430 UJ	280 J	600	320 J
Di-n-octylphthalate	µg/Kg	390 U	390 U	370 U	420 U	430 UJ	430 J	390 U	400 U
Benzo(b)fluoranthene	µg/Kg	390 U	390 U	370 U	420 U	20 J	66 J	62 J	400 U
Benzo(k)fluoranthene	µg/Kg	390 U	390 U	370 U	420 U	20 J	70 J	65 J	400 U
Benzo(a)pyrene	µg/Kg	390 U	390 U	370 U	420 U	430 UJ	48 J	48 J	400 U
Indeno(1,2,3-cd)pyrene	µg/Kg	390 U	390 U	370 U	420 U	430 UJ	34 J	36 J	400 U
Dibenz(a,h)anthracene	µg/Kg	390 U	390 U	370 U	420 U	430 UJ	430 UJ	390 U	400 U
Benzo(g,h,i)perylene	µg/Kg	390 U	390 U	370 U	420 U	430 UJ	430 UJ	37 J	400 U

SENECA ARMY DEPOT, ASH LANDFILL
SOIL ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	B-39	B-39	B-39	BK-1	BK-2	BK-2RE	B-40	B-40
	DEPTH(FT.)	4-6	4-6	6-6.5	0-2	0-2	0-2	0-2	2-3.4
	DATE	12/15/92	12/15/92	12/15/92	12/16/92	12/16/92	12/16/92	12/08/92	12/08/92
	ES ID	B39-3	B39-3RE	B39-4	BK-1	BK-2	BK-2RE	B40-1	B40-2
	LAB ID	176447	176447R1	176448	176440	176441	176441R1	175786	175787
COMPOUND	UNITS								
VOCs									
Pesticides/PCBs									
alpha-BHC	µg/Kg	2 U	NS	1.9 U	2.2 U	2.2 U	NS	2 U	2 U
beta-BHC	µg/Kg	2 U	NS	1.9 U	2.2 U	2.2 U	NS	2 U	2 U
delta-BHC	µg/Kg	2 U	NS	1.9 U	2.2 U	2.2 U	NS	2 U	2 U
gamma-BHC (Lindane)	µg/Kg	2 U	NS	1.9 U	2.2 U	2.2 U	NS	2 U	2 U
Heptachlor	µg/Kg	2 U	NS	1.9 U	2.2 U	2.2 U	NS	2 U	2 U
Aldrin	µg/Kg	2 U	NS	1.9 U	2.2 U	2.2 U	NS	2 U	2 U
Heptachlor epoxide	µg/Kg	2 U	NS	1.9 U	2.2 U	2.2 U	NS	2 U	2 U
Endosulfan I	µg/Kg	2 U	NS	1.9 U	2.2 U	2.2 U	NS	2 U	2 U
Dieldrin	µg/Kg	3.9 U	NS	3.7 U	4.3 U	4.3 U	NS	3.9 U	3.9 U
4,4'-DDE	µg/Kg	3.9 U	NS	3.7 U	4.3 U	2.2 J	NS	3.9 U	3.9 U
Endrin	µg/Kg	3.9 U	NS	3.7 U	4.3 U	4.3 U	NS	3.9 U	3.9 U
Endosulfan II	µg/Kg	3.9 U	NS	3.7 U	4.3 U	4.3 U	NS	3.9 U	3.9 U
4,4'-DDD	µg/Kg	3.9 U	NS	3.7 U	4.3 U	4.3 U	NS	3.9 U	3.9 U
Endosulfan sulfate	µg/Kg	3.9 U	NS	3.7 U	4.3 U	4.3 U	NS	3.9 U	3.9 U
4,4'-DDT	µg/Kg	3.9 U	NS	3.7 U	4.3 U	4.3 U	NS	3.9 U	3.9 U
Methoxychlor	µg/Kg	20 U	NS	19 U	22 U	22 U	NS	20 U	20 U
Endrin ketone	µg/Kg	3.9 U	NS	3.7 U	4.3 U	4.3 U	NS	3.9 U	3.9 U
Endrin aldehyde	µg/Kg	3.9 U	NS	3.7 U	4.3 U	4.3 U	NS	3.9 U	3.9 U
alpha-Chlordane	µg/Kg	2 U	NS	1.9 U	2.2 U	1.3 J	NS	2 U	2 U
gamma-Chlordane	µg/Kg	2 U	NS	1.9 U	2.2 U	2.2 U	NS	2 U	2 U
Toxaphene	µg/Kg	200 U	NS	190 U	220 U	220 U	NS	200 U	200 U
Aroclor-1016	µg/Kg	39 U	NS	37 U	43 U	43 U	NS	39 U	39 U
Aroclor-1221	µg/Kg	79 U	NS	76 U	88 U	88 U	NS	79 U	79 U
Aroclor-1232	µg/Kg	39 U	NS	37 U	43 U	43 U	NS	39 U	39 U
Aroclor-1242	µg/Kg	39 U	NS	37 U	43 U	43 U	NS	39 U	39 U
Aroclor-1248	µg/Kg	39 U	NS	37 U	43 U	43 U	NS	39 U	39 U
Aroclor-1254	µg/Kg	39 U	NS	37 U	43 U	43 U	NS	39 U	39 U
Aroclor-1260	µg/Kg	39 U	NS	37 U	43 U	43 U	NS	39 U	39 U
Herbicides									
2,4-D	µg/Kg	58 U	NS	57 U	64 U	65 U	NS	59 U	60 U
2,4-DB	µg/Kg	58 U	NS	57 U	64 U	65 U	NS	59 U	60 U
2,4,5-T	µg/Kg	5.8 U	NS	5.7 U	6.4 U	6.5 U	NS	5.9 U	6 U
2,4,5-TP (Silvex)	µg/Kg	5.8 U	NS	5.7 U	6.4 U	6.5 U	NS	5.9 U	6 U
Dalapon	µg/Kg	140 U	NS	140 U	150 U	160 U	NS	140 U	144 U
Dicamba	µg/Kg	5.8 U	NS	5.7 U	6.4 U	6.5 U	NS	5.9 U	6 U
Dichloroprop	µg/Kg	58 U	NS	57 U	64 U	65 U	NS	59 U	60 U
Dinoseb	µg/Kg	29 U	NS	28 U	32 U	33 U	NS	30 U	30 U
MCPA	µg/Kg	5800 U	NS	5700 U	6400 U	6500 U	NS	5900 U	6000 U
MCPP	µg/Kg	5800 U	NS	5700 U	6400 U	6500 U	NS	5900 U	6000 U
Metals									
Aluminum	mg/Kg	11000	NS	10800	19400	14400	NS	16900	14900
Antimony	mg/Kg	6.5 UJ	NS	7.8 UJ	7.9 U	7.2 U	NS	9.9 UJ	10.5 UJ
Arsenic	mg/Kg	2.2	NS	3.4	3	2.7	NS	4.6	5
Barium	mg/Kg	54.1 J	NS	59 J	159	106	NS	73.1	70.3
Beryllium	mg/Kg	0.47 J	NS	0.45 J	1.1	0.81	NS	0.7 J	0.69 J
Cadmium	mg/Kg	0.37 U	NS	0.45 U	0.45 U	0.41 U	NS	0.57 U	0.6 U
Calcium	mg/Kg	102000	NS	54700	4590	22500	NS	3500	56900
Chromium	mg/Kg	16.6 J	NS	17.9 J	30	22.3	NS	27	24.2
Cobalt	mg/Kg	9.2	NS	10.2	14.4	12.3	NS	11.6	12.8
Copper	mg/Kg	20.9	NS	23.2	26.9	18.8	NS	16.9	25.4
Iron	mg/Kg	20600	NS	21100	38600	26600	NS	32700	29200
Lead	mg/Kg	19	NS	17	15.8	18.9	NS	17.3	12.1
Magnesium	mg/Kg	8430	NS	17500	5980	7910	NS	5570	8890
Manganese	mg/Kg	488	NS	758	2380	800	NS	723	623
Mercury	mg/Kg	0.08 R	NS	0.08 R	0.13 J	0.11	NS	0.09 J	0.03 J
Nickel	mg/Kg	27.4	NS	27.2	47.7	31	NS	32.9	38.8
Potassium	mg/Kg	1140	NS	1200	1720	1210	NS	1060	1420
Selenium	mg/Kg	0.26 J	NS	0.5 J	0.73 J	0.94	NS	0.45 J	0.56 J
Silver	mg/Kg	0.38 U	NS	0.46 U	0.47 U	0.43 U	NS	0.59 U	0.62 U
Sodium	mg/Kg	407 J	NS	342 J	49.1 J	61.1 J	NS	54.8 U	110 J
Thallium	mg/Kg	1.7 U	NS	0.34 U	0.42 U	0.38 U	NS	0.5 U	0.4 U
Vanadium	mg/Kg	15.9	NS	17.2	28	22.4	NS	24.3	21.4
Zinc	mg/Kg	106 J	NS	434	98.6	63.7	NS	83.1	99.8
Cyanide	mg/Kg	0.68 U	NS	0.65 U	0.57 U	0.61 U	NS	0.57 U	0.58 U

SENECA ARMY DEPOT, ASH LANDFILL
SOIL ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	B-40	B-40	B-41	B-41	B-41	B-41	B-41	B-41
	DEPTH(FT.)	6-8	8-10	0-2	0-2	2-4	2-4	5.5-6.5	5.5-6.5
	DATE	12/08/92	12/08/92	12/08/92	12/08/92	12/08/92	12/08/92	12/08/92	12/08/92
	ES ID	B40-4	B40-5	B41-1	B41-1RE	B41-2	B41-2RE	B41-3	B41-3RE
	LAB ID	175789	175790	176001	176001R1	176002	176002R1	176003	176003R1
COMPOUND	UNITS								
VOCs									
Chloromethane	µg/Kg	11 U	12 U	11 U	NS	12 U	NS	11 U	NS
Bromomethane	µg/Kg	11 U	12 U	11 U	NS	12 U	NS	11 U	NS
Vinyl Chloride	µg/Kg	11 U	12 U	11 U	NS	12 U	NS	11 U	NS
Chloroethane	µg/Kg	11 U	12 U	11 U	NS	12 U	NS	11 U	NS
Methylene Chloride	µg/Kg	11 U	12 U	11 U	NS	12 U	NS	11 U	NS
Acetone	µg/Kg	11 U	12 U	11 U	NS	12 U	NS	11 U	NS
Carbon Disulfide	µg/Kg	11 U	12 U	11 U	NS	12 U	NS	11 U	NS
1,1-Dichloroethene	µg/Kg	11 U	12 U	11 U	NS	12 U	NS	11 U	NS
1,1-Dichloroethane	µg/Kg	11 U	12 U	11 U	NS	12 U	NS	11 U	NS
1,2-Dichloroethene (total)	µg/Kg	11 U	12 U	11 U	NS	12 U	NS	11 U	NS
Chloroform	µg/Kg	11 U	12 U	11 U	NS	12 U	NS	11 U	NS
1,2-Dichloroethane	µg/Kg	11 U	12 U	11 U	NS	12 U	NS	11 U	NS
2-Butanone	µg/Kg	11 U	12 U	11 U	NS	12 U	NS	11 U	NS
1,1,1-Trichloroethane	µg/Kg	11 U	12 U	11 U	NS	12 U	NS	11 U	NS
Carbon Tetrachloride	µg/Kg	11 U	12 U	11 U	NS	12 U	NS	11 U	NS
Vinyl acetate	µg/Kg	NS	NS	NS	NS	NS	NS	NS	NS
Bromodichloromethane	µg/Kg	11 U	12 U	11 U	NS	12 U	NS	11 U	NS
1,2-Dichloropropane	µg/Kg	11 U	12 U	11 U	NS	12 U	NS	11 U	NS
cis-1,3-Dichloropropene	µg/Kg	11 U	12 U	11 U	NS	12 U	NS	11 U	NS
Trichloroethene	µg/Kg	11 U	12 U	11 U	NS	12 U	NS	11 U	NS
Dibromochloromethane	µg/Kg	11 U	12 U	11 U	NS	12 U	NS	11 U	NS
1,1,2-Trichloroethane	µg/Kg	11 U	12 U	11 U	NS	12 U	NS	11 U	NS
Benzene	µg/Kg	11 U	12 U	11 U	NS	12 U	NS	11 U	NS
trans-1,3-Dichloropropene	µg/Kg	11 U	12 U	11 U	NS	12 U	NS	11 U	NS
Bromoform	µg/Kg	11 U	12 U	11 U	NS	12 U	NS	11 U	NS
4-Methyl-2-Pentanone	µg/Kg	11 U	12 U	11 U	NS	12 U	NS	11 U	NS
2-Hexanone	µg/Kg	11 U	12 U	11 J	NS	12 U	NS	11 U	NS
Tetrachloroethene	µg/Kg	11 U	12 U	11 U	NS	12 U	NS	11 U	NS
1,1,2,2-Tetrachloroethane	µg/Kg	11 U	12 U	11 U	NS	12 U	NS	11 U	NS
Toluene	µg/Kg	11 U	12 U	11 U	NS	12 U	NS	11 U	NS
Chlorobenzene	µg/Kg	11 U	12 U	11 U	NS	12 U	NS	11 U	NS
Ethylbenzene	µg/Kg	11 U	12 U	11 U	NS	12 U	NS	11 U	NS
Styrene	µg/Kg	11 U	12 U	11 U	NS	12 U	NS	11 U	NS
Xylene (total)	µg/Kg	11 U	12 U	11 U	NS	12 U	NS	11 U	NS

SENECA ARMY DEPOT, ASH LANDFILL
SOIL ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	B-40	B-40	B-41	B-41	B-41	B-41	B-41	B-41
	DEPTH(FT.)	6-8	8-10	0-2	0-2	2-4	2-4	5.5-6.5	5.5-6.5
	DATE	12/08/92	12/08/92	12/08/92	12/08/92	12/08/92	12/08/92	12/08/92	12/08/92
	ES ID	B40-4	B40-5	B41-1	B41-1RE	B41-2	B41-2RE	B41-3	B41-3RE
	LAB ID	175789	175790	176001	176001R1	176002	176002R1	176003	176003R1
COMPOUND	UNITS								
VOCs									
Semivolatiles									
Phenol	µg/Kg	360 U	380 U	380 UJ	380 UJ	400 UJ	400 UJ	390 UJ	400 UJ
bis(2-Chloroethyl) ether	µg/Kg	360 U	380 U	380 UJ	380 UJ	400 UJ	400 UJ	390 UJ	400 UJ
2-Chlorophenol	µg/Kg	360 U	380 U	380 UJ	380 UJ	400 UJ	400 UJ	390 UJ	400 UJ
1,3-Dichlorobenzene	µg/Kg	360 U	380 U	380 UJ	380 UJ	400 UJ	400 UJ	390 UJ	400 UJ
1,4-Dichlorobenzene	µg/Kg	360 U	380 U	380 UJ	380 UJ	400 UJ	400 UJ	390 UJ	400 UJ
Benzyl alcohol	µg/Kg	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dichlorobenzene	µg/Kg	360 U	380 U	380 UJ	380 UJ	400 UJ	400 UJ	390 UJ	400 UJ
2-Methylphenol	µg/Kg	360 U	380 U	380 UJ	380 UJ	400 UJ	400 UJ	390 UJ	400 UJ
2,2'-oxybis(1-Chloropropane)	µg/Kg	360 U	380 U	380 UJ	380 UJ	400 UJ	400 UJ	390 UJ	400 UJ
4-Methylphenol	µg/Kg	360 U	380 U	380 UJ	380 UJ	400 UJ	400 UJ	390 UJ	400 UJ
N-Nitroso-di-n-propylamine	µg/Kg	360 U	380 U	380 UJ	380 UJ	400 UJ	400 UJ	390 UJ	400 UJ
Hexachloroethane	µg/Kg	360 U	380 U	380 UJ	380 UJ	400 UJ	400 UJ	390 UJ	400 UJ
Nitrobenzene	µg/Kg	360 U	380 U	380 UJ	380 UJ	400 UJ	400 UJ	390 UJ	400 UJ
Isophorone	µg/Kg	360 U	380 U	380 UJ	380 UJ	400 UJ	400 UJ	390 UJ	400 UJ
2-Nitrophenol	µg/Kg	360 U	380 U	380 UJ	380 UJ	400 UJ	400 UJ	390 UJ	400 UJ
2,4-Dimethylphenol	µg/Kg	360 U	380 U	380 UJ	380 UJ	400 UJ	400 UJ	390 UJ	400 UJ
Benzoic acid	µg/Kg	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroethoxy) methane	µg/Kg	360 U	380 U	380 UJ	380 UJ	400 UJ	400 UJ	390 UJ	400 UJ
2,4-Dichlorophenol	µg/Kg	360 U	380 U	380 UJ	380 UJ	400 UJ	400 UJ	390 UJ	400 UJ
1,2,4-Trichlorobenzene	µg/Kg	360 U	380 U	380 UJ	380 UJ	400 UJ	400 UJ	390 UJ	400 UJ
Naphthalene	µg/Kg	360 U	380 U	380 UJ	39 J	400 UJ	400 UJ	390 UJ	400 UJ
4-Chloroaniline	µg/Kg	360 U	380 U	380 UJ	380 UJ	400 UJ	400 UJ	390 UJ	400 UJ
Hexachlorobutadiene	µg/Kg	360 U	380 U	380 UJ	380 UJ	400 UJ	400 UJ	390 UJ	400 UJ
4-Chloro-3-methylphenol	µg/Kg	360 U	380 U	380 UJ	380 UJ	400 UJ	400 UJ	390 UJ	400 UJ
2-Methylnaphthalene	µg/Kg	360 U	380 U	380 UJ	21 J	400 UJ	400 UJ	390 UJ	400 UJ
Hexachlorocyclopentadiene	µg/Kg	360 U	380 U	380 UJ	380 UJ	400 UJ	400 UJ	390 UJ	400 UJ
2,4,6-Trichlorophenol	µg/Kg	360 U	380 U	380 UJ	380 UJ	400 UJ	400 UJ	390 UJ	400 UJ
2,4,5-Trichlorophenol	µg/Kg	890 U	930 U	910 UJ	920 UJ	960 UJ	960 UJ	950 UJ	960 UJ
2-Chloronaphthalene	µg/Kg	360 U	380 U	380 UJ	380 UJ	400 UJ	400 UJ	390 UJ	400 UJ
2-Nitroaniline	µg/Kg	890 U	930 U	910 UJ	920 UJ	960 UJ	960 UJ	950 UJ	960 UJ
Dimethylphthalate	µg/Kg	360 U	380 U	380 UJ	380 UJ	400 UJ	400 UJ	390 UJ	400 UJ
Acenaphthylene	µg/Kg	360 U	380 U	380 UJ	61 J	400 UJ	400 UJ	390 UJ	400 UJ
2,6-Dinitrotoluene	µg/Kg	360 U	380 U	380 UJ	380 UJ	400 UJ	400 UJ	390 UJ	400 UJ
3-Nitroaniline	µg/Kg	890 U	930 U	910 UJ	920 UJ	960 UJ	960 UJ	950 UJ	960 UJ
Acenaphthene	µg/Kg	360 U	380 U	380 UJ	72 J	400 UJ	400 UJ	390 UJ	400 UJ
2,4-Dinitrophenol	µg/Kg	890 U	930 U	910 UJ	920 UJ	960 UJ	960 UJ	950 UJ	960 UJ
4-Nitrophenol	µg/Kg	930 U	910 U	920 UJ	960 UJ	960 UJ	950 UJ	960 UJ	860 UJ
Dibenzofuran	µg/Kg	360 U	380 U	380 UJ	28 J	400 UJ	400 UJ	390 UJ	400 UJ
2,4-Dinitrotoluene	µg/Kg	360 U	380 U	380 UJ	380 UJ	400 UJ	400 UJ	390 UJ	400 UJ
Diethylphthalate	µg/Kg	360 U	380 U	380 UJ	380 UJ	400 UJ	400 UJ	390 UJ	400 UJ
4-Chlorophenyl-phenylether	µg/Kg	360 U	380 U	380 UJ	380 UJ	400 UJ	400 UJ	390 UJ	400 UJ
Fluorene	µg/Kg	360 U	380 U	380 UJ	54 J	400 UJ	400 UJ	390 UJ	400 UJ
4-Nitroaniline	µg/Kg	890 U	930 U	910 UJ	920 UJ	960 UJ	960 UJ	950 UJ	960 UJ
4,6-Dinitro-2-methylphenol	µg/Kg	890 U	930 U	910 UJ	920 UJ	960 UJ	960 UJ	950 UJ	960 UJ
N-Nitrosodiphenylamine	µg/Kg	360 U	380 U	380 UJ	380 UJ	400 UJ	400 UJ	390 UJ	400 UJ
4-Bromophenyl-phenylether	µg/Kg	360 U	380 U	380 UJ	380 UJ	400 UJ	400 UJ	390 UJ	400 UJ
Hexachlorobenzene	µg/Kg	360 U	380 U	380 UJ	380 UJ	400 UJ	400 UJ	390 UJ	400 UJ
Pentachlorophenol	µg/Kg	890 U	930 U	910 UJ	920 UJ	960 UJ	960 UJ	950 UJ	960 UJ
Phenanthrene	µg/Kg	360 U	380 U	130 J	760 J	40 J	60 J	390 UJ	16 J
Anthracene	µg/Kg	360 U	380 U	17 J	150 J	400 UJ	400 UJ	390 UJ	400 UJ
Carbazole	µg/Kg	360 U	380 U	110 J	490 J	400 UJ	400 UJ	390 UJ	400 UJ
Di-n-butylphthalate	µg/Kg	360 J	380 U	380 UJ	380 UJ	400 UJ	400 UJ	390 UJ	400 UJ
Fluoranthene	µg/Kg	360 U	380 U	280 J	1300 J	76 J	120 J	390 UJ	30 J
Pyrene	µg/Kg	360 U	380 U	220 J	1300 J	63 J	94 J	390 UJ	400 UJ
Butylbenzylphthalate	µg/Kg	360 U	380 U	380 UJ	380 UJ	400 UJ	400 UJ	390 UJ	400 UJ
3,3'-Dichlorobenzidine	µg/Kg	360 U	380 U	380 UJ	380 UJ	400 UJ	400 UJ	390 UJ	400 UJ
Benzo(a)anthracene	µg/Kg	360 U	380 U	93 J	590 J	27 J	45 J	390 UJ	400 UJ
Chrysene	µg/Kg	360 U	380 U	150 J	850 J	45 J	65 J	390 UJ	18 J
bis(2-Ethylhexyl)phthalate	µg/Kg	280 J	380 U	380 UJ	380 UJ	400 UJ	400 UJ	690 J	1100 J
Di-n-octylphthalate	µg/Kg	360 U	380 U	380 UJ	380 UJ	400 UJ	400 UJ	390 UJ	400 UJ
Benzo(b)fluoranthene	µg/Kg	360 U	380 U	160 J	1100 J	43 J	63 J	390 UJ	400 UJ
Benzo(k)fluoranthene	µg/Kg	360 U	380 U	150 J	670 J	45 J	65 J	390 UJ	400 UJ
Benzo(a)pyrene	µg/Kg	360 U	380 U	48 J	650 J	15 J	46 J	390 UJ	400 UJ
Indeno(1,2,3-cd)pyrene	µg/Kg	360 U	380 U	93 J	290 J	30 J	45 J	390 UJ	400 UJ
Dibenz(a,h)anthracene	µg/Kg	360 U	380 U	380 UJ	120 J	400 UJ	400 UJ	390 UJ	400 UJ
Benzo(g,h,i)perylene	µg/Kg	360 U	380 U	74 J	280 J	26 J	400 UJ	390 UJ	400 UJ

SENECA ARMY DEPOT, ASH LANDFILL
SOIL ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	B-40	B-40	B-41	B-41	B-41	B-41	B-41	B-41
	DEPTH(FT.)	6-8	8-10	0-2	0-2	2-4	2-4	5.5-6.5	5.5-6.5
	DATE	12/08/92	12/08/92	12/08/92	12/08/92	12/08/92	12/08/92	12/08/92	12/08/92
	ES ID	B40-4	B40-5	B41-1	B41-1RE	B41-2	B41-2RE	B41-3	B41-3RE
	LAB ID	175789	175790	176001	176001R1	176002	176002R1	176003	176003R1
COMPOUND	UNITS								
VOCs									
Pesticides/PCBs									
alpha-BHC	µg/Kg	1.9 U	2 U	19 U	NS	20 U	NS	10 U	NS
beta-BHC	µg/Kg	1.9 U	2 U	19 U	NS	20 U	NS	10 U	NS
delta-BHC	µg/Kg	1.9 U	2 U	19 U	NS	20 U	NS	10 U	NS
gamma-BHC (Lindane)	µg/Kg	1.9 U	2 U	19 U	NS	20 U	NS	10 U	NS
Heptachlor	µg/Kg	1.9 U	2 U	19 U	NS	20 U	NS	10 U	NS
Aldrin	µg/Kg	1.9 U	2 U	19 U	NS	20 U	NS	10 U	NS
Heptachlor epoxide	µg/Kg	1.9 U	2 U	19 U	NS	20 U	NS	10 U	NS
Endosulfan I	µg/Kg	1.9 U	2 U	19 U	NS	20 U	NS	10 U	NS
Dieldrin	µg/Kg	3.7 U	3.8 U	37 U	NS	39 U	NS	20 U	NS
4,4'-DDE	µg/Kg	3.7 U	3.8 U	91 J	NS	66	NS	74	NS
Endrin	µg/Kg	3.7 U	3.8 U	37 U	NS	39 U	NS	20 U	NS
Endosulfan II	µg/Kg	3.7 U	3.8 U	37 U	NS	39 U	NS	20 U	NS
4,4'-DDD	µg/Kg	3.7 U	3.8 U	260 J	NS	350	NS	170	NS
Endosulfan sulfate	µg/Kg	3.7 U	3.8 U	37 U	NS	39 U	NS	20 U	NS
4,4'-DDT	µg/Kg	3.7 U	3.8 U	39 J	NS	27 J	NS	29	NS
Methoxychlor	µg/Kg	19 U	20 U	190 U	NS	200 U	NS	100 U	NS
Endrin ketone	µg/Kg	3.7 U	3.8 U	37 U	NS	39 U	NS	20 U	NS
Endrin aldehyde	µg/Kg	3.7 U	3.8 U	37 U	NS	39 U	NS	20 U	NS
alpha-Chlordane	µg/Kg	1.9 U	2 U	12 J	NS	9.7 J	NS	14 J	NS
gamma-Chlordane	µg/Kg	1.9 U	2 U	11 J	NS	11 J	NS	15	NS
Toxaphene	µg/Kg	190 U	200 U	1900 U	NS	2000 U	NS	1000 U	NS
Aroclor-1016	µg/Kg	37 U	38 U	370 U	NS	390 U	NS	200 U	NS
Aroclor-1221	µg/Kg	74 U	78 U	760 U	NS	790 U	NS	400 U	NS
Aroclor-1232	µg/Kg	37 U	38 U	370 U	NS	390 U	NS	200 U	NS
Aroclor-1242	µg/Kg	37 U	38 U	370 U	NS	390 U	NS	200 U	NS
Aroclor-1248	µg/Kg	37 U	38 U	370 U	NS	390 U	NS	200 U	NS
Aroclor-1254	µg/Kg	37 U	38 U	370 U	NS	390 U	NS	200 U	NS
Aroclor-1260	µg/Kg	37 U	38 U	370 U	NS	390 U	NS	200 U	NS
Herbicides									
2,4-D	µg/Kg	56 U	59 U	56 U	NS	60 U	NS	60 U	NS
2,4-DB	µg/Kg	56 U	59 U	56 U	NS	60 U	NS	60 U	NS
2,4,5-T	µg/Kg	5.6 U	5.9 U	5.6 U	NS	6 U	NS	6 U	NS
2,4,5-TP (Silvex)	µg/Kg	5.6 U	5.9 U	5.6 U	NS	6 U	NS	6 U	NS
Dalapon	µg/Kg	130 U	140 U	140 U	NS	140 U	NS	140 U	NS
Dicamba	µg/Kg	5.6 U	5.9 U	5.6 U	NS	6 U	NS	6 U	NS
Dichloroprop	µg/Kg	56 U	59 U	56 U	NS	60 U	NS	60 U	NS
Dinoseb	µg/Kg	28 U	29 U	28 U	NS	30 U	NS	30 U	NS
MCPA	µg/Kg	5600 U	5900 U	5600 U	NS	6000 U	NS	6000 U	NS
MCPP	µg/Kg	5600 U	5900 U	5600 U	NS	6000 U	NS	6000 U	NS
Metals									
Aluminum	mg/Kg	11600	9270	10100	NS	12000	NS	18700	NS
Antimony	mg/Kg	11.6 UJ	12.2 UJ	9.9 UJ	NS	8.8 UJ	NS	6.7 UJ	NS
Arsenic	mg/Kg	4.1	4.5	4.9	NS	3.2	NS	4.4	NS
Barium	mg/Kg	62.7	43.3 J	68.9	NS	87.8	NS	105	NS
Beryllium	mg/Kg	0.51 J	0.49 J	0.57 J	NS	0.55 J	NS	0.84	NS
Cadmium	mg/Kg	0.67 U	0.7 U	0.7 J	NS	0.5 U	NS	0.38 U	NS
Calcium	mg/Kg	50500	57300	89100	NS	42500	NS	7920	NS
Chromium	mg/Kg	19.9	16.3	19	NS	19.4	NS	30.3	NS
Cobalt	mg/Kg	10.4 J	8.5 J	9.7	NS	8.2	NS	17	NS
Copper	mg/Kg	25.4	25.1	29.2	NS	32.2	NS	25.1	NS
Iron	mg/Kg	25200	22300	20000	NS	20000	NS	40900	NS
Lead	mg/Kg	14.2	8.9	81.4	NS	52.5	NS	26.9	NS
Magnesium	mg/Kg	9810	6790	16200	NS	8600	NS	7250	NS
Manganese	mg/Kg	523	590	462	NS	299	NS	528	NS
Mercury	mg/Kg	0.03 U	0.03 J	0.04 J	NS	0.06 J	NS	0.06 J	NS
Nickel	mg/Kg	34.5	26.2	29	NS	28.5	NS	45.9	NS
Potassium	mg/Kg	1290	941 J	1200	NS	1320	NS	1140	NS
Selenium	mg/Kg	0.67 J	0.45 J	0.58 J	NS	0.82	NS	0.54 J	NS
Silver	mg/Kg	0.69 U	0.72 U	0.59 U	NS	0.52 U	NS	0.4 U	NS
Sodium	mg/Kg	78.5 J	67.2 U	108 J	NS	91.3 J	NS	40.3 J	NS
Thallium	mg/Kg	0.45 U	0.38 U	0.33 U	NS	0.36 U	NS	0.31 U	NS
Vanadium	mg/Kg	17.3	13.8	27	NS	23.8	NS	26.4	NS
Zinc	mg/Kg	78.9	96.3	139	NS	223	NS	123	NS
Cyanide	mg/Kg	0.53 U	0.47 U	0.69 U	NS	0.7 U	NS	0.66 U	NS

SENECA ARMY DEPOT, ASH LANDFILL
SOIL ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	B-41	B-41	B-42	B-42	B-42	B-42	B-42	B-42
	DEPTH(FT.)	6.5-8	6.5-8	0-2	0-2	2-4	2-4	4-6	4-6
	DATE	12/09/92	12/08/92	12/09/92	12/09/92	12/09/92	12/09/92	12/09/92	12/09/92
	ES ID	B41-4	B41-4RE	B42-1	B42-1RE	B42-2	B42-2RE	B42-3	B42-3RE
	LAB ID	176004	176004R1	176005	176005R1	176006	176006R1	176007	176007R1
COMPOUND	UNITS								
VOCs									
Chloromethane	µg/Kg	11 U	NS	11 UJ	11 UJ	12 UJ	12 UJ	15 U	NS
Bromomethane	µg/Kg	11 U	NS	11 UJ	11 UJ	12 UJ	12 UJ	15 U	NS
Vinyl Chloride	µg/Kg	11 U	NS	11 UJ	11 UJ	12 UJ	12 UJ	15 U	NS
Chloroethane	µg/Kg	11 U	NS	11 UJ	11 UJ	12 UJ	12 UJ	15 U	NS
Methylene Chloride	µg/Kg	11 U	NS	5 J	11 UJ	12 UJ	12 UJ	15 U	NS
Acetone	µg/Kg	11 U	NS	11 UJ	11 UJ	12 UJ	12 UJ	15 U	NS
Carbon Disulfide	µg/Kg	11 U	NS	11 UJ	11 UJ	12 UJ	12 UJ	15 U	NS
1,1-Dichloroethene	µg/Kg	11 U	NS	11 UJ	11 UJ	12 UJ	12 UJ	15 U	NS
1,1-Dichloroethane	µg/Kg	11 U	NS	11 UJ	11 UJ	12 UJ	12 UJ	15 U	NS
1,2-Dichloroethene (total)	µg/Kg	11 U	NS	11 UJ	11 UJ	12 UJ	12 UJ	15 U	NS
Chloroform	µg/Kg	11 U	NS	11 UJ	11 UJ	12 UJ	12 UJ	15 U	NS
1,2-Dichloroethane	µg/Kg	11 U	NS	11 UJ	11 UJ	12 UJ	12 UJ	15 U	NS
2-Butanone	µg/Kg	11 U	NS	11 UJ	11 UJ	12 UJ	12 UJ	15 U	NS
1,1,1-Trichloroethane	µg/Kg	11 U	NS	11 UJ	11 UJ	12 UJ	12 UJ	15 U	NS
Carbon Tetrachloride	µg/Kg	11 U	NS	11 UJ	11 UJ	12 UJ	12 UJ	15 U	NS
Vinyl acetate	µg/Kg	NS	NS	NS	NS	NS	NS	NS	NS
Bromodichloromethane	µg/Kg	11 U	NS	11 UJ	11 UJ	12 UJ	12 UJ	15 U	NS
1,2-Dichloropropane	µg/Kg	11 U	NS	11 UJ	11 UJ	12 UJ	12 UJ	15 U	NS
cis-1,3-Dichloropropene	µg/Kg	11 U	NS	11 UJ	11 UJ	12 UJ	12 UJ	15 U	NS
Trichloroethene	µg/Kg	11 U	NS	90 J	98 J	170 J	230 J	38	NS
Dibromochloromethane	µg/Kg	11 U	NS	11 UJ	11 UJ	12 UJ	12 UJ	15 U	NS
1,1,2-Trichloroethane	µg/Kg	11 U	NS	11 UJ	11 UJ	12 UJ	12 UJ	15 U	NS
Benzene	µg/Kg	11 U	NS	11 UJ	11 UJ	2 J	3 J	15 U	NS
trans-1,3-Dichloropropene	µg/Kg	11 U	NS	11 UJ	11 UJ	12 UJ	12 UJ	15 U	NS
Bromoform	µg/Kg	11 U	NS	11 UJ	11 UJ	12 UJ	12 UJ	15 U	NS
4-Methyl-2-Pentanone	µg/Kg	11 U	NS	11 UJ	11 UJ	12 UJ	12 UJ	15 U	NS
2-Hexanone	µg/Kg	11 U	NS	11 UJ	11 UJ	12 UJ	12 UJ	15 U	NS
Tetrachloroethene	µg/Kg	11 U	NS	11 UJ	11 UJ	12 UJ	12 UJ	15 U	NS
1,1,2,2-Tetrachloroethane	µg/Kg	11 U	NS	11 UJ	11 UJ	12 UJ	12 UJ	15 U	NS
Toluene	µg/Kg	11 U	NS	11 UJ	11 UJ	12 UJ	12 UJ	15 U	NS
Chlorobenzene	µg/Kg	11 U	NS	11 UJ	11 UJ	12 UJ	12 UJ	15 U	NS
Ethylbenzene	µg/Kg	11 U	NS	11 UJ	11 UJ	12 UJ	12 UJ	15 U	NS
Styrene	µg/Kg	11 U	NS	11 UJ	11 UJ	12 UJ	12 UJ	15 U	NS
Xylene (total)	µg/Kg	11 U	NS	11 UJ	11 UJ	12 UJ	12 UJ	15 U	NS

SENECA ARMY DEPOT, ASH LANDFILL
SOIL ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	B-41	B-41	B-42	B-42	B-42	B-42	B-42	B-42
	DEPTH(FT.)	6.5-8	6.5-8	0-2	0-2	2-4	2-4	4-6	4-6
	DATE	12/09/92	12/08/92	12/09/92	12/09/92	12/09/92	12/09/92	12/09/92	12/09/92
	ES ID	B41-4	B41-4RE	B42-1	B42-1RE	B42-2	B42-2RE	B42-3	B42-3RE
	LAB ID	176004	176004R1	176005	176005R1	176006	176006R1	176007	176007R1
COMPOUND	UNITS								
VOCs									
Semivolatiles									
Phenol	µg/Kg	360 UJ	360 UJ	380 UJ	380 UJ	390 UJ	390 UJ	410 UJ	410 UJ
bis(2-Chloroethyl) ether	µg/Kg	360 UJ	360 UJ	380 UJ	380 UJ	390 UJ	390 UJ	410 UJ	410 UJ
2-Chlorophenol	µg/Kg	360 UJ	360 UJ	380 UJ	380 UJ	390 UJ	390 UJ	410 UJ	410 UJ
1,3-Dichlorobenzene	µg/Kg	360 UJ	360 UJ	380 UJ	380 UJ	390 UJ	390 UJ	410 UJ	410 UJ
1,4-Dichlorobenzene	µg/Kg	360 UJ	360 UJ	380 UJ	380 UJ	390 UJ	390 UJ	410 UJ	410 UJ
Benzyl alcohol	µg/Kg	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dichlorobenzene	µg/Kg	360 UJ	360 UJ	380 UJ	380 UJ	390 UJ	390 UJ	410 UJ	410 UJ
2-Methylphenol	µg/Kg	360 UJ	360 UJ	380 UJ	380 UJ	390 UJ	390 UJ	410 UJ	410 UJ
2,2'-oxybis(1-Chloropropane)	µg/Kg	360 UJ	360 UJ	380 UJ	380 UJ	390 UJ	390 UJ	410 UJ	410 UJ
4-Methylphenol	µg/Kg	360 UJ	360 UJ	380 UJ	380 UJ	390 UJ	390 UJ	410 UJ	410 UJ
N-Nitroso-di-n-propylamine	µg/Kg	360 UJ	360 UJ	380 UJ	380 UJ	390 UJ	390 UJ	410 UJ	410 UJ
Hexachloroethane	µg/Kg	360 UJ	360 UJ	380 UJ	380 UJ	390 UJ	390 UJ	410 UJ	410 UJ
Nitrobenzene	µg/Kg	360 UJ	360 UJ	380 UJ	380 UJ	390 UJ	390 UJ	410 UJ	410 UJ
Isophorone	µg/Kg	360 UJ	360 UJ	380 UJ	380 UJ	390 UJ	390 UJ	410 UJ	410 UJ
2-Nitrophenol	µg/Kg	360 UJ	360 UJ	380 UJ	380 UJ	390 UJ	390 UJ	410 UJ	410 UJ
2,4-Dimethylphenol	µg/Kg	360 UJ	380 UJ	380 UJ	380 UJ	390 UJ	390 UJ	410 UJ	410 UJ
Benzoic acid	µg/Kg	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroethoxy) methane	µg/Kg	360 UJ	360 UJ	380 UJ	380 UJ	390 UJ	390 UJ	410 UJ	410 UJ
2,4-Dichlorophenol	µg/Kg	360 UJ	360 UJ	380 UJ	380 UJ	390 UJ	390 UJ	410 UJ	410 UJ
1,2,4-Trichlorobenzene	µg/Kg	360 UJ	360 UJ	380 UJ	380 UJ	390 UJ	390 UJ	410 UJ	410 UJ
Naphthalene	µg/Kg	360 UJ	360 UJ	380 UJ	44 J	120 J	150 J	410 UJ	410 UJ
4-Chloroaniline	µg/Kg	360 UJ	360 UJ	380 UJ	380 UJ	390 UJ	390 UJ	410 UJ	410 UJ
Hexachlorobutadiene	µg/Kg	360 UJ	360 UJ	380 UJ	380 UJ	390 UJ	390 UJ	410 UJ	410 UJ
4-Chloro-3-methylphenol	µg/Kg	360 UJ	360 UJ	380 UJ	380 UJ	390 UJ	390 UJ	410 UJ	410 UJ
2-Methylnaphthalene	µg/Kg	360 UJ	360 UJ	14 J	15 J	40 J	71 J	410 UJ	410 UJ
Hexachlorocyclopentadiene	µg/Kg	380 UJ	360 UJ	380 UJ	380 UJ	390 UJ	390 UJ	410 UJ	410 UJ
2,4,6-Trichlorophenol	µg/Kg	380 UJ	380 UJ	380 UJ	380 UJ	390 UJ	390 UJ	410 UJ	410 UJ
2,4,5-Trichlorophenol	µg/Kg	860 UJ	870 UJ	920 UJ	920 UJ	950 UJ	950 UJ	990 UJ	990 UJ
2-Chloronaphthalene	µg/Kg	360 UJ	360 UJ	380 UJ	380 UJ	390 UJ	390 UJ	410 UJ	410 UJ
2-Nitroaniline	µg/Kg	860 UJ	870 UJ	920 UJ	920 UJ	950 UJ	950 UJ	990 UJ	990 UJ
Dimethylphthalate	µg/Kg	360 UJ	360 UJ	380 UJ	380 UJ	390 UJ	390 UJ	410 UJ	410 UJ
Acenaphthylene	µg/Kg	360 UJ	360 UJ	41 J	44 J	390 UJ	23 J	410 UJ	410 UJ
2,6-Dinitrotoluene	µg/Kg	360 UJ	360 UJ	380 UJ	380 UJ	390 UJ	390 UJ	410 UJ	410 UJ
3-Nitroaniline	µg/Kg	860 UJ	870 UJ	920 UJ	920 UJ	950 UJ	950 UJ	990 UJ	990 UJ
Acenaphthene	µg/Kg	360 UJ	360 UJ	54 J	48 J	240 J	390 J	410 UJ	410 UJ
2,4-Dinitrophenol	µg/Kg	860 UJ	870 UJ	920 UJ	920 UJ	950 UJ	950 UJ	990 UJ	990 UJ
4-Nitrophenol	µg/Kg	860 UJ	870 UJ	920 UJ	920 UJ	950 UJ	950 UJ	990 UJ	990 UJ
Dibenzofuran	µg/Kg	360 UJ	360 UJ	32 J	25 J	110 J	180 J	410 UJ	410 UJ
2,4-Dinitrotoluene	µg/Kg	360 UJ	360 UJ	380 UJ	380 UJ	390 UJ	390 UJ	410 UJ	410 UJ
Diethylphthalate	µg/Kg	360 UJ	360 UJ	380 UJ	380 UJ	390 UJ	390 UJ	410 UJ	410 UJ
4-Chlorophenyl-phenylether	µg/Kg	360 UJ	360 UJ	380 UJ	380 UJ	390 UJ	390 UJ	410 UJ	410 UJ
Fluorene	µg/Kg	360 UJ	360 UJ	49 J	39 J	200 J	320 J	410 UJ	410 UJ
4-Nitroaniline	µg/Kg	860 UJ	870 UJ	920 UJ	920 UJ	950 UJ	950 UJ	990 UJ	990 UJ
4,6-Dinitro-2-methylphenol	µg/Kg	860 UJ	870 UJ	920 UJ	920 UJ	950 UJ	950 UJ	990 UJ	990 UJ
N-Nitrosodiphenylamine	µg/Kg	360 UJ	360 UJ	380 UJ	380 UJ	390 UJ	390 UJ	410 UJ	410 UJ
4-Bromophenyl-phenylether	µg/Kg	360 UJ	360 UJ	380 UJ	380 UJ	390 UJ	390 UJ	410 UJ	410 UJ
Hexachlorobenzene	µg/Kg	360 UJ	360 UJ	380 UJ	380 UJ	390 UJ	390 UJ	410 UJ	410 UJ
Pentachlorophenol	µg/Kg	860 UJ	870 UJ	920 UJ	920 UJ	950 UJ	950 UJ	990 UJ	990 UJ
Phenanthrene	µg/Kg	360 UJ	360 UJ	570 J	530 J	1900 J	2200 J	22 J	76 J
Anthracene	µg/Kg	360 UJ	380 UJ	120 J	130 J	310 J	560 J	410 UJ	19 J
Carbazole	µg/Kg	360 UJ	360 UJ	370 J	280 J	1000 J	910 J	410 UJ	410 UJ
Di-n-butylphthalate	µg/Kg	110 J	430 J	1100 J	820 J	390 UJ	390 UJ	410 UJ	410 UJ
Fluoranthene	µg/Kg	360 UJ	360 UJ	1100 J	920 J	2700 J	2800 J	32 J	100 J
Pyrene	µg/Kg	360 UJ	380 UJ	810 J	890 J	2100 J	2400 J	35 J	77 J
Butylbenzylphthalate	µg/Kg	360 UJ	360 UJ	380 UJ	380 UJ	390 UJ	390 UJ	410 UJ	410 UJ
3,3'-Dichlorobenzidine	µg/Kg	360 UJ	360 UJ	380 UJ	380 UJ	390 UJ	390 UJ	410 UJ	410 UJ
Benzo(a)anthracene	µg/Kg	360 UJ	360 UJ	490 J	560 J	1100 J	1500 J	14 J	39 J
Chrysene	µg/Kg	360 UJ	360 UJ	600 J	710 J	1300 J	1600 J	22 J	49 J
bis(2-Ethylhexyl)phthalate	µg/Kg	380 J	1100 J	2200 J	1100 J	600 J	550 J	260 UJ	370 J
Di-n-octylphthalate	µg/Kg	360 UJ	360 UJ	380 UJ	380 UJ	390 UJ	390 UJ	410 UJ	410 UJ
Benzo(b)fluoranthene	µg/Kg	360 UJ	360 UJ	770 J	800 J	1400 J	1700 J	27 J	59 J
Benzo(k)fluoranthene	µg/Kg	360 UJ	360 UJ	670 J	730 J	1000 J	1200 J	27 J	50 J
Benzo(a)pyrene	µg/Kg	360 UJ	360 UJ	560 J	660 J	780 J	1300 J	410 UJ	38 J
Indeno(1,2,3-cd)pyrene	µg/Kg	360 UJ	360 UJ	370 J	460 J	510 J	810 J	21 J	39 J
Dibenz(a,h)anthracene	µg/Kg	360 UJ	360 UJ	130 J	170 J	200 J	360 J	410 UJ	410 UJ
Benzo(g,h,i)perylene	µg/Kg	360 UJ	360 UJ	290 J	300 J	320 J	620 J	60 J	46 J

SENECA ARMY DEPOT, ASH LANDFILL
SOIL ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	B-41	B-41	B-42	B-42	B-42	B-42	B-42	B-42
	DEPTH(FT.)	6.5-8	6.5-8	0-2	0-2	2-4	2-4	4-6	4-6
	DATE	12/09/92	12/08/92	12/09/92	12/09/92	12/09/92	12/09/92	12/09/92	12/09/92
	ES ID	B41-4	B41-4RE	B42-1	B42-1RE	B42-2	B42-2RE	B42-3	B42-3RE
	LAB ID	176004	176004R1	176005	176005R1	176006	176006R1	176007	176007R1
COMPOUND	UNITS								
VOCs									
Pesticides/PCBs									
alpha-BHC	µg/Kg	1.8 U	NS	9.8 U	NS	10 U	NS	2.1 U	NS
beta-BHC	µg/Kg	1.8 U	NS	9.8 U	NS	10 U	NS	2.1 U	NS
delta-BHC	µg/Kg	1.8 U	NS	9.8 U	NS	10 U	NS	2.1 U	NS
gamma-BHC (Lindane)	µg/Kg	1.8 U	NS	9.8 U	NS	10 U	NS	2.1 U	NS
Heptachlor	µg/Kg	1.8 U	NS	9.8 U	NS	10 U	NS	2.1 U	NS
Aldrin	µg/Kg	1.8 U	NS	9.8 U	NS	10 U	NS	2.1 U	NS
Heptachlor epoxide	µg/Kg	1.8 U	NS	9.8 U	NS	10 U	NS	2.1 U	NS
Endosulfan I	µg/Kg	1.8 U	NS	9.8 U	NS	10 U	NS	2.1 U	NS
Dieldrin	µg/Kg	3.6 U	NS	19 U	NS	20 U	NS	4.1 U	NS
4,4'-DDE	µg/Kg	3.6 U	NS	90 J	NS	290	NS	14	NS
Endrin	µg/Kg	3.6 U	NS	19 U	NS	20 U	NS	4.1 U	NS
Endosulfan II	µg/Kg	3.6 U	NS	19 U	NS	20 U	NS	4.1 U	NS
4,4'-DDD	µg/Kg	3.6 U	NS	8.4 J	NS	15 J	NS	1.3 J	NS
Endosulfan sulfate	µg/Kg	3.6 U	NS	19 U	NS	20 U	NS	4.1 U	NS
4,4'-DDT	µg/Kg	3.6 U	NS	260 J	NS	240	NS	30	NS
Methoxychlor	µg/Kg	18 U	NS	98 U	NS	100 U	NS	21 U	NS
Endrin ketone	µg/Kg	3.6 U	NS	19 U	NS	20 U	NS	4.1 U	NS
Endrin aldehyde	µg/Kg	3.6 U	NS	19 U	NS	20 U	NS	4.1 U	NS
alpha-Chlordane	µg/Kg	1.8 U	NS	9.8 U	NS	10 U	NS	2.1 U	NS
gamma-Chlordane	µg/Kg	1.8 U	NS	9.8 U	NS	10 U	NS	2.1 U	NS
Toxaphene	µg/Kg	180 U	NS	980 U	NS	1000 U	NS	210 U	NS
Aroclor-1016	µg/Kg	36 U	NS	190 U	NS	200 U	NS	41 U	NS
Aroclor-1221	µg/Kg	72 U	NS	390 U	NS	400 U	NS	84 U	NS
Aroclor-1232	µg/Kg	36 U	NS	190 U	NS	200 U	NS	41 U	NS
Aroclor-1242	µg/Kg	36 U	NS	190 U	NS	200 U	NS	41 U	NS
Aroclor-1248	µg/Kg	36 U	NS	190 U	NS	200 U	NS	41 U	NS
Aroclor-1254	µg/Kg	36 U	NS	190 U	NS	200 U	NS	41 U	NS
Aroclor-1260	µg/Kg	36 U	NS	190 U	NS	200 U	NS	41 U	NS
Herbicides									
2,4-D	µg/Kg	54 U	53 U	58 U	NS	60 U	NS	62 U	NS
2,4-DB	µg/Kg	54 U	53 U	58 U	NS	60 U	NS	62 U	NS
2,4,5-T	µg/Kg	5.4 U	5.3 U	5.8 U	NS	6 U	NS	6.2 U	NS
2,4,5-TP (Silvex)	µg/Kg	5.4 U	5.3 U	5.8 U	NS	6 U	NS	6.2 U	NS
Dalapon	µg/Kg	130 U	130 U	140 U	NS	140 U	NS	150 U	NS
Dicamba	µg/Kg	5.4 U	5.3 U	5.8 U	NS	6 U	NS	6.2 U	NS
Dichloroprop	µg/Kg	54 U	53 U	58 U	NS	60 U	NS	62 U	NS
Dinoseb	µg/Kg	27 U	27 U	29 U	NS	30 U	NS	31 U	NS
MCPA	µg/Kg	5400 U	5300 U	5800 U	NS	6000 U	NS	6200 U	NS
MCPP	µg/Kg	5400 U	5300 U	5800 U	NS	6000 U	NS	6200 U	NS
Metals									
Aluminum	mg/Kg	7460	NS	12500	NS	12500	NS	20600	NS
Antimony	mg/Kg	9.8 UJ	NS	15.2 J	NS	8.6 UJ	NS	8.9 UJ	NS
Arsenic	mg/Kg	2.4	NS	8.7	NS	10.5	NS	7.1	NS
Barium	mg/Kg	20.4 J	NS	168	NS	218	NS	104	NS
Beryllium	mg/Kg	0.29 J	NS	0.45 J	NS	0.45 J	NS	1.1	NS
Cadmium	mg/Kg	0.56 U	NS	2.8	NS	3.7	NS	0.51 U	NS
Calcium	mg/Kg	12100	NS	31200	NS	32300	NS	6320	NS
Chromium	mg/Kg	12.2	NS	48.6	NS	52.4	NS	41.5	NS
Cobalt	mg/Kg	6 J	NS	12.8	NS	25.1	NS	15.2	NS
Copper	mg/Kg	5.4 R	NS	177	NS	311	NS	51.6	NS
Iron	mg/Kg	15300	NS	43800	NS	49300	NS	40900	NS
Lead	mg/Kg	4.2	NS	1170	NS	672	NS	158	NS
Magnesium	mg/Kg	3300	NS	8470	NS	6760	NS	6500	NS
Manganese	mg/Kg	267 R	NS	630	NS	589	NS	641	NS
Mercury	mg/Kg	0.06	NS	1.2	NS	0.89	NS	0.38	NS
Nickel	mg/Kg	18	NS	68	NS	2520	NS	76.8	NS
Potassium	mg/Kg	405 J	NS	1420	NS	1730	NS	1950	NS
Selenium	mg/Kg	0.38 J	NS	1 J	NS	2.1	NS	0.88	NS
Silver	mg/Kg	0.58 U	NS	10.5	NS	2	NS	0.53 U	NS
Sodium	mg/Kg	54.1 U	NS	309 J	NS	375 J	NS	87.6 J	NS
Thallium	mg/Kg	0.38 U	NS	0.59 U	NS	0.51 U	NS	0.4 U	NS
Vanadium	mg/Kg	8.3 J	NS	27.1	NS	27.7	NS	30.3	NS
Zinc	mg/Kg	40.5	NS	649	NS	907	NS	171	NS
Cyanide	mg/Kg	0.62 U	NS	0.52 U	NS	0.51 U	NS	0.58 U	NS

SENECA ARMY DEPOT, ASH LANDFILL
SOIL ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

COMPOUND	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	B-42	B-42	B-43	B-43	B-43	B-43	B-43	B-43
	DEPTH(FT.)	6-7.2	6-7.2	0-2	0-2	2-4	2-4	4-6	4-6
	DATE	12/09/92	12/09/92	12/09/92	12/09/92	12/09/92	12/09/92	12/09/92	12/09/92
	ES ID	B42-4	B42-4RE	B43-1	B43-1RE	B43-2	B43-2RE	B43-3	B43-3RE
	LAB ID	176008	176008R2	176009	176009R1	176010	176010R1	176011	176011R1
	UNITS								
VOCs									
Chloromethane	µg/Kg	11 U	NS	11 U	NS	13 U	NS	12 UJ	12 UJ
Bromomethane	µg/Kg	11 U	NS	11 U	NS	13 U	NS	12 UJ	12 UJ
Vinyl Chloride	µg/Kg	11 U	NS	11 U	NS	13 U	NS	12 UJ	12 UJ
Chloroethane	µg/Kg	11 U	NS	11 U	NS	13 U	NS	12 UJ	12 UJ
Methylene Chloride	µg/Kg	11 U	NS	11 U	NS	13 U	NS	12 UJ	12 UJ
Acetone	µg/Kg	11 U	NS	11 U	NS	13 U	NS	36 UJ	48 UJ
Carbon Disulfide	µg/Kg	11 U	NS	11 U	NS	13 U	NS	12 UJ	12 UJ
1,1-Dichloroethene	µg/Kg	11 U	NS	11 U	NS	13 U	NS	12 UJ	12 UJ
1,1-Dichloroethane	µg/Kg	11 U	NS	11 U	NS	13 U	NS	12 UJ	12 UJ
1,2-Dichloroethene (total)	µg/Kg	11 U	NS	11 U	NS	13 U	NS	12 UJ	12 UJ
Chloroform	µg/Kg	11 U	NS	11 U	NS	13 U	NS	12 UJ	12 UJ
1,2-Dichloroethane	µg/Kg	11 U	NS	11 U	NS	13 U	NS	12 UJ	12 UJ
2-Butanone	µg/Kg	11 U	NS	11 U	NS	13 U	NS	7 J	7 J
1,1,1-Trichloroethane	µg/Kg	11 U	NS	11 U	NS	13 U	NS	12 UJ	12 UJ
Carbon Tetrachloride	µg/Kg	11 U	NS	11 U	NS	13 U	NS	12 UJ	12 UJ
Vinyl acetate	µg/Kg	NS	NS	NS	NS	NS	NS	NS	NS
Bromodichloromethane	µg/Kg	11 U	NS	11 U	NS	13 U	NS	12 UJ	12 UJ
1,2-Dichloropropane	µg/Kg	11 U	NS	11 U	NS	13 U	NS	12 UJ	12 UJ
cis-1,3-Dichloropropene	µg/Kg	11 U	NS	11 U	NS	13 U	NS	12 UJ	12 UJ
Trichloroethene	µg/Kg	2 J	NS	8 J	NS	8 J	NS	11 J	9 J
Dibromochloromethane	µg/Kg	11 U	NS	11 U	NS	13 U	NS	12 UJ	12 UJ
1,1,2-Trichloroethane	µg/Kg	11 U	NS	11 U	NS	13 U	NS	12 UJ	12 UJ
Benzene	µg/Kg	11 U	NS	11 U	NS	13 U	NS	12 UJ	12 UJ
trans-1,3-Dichloropropene	µg/Kg	11 U	NS	11 U	NS	13 U	NS	12 UJ	12 UJ
Bromoform	µg/Kg	11 U	NS	11 U	NS	13 U	NS	12 UJ	12 UJ
4-Methyl-2-Pentanone	µg/Kg	11 U	NS	5 J	NS	13 U	NS	12 UJ	12 UJ
2-Hexanone	µg/Kg	11 U	NS	9 J	NS	13 U	NS	12 UJ	12 UJ
Tetrachloroethene	µg/Kg	11 U	NS	11 U	NS	13 U	NS	12 UJ	12 UJ
1,1,2,2-Tetrachloroethane	µg/Kg	11 U	NS	11 U	NS	13 U	NS	12 UJ	12 UJ
Toluene	µg/Kg	11 U	NS	11 U	NS	13 U	NS	12 UJ	12 UJ
Chlorobenzene	µg/Kg	11 U	NS	11 U	NS	13 U	NS	12 UJ	12 UJ
Ethylbenzene	µg/Kg	11 U	NS	3 J	NS	13 U	NS	12 UJ	12 UJ
Styrene	µg/Kg	11 U	NS	11 U	NS	13 U	NS	12 UJ	12 UJ
Xylene (total)	µg/Kg	11 U	NS	11 U	NS	13 U	NS	12 UJ	12 UJ

SENECA ARMY DEPOT, ASH LANDFILL
SOIL ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	B-42	B-42	B-43	B-43	B-43	B-43	B-43	B-43
	DEPTH(FT.)	6-7.2	6-7.2	0-2	0-2	2-4	2-4	4-6	4-6
	DATE	12/09/92	12/09/92	12/09/92	12/09/92	12/09/92	12/09/92	12/09/92	12/09/92
	ES ID	B42-4	B42-4RE	B43-1	B43-1RE	B43-2	B43-2RE	B43-3	B43-3RE
	LAB ID	176008	176008R2	176009	176009R1	176010	176010R1	176011	176011R1
COMPOUND	UNITS								
VOCs									
Semivolatiles									
Phenol	µg/Kg	360 UJ	360 UJ	2500 UJ	25000 UJ	2100 J	2800 UJ	1000 UJ	1000 UJ
bis(2-Chloroethyl) ether	µg/Kg	360 UJ	360 UJ	2500 UJ	25000 UJ	2100 UJ	2800 UJ	1000 UJ	1000 UJ
2-Chlorophenol	µg/Kg	360 UJ	360 UJ	2500 UJ	25000 UJ	2100 UJ	2800 UJ	1000 UJ	1000 UJ
1,3-Dichlorobenzene	µg/Kg	360 UJ	360 UJ	2500 UJ	25000 UJ	2100 UJ	2800 UJ	1000 UJ	1000 UJ
1,4-Dichlorobenzene	µg/Kg	360 UJ	360 UJ	2500 UJ	25000 UJ	2100 UJ	2800 UJ	1000 UJ	1000 UJ
Benzyl alcohol	µg/Kg	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dichlorobenzene	µg/Kg	360 UJ	360 UJ	2500 UJ	25000 UJ	2100 UJ	2800 UJ	1000 UJ	1000 UJ
2-Methylphenol	µg/Kg	360 UJ	360 UJ	2500 UJ	25000 UJ	2100 UJ	2800 UJ	1000 UJ	1000 UJ
2,2'-oxybis(1-Chloropropane)	µg/Kg	360 UJ	360 UJ	2500 UJ	25000 UJ	2100 UJ	2800 UJ	1000 UJ	1000 UJ
4-Methylphenol	µg/Kg	360 UJ	360 UJ	2500 UJ	25000 UJ	2100 UJ	2800 UJ	1000 UJ	1000 UJ
N-Nitroso-di-n-propylamine	µg/Kg	360 UJ	360 UJ	2500 UJ	25000 UJ	2100 UJ	2800 UJ	1000 UJ	1000 UJ
Hexachloroethane	µg/Kg	360 UJ	360 UJ	2500 UJ	25000 UJ	2100 UJ	2800 UJ	1000 UJ	1000 UJ
Nitrobenzene	µg/Kg	360 UJ	360 UJ	2500 UJ	25000 UJ	2100 UJ	2800 UJ	1000 UJ	1000 UJ
Isophorone	µg/Kg	360 UJ	360 UJ	2500 UJ	25000 UJ	2100 UJ	2800 UJ	1000 UJ	1000 UJ
2-Nitrophenol	µg/Kg	360 UJ	360 UJ	2500 UJ	25000 UJ	2100 UJ	2800 UJ	1000 UJ	1000 UJ
2,4-Dimethylphenol	µg/Kg	360 UJ	360 UJ	2500 UJ	25000 UJ	2100 UJ	2800 UJ	1000 UJ	1000 UJ
Benzoic acid	µg/Kg	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroethoxy) methane	µg/Kg	360 UJ	360 UJ	2500 UJ	25000 UJ	2100 UJ	2800 UJ	1000 UJ	1000 UJ
2,4-Dichlorophenol	µg/Kg	360 UJ	360 UJ	2500 UJ	25000 UJ	2100 UJ	2800 UJ	1000 UJ	1000 UJ
1,2,4-Trichlorobenzene	µg/Kg	360 UJ	360 UJ	2500 UJ	25000 UJ	2100 UJ	2800 UJ	1000 UJ	1000 UJ
Naphthalene	µg/Kg	360 UJ	360 UJ	2500 UJ	25000 UJ	500 J	2800 UJ	1000 UJ	1000 UJ
4-Chloroaniline	µg/Kg	360 UJ	360 UJ	2500 UJ	25000 UJ	2100 UJ	2800 UJ	1000 UJ	1000 UJ
Hexachlorobutadiene	µg/Kg	360 UJ	360 UJ	2500 UJ	25000 UJ	2100 UJ	2800 UJ	1000 UJ	1000 UJ
4-Chloro-3-methylphenol	µg/Kg	360 UJ	360 UJ	2500 UJ	25000 UJ	2100 UJ	2800 UJ	1000 UJ	1000 UJ
2-Methylnaphthalene	µg/Kg	360 UJ	360 UJ	2500 UJ	25000 UJ	350 J	2800 UJ	1000 UJ	1000 UJ
Hexachlorocyclopentadiene	µg/Kg	360 UJ	360 UJ	2500 UJ	25000 UJ	2100 UJ	2800 UJ	1000 UJ	1000 UJ
2,4,6-Trichlorophenol	µg/Kg	360 UJ	360 UJ	2500 UJ	25000 UJ	2100 UJ	2800 UJ	1000 UJ	1000 UJ
2,4,5-Trichlorophenol	µg/Kg	870 UJ	880 UJ	6200 UJ	62000 UJ	5200 UJ	6700 UJ	2500 UJ	2500 UJ
2-Chloronaphthalene	µg/Kg	360 UJ	360 UJ	2500 UJ	25000 UJ	2100 UJ	2800 UJ	1000 UJ	1000 UJ
2-Nitroaniline	µg/Kg	870 UJ	880 UJ	6200 UJ	62000 UJ	5200 UJ	6700 UJ	2500 UJ	2500 UJ
Dimethylphthalate	µg/Kg	360 UJ	360 UJ	2500 UJ	25000 UJ	2100 UJ	2800 UJ	1000 UJ	1000 UJ
Acenaphthylene	µg/Kg	360 UJ	360 UJ	2500 UJ	25000 UJ	2100 UJ	2800 UJ	1000 UJ	1000 UJ
2,6-Dinitrotoluene	µg/Kg	360 UJ	360 UJ	2500 UJ	25000 UJ	2100 UJ	2800 UJ	1000 UJ	1000 UJ
3-Nitroaniline	µg/Kg	870 UJ	880 UJ	6200 UJ	62000 UJ	5200 UJ	6700 UJ	2500 UJ	2500 UJ
Acenaphthene	µg/Kg	360 UJ	360 UJ	2500 UJ	25000 UJ	2100 J	250 J	66 J	1000 UJ
2,4-Dinitrophenol	µg/Kg	870 UJ	880 UJ	6200 UJ	62000 UJ	5200 UJ	6700 UJ	2500 UJ	2500 UJ
4-Nitrophenol	µg/Kg	870 UJ	880 UJ	6200 UJ	62000 UJ	5200 UJ	6700 UJ	2500 UJ	2500 UJ
Dibenzofuran	µg/Kg	360 UJ	360 UJ	2500 UJ	25000 UJ	990 J	120 J	1000 UJ	1000 UJ
2,4-Dinitrotoluene	µg/Kg	360 UJ	360 UJ	2500 UJ	25000 UJ	2100 UJ	2800 UJ	1000 UJ	1000 UJ
Diethylphthalate	µg/Kg	360 UJ	360 UJ	2500 UJ	25000 UJ	1300 J	2800 UJ	1000 UJ	1000 UJ
4-Chlorophenyl-phenylether	µg/Kg	360 UJ	360 UJ	2500 UJ	25000 UJ	2100 UJ	2800 UJ	1000 UJ	1000 UJ
Fluorene	µg/Kg	360 UJ	360 UJ	2500 UJ	25000 UJ	1900 J	230 J	53 J	1000 UJ
4-Nitroaniline	µg/Kg	870 UJ	880 UJ	6200 UJ	62000 UJ	5200 UJ	6700 UJ	2500 UJ	2500 UJ
4,6-Dinitro-2-methylphenol	µg/Kg	870 UJ	880 UJ	6200 UJ	62000 UJ	5200 UJ	6700 UJ	2500 UJ	2500 UJ
N-Nitrosodiphenylamine	µg/Kg	360 UJ	360 UJ	2500 UJ	25000 UJ	2100 UJ	2800 UJ	1000 UJ	1000 UJ
4-Bromophenyl-phenylether	µg/Kg	360 UJ	360 UJ	2500 UJ	25000 UJ	2100 UJ	2800 UJ	1000 UJ	1000 UJ
Hexachlorobenzene	µg/Kg	360 UJ	360 UJ	2500 UJ	25000 UJ	2100 UJ	2800 UJ	1000 UJ	1000 UJ
Pentachlorophenol	µg/Kg	870 UJ	880 UJ	6200 UJ	62000 UJ	5200 UJ	6700 UJ	2500 UJ	2500 UJ
Phenanthrene	µg/Kg	360 UJ	360 UJ	160 J	820 J	15000 J	2600 J	320 J	240 J
Anthracene	µg/Kg	360 UJ	360 UJ	2500 UJ	25000 UJ	2900 J	680 J	95 J	79 J
Carbazole	µg/Kg	360 UJ	360 UJ	2500 UJ	25000 UJ	18000 J	1300 J	430 J	180 J
Di-n-butylphthalate	µg/Kg	390 J	90 J	82 J	25000 UJ	200 J	320 J	1000 UJ	1000 UJ
Fluoranthene	µg/Kg	360 UJ	18 J	240 J	1300 J	15000 J	4300 J	410 J	460 J
Pyrene	µg/Kg	360 UJ	13 J	270 J	1100 J	14000 J	3800 J	500 J	340 J
Butylbenzylphthalate	µg/Kg	14 J	14 J	2500 UJ	25000 UJ	300 J	300 J	1000 UJ	1000 UJ
3,3'-Dichlorobenzidine	µg/Kg	360 UJ	360 UJ	2500 UJ	25000 UJ	2100 UJ	2800 UJ	1000 UJ	1000 UJ
Benzo(a)anthracene	µg/Kg	360 UJ	360 UJ	140 J	25000 UJ	8000 J	2200 J	250 J	200 J
Chrysene	µg/Kg	360 UJ	360 UJ	170 J	25000 UJ	8600 J	2400 J	300 J	230 J
bis(2-Ethylhexyl)phthalate	µg/Kg	1500	1200 J	33000 J	230000 J	13000 J	21000 J	3000 J	5800 J
Di-n-octylphthalate	µg/Kg	360 UJ	360 UJ	2500 UJ	25000 UJ	2100 UJ	2800 UJ	1000 UJ	1000 UJ
Benzo(b)fluoranthene	µg/Kg	360 UJ	360 UJ	170 J	25000 UJ	7200 J	1900 J	260 J	250 J
Benzo(k)fluoranthene	µg/Kg	360 UJ	360 UJ	160 J	25000 UJ	5900 J	1600 J	290 J	200 J
Benzo(a)pyrene	µg/Kg	360 UJ	360 UJ	94 J	25000 UJ	6400 J	1800 J	210 J	210 J
Indeno(1,2,3-cd)pyrene	µg/Kg	360 UJ	360 UJ	120 J	25000 UJ	4700 J	1400 J	200 J	150 J
Dibenz(a,h)anthracene	µg/Kg	360 UJ	360 UJ	2500 UJ	25000 UJ	2100 J	480 J	1000 UJ	1000 UJ
Benzo(g,h,i)perylene	µg/Kg	360 UJ	360 UJ	2500 UJ	25000 UJ	2300 J	950 J	260 J	140 J

SENECA ARMY DEPOT, ASH LANDFILL
SOIL ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	B-42	B-42	B-43	B-43	B-43	B-43	B-43	B-43
	DEPTH(FT.)	6-7.2	6-7.2	0-2	0-2	2-4	2-4	4-6	4-6
	DATE	12/09/92	12/09/92	12/09/92	12/09/92	12/09/92	12/09/92	12/09/92	12/09/92
	ES ID	B42-4	B42-4RE	B43-1	B43-1RE	B43-2	B43-2RE	B43-3	B43-3RE
	LAB ID	176008	176008R2	176009	176009R1	176010	176010R1	176011	176011R1
COMPOUND	UNITS								
VOCs									
Pesticides/PCBs									
alpha-BHC	µg/Kg	1.9 UJ	NS	2 UJ	NS	11 U	NS	2.1 U	NS
beta-BHC	µg/Kg	1.9 UJ	NS	2 UJ	NS	11 U	NS	2.1 U	NS
delta-BHC	µg/Kg	1.9 UJ	NS	2 UJ	NS	11 U	NS	2.1 U	NS
gamma-BHC (Lindane)	µg/Kg	1.9 UJ	NS	2 UJ	NS	11 U	NS	2.1 U	NS
Heptachlor	µg/Kg	1.9 UJ	NS	2 UJ	NS	11 U	NS	2.1 U	NS
Aldrin	µg/Kg	1.9 UJ	NS	2 UJ	NS	11 U	NS	2.1 U	NS
Heptachlor epoxide	µg/Kg	1.9 UJ	NS	2 UJ	NS	11 U	NS	2.1 U	NS
Endosulfan I	µg/Kg	1.9 UJ	NS	2 UJ	NS	11 U	NS	2.1 U	NS
Dieldrin	µg/Kg	3.6 UJ	NS	3.9 UJ	NS	21 U	NS	4.2 U	NS
4,4'-DDE	µg/Kg	3.6 UJ	NS	17 J	NS	64	NS	22	NS
Endrin	µg/Kg	3.6 UJ	NS	3.9 UJ	NS	21 U	NS	4.2 U	NS
Endosulfan II	µg/Kg	3.6 UJ	NS	3.9 UJ	NS	21 U	NS	4.2 U	NS
4,4'-DDD	µg/Kg	3.6 UJ	NS	16 J	NS	88	NS	24	NS
Endosulfan sulfate	µg/Kg	3.6 UJ	NS	3.9 UJ	NS	21 U	NS	4.2 U	NS
4,4'-DDT	µg/Kg	3.6 UJ	NS	5.5 J	NS	22 J	NS	6.7 J	NS
Methoxychlor	µg/Kg	19 UJ	NS	20 UJ	NS	110 U	NS	21 U	NS
Endrin ketone	µg/Kg	3.6 UJ	NS	3.9 UJ	NS	21 U	NS	4.2 U	NS
Endrin aldehyde	µg/Kg	3.6 UJ	NS	3.9 UJ	NS	21 U	NS	4.2 U	NS
alpha-Chlordane	µg/Kg	1.9 UJ	NS	1.3 UJ	NS	8 J	NS	5 J	NS
gamma-Chlordane	µg/Kg	1.9 UJ	NS	2 UJ	NS	11 U	NS	2.1 U	NS
Toxaphene	µg/Kg	190 UJ	NS	200 UJ	NS	1100 U	NS	210 U	NS
Aroclor-1016	µg/Kg	36 UJ	NS	39 UJ	NS	210 U	NS	42 U	NS
Aroclor-1221	µg/Kg	73 UJ	NS	79 UJ	NS	430 U	NS	85 U	NS
Aroclor-1232	µg/Kg	36 UJ	NS	39 UJ	NS	210 U	NS	42 U	NS
Aroclor-1242	µg/Kg	36 UJ	NS	45 J	NS	260	NS	96	NS
Aroclor-1248	µg/Kg	36 UJ	NS	39 UJ	NS	210 U	NS	42 U	NS
Aroclor-1254	µg/Kg	36 UJ	NS	43 J	NS	180 J	NS	66	NS
Aroclor-1260	µg/Kg	36 UJ	NS	39 UJ	NS	210 U	NS	42 U	NS
Herbicides									
2,4-D	µg/Kg	55 U	NS	58 U	NS	64 U	NS	63 U	NS
2,4-DB	µg/Kg	55 U	NS	58 U	NS	64 U	NS	63 U	NS
2,4,5-T	µg/Kg	5.5 U	NS	5.8 U	NS	6.4 U	NS	6.3 U	NS
2,4,5-TP (Silvex)	µg/Kg	5.5 U	NS	5.8 U	NS	6.4 U	NS	6.3 U	NS
Dalapon	µg/Kg	130 U	NS	140 U	NS	150 U	NS	150 U	NS
Dicamba	µg/Kg	5.5 U	NS	5.8 U	NS	6.4 U	NS	6.3 U	NS
Dichloroprop	µg/Kg	55 U	NS	58 U	NS	64 U	NS	63 U	NS
Dinoseb	µg/Kg	27 U	NS	29 U	NS	32 U	NS	31 U	NS
MCPA	µg/Kg	5500 U	NS	5800 U	NS	6400 U	NS	6300 U	NS
MCPP	µg/Kg	5500 U	NS	5800 U	NS	6400 U	NS	6300 U	NS
Metals									
Aluminum	mg/Kg	12900	NS	13600	NS	11100	NS	16300	NS
Antimony	mg/Kg	7.7 UJ	NS	8.5 UJ	NS	10.2 UJ	NS	7.8 UJ	NS
Arsenic	mg/Kg	3.9	NS	7.4	NS	8.4	NS	7.5	NS
Barium	mg/Kg	61	NS	116	NS	114	NS	166	NS
Beryllium	mg/Kg	0.57 J	NS	0.57 J	NS	0.44 J	NS	0.55 J	NS
Cadmium	mg/Kg	0.44 U	NS	1.8	NS	11.4	NS	3.9	NS
Calcium	mg/Kg	65200	NS	37700	NS	21100	NS	54400	NS
Chromium	mg/Kg	21.9	NS	33.6	NS	35.6	NS	36.8	NS
Cobalt	mg/Kg	11.9	NS	10.6	NS	21.6	NS	12.2	NS
Copper	mg/Kg	24.4	NS	79.4	NS	91.8	NS	89.3	NS
Iron	mg/Kg	25100	NS	35000	NS	65100	NS	67500	NS
Lead	mg/Kg	17.3	NS	151	NS	2610	NS	233	NS
Magnesium	mg/Kg	9910	NS	8830	NS	4900	NS	9960	NS
Manganese	mg/Kg	435	NS	476	NS	405	NS	860	NS
Mercury	mg/Kg	0.04 J	NS	0.42	NS	0.38	NS	0.38	NS
Nickel	mg/Kg	38.5	NS	38.5	NS	43.3	NS	51	NS
Potassium	mg/Kg	1460	NS	1250	NS	1140	NS	1420	NS
Selenium	mg/Kg	0.67 J	NS	1 J	NS	1.2	NS	0.82 J	NS
Silver	mg/Kg	0.45 U	NS	0.83 J	NS	1.3 J	NS	0.9 J	NS
Sodium	mg/Kg	119 J	NS	98.5 J	NS	118 J	NS	216 J	NS
Thallium	mg/Kg	0.45 U	NS	0.55 U	NS	0.35 U	NS	0.54 U	NS
Vanadium	mg/Kg	19.4	NS	26.1	NS	20.5	NS	29.3	NS
Zinc	mg/Kg	61.5	NS	745	NS	1410	NS	3100	NS
Cyanide	mg/Kg	0.55 U	NS	0.59 U	NS	0.62 U	NS	0.95	NS

SENECA ARMY DEPOT, ASH LANDFILL
SOIL ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

COMPOUND	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	B-43	B-43	B-44	B-44	B-44	B-44	B-44	B-44
	DEPTH(FT.)	8-10	8-10	8-8.2	8-8.2	0-2	0-2	2-4	2-4
	DATE	12/09/92	12/09/92	12/10/92	12/10/92	12/10/92	12/10/92	12/10/92	12/10/92
	ES ID	B43-4	B43-4RE	B44A-3	B44A-3RE	B44B-1	B44B-1RE	B44B-2	B44B-2RE
	LAB ID	176012	176012R1	176013	176013R1	176014	176014R1	176015	176015R1
	UNITS								
VOCs									
Chloromethane	µg/Kg	13 UJ	13 UJ	12 UJ	12 U	12 U	NS	12 U	12 U
Bromomethane	µg/Kg	13 UJ	13 UJ	12 UJ	12 U	12 U	NS	12 U	12 U
Vinyl Chloride	µg/Kg	13 UJ	13 UJ	12 UJ	12 U	12 U	NS	12 U	12 U
Chloroethane	µg/Kg	13 UJ	13 UJ	12 UJ	12 U	12 U	NS	12 U	12 U
Methylene Chloride	µg/Kg	13 UJ	13 UJ	12 UJ	12 U	12 U	NS	12 U	12 U
Acetone	µg/Kg	24 UJ	14 UJ	93 J	19 J	12 U	NS	12 U	12 U
Carbon Disulfide	µg/Kg	13 UJ	13 UJ	12 UJ	12 U	12 U	NS	12 U	12 U
1,1-Dichloroethene	µg/Kg	13 UJ	13 UJ	12 UJ	12 U	12 U	NS	12 U	12 U
1,1-Dichloroethane	µg/Kg	13 UJ	13 UJ	12 UJ	12 U	12 U	NS	12 U	12 U
1,2-Dichloroethene (total)	µg/Kg	13 UJ	13 UJ	5 J	12 U	12 U	NS	12 U	12 U
Chloroform	µg/Kg	13 UJ	13 UJ	12 UJ	12 U	12 U	NS	12 U	12 U
1,2-Dichloroethane	µg/Kg	13 UJ	13 UJ	12 UJ	12 U	12 U	NS	12 U	12 U
2-Butanone	µg/Kg	13 UJ	13 UJ	16 J	6 J	12 U	NS	12 U	12 U
1,1,1-Trichloroethane	µg/Kg	13 UJ	13 UJ	12 UJ	12 U	12 U	NS	12 U	12 U
Carbon Tetrachloride	µg/Kg	13 UJ	13 UJ	12 UJ	12 U	12 U	NS	12 U	12 U
Vinyl acetate	µg/Kg	NS	NS	NS	NS	NS	NS	NS	NS
Bromodichloromethane	µg/Kg	13 UJ	13 UJ	12 UJ	12 U	12 U	NS	12 U	12 U
1,2-Dichloropropane	µg/Kg	13 UJ	13 UJ	12 UJ	12 U	12 U	NS	12 U	12 U
cis-1,3-Dichloropropene	µg/Kg	13 UJ	13 UJ	12 UJ	12 U	12 U	NS	12 U	12 U
Trichloroethene	µg/Kg	15 J	15 J	5 J	5 J	12 U	NS	12 U	2 J
Dibromochloromethane	µg/Kg	13 UJ	13 UJ	12 UJ	12 U	12 U	NS	12 U	12 U
1,1,2-Trichloroethane	µg/Kg	13 UJ	13 UJ	12 UJ	12 U	12 U	NS	12 U	12 U
Benzene	µg/Kg	13 UJ	13 UJ	12 UJ	12 U	12 U	NS	12 U	12 U
trans-1,3-Dichloropropene	µg/Kg	13 UJ	13 UJ	12 UJ	12 U	12 U	NS	12 U	12 U
Bromoform	µg/Kg	13 UJ	13 UJ	12 UJ	12 U	12 U	NS	12 U	12 U
4-Methyl-2-Pentanone	µg/Kg	13 UJ	13 UJ	12 UJ	12 U	12 U	NS	12 U	12 U
2-Hexanone	µg/Kg	13 UJ	13 UJ	12 UJ	12 U	12 U	NS	12 U	12 U
Tetrachloroethene	µg/Kg	13 UJ	13 UJ	12 UJ	12 U	12 U	NS	12 U	12 U
1,1,2,2-Tetrachloroethane	µg/Kg	13 UJ	13 UJ	12 UJ	12 U	12 U	NS	12 U	12 U
Toluene	µg/Kg	2 J	2 J	10 J	10 J	12 U	NS	12 U	12 U
Chlorobenzene	µg/Kg	13 UJ	13 UJ	12 UJ	12 U	12 U	NS	12 U	12 U
Ethylbenzene	µg/Kg	13 UJ	13 UJ	48 J	44 J	12 U	NS	12 U	12 U
Styrene	µg/Kg	13 UJ	13 UJ	12 UJ	12 U	12 U	NS	12 U	12 U
Xylene (total)	µg/Kg	13 UJ	13 UJ	250 J	240 J	12 U	NS	12 U	12 U

SENECA ARMY DEPOT, ASH LANDFILL
SOIL ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	B-43	B-43	B-44	B-44	B-44	B-44	B-44	B-44
	DEPTH(FT.)	8-10	8-10	8-8.2	8-8.2	0-2	0-2	2-4	2-4
	DATE	12/09/92	12/09/92	12/10/92	12/10/92	12/10/92	12/10/92	12/10/92	12/10/92
	ES ID	B43-4	B43-4RE	B44A-3	B44A-3RE	B44B-1	B44B-1RE	B44B-2	B44B-2RE
	LAB ID	176012	176012R1	176013	176013R1	176014	176014R1	176015	176015R1
COMPOUND	UNITS								
VOCs									
Semivolatiles									
Phenol	µg/Kg	5800 UJ	7000 UJ	1000 UJ	5100 UJ	410 UJ	420 UJ	400 UJ	400 UJ
bis(2-Chloroethyl) ether	µg/Kg	5800 UJ	7000 UJ	1000 UJ	5100 UJ	410 UJ	420 UJ	400 UJ	400 UJ
2-Chlorophenol	µg/Kg	5800 UJ	7000 UJ	1000 UJ	5100 UJ	410 UJ	420 UJ	400 UJ	400 UJ
1,3-Dichlorobenzene	µg/Kg	5800 UJ	7000 UJ	1000 UJ	5100 UJ	410 UJ	420 UJ	400 UJ	400 UJ
1,4-Dichlorobenzene	µg/Kg	5800 UJ	7000 UJ	1000 UJ	5100 UJ	410 UJ	420 UJ	400 UJ	400 UJ
Benzyl alcohol	µg/Kg	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dichlorobenzene	µg/Kg	5800 UJ	7000 UJ	1000 UJ	5100 UJ	410 UJ	420 UJ	400 UJ	400 UJ
2-Methylphenol	µg/Kg	5800 UJ	7000 UJ	1000 UJ	5100 UJ	410 UJ	420 UJ	400 UJ	400 UJ
2,2'-oxybis(1-Chloropropane)	µg/Kg	5800 UJ	7000 UJ	1000 UJ	5100 UJ	410 UJ	420 UJ	400 UJ	400 UJ
4-Methylphenol	µg/Kg	5800 UJ	7000 UJ	1000 UJ	5100 UJ	410 UJ	420 UJ	400 UJ	400 UJ
N-Nitroso-di-n-propylamine	µg/Kg	5800 UJ	7000 UJ	1000 UJ	5100 UJ	410 UJ	420 UJ	400 UJ	400 UJ
Hexachloroethane	µg/Kg	5800 UJ	7000 UJ	1000 UJ	5100 UJ	410 UJ	420 UJ	400 UJ	400 UJ
Nitrobenzene	µg/Kg	5800 UJ	7000 UJ	1000 UJ	5100 UJ	410 UJ	420 UJ	400 UJ	400 UJ
Isophorone	µg/Kg	5800 UJ	7000 UJ	1000 UJ	5100 UJ	410 UJ	420 UJ	400 UJ	400 UJ
2-Nitrophenol	µg/Kg	5800 UJ	7000 UJ	1000 UJ	5100 UJ	410 UJ	420 UJ	400 UJ	400 UJ
2,4-Dimethylphenol	µg/Kg	5800 UJ	7000 UJ	1000 UJ	5100 UJ	410 UJ	420 UJ	400 UJ	400 UJ
Benzoic acid	µg/Kg	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroethoxy) methane	µg/Kg	5800 UJ	7000 UJ	1000 UJ	5100 UJ	410 UJ	420 UJ	400 UJ	400 UJ
2,4-Dichlorophenol	µg/Kg	5800 UJ	7000 UJ	1000 UJ	5100 UJ	410 UJ	420 UJ	400 UJ	400 UJ
1,2,4-Trichlorobenzene	µg/Kg	5800 UJ	7000 UJ	1000 UJ	5100 UJ	410 UJ	420 UJ	400 UJ	400 UJ
Naphthalene	µg/Kg	1300 J	770 J	150 J	5100 UJ	410 UJ	420 UJ	400 UJ	100 J
4-Chloroaniline	µg/Kg	5800 UJ	7000 UJ	1000 UJ	5100 UJ	410 UJ	420 UJ	400 UJ	400 UJ
Hexachlorobutadiene	µg/Kg	5800 UJ	7000 UJ	1000 UJ	5100 UJ	410 UJ	420 UJ	400 UJ	400 UJ
4-Chloro-3-methylphenol	µg/Kg	5800 UJ	7000 UJ	1000 UJ	5100 UJ	410 UJ	420 UJ	400 UJ	400 UJ
2-Methylnaphthalene	µg/Kg	1600 J	1300 J	66 J	5100 UJ	410 UJ	420 UJ	400 UJ	100 J
Hexachlorocyclopentadiene	µg/Kg	5800 UJ	7000 UJ	1000 UJ	5100 UJ	410 UJ	420 UJ	400 UJ	400 UJ
2,4,6-Trichlorophenol	µg/Kg	5800 UJ	7000 UJ	1000 UJ	5100 UJ	410 UJ	420 UJ	400 UJ	400 UJ
2,4,5-Trichlorophenol	µg/Kg	14000 UJ	17000 UJ	2500 UJ	12000 UJ	1000 UJ	1000 UJ	970 UJ	980 UJ
2-Chloronaphthalene	µg/Kg	5800 UJ	7000 UJ	1000 UJ	5100 UJ	410 UJ	420 UJ	400 UJ	400 UJ
2-Nitroaniline	µg/Kg	14000 UJ	17000 UJ	2500 UJ	12000 UJ	1000 UJ	1000 UJ	970 UJ	980 UJ
Dimethylphthalate	µg/Kg	5800 UJ	7000 UJ	1000 UJ	5100 UJ	410 UJ	420 UJ	400 UJ	400 UJ
Acenaphthylene	µg/Kg	5800 UJ	7000 UJ	1000 UJ	5100 UJ	410 UJ	13 J	400 UJ	76 J
2,6-Dinitrotoluene	µg/Kg	5800 UJ	7000 UJ	1000 UJ	5100 UJ	410 UJ	420 UJ	400 UJ	400 UJ
3-Nitroaniline	µg/Kg	14000 UJ	17000 UJ	2500 UJ	12000 UJ	1000 UJ	1000 UJ	970 UJ	980 UJ
Acenaphthene	µg/Kg	9500 J	14000 J	120 J	5100 UJ	18 J	420 UJ	400 UJ	280 J
2,4-Dinitrophenol	µg/Kg	14000 UJ	17000 UJ	2500 UJ	12000 UJ	1000 UJ	1000 UJ	970 UJ	980 UJ
4-Nitrophenol	µg/Kg	14000 UJ	17000 UJ	2500 UJ	12000 UJ	1000 UJ	1000 UJ	970 UJ	980 UJ
Dibenzofuran	µg/Kg	5600 J	7000 J	71 J	5100 UJ	410 UJ	420 UJ	400 UJ	120 J
2,4-Dinitrotoluene	µg/Kg	5800 UJ	7000 UJ	1000 UJ	5100 UJ	410 UJ	420 UJ	400 UJ	400 UJ
Diethylphthalate	µg/Kg	5800 UJ	7000 UJ	1000 UJ	5100 UJ	410 UJ	420 UJ	400 UJ	400 UJ
4-Chlorophenyl-phenylether	µg/Kg	5800 UJ	7000 UJ	1000 UJ	5100 UJ	410 UJ	420 UJ	400 UJ	400 UJ
Fluorene	µg/Kg	12000 J	11000 J	130 J	5100 UJ	17 J	420 UJ	400 UJ	250 J
4-Nitroaniline	µg/Kg	14000 UJ	17000 UJ	2500 UJ	12000 UJ	1000 UJ	1000 UJ	970 UJ	980 UJ
4,6-Dinitro-2-methylphenol	µg/Kg	14000 UJ	17000 UJ	2500 UJ	12000 UJ	1000 UJ	1000 UJ	970 UJ	980 UJ
N-Nitrosodiphenylamine	µg/Kg	5800 UJ	7000 UJ	1000 UJ	5100 UJ	410 UJ	420 UJ	400 UJ	400 UJ
4-Bromophenyl-phenylether	µg/Kg	5800 UJ	7000 UJ	1000 UJ	5100 UJ	410 UJ	420 UJ	400 UJ	400 UJ
Hexachlorobenzene	µg/Kg	5800 UJ	7000 UJ	1000 UJ	5100 UJ	410 UJ	420 UJ	400 UJ	400 UJ
Pentachlorophenol	µg/Kg	14000 UJ	17000 UJ	2500 UJ	12000 UJ	1000 UJ	1000 UJ	970 UJ	980 UJ
Phenanthrene	µg/Kg	43000 J	35000 J	610 J	850 J	140 J	93 J	87 J	2000 J
Anthracene	µg/Kg	13000 J	15000 J	140 J	260 J	32 J	22 J	14 J	550 J
Carbazole	µg/Kg	37000 J	14000 J	660 J	350 J	200 J	38 J	110 J	1400 J
Di-n-butylphthalate	µg/Kg	5800 UJ	7000 UJ	120 J	25000 J	40 J	420 UJ	18 J	400 UJ
Fluoranthene	µg/Kg	25000 J	29000 J	440 J	1000 J	200 J	220 J	120 J	2600 J
Pyrene	µg/Kg	24000 J	16000 J	510 J	820 J	180 J	160 J	140 J	2200 J
Butylbenzylphthalate	µg/Kg	5800 UJ	7000 UJ	1000 UJ	5100 UJ	410 UJ	420 UJ	400 UJ	400 UJ
3,3'-Dichlorobenzidine	µg/Kg	5800 UJ	7000 UJ	1000 UJ	5100 UJ	410 UJ	420 UJ	400 UJ	400 UJ
Benzo(a)anthracene	µg/Kg	5600 J	4300 J	250 J	470 J	97 J	88 J	62 J	1400 J
Chrysene	µg/Kg	5700 J	4100 J	250 J	520 J	110 J	130 J	81 J	1500 J
bis(2-Ethylhexyl)phthalate	µg/Kg	5800 J	3500 J	610 J	25000 J	410 UJ	420 UJ	400 UJ	400 UJ
Di-n-octylphthalate	µg/Kg	5800 UJ	7000 UJ	1000 UJ	5100 UJ	410 UJ	420 UJ	400 UJ	400 UJ
Benzo(b)fluoranthene	µg/Kg	2700 J	1400 J	210 J	5100 UJ	110 J	120 J	88 J	1500 J
Benzo(k)fluoranthene	µg/Kg	2600 J	1400 J	230 J	5100 UJ	99 J	100 J	81 J	1200 J
Benzo(a)pyrene	µg/Kg	2100 J	1200 J	170 J	350 J	97 J	82 J	51 J	1200 J
Indeno(1,2,3-cd)pyrene	µg/Kg	1000 J	450 J	150 J	250 J	79 J	70 J	62 J	610 J
Dibenz(a,h)anthracene	µg/Kg	5800 UJ	7000 UJ	1000 UJ	5100 UJ	23 J	420 UJ	400 UJ	270 J
Benzo(g,h,i)perylene	µg/Kg	590 J	7000 UJ	130 J	280 J	57 J	60 J	44 J	430 J

SENECA ARMY DEPOT, ASH LANDFILL
SOIL ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	B-43	B-43	B-44	B-44	B-44	B-44	B-44	B-44
	DEPTH(FT.)	8-10	8-10	8-8.2	8-8.2	0-2	0-2	2-4	2-4
	DATE	12/09/92	12/09/92	12/10/92	12/10/92	12/10/92	12/10/92	12/10/92	12/10/92
	ES ID	B43-4	B43-4RE	B44A-3	B44A-3RE	B44B-1	B44B-1RE	B44B-2	B44B-2RE
	LAB ID	176012	176012R1	176013	176013R1	176014	176014R1	176015	176015R1
COMPOUND	UNITS								
VOCs									
Pesticides/PCBs									
alpha-BHC	µg/Kg	2.1 U	NS	4.2 U	NS	2.1 U	NS	2.1 U	NS
beta-BHC	µg/Kg	2.1 U	NS	4.2 U	NS	2.1 U	NS	2.1 U	NS
delta-BHC	µg/Kg	2.1 U	NS	4.2 U	NS	2.1 U	NS	2.1 U	NS
gamma-BHC (Lindane)	µg/Kg	2.1 U	NS	4.2 U	NS	2.1 U	NS	2.1 U	NS
Heptachlor	µg/Kg	2.1 U	NS	4.2 U	NS	2.1 U	NS	2.1 U	NS
Aldrin	µg/Kg	2.1 U	NS	4.2 U	NS	2.1 U	NS	2.1 U	NS
Heptachlor epoxide	µg/Kg	2.1 U	NS	4.2 U	NS	2.1 U	NS	2.1 U	NS
Endosulfan I	µg/Kg	2.1 U	NS	4.2 U	NS	2.1 U	NS	2.1 U	NS
Dieldrin	µg/Kg	4.1 U	NS	8.1 U	NS	4.1 U	NS	4 U	NS
4,4'-DDE	µg/Kg	7.8 J	NS	37	NS	2.9 J	NS	14	NS
Endrin	µg/Kg	8.2 J	NS	8.1 U	NS	2 J	NS	4 U	NS
Endosulfan II	µg/Kg	4.1 U	NS	8.1 U	NS	4.1 U	NS	4 U	NS
4,4'-DDD	µg/Kg	11 J	NS	34	NS	4.1 U	NS	17	NS
Endosulfan sulfate	µg/Kg	2.8 J	NS	8.1 U	NS	4.1 U	NS	4 U	NS
4,4'-DDT	µg/Kg	4.1 J	NS	7.6 J	NS	4.1 U	NS	14	NS
Methoxychlor	µg/Kg	4.4 J	NS	42 U	NS	21 U	NS	21 U	NS
Endrin ketone	µg/Kg	4.1 U	NS	8.1 U	NS	4.1 U	NS	4 U	NS
Endrin aldehyde	µg/Kg	4.1 U	NS	8.1 U	NS	4.1 U	NS	4 U	NS
alpha-Chlordane	µg/Kg	15 J	NS	2 J	NS	5 J	NS	3.2 J	NS
gamma-Chlordane	µg/Kg	2.1 U	NS	4.2 U	NS	2.1 U	NS	2.1 U	NS
Toxaphene	µg/Kg	210 U	NS	420 U	NS	210 U	NS	210 U	NS
Aroclor-1016	µg/Kg	41 U	NS	81 U	NS	41 U	NS	40 U	NS
Aroclor-1221	µg/Kg	83 U	NS	160 U	NS	84 U	NS	82 U	NS
Aroclor-1232	µg/Kg	41 U	NS	81 U	NS	41 U	NS	40 U	NS
Aroclor-1242	µg/Kg	68 J	NS	50 J	NS	41 U	NS	40 U	NS
Aroclor-1248	µg/Kg	41 U	NS	81 U	NS	41 U	NS	40 U	NS
Aroclor-1254	µg/Kg	90 J	NS	89	NS	41 U	NS	40 U	NS
Aroclor-1260	µg/Kg	41 U	NS	81 U	NS	41 U	NS	40 U	NS
Herbicides									
2,4-D	µg/Kg	62 U	NS	NS	NS	62 U	NS	61 U	NS
2,4-DB	µg/Kg	62 U	NS	NS	NS	62 U	NS	61 U	NS
2,4,5-T	µg/Kg	6.2 U	NS	NS	NS	6.2 U	NS	6.1 U	NS
2,4,5-TP (Silvex)	µg/Kg	6.2 U	NS	NS	NS	6.2 U	NS	6.1 U	NS
Dalapon	µg/Kg	150 U	NS	NS	NS	150 U	NS	150 U	NS
Dicamba	µg/Kg	6.2 U	NS	NS	NS	6.2 U	NS	6.1 U	NS
Dichloroprop	µg/Kg	62 U	NS	NS	NS	62 U	NS	61 U	NS
Dinoseb	µg/Kg	31 U	NS	NS	NS	31 U	NS	30 U	NS
MCPA	µg/Kg	6200 U	NS	NS	NS	6200 U	NS	6100 U	NS
MCPP	µg/Kg	6200 U	NS	NS	NS	6200 U	NS	6100 U	NS
Metals									
Aluminum	mg/Kg	13500	NS	11600	NS	15000	NS	13400	NS
Antimony	mg/Kg	13.5 UJ	NS	8.5 UJ	NS	10.7 UJ	NS	10.2 UJ	NS
Arsenic	mg/Kg	6.5	NS	6.1	NS	5.3	NS	5.4	NS
Barium	mg/Kg	108	NS	113	NS	73.3	NS	91	NS
Beryllium	mg/Kg	0.58 J	NS	0.44 J	NS	0.63 J	NS	0.68 J	NS
Cadmium	mg/Kg	7.8	NS	1.5	NS	0.61 U	NS	0.58 U	NS
Calcium	mg/Kg	38500	NS	37500	NS	9720	NS	36300	NS
Chromium	mg/Kg	35.1	NS	32	NS	35.8	NS	25.1	NS
Cobalt	mg/Kg	10.9 J	NS	9	NS	12.3	NS	11.8	NS
Copper	mg/Kg	68.1	NS	224	NS	24.2	NS	27.9	NS
Iron	mg/Kg	60800	NS	46700	NS	28700	NS	26100	NS
Lead	mg/Kg	150	NS	250	NS	21.1	NS	31.8	NS
Magnesium	mg/Kg	7940	NS	9020	NS	6190	NS	9120	NS
Manganese	mg/Kg	792	NS	585	NS	634	NS	583	NS
Mercury	mg/Kg	0.26	NS	0.65	NS	0.04 J	NS	0.07	NS
Nickel	mg/Kg	42.8	NS	35.3	NS	46.8	NS	37.7	NS
Potassium	mg/Kg	1440	NS	1340	NS	1220	NS	982	NS
Selenium	mg/Kg	0.77 J	NS	1.1 J	NS	0.7 J	NS	0.58 J	NS
Silver	mg/Kg	1.8 J	NS	2.4	NS	0.63 U	NS	0.6 U	NS
Sodium	mg/Kg	127 J	NS	1010	NS	58.9 U	NS	136 J	NS
Thallium	mg/Kg	0.85 U	NS	0.59 U	NS	0.44 U	NS	0.37 U	NS
Vanadium	mg/Kg	26.1	NS	18.2	NS	22.9	NS	25.1	NS
Zinc	mg/Kg	1710	NS	525	NS	75.7	NS	102	NS
Cyanide	mg/Kg	0.77 U	NS	0.74 U	NS	0.75 U	NS	0.74 U	NS

SENECA ARMY DEPOT, ASH LANDFILL
SOIL ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

COMPOUND	MATRIX LOCATION DEPTH(FT.) DATE ES ID LAB ID UNITS	SOIL B-44 8-10 12/10/92 B44B-3 176016	SOIL B-44 8-10 12/10/92 B44B-3RE 176016R1	SOIL B-44 12-13.5 12/10/92 B44B-4 176017	SOIL B-44 12-13.5 12/10/92 B44B-4RE 176017R1	SOIL B-45 0-2 04/28/93 B45-1 183170	SOIL B-45 2-4 04/28/93 B45-2 183171	SOIL B-45 4-6 04/28/93 B45-3 183172	SOIL B-45 4-6 04/28/93 B45-6 183173 DUP B45-3
VOCs									
Chloromethane	µg/Kg	12 U	NS	11 U	NS	12 U	12 U	12 U	12 U
Bromomethane	µg/Kg	12 U	NS	11 U	NS	12 U	12 U	12 U	12 U
Vinyl Chloride	µg/Kg	12 U	NS	11 U	NS	12 U	12 U	12 U	12 U
Chloroethane	µg/Kg	12 U	NS	11 U	NS	12 U	12 U	12 U	12 U
Methylene Chloride	µg/Kg	12 U	NS	11 U	NS	12 U	12 U	12 U	1 J
Acetone	µg/Kg	45	NS	11 U	NS	12 U	12 U	12 U	12 U
Carbon Disulfide	µg/Kg	12 U	NS	11 U	NS	12 U	12 U	12 U	12 U
1,1-Dichloroethene	µg/Kg	12 U	NS	14	NS	12 U	12 U	12 U	12 U
1,1-Dichloroethane	µg/Kg	12 U	NS	11 U	NS	12 U	12 U	12 U	12 U
1,2-Dichloroethene (total)	µg/Kg	2 J	NS	36	NS	3 J	3 J	210 J	4 J
Chloroform	µg/Kg	12 U	NS	11 U	NS	12 U	12 U	12 U	12 U
1,2-Dichloroethane	µg/Kg	12 U	NS	11 U	NS	12 U	12 U	12 U	12 U
2-Butanone	µg/Kg	6 J	NS	11 U	NS	12 U	12 U	12 U	12 U
1,1,1-Trichloroethane	µg/Kg	12 U	NS	11 U	NS	12 U	12 U	12 U	12 U
Carbon Tetrachloride	µg/Kg	12 U	NS	11 U	NS	12 U	12 U	12 U	12 U
Vinyl acetate	µg/Kg	NS	NS	NS	NS	NS	NS	NS	NS
Bromodichloromethane	µg/Kg	12 U	NS	11 U	NS	12 U	12 U	12 U	12 U
1,2-Dichloropropane	µg/Kg	12 U	NS	11 U	NS	12 U	12 U	12 U	12 U
cis-1,3-Dichloropropene	µg/Kg	12 U	NS	11 U	NS	12 U	12 U	12 U	12 U
Trichloroethene	µg/Kg	12 U	NS	11 U	NS	12 U	12 U	71 J	12 U
Dibromochloromethane	µg/Kg	12 U	NS	11 U	NS	12 U	12 U	12 U	12 U
1,1,2-Trichloroethane	µg/Kg	12 U	NS	11 U	NS	12 U	12 U	12 U	12 U
Benzene	µg/Kg	12 U	NS	11 U	NS	12 U	12 U	12 U	12 U
trans-1,3-Dichloropropene	µg/Kg	12 U	NS	11 U	NS	12 U	12 U	12 U	12 U
Bromoform	µg/Kg	12 U	NS	11 U	NS	12 U	12 U	12 U	12 U
4-Methyl-2-Pentanone	µg/Kg	12 U	NS	11 U	NS	12 U	12 U	12 U	12 U
2-Hexanone	µg/Kg	12 U	NS	11 U	NS	12 U	12 U	12 U	12 U
Tetrachloroethene	µg/Kg	12 U	NS	11 U	NS	12 U	12 U	12 U	12 U
1,1,2,2-Tetrachloroethane	µg/Kg	12 U	NS	11 U	NS	12 U	12 U	12 U	12 U
Toluene	µg/Kg	12 U	NS	11 U	NS	12 U	12 U	12 U	12 U
Chlorobenzene	µg/Kg	12 U	NS	11 U	NS	12 U	12 U	12 U	12 U
Ethylbenzene	µg/Kg	12 U	NS	11 U	NS	12 U	12 U	12 U	12 U
Styrene	µg/Kg	12 U	NS	11 U	NS	12 U	12 U	12 U	12 U
Xylene (total)	µg/Kg	12 U	NS	11 U	NS	12 U	12 U	12 U	12 U

SENECA ARMY DEPOT, ASH LANDFILL
SOIL ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	B-44	B-44	B-44	B-44	B-45	B-45	B-45	B-45
	DEPTH(FT.)	8-10	8-10	12-13.5	12-13.5	0-2	2-4	4-6	4-6
	DATE	12/10/92	12/10/92	12/10/92	12/10/92	04/28/93	04/28/93	04/28/93	04/28/93
	ES ID	B44B-3	B44B-3RE	B44B-4	B44B-4RE	B45-1	B45-2	B45-3	B45-6
	LAB ID	176016	176016R1	176017	176017R1	183170	183171	183172	183173
COMPOUND	UNITS								DUP B45-3
VOCs									
Semivolatiles									
Phenol	µg/Kg	380 UJ	390 UJ	360 UJ	360 UJ	430 U	410 U	380 U	400 U
bis(2-Chloroethyl) ether	µg/Kg	380 UJ	390 UJ	360 UJ	360 UJ	430 U	410 U	380 U	400 U
2-Chlorophenol	µg/Kg	380 UJ	390 UJ	360 UJ	360 UJ	430 U	410 U	380 U	400 U
1,3-Dichlorobenzene	µg/Kg	380 UJ	390 UJ	360 UJ	360 UJ	430 U	410 U	380 U	400 U
1,4-Dichlorobenzene	µg/Kg	380 UJ	390 UJ	360 UJ	360 UJ	430 U	410 U	380 U	400 U
Benzyl alcohol	µg/Kg	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dichlorobenzene	µg/Kg	380 UJ	390 UJ	360 UJ	360 UJ	430 U	410 U	380 U	400 U
2-Methylphenol	µg/Kg	380 UJ	390 UJ	360 UJ	360 UJ	430 U	410 U	380 U	400 U
2,2'-oxybis(1-Chloropropane)	µg/Kg	380 UJ	390 UJ	360 UJ	360 UJ	430 U	410 U	380 U	400 U
4-Methylphenol	µg/Kg	380 UJ	390 UJ	360 UJ	360 UJ	430 U	410 U	380 U	400 U
N-Nitroso-di-n-propylamine	µg/Kg	380 UJ	390 UJ	360 UJ	360 UJ	430 U	410 U	380 U	400 U
Hexachloroethane	µg/Kg	380 UJ	390 UJ	360 UJ	360 UJ	430 U	410 U	380 U	400 U
Nitrobenzene	µg/Kg	380 UJ	390 UJ	360 UJ	360 UJ	430 U	410 U	380 U	400 U
Isophorone	µg/Kg	380 UJ	390 UJ	360 UJ	360 UJ	430 U	410 U	380 U	400 U
2-Nitrophenol	µg/Kg	380 UJ	390 UJ	360 UJ	360 UJ	430 U	410 U	380 U	400 U
2,4-Dimethylphenol	µg/Kg	380 UJ	390 UJ	360 UJ	360 UJ	430 U	410 U	380 U	400 U
Benzoic acid	µg/Kg	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroethoxy) methane	µg/Kg	380 UJ	390 UJ	360 UJ	360 UJ	430 U	410 U	380 U	400 U
2,4-Dichlorophenol	µg/Kg	380 UJ	390 UJ	360 UJ	360 UJ	430 U	410 U	380 U	400 U
1,2,4-Trichlorobenzene	µg/Kg	380 UJ	390 UJ	360 UJ	360 UJ	430 U	410 U	380 U	400 U
Naphthalene	µg/Kg	87 J	86 J	360 UJ	360 UJ	430 U	410 U	380 U	400 U
4-Chloroaniline	µg/Kg	380 UJ	390 UJ	360 UJ	360 UJ	430 U	410 U	380 U	400 U
Hexachlorobutadiene	µg/Kg	380 UJ	390 UJ	360 UJ	360 UJ	430 U	410 U	380 U	400 U
4-Chloro-3-methylphenol	µg/Kg	380 UJ	390 UJ	360 UJ	360 UJ	430 U	410 U	380 U	400 U
2-Methylnaphthalene	µg/Kg	33 J	48 J	360 UJ	360 UJ	430 U	410 U	380 U	400 U
Hexachlorocyclopentadiene	µg/Kg	380 UJ	390 UJ	360 UJ	360 UJ	430 U	410 U	380 U	400 U
2,4,6-Trichlorophenol	µg/Kg	380 UJ	390 UJ	360 UJ	360 UJ	430 U	410 U	380 U	400 U
2,4,5-Trichlorophenol	µg/Kg	930 UJ	950 UJ	860 UJ	870 UJ	1000 U	1000 U	930 U	970 U
2-Chloronaphthalene	µg/Kg	380 UJ	390 UJ	360 UJ	360 UJ	430 U	410 U	380 U	400 U
2-Nitroaniline	µg/Kg	930 UJ	950 UJ	860 UJ	870 UJ	1000 U	1000 U	930 U	970 U
Dimethylphthalate	µg/Kg	380 UJ	390 UJ	360 UJ	360 UJ	430 U	410 U	380 U	400 U
Acenaphthylene	µg/Kg	380 UJ	44 J	360 UJ	360 UJ	430 U	410 U	380 U	400 U
2,6-Dinitrotoluene	µg/Kg	380 UJ	390 UJ	360 UJ	360 UJ	430 U	410 U	380 U	400 U
3-Nitroaniline	µg/Kg	930 UJ	950 UJ	860 UJ	870 UJ	1000 U	1000 U	930 U	970 U
Acenaphthene	µg/Kg	120 J	140 J	360 UJ	360 UJ	430 U	410 U	380 U	400 U
2,4-Dinitrophenol	µg/Kg	930 UJ	950 UJ	860 UJ	870 UJ	1000 U	1000 U	930 U	970 U
4-Nitrophenol	µg/Kg	930 UJ	950 UJ	860 UJ	870 UJ	1000 U	1000 U	930 U	970 U
Dibenzofuran	µg/Kg	47 J	69 J	360 UJ	360 UJ	430 U	410 U	380 U	400 U
2,4-Dinitrotoluene	µg/Kg	380 UJ	390 UJ	360 UJ	360 UJ	430 U	410 U	380 U	400 U
Diethylphthalate	µg/Kg	380 UJ	390 UJ	360 UJ	360 UJ	430 U	410 U	380 U	400 U
4-Chlorophenyl-phenylether	µg/Kg	380 UJ	390 UJ	360 UJ	360 UJ	430 U	410 U	380 U	400 U
Fluorene	µg/Kg	89 J	130 J	360 UJ	360 UJ	430 U	410 U	380 U	400 U
4-Nitroaniline	µg/Kg	930 UJ	950 UJ	860 UJ	870 UJ	1000 U	1000 U	930 U	970 U
4,6-Dinitro-2-methylphenol	µg/Kg	930 UJ	950 UJ	860 UJ	870 UJ	1000 U	1000 U	930 U	970 U
N-Nitrosodiphenylamine	µg/Kg	380 UJ	390 UJ	360 UJ	360 UJ	430 U	410 U	380 U	400 U
4-Bromophenyl-phenylether	µg/Kg	380 UJ	390 UJ	360 UJ	360 UJ	430 U	410 U	380 U	400 U
Hexachlorobenzene	µg/Kg	380 UJ	390 UJ	360 UJ	360 UJ	430 U	410 U	380 U	400 U
Pentachlorophenol	µg/Kg	930 UJ	950 UJ	860 UJ	870 UJ	1000 U	1000 U	930 U	970 U
Phenanthrene	µg/Kg	640 J	1000 J	360 UJ	360 UJ	430 U	410 U	380 U	400 U
Anthracene	µg/Kg	140 J	260 J	360 UJ	360 UJ	430 U	410 U	380 U	400 U
Carbazole	µg/Kg	780 J	540 J	360 UJ	360 UJ	430 U	410 U	380 U	400 U
Di-n-butylphthalate	µg/Kg	72 J	390 UJ	73 J	360 UJ	430 U	25 J	140 J	42 J
Fluoranthene	µg/Kg	700 J	1200 J	360 UJ	13 J	430 U	410 U	380 U	400 U
Pyrene	µg/Kg	560 J	1200 J	360 UJ	360 UJ	430 U	410 U	380 U	400 U
Butylbenzylphthalate	µg/Kg	380 UJ	390 UJ	360 UJ	360 UJ	430 U	410 U	380 U	400 U
3,3'-Dichlorobenzidine	µg/Kg	380 UJ	390 UJ	360 UJ	360 UJ	430 U	410 U	380 U	400 U
Benzo(a)anthracene	µg/Kg	340 J	550 J	360 UJ	360 UJ	430 U	410 U	380 U	400 U
Chrysene	µg/Kg	370 J	660 J	360 UJ	360 UJ	430 U	410 U	380 U	400 U
bis(2-Ethylhexyl)phthalate	µg/Kg	400 J	740 J	470 J	860 J	260 J	320 J	450	530
Di-n-octylphthalate	µg/Kg	360 UJ	390 UJ	360 UJ	360 UJ	430 U	410 U	47 J	400 U
Benzo(b)fluoranthene	µg/Kg	360 J	610 J	360 UJ	360 UJ	430 U	410 U	380 U	400 U
Benzo(k)fluoranthene	µg/Kg	300 J	490 J	360 UJ	360 UJ	430 U	410 U	380 U	400 U
Benzo(a)pyrene	µg/Kg	270 J	460 J	360 UJ	360 UJ	430 U	410 U	380 U	400 U
Indeno(1,2,3-cd)pyrene	µg/Kg	170 J	150 J	360 UJ	360 UJ	430 U	410 U	380 U	400 U
Dibenz(a,h)anthracene	µg/Kg	63 J	22 J	360 UJ	360 UJ	430 U	410 U	380 U	400 U
Benzo(g,h,i)perylene	µg/Kg	90 J	120 J	360 UJ	360 UJ	430 U	410 U	380 U	400 U

SENECA ARMY DEPOT, ASH LANDFILL
SOIL ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	B-44	B-44	B-44	B-44	B-45	B-45	B-45	B-45
	DEPTH(FT.)	8-10	8-10	12-13.5	12-13.5	0-2	2-4	4-6	4-6
	DATE	12/10/92	12/10/92	12/10/92	12/10/92	04/28/93	04/28/93	04/28/93	04/28/93
	ES ID	B44B-3	B44B-3RE	B44B-4	B44B-4RE	B45-1	B45-2	B45-3	B45-6
	LAB ID	176016	176016R1	176017	176017R1	183170	183171	183172	183173
COMPOUND	UNITS								DUP B45-3
VOCs									
Pesticides/PCBs									
alpha-BHC	µg/Kg	2 U	NS	1.9 U	NS	2.2 U	2.2 U	2 U	2.1 U
beta-BHC	µg/Kg	2 U	NS	1.9 U	NS	2.2 U	2.2 U	2 U	2.1 U
delta-BHC	µg/Kg	2 U	NS	1.9 U	NS	2.2 U	2.2 U	2 U	2.1 U
gamma-BHC (Lindane)	µg/Kg	2 U	NS	1.9 U	NS	2.2 U	2.2 U	2 U	2.1 U
Heptachlor	µg/Kg	2 U	NS	1.9 U	NS	2.2 U	2.2 U	2 U	2.1 U
Aldrin	µg/Kg	2 U	NS	1.9 U	NS	2.2 U	2.2 U	2 U	2.1 U
Heptachlor epoxide	µg/Kg	2 U	NS	1.9 U	NS	2.2 U	2.2 U	2 U	2.1 U
Endosulfan I	µg/Kg	2 U	NS	1.9 U	NS	2.2 U	2.2 U	2 U	2.1 U
Dieldrin	µg/Kg	3.9 U	NS	3.6 U	NS	4.3 U	4.2 U	3.8 U	4 U
4,4'-DDE	µg/Kg	7.3 J	NS	3.6 U	NS	4.3 U	4.2 U	3.8 U	4 U
Endrin	µg/Kg	3.9 U	NS	3.6 U	NS	4.3 U	4.2 U	3.8 U	4 U
Endosulfan II	µg/Kg	3.9 U	NS	3.6 U	NS	4.3 U	4.2 U	3.8 U	4 U
4,4'-DDD	µg/Kg	3.8 J	NS	3.6 U	NS	4.3 U	4.2 U	3.8 U	4 U
Endosulfan sulfate	µg/Kg	3.9 U	NS	3.6 U	NS	4.3 U	4.2 U	3.8 U	4 U
4,4'-DDT	µg/Kg	5.8	NS	3.6 U	NS	4.3 U	4.2 U	3.8 U	4 U
Methoxychlor	µg/Kg	20 U	NS	19 U	NS	22 U	22 U	20 U	21 U
Endrin ketone	µg/Kg	3.9 U	NS	3.6 U	NS	4.3 U	4.2 U	3.8 U	4 U
Endrin aldehyde	µg/Kg	3.9 U	NS	3.6 U	NS	4.3 U	4.2 U	3.8 U	4 U
alpha-Chlordane	µg/Kg	3 J	NS	1.9 U	NS	2.2 U	2.2 U	2 U	2.1 U
gamma-Chlordane	µg/Kg	2 U	NS	1.9 U	NS	2.2 U	2.2 U	2 U	2.1 U
Toxaphene	µg/Kg	200 U	NS	190 U	NS	220 U	220 U	200 U	210 U
Aroclor-1016	µg/Kg	39 U	NS	36 U	NS	43 U	42 U	38 U	40 U
Aroclor-1221	µg/Kg	80 U	NS	73 U	NS	88 U	85 U	78 U	82 U
Aroclor-1232	µg/Kg	39 U	NS	36 U	NS	43 U	42 U	38 U	40 U
Aroclor-1242	µg/Kg	39 U	NS	36 U	NS	43 U	42 U	38 U	40 U
Aroclor-1248	µg/Kg	39 U	NS	36 U	NS	43 U	42 U	38 U	40 U
Aroclor-1254	µg/Kg	39 U	NS	36 U	NS	43 U	42 U	38 U	40 U
Aroclor-1260	µg/Kg	39 U	NS	36 U	NS	43 U	42 U	38 U	40 U
Herbicides									
2,4-D	µg/Kg	59 U	NS	55 U	NS	68 U	64 U	59 U	62 U
2,4-DB	µg/Kg	59 U	NS	55 U	NS	68 U	64 U	59 U	62 U
2,4,5-T	µg/Kg	5.9 U	NS	5.5 U	NS	6.8 U	6.4 U	5.9 U	6.2 U
2,4,5-TP (Silvex)	µg/Kg	5.9 U	NS	5.5 U	NS	6.8 U	6.4 U	5.9 U	6.2 U
Dalapon	µg/Kg	140 U	NS	130 U	NS	170 U	160 U	150 U	150 U
Dicamba	µg/Kg	5.9 U	NS	5.5 U	NS	6.8 U	6.4 U	5.9 U	6.2 U
Dichloroprop	µg/Kg	59 U	NS	55 U	NS	68 U	64 U	59 U	62 U
Dinoseb	µg/Kg	30 U	NS	27 U	NS	34 U	32 U	30 U	31 U
MCPA	µg/Kg	5900 U	NS	5500 U	NS	6800 U	6400 U	5900 U	6200 U
MCPP	µg/Kg	5900 U	NS	5500 U	NS	6800 U	6400 U	5900 U	6200 U
Metals									
Aluminum	mg/Kg	9850	NS	15400	NS	19700	14800	15200	16900
Antimony	mg/Kg	12.1 UJ	NS	11.9 UJ	NS	5.3 UJ	5.4 UJ	10.1 J	5.7 UJ
Arsenic	mg/Kg	5.1	NS	4.7	NS	4.6	5.2	2.7	5.8
Barium	mg/Kg	58.5	NS	59.3	NS	114	71.4	64.8	87.1
Beryllium	mg/Kg	0.53 J	NS	0.72 J	NS	0.96 J	0.73 J	0.7 J	0.84 J
Cadmium	mg/Kg	0.69 U	NS	0.68 U	NS	0.39 U	0.39 U	0.37 U	0.41 U
Calcium	mg/Kg	44500	NS	7260	NS	4870	16300	2690	6710
Chromium	mg/Kg	17.6	NS	26.9	NS	31.2	23.3	25.5	27
Cobalt	mg/Kg	9.1 J	NS	13.7	NS	16.8	12.7	13.7	15.8
Copper	mg/Kg	29.6	NS	16.2	NS	31.6	27.7	19.5	29.4
Iron	mg/Kg	20600	NS	32100	NS	38300	30200	31700	34400
Lead	mg/Kg	192	NS	8.6	NS	11.1	10.5	5.9	8.4
Magnesium	mg/Kg	8820	NS	6280	NS	7320	6770	5960	6530
Manganese	mg/Kg	415	NS	511	NS	1020	621	601	736
Mercury	mg/Kg	0.07 J	NS	0.03 J	NS	0.05 U	0.04 U	0.05 U	0.03 U
Nickel	mg/Kg	30.8	NS	39.5	NS	50	37.9	39.5	44.9
Potassium	mg/Kg	1060 J	NS	1110	NS	1320	1130	925 J	1110
Selenium	mg/Kg	0.54 J	NS	0.59 J	NS	0.18 U	0.2 U	0.16 U	0.17 U
Silver	mg/Kg	0.71 U	NS	0.71 U	NS	0.83 U	0.84 U	0.8 U	0.89 U
Sodium	mg/Kg	160 J	NS	65.9 U	NS	98.8 U	100 U	95.1 U	106 U
Thallium	mg/Kg	0.37 U	NS	0.48 U	NS	0.53 U	0.59 U	0.47 U	0.51 U
Vanadium	mg/Kg	17.4	NS	19.7	NS	29.8	21.3	19.7	24.6
Zinc	mg/Kg	83.9	NS	107	NS	86.6	94.1	98.8	108
Cyanide	mg/Kg	0.67 U	NS	0.68 U	NS	0.81 U	0.77 U	0.69 U	0.74 U

SENECA ARMY DEPOT, ASH LANDFILL
SOIL ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

COMPOUND	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	B-45	B-46	B-46	B-46	B-46	B-47	B-47	B-47	
	DEPTH(FT.)	0-2	0-2	2-4	4-6	6-7.1	0-2	0-2	2-4	
	DATE	04/29/93	04/29/93	04/29/93	04/29/93	04/29/93	04/29/93	04/29/93	04/29/93	
	ES ID	B46-1	B46-1RE	B46-2	B46-3	B46-4	B47-1	B47-1RE	B47-2	
	LAB ID	183303	183303R1	183304	183305	183306	183307	183307R1	183308	
	UNITS									
VOCs										
Chloromethane	µg/Kg	12 U	NS	12 U	12 U	12 U	10 UJ	10 UJ	12 U	
Bromomethane	µg/Kg	12 U	NS	12 U	12 U	12 U	10 UJ	10 UJ	12 U	
Vinyl Chloride	µg/Kg	12 U	NS	12 U	12 U	12 U	10 UJ	10 UJ	12 U	
Chloroethane	µg/Kg	12 U	NS	12 U	12 U	12 U	10 UJ	10 UJ	12 U	
Methylene Chloride	µg/Kg	12 U	NS	12 U	12 U	12 U	10 UJ	10 UJ	12 U	
Acetone	µg/Kg	12 U	NS	100	75	12 U	10 UJ	10 UJ	42	
Carbon Disulfide	µg/Kg	12 U	NS	12 U	12 U	12 U	10 UJ	10 UJ	12 U	
1,1-Dichloroethene	µg/Kg	12 U	NS	12 U	12 U	12 U	10 UJ	10 UJ	13	
1,1-Dichloroethane	µg/Kg	12 U	NS	12 U	12 U	12 U	10 UJ	10 UJ	12 U	
1,2-Dichloroethene (total)	µg/Kg	12 U	NS	2 J	12 U	12 U	2 J	1 J	170	
Chloroform	µg/Kg	12 U	NS	12 U	12 U	12 U	10 UJ	10 UJ	12 U	
1,2-Dichloroethane	µg/Kg	12 U	NS	12 U	12 U	12 U	10 UJ	10 UJ	12 U	
2-Butanone	µg/Kg	12 U	NS	22	17	12 U	10 UJ	10 UJ	7 J	
1,1,1-Trichloroethane	µg/Kg	12 U	NS	12 U	12 U	12 U	10 UJ	10 UJ	12 U	
Carbon Tetrachloride	µg/Kg	12 U	NS	12 U	12 U	12 U	10 UJ	10 UJ	12 U	
Vinyl acetate	µg/Kg	NS	NS	NS	NS	NS	NS	NS	NS	
Bromodichloromethane	µg/Kg	12 U	NS	12 U	12 U	12 U	10 UJ	10 UJ	12 U	
1,2-Dichloropropane	µg/Kg	12 U	NS	12 U	12 U	12 U	10 UJ	10 UJ	12 U	
cis-1,3-Dichloropropene	µg/Kg	12 U	NS	12 U	12 U	12 U	10 UJ	10 UJ	12 U	
Trichloroethene	µg/Kg	12 U	NS	3 J	1 J	12 U	110 J	39 J	2 J	
Dibromochloromethane	µg/Kg	12 U	NS	12 U	12 U	12 U	10 UJ	10 UJ	12 U	
1,1,2-Trichloroethane	µg/Kg	12 U	NS	12 U	12 U	12 U	10 UJ	10 UJ	12 U	
Benzene	µg/Kg	12 U	NS	12 U	12 U	12 U	10 UJ	10 UJ	12 U	
trans-1,3-Dichloropropene	µg/Kg	12 U	NS	12 U	12 U	12 U	10 UJ	10 UJ	12 U	
Bromoform	µg/Kg	12 U	NS	12 U	12 U	12 U	10 UJ	10 UJ	12 U	
4-Methyl-2-Pentanone	µg/Kg	12 U	NS	12 U	12 U	12 U	10 UJ	10 UJ	12 U	
2-Hexanone	µg/Kg	12 U	NS	12 U	12 U	12 U	10 UJ	10 UJ	12 U	
Tetrachloroethene	µg/Kg	12 U	NS	12 U	12 U	12 U	10 UJ	10 UJ	12 U	
1,1,2,2-Tetrachloroethane	µg/Kg	12 U	NS	12 U	12 U	12 U	10 UJ	10 UJ	12 U	
Toluene	µg/Kg	12 U	NS	12 U	12 U	12 U	4 J	2 J	12 U	
Chlorobenzene	µg/Kg	12 U	NS	12 U	12 U	12 U	10 UJ	10 UJ	12 U	
Ethylbenzene	µg/Kg	12 U	NS	12 U	12 U	12 U	10 UJ	10 UJ	12 U	
Styrene	µg/Kg	12 U	NS	12 U	12 U	12 U	10 UJ	10 UJ	12 U	
Xylene (total)	µg/Kg	12 U	NS	12 U	12 U	12 U	10 UJ	10 UJ	12 U	

SENECA ARMY DEPOT, ASH LANDFILL
SOIL ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

COMPOUND	UNITS	SOIL B-46 0-2 04/29/93 B46-1 183303	SOIL B-46 0-2 04/29/93 B46-1RE 183303R1	SOIL B-46 2-4 04/29/93 B46-2 183304	SOIL B-46 4-6 04/29/93 B46-3 183305	SOIL B-46 6-7.1 04/29/93 B46-4 183306	SOIL B-47 0-2 04/29/93 B47-1 183307	SOIL B-47 0-2 04/29/93 B47-1RE 183307R1	SOIL B-47 2-4 04/29/93 B47-2 183308
VOCs									
Semivolatiles									
Phenol	µg/Kg	360 UJ	360 UJ	380 U	370 U	380 U	350 U	NS	380 U
bis(2-Chloroethyl) ether	µg/Kg	360 UJ	360 UJ	380 U	370 U	380 U	350 U	NS	380 U
2-Chlorophenol	µg/Kg	360 UJ	360 UJ	380 U	370 U	380 U	350 U	NS	380 U
1,3-Dichlorobenzene	µg/Kg	360 UJ	360 UJ	380 U	370 U	380 U	350 U	NS	380 U
1,4-Dichlorobenzene	µg/Kg	360 UJ	360 UJ	380 U	370 U	380 U	350 U	NS	380 U
Benzyl alcohol	µg/Kg	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dichlorobenzene	µg/Kg	360 UJ	360 UJ	380 U	370 U	380 U	350 U	NS	380 U
2-Methylphenol	µg/Kg	360 UJ	360 UJ	380 U	370 U	380 U	350 U	NS	380 U
2,2'-oxybis(1-Chloropropane)	µg/Kg	360 UJ	360 UJ	380 U	370 U	380 U	350 U	NS	380 U
4-Methylphenol	µg/Kg	360 UJ	360 UJ	380 U	370 U	380 U	350 U	NS	380 U
N-Nitroso-di-n-propylamine	µg/Kg	360 UJ	360 UJ	380 U	370 U	380 U	350 U	NS	380 U
Hexachloroethane	µg/Kg	360 UJ	360 UJ	380 U	370 U	380 U	350 U	NS	380 U
Nitrobenzene	µg/Kg	360 UJ	380 UJ	380 U	370 U	380 U	350 U	NS	380 U
Isophorone	µg/Kg	360 UJ	360 UJ	380 U	370 U	380 U	350 U	NS	380 U
2-Nitrophenol	µg/Kg	360 UJ	360 UJ	380 U	370 U	380 U	350 U	NS	380 U
2,4-Dimethylphenol	µg/Kg	360 UJ	360 UJ	380 U	370 U	380 U	350 U	NS	380 U
Benzoic acid	µg/Kg	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroethoxy) methane	µg/Kg	380 UJ	360 UJ	380 U	370 U	380 U	350 U	NS	380 U
2,4-Dichlorophenol	µg/Kg	360 UJ	360 UJ	380 U	370 U	380 U	350 U	NS	380 U
1,2,4-Trichlorobenzene	µg/Kg	360 UJ	360 UJ	380 U	370 U	380 U	350 U	NS	380 U
Naphthalene	µg/Kg	21 J	20 J	39 J	370 U	380 U	350 U	NS	380 U
4-Chloroaniline	µg/Kg	360 UJ	360 UJ	380 U	370 U	380 U	350 U	NS	380 U
Hexachlorobutadiene	µg/Kg	360 UJ	360 UJ	380 U	370 U	380 U	350 U	NS	380 U
4-Chloro-3-methylphenol	µg/Kg	360 UJ	380 UJ	380 U	370 U	380 U	350 U	NS	380 U
2-Methylnaphthalene	µg/Kg	360 UJ	360 UJ	70 J	370 U	380 U	350 U	NS	380 U
Hexachlorocyclopentadiene	µg/Kg	360 UJ	360 UJ	380 U	370 U	380 U	350 U	NS	380 U
2,4,6-Trichlorophenol	µg/Kg	360 UJ	380 UJ	380 U	370 U	380 U	350 U	NS	380 U
2,4,5-Trichlorophenol	µg/Kg	880 UJ	880 UJ	920 U	900 U	920 U	840 U	NS	930 U
2-Chloronaphthalene	µg/Kg	380 UJ	380 UJ	380 U	370 U	380 U	350 U	NS	380 U
2-Nitroaniline	µg/Kg	880 UJ	880 UJ	920 U	900 U	920 U	840 U	NS	930 U
Dimethylphthalate	µg/Kg	360 UJ	360 UJ	380 U	370 U	380 U	350 U	NS	380 U
Acenaphthylene	µg/Kg	42 J	32 J	27 J	370 U	380 U	350 U	NS	380 U
2,6-Dinitrotoluene	µg/Kg	360 UJ	360 UJ	380 U	370 U	380 U	350 U	NS	380 U
3-Nitroaniline	µg/Kg	880 UJ	880 UJ	920 U	900 U	920 U	840 U	NS	930 U
Acenaphthene	µg/Kg	38 J	36 J	160 J	370 U	380 U	350 U	NS	380 U
2,4-Dinitrophenol	µg/Kg	880 UJ	880 UJ	920 U	900 U	920 U	840 U	NS	930 U
4-Nitrophenol	µg/Kg	880 UJ	880 UJ	920 U	900 U	920 U	840 U	NS	930 U
Dibenzofuran	µg/Kg	18 J	18 J	130 J	370 U	380 U	350 U	NS	380 U
2,4-Dinitrotoluene	µg/Kg	360 UJ	360 UJ	380 U	370 U	380 U	350 U	NS	380 U
Diethylphthalate	µg/Kg	360 UJ	360 UJ	380 U	370 U	380 U	350 U	NS	380 U
4-Chlorophenyl-phenylether	µg/Kg	360 UJ	360 UJ	380 U	370 U	380 U	350 U	NS	380 U
Fluorene	µg/Kg	39 J	41 J	280 J	22 J	380 U	350 U	NS	380 U
4-Nitroaniline	µg/Kg	880 UJ	880 UJ	920 U	900 U	920 U	840 U	NS	930 U
4,6-Dinitro-2-methylphenol	µg/Kg	880 UJ	880 UJ	920 U	900 U	920 U	840 U	NS	930 U
N-Nitrosodiphenylamine	µg/Kg	360 UJ	360 UJ	380 U	370 U	380 U	350 U	NS	380 U
4-Bromophenyl-phenylether	µg/Kg	360 UJ	360 UJ	380 U	370 U	380 U	350 U	NS	380 U
Hexachlorobenzene	µg/Kg	360 UJ	360 UJ	380 U	370 U	380 U	350 U	NS	380 U
Pentachlorophenol	µg/Kg	880 UJ	880 UJ	920 U	900 U	920 U	840 U	NS	930 U
Phenanthrene	µg/Kg	530 J	520 J	1100	91 J	380 U	90 J	NS	380 U
Anthracene	µg/Kg	140 J	130 J	340 J	32 J	380 U	18 J	NS	380 U
Carbazole	µg/Kg	50 J	42 J	93 J	370 U	380 U	350 U	NS	380 U
Di-n-butylphthalate	µg/Kg	68 J	62 J	87 J	66 J	170 J	180 J	NS	260 J
Fluoranthene	µg/Kg	1100 J	900 J	900	160 J	18 J	170 J	NS	28 J
Pyrene	µg/Kg	1200 J	1300 J	630	130 J	380 U	140 J	NS	23 J
Butylbenzylphthalate	µg/Kg	360 UJ	360 UJ	380 U	370 U	380 U	350 U	NS	380 U
3,3'-Dichlorobenzidine	µg/Kg	360 UJ	360 UJ	380 U	370 U	380 U	350 U	NS	380 U
Benzo(a)anthracene	µg/Kg	640 J	640 J	330 J	68 J	380 U	70 J	NS	380 U
Chrysene	µg/Kg	670 J	660 J	300 J	64 J	380 U	91 J	NS	22 J
bis(2-Ethylhexyl)phthalate	µg/Kg	190 J	190 J	220 J	200 J	340 J	340 J	NS	580
Di-n-octylphthalate	µg/Kg	360 UJ	360 UJ	380 U	370 U	29 J	350 U	NS	27 J
Benzo(b)fluoranthene	µg/Kg	560 J	560 J	210 J	55 J	380 U	67 J	NS	380 U
Benzo(k)fluoranthene	µg/Kg	540 J	600 J	240 J	53 J	380 U	52 J	NS	18 J
Benzo(a)pyrene	µg/Kg	660 J	870 J	270 J	68 J	380 U	52 J	NS	380 U
Indeno(1,2,3-cd)pyrene	µg/Kg	410 J	400 J	140 J	40 J	380 U	31 J	NS	380 U
Dibenz(a,h)anthracene	µg/Kg	120 J	75 J	30 J	370 U	380 U	350 U	NS	380 U
Benzo(g,h,i)perylene	µg/Kg	200 J	200 J	71 J	23 J	380 U	21 J	NS	380 U

SENECA ARMY DEPOT, ASH LANDFILL
SOIL ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

COMPOUND	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	B-46	B-46	B-46	B-46	B-46	B-47	B-47	B-47
	DEPTH(FT.)	0-2	0-2	2-4	4-6	6-7.1	0-2	0-2	2-4
	DATE	04/29/93	04/29/93	04/29/93	04/29/93	04/29/93	04/29/93	04/29/93	04/29/93
	ES ID	B46-1	B46-1RE	B46-2	B46-3	B46-4	B47-1	B47-1RE	B47-2
	LAB ID	183303	183303R1	183304	183305	183306	183307	183307R1	183308
	UNITS								
VOCs									
Pesticides/PCBs									
alpha-BHC	µg/Kg	9.3 U	NS	1.9 U	1.9 U	1.9 U	1.8 U	NS	2 U
beta-BHC	µg/Kg	9.3 U	NS	1.9 U	1.9 U	1.9 U	1.8 U	NS	2 U
delta-BHC	µg/Kg	9.3 U	NS	1.9 U	1.9 U	1.9 U	1.8 U	NS	2 U
gamma-BHC (Lindane)	µg/Kg	9.3 U	NS	1.9 U	1.9 U	1.9 U	1.8 U	NS	2 U
Heptachlor	µg/Kg	9.3 U	NS	1.9 U	1.9 U	1.9 U	1.8 U	NS	2 U
Aldrin	µg/Kg	9.3 U	NS	1.9 U	1.9 U	1.9 U	1.8 U	NS	2 U
Heptachlor epoxide	µg/Kg	9.3 U	NS	1.9 U	1.9 U	1.9 U	1.8 U	NS	2 U
Endosulfan I	µg/Kg	9.3 U	NS	1.9 U	0.95 J	1.9 U	3.1	NS	2 U
Dieldrin	µg/Kg	18 U	NS	3.8 U	3.6 U	3.8 U	3.4 U	NS	3.9 U
4,4'-DDE	µg/Kg	45	NS	3.7 J	6.6	3.8 U	240 J	NS	4.4
Endrin	µg/Kg	18 U	NS	3.8 U	3.6 U	3.8 U	3.4 U	NS	3.9 U
Endosulfan II	µg/Kg	18 U	NS	3.8 U	3.6 U	3.8 U	3.4 U	NS	3.9 U
4,4'-DDD	µg/Kg	42 J	NS	3.8 U	1.8 J	3.8 U	3.4 U	NS	3.9 U
Endosulfan sulfate	µg/Kg	18 U	NS	3.8 U	3.6 U	3.8 U	3.4 U	NS	3.9 U
4,4'-DDT	µg/Kg	160	NS	2.2 J	3 J	3.8 U	23	NS	3.9 U
Methoxychlor	µg/Kg	93 U	NS	19 U	19 U	19 U	18 U	NS	20 U
Endrin ketone	µg/Kg	18 U	NS	3.8 U	3.6 U	3.8 U	3.4 U	NS	3.9 U
Endrin aldehyde	µg/Kg	18 U	NS	3.8 U	3.6 U	3.8 U	3.4 U	NS	3.9 U
alpha-Chlordane	µg/Kg	9.3 U	NS	1.9 U	1.9 U	1.9 U	1.8 U	NS	2 U
gamma-Chlordane	µg/Kg	9.3 U	NS	1.9 U	1.9 U	1.9 U	1.8 U	NS	2 U
Toxaphene	µg/Kg	930 U	NS	190 U	190 U	190 U	180 U	NS	200 U
Aroclor-1016	µg/Kg	180 U	NS	38 U	36 U	38 U	34 U	NS	39 U
Aroclor-1221	µg/Kg	370 U	NS	76 U	74 U	78 U	70 U	NS	78 U
Aroclor-1232	µg/Kg	180 U	NS	38 U	38 U	38 U	34 U	NS	39 U
Aroclor-1242	µg/Kg	180 U	NS	38 U	36 U	38 U	34 U	NS	39 U
Aroclor-1248	µg/Kg	180 U	NS	38 U	36 U	38 U	34 U	NS	39 U
Aroclor-1254	µg/Kg	180 U	NS	38 U	38 U	38 U	34 U	NS	39 U
Aroclor-1260	µg/Kg	180 U	NS	38 U	38 U	38 U	34 U	NS	39 U
Herbicides									
2,4-D	µg/Kg	55 U	NS	58 U	56 U	58 U	53 U	NS	59 U
2,4-DB	µg/Kg	55 U	NS	58 U	56 U	58 U	53 U	NS	59 U
2,4,5-T	µg/Kg	5.5 U	NS	5.8 U	5.6 U	5.8 U	5.3 U	NS	5.9 U
2,4,5-TP (Silvex)	µg/Kg	5.5 U	NS	5.8 U	5.6 U	5.8 U	5.3 U	NS	5.9 U
Dalapon	µg/Kg	140 U	NS	140 U	140 U	140 U	130 U	NS	150 U
Dicamba	µg/Kg	5.5 U	NS	5.8 U	5.6 U	5.8 U	5.3 U	NS	5.9 U
Dichloroprop	µg/Kg	55 U	NS	58 U	56 U	58 U	53 U	NS	59 U
Dinoseb	µg/Kg	28 U	NS	29 U	28 U	29 U	27 U	NS	30 U
MCPA	µg/Kg	5500 U	NS	5800 U	5600 U	5800 U	5300 U	NS	5900 U
MCPP	µg/Kg	5500 U	NS	5600 U	5600 U	5800 U	5300 U	NS	5900 U
Metals									
Aluminum	mg/Kg	12100	NS	15300	9600	14400	10100	NS	17500
Antimony	mg/Kg	4.5 UJ	NS	4.1 UJ	5.9 UJ	5.1 UJ	4 UJ	NS	3.5 UJ
Arsenic	mg/Kg	4.8	NS	7.3	4.7	3.9	3.1	NS	4.8
Barium	mg/Kg	109	NS	96.4	69.9	68.4	55.8	NS	79.3
Beryllium	mg/Kg	0.64 J	NS	0.78	0.52 J	0.76 J	0.5 J	NS	0.85
Cadmium	mg/Kg	0.33 U	NS	0.3 U	0.54 J	0.37 U	0.29 U	NS	0.26 U
Calcium	mg/Kg	39300	NS	20200	172000	90500	69400	NS	8640
Chromium	mg/Kg	18.7	NS	28	15.3	24.1	19.9	NS	26.3
Cobalt	mg/Kg	13.3	NS	12	7.3 J	11.7	9.9	NS	16.4
Copper	mg/Kg	19.8	NS	34	19.2	18.7	30.3	NS	21.6
Iron	mg/Kg	24600	NS	27200	16200	27700	22800	NS	32700
Lead	mg/Kg	45.4	NS	64	19.1	8.7	40.9	NS	12
Magnesium	mg/Kg	6520	NS	6760	9270	10900	8850	NS	5460
Manganese	mg/Kg	1570	NS	526	445	898	370	NS	942
Mercury	mg/Kg	0.05 J	NS	0.07 J	0.05 J	0.04 U	0.06 J	NS	0.05 U
Nickel	mg/Kg	29.9	NS	35.9	22.9	37	35.3	NS	36.2
Potassium	mg/Kg	1330	NS	1570	1440	1470	1170	NS	973
Selenium	mg/Kg	0.14 U	NS	0.2 U	0.54 J	0.2 U	0.15 U	NS	0.2 U
Silver	mg/Kg	0.71 U	NS	0.65 U	0.92 U	0.8 U	0.63 U	NS	0.56 U
Sodium	mg/Kg	230 J	NS	249 J	232 J	141 J	137 J	NS	68 J
Thallium	mg/Kg	0.43 U	NS	0.61 U	2.9 U	0.59 U	0.46 U	NS	0.6 U
Vanadium	mg/Kg	18.9	NS	23.1	17.3	19.1	15.4	NS	22.3
Zinc	mg/Kg	136	NS	235	86.7	65.6	472	NS	84.3
Cyanide	mg/Kg	0.56 U	NS	0.58 U	0.55 U	0.57 U	0.53 U	NS	0.71 U

SENECA ARMY DEPOT, ASH LANDFILL
SOIL ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

COMPOUND	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	B-47	B-48	B-48	B-48	B-48
	DEPTH(FT.)	4-5.3	0-2	2-4	4-6	4-6
	DATE	04/29/93	04/29/93	04/29/93	04/29/93	04/29/93
	ES ID	B47-3	B48-1	B48-2	B48-3	B48-6
	LAB ID	183309	183310	183311	183312	183313
VOCs	UNITS					DUP B48-3
Chloromethane	µg/Kg	53 U	12 U	12 U	19 U	18 U
Bromomethane	µg/Kg	53 U	12 U	12 U	19 U	18 U
Vinyl Chloride	µg/Kg	53 U	12 U	12 U	19 U	18 U
Chloroethane	µg/Kg	53 U	12 U	12 U	19 U	18 U
Methylene Chloride	µg/Kg	53 U	12 U	12 U	19 U	18 U
Acetone	µg/Kg	53 U	12 U	12 U	19 U	18 U
Carbon Disulfide	µg/Kg	53 U	12 U	12 U	19 U	18 U
1,1-Dichloroethene	µg/Kg	28 J	12 U	12 U	5 J	5 J
1,1-Dichloroethane	µg/Kg	53 U	12 U	12 U	19 U	18 U
1,2-Dichloroethene (total)	µg/Kg	650	12 U	12 U	110	130
Chloroform	µg/Kg	53 U	12 U	12 U	19 U	18 U
1,2-Dichloroethane	µg/Kg	53 U	12 U	12 U	19 U	18 U
2-Butanone	µg/Kg	53 U	12 U	12 U	19 U	18 U
1,1,1-Trichloroethane	µg/Kg	53 U	12 U	12 U	19 U	18 U
Carbon Tetrachloride	µg/Kg	53 U	12 U	12 U	19 U	18 U
Vinyl acetate	µg/Kg	NS	NS	NS	NS	NS
Bromodichloromethane	µg/Kg	53 U	12 U	12 U	19 U	18 U
1,2-Dichloropropane	µg/Kg	53 U	12 U	12 U	19 U	18 U
cis-1,3-Dichloropropene	µg/Kg	53 U	12 U	12 U	19 U	18 U
Trichloroethene	µg/Kg	98	75	10 J	200	200
Dibromochloromethane	µg/Kg	53 U	12 U	12 U	19 U	18 U
1,1,2-Trichloroethane	µg/Kg	53 U	12 U	12 U	19 U	18 U
Benzene	µg/Kg	53 U	12 U	12 U	19 U	18 U
trans-1,3-Dichloropropene	µg/Kg	53 U	12 U	12 U	19 U	18 U
Bromoform	µg/Kg	53 U	12 U	12 U	19 U	18 U
4-Methyl-2-Pentanone	µg/Kg	53 U	12 U	12 U	19 U	18 U
2-Hexanone	µg/Kg	53 U	12 U	12 U	19 U	18 U
Tetrachloroethene	µg/Kg	53 U	12 U	12 U	19 U	18 U
1,1,2,2-Tetrachloroethane	µg/Kg	53 U	12 U	12 U	19 U	18 U
Toluene	µg/Kg	53 U	2 J	12 U	19 U	18 U
Chlorobenzene	µg/Kg	53 U	12 U	12 U	19 U	18 U
Ethylbenzene	µg/Kg	53 U	12 U	12 U	19 U	18 U
Styrene	µg/Kg	53 U	12 U	12 U	19 U	18 U
Xylene (total)	µg/Kg	53 U	12 U	12 U	19 U	18 U

SENECA ARMY DEPOT, ASH LANDFILL
SOIL ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	B-47	B-48	B-48	B-48	B-48
	DEPTH(FT.)	4-5.3	0-2	2-4	4-6	4-6
	DATE	04/29/93	04/29/93	04/29/93	04/29/93	04/29/93
	ES ID	B47-3	B48-1	B48-2	B48-3	B48-6
	LAB ID	183309	183310	183311	183312	183313
COMPOUND	UNITS					DUP B48-3
VOCs						
Semivolatiles						
Phenol	µg/Kg	360 U	410 U	390 U	380 U	400 U
bis(2-Chloroethyl) ether	µg/Kg	360 U	410 U	390 U	380 U	400 U
2-Chlorophenol	µg/Kg	360 U	410 U	390 U	380 U	400 U
1,3-Dichlorobenzene	µg/Kg	360 U	410 U	390 U	380 U	400 U
1,4-Dichlorobenzene	µg/Kg	360 U	410 U	390 U	380 U	400 U
Benzyl alcohol	µg/Kg	NS	NS	NS	NS	NS
1,2-Dichlorobenzene	µg/Kg	360 U	410 U	390 U	380 U	400 U
2-Methylphenol	µg/Kg	360 U	410 U	390 U	380 U	400 U
2,2'-oxybis(1-Chloropropane)	µg/Kg	360 U	410 U	390 U	380 U	400 U
4-Methylphenol	µg/Kg	360 U	410 U	390 U	380 U	400 U
N-Nitroso-di-n-propylamine	µg/Kg	360 U	410 U	390 U	380 U	400 U
Hexachloroethane	µg/Kg	360 U	410 U	390 U	380 U	400 U
Nitrobenzene	µg/Kg	360 U	410 U	390 U	380 U	400 U
Isophorone	µg/Kg	360 U	410 U	390 U	380 U	400 U
2-Nitrophenol	µg/Kg	360 U	410 U	390 U	380 U	400 U
2,4-Dimethylphenol	µg/Kg	360 U	410 U	390 U	380 U	400 U
Benzoic acid	µg/Kg	NS	NS	NS	NS	NS
bis(2-Chloroethoxy) methane	µg/Kg	360 U	410 U	390 U	380 U	400 U
2,4-Dichlorophenol	µg/Kg	360 U	410 U	390 U	380 U	400 U
1,2,4-Trichlorobenzene	µg/Kg	360 U	410 U	390 U	380 U	400 U
Naphthalene	µg/Kg	360 U	410 U	390 U	380 U	400 U
4-Chloroaniline	µg/Kg	360 U	410 U	390 U	380 U	400 U
Hexachlorobutadiene	µg/Kg	360 U	410 U	390 U	380 U	400 U
4-Chloro-3-methylphenol	µg/Kg	360 U	410 U	390 U	380 U	400 U
2-Methylnaphthalene	µg/Kg	360 U	410 U	390 U	380 U	400 U
Hexachlorocyclopentadiene	µg/Kg	360 U	410 U	390 U	380 U	400 U
2,4,6-Trichlorophenol	µg/Kg	360 U	410 U	390 U	380 U	400 U
2,4,5-Trichlorophenol	µg/Kg	880 U	1000 U	950 U	930 U	960 U
2-Chloronaphthalene	µg/Kg	360 U	410 U	390 U	380 U	400 U
2-Nitroaniline	µg/Kg	880 U	1000 U	950 U	930 U	960 U
Dimethylphthalate	µg/Kg	360 U	410 U	390 U	380 U	400 U
Acenaphthylene	µg/Kg	360 U	410 U	390 U	380 U	400 U
2,6-Dinitrotoluene	µg/Kg	360 U	410 U	390 U	380 U	400 U
3-Nitroaniline	µg/Kg	880 U	1000 U	950 U	930 U	960 U
Acenaphthene	µg/Kg	360 U	410 U	390 U	380 U	400 U
2,4-Dinitrophenol	µg/Kg	880 U	1000 U	950 U	930 U	960 U
4-Nitrophenol	µg/Kg	880 U	1000 U	950 U	930 U	960 U
Dibenzofuran	µg/Kg	360 U	410 U	390 U	380 U	400 U
2,4-Dinitrotoluene	µg/Kg	360 U	410 U	390 U	380 U	400 U
Diethylphthalate	µg/Kg	360 U	410 U	390 U	380 U	400 U
4-Chlorophenyl-phenyl ether	µg/Kg	360 U	410 U	390 U	380 U	400 U
Fluorene	µg/Kg	360 U	410 U	390 U	380 U	400 U
4-Nitroaniline	µg/Kg	880 U	1000 U	950 U	930 U	960 U
4,6-Dinitro-2-methylphenol	µg/Kg	880 U	1000 U	950 U	930 U	960 U
N-Nitrosodiphenylamine	µg/Kg	360 U	410 U	390 U	380 U	400 U
4-Bromophenyl-phenyl ether	µg/Kg	360 U	410 U	390 U	380 U	400 U
Hexachlorobenzene	µg/Kg	380 U	410 U	390 U	380 U	400 U
Pentachlorophenol	µg/Kg	880 U	1000 U	950 U	930 U	960 U
Phenanthrene	µg/Kg	360 U	110 J	390 U	380 U	400 U
Anthracene	µg/Kg	360 U	21 J	390 U	380 U	400 U
Carbazole	µg/Kg	360 U	20 J	390 U	380 U	400 U
Di-n-butylphthalate	µg/Kg	160 J	100 J	130 J	110 J	72 J
Fluoranthene	µg/Kg	360 U	180 J	390 U	380 U	400 U
Pyrene	µg/Kg	360 U	130 J	390 U	380 U	400 U
Butylbenzylphthalate	µg/Kg	360 U	410 U	390 U	380 U	400 U
3,3'-Dichlorobenzidine	µg/Kg	360 U	410 U	390 U	380 U	400 U
Benzo(a)anthracene	µg/Kg	360 U	76 J	390 U	380 U	400 U
Chrysene	µg/Kg	360 U	96 J	390 U	380 U	400 U
bis(2-Ethylhexyl)phthalate	µg/Kg	250 J	320 J	520	240 J	170 J
Di-n-octylphthalate	µg/Kg	360 U	410 U	390 U	380 U	400 U
Benzo(b)fluoranthene	µg/Kg	360 U	93 J	390 U	380 U	400 U
Benzo(k)fluoranthene	µg/Kg	360 U	85 J	390 U	380 U	400 U
Benzo(a)pyrene	µg/Kg	360 U	75 J	390 U	380 U	400 U
Indeno(1,2,3-cd)pyrene	µg/Kg	360 U	59 J	390 U	380 U	400 U
Dibenz(a,h)anthracene	µg/Kg	360 U	410 U	390 U	380 U	400 U
Benzo(g,h,i)perylene	µg/Kg	360 U	35 J	390 U	380 U	400 U

SENECA ARMY DEPOT, ASH LANDFILL
SOIL ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

COMPOUND	UNITS	MATRIX LOCATION DEPTH(FT.) DATE ES ID LAB ID	SOIL B-47 4-5.3 04/29/93 B47-3 183309	SOIL B-48 0-2 04/29/93 B48-1 183310	SOIL B-48 2-4 04/29/93 B48-2 183311	SOIL B-48 4-6 04/29/93 B48-3 183312	SOIL B-48 4-6 04/29/93 B48-6 183313 DUP B48-3
VOCs							
Pesticides/PCBs							
alpha-BHC	µg/Kg		1.9 U	4.2 U	2 U	2 U	2 U
beta-BHC	µg/Kg		1.9 U	4.2 U	2 U	2 U	2 U
delta-BHC	µg/Kg		1.9 U	4.2 U	2 U	2 U	2 U
gamma-BHC (Lindane)	µg/Kg		1.9 U	4.2 U	2 U	2 U	2 U
Heptachlor	µg/Kg		1.9 U	4.2 U	2 U	2 U	2 U
Aldrin	µg/Kg		1.9 U	4.2 U	2 U	2 U	2 U
Heptachlor epoxide	µg/Kg		1.9 U	4.2 U	2 U	2 U	2 U
Endosulfan I	µg/Kg		1.9 U	4.2 U	2 U	2 U	2 U
Dieldrin	µg/Kg		3.6 U	8.2 U	3.9 U	3.9 U	4 U
4,4'-DDE	µg/Kg		3.6 U	70	5.4	5.8	4 U
Endrin	µg/Kg		3.6 U	8.2 U	3.9 U	3.9 U	4 U
Endosulfan II	µg/Kg		3.6 U	8.2 U	3.9 U	3.9 U	4 U
4,4'-DDD	µg/Kg		3.6 U	15 J	2.7 J	2.5 J	4 U
Endosulfan sulfate	µg/Kg		3.6 U	8.2 U	3.9 U	3.9 U	4 U
4,4'-DDT	µg/Kg		3.6 U	26	2 J	4.9	4 U
Methoxychlor	µg/Kg		19 U	42 U	20 U	20 U	20 U
Endrin ketone	µg/Kg		3.6 U	8.2 U	3.9 U	3.9 U	4 U
Endrin aldehyde	µg/Kg		3.6 U	8.2 U	3.9 U	3.9 U	4 U
alpha-Chlordane	µg/Kg		1.9 U	4.2 U	2 U	2 U	2 U
gamma-Chlordane	µg/Kg		1.9 U	4.2 U	2 U	2 U	2 U
Toxaphene	µg/Kg		190 U	420 U	200 U	200 U	200 U
Aroclor-1016	µg/Kg		36 U	82 U	39 U	39 U	40 U
Aroclor-1221	µg/Kg		73 U	170 U	79 U	79 U	80 U
Aroclor-1232	µg/Kg		36 U	82 U	39 U	39 U	40 U
Aroclor-1242	µg/Kg		36 U	82 U	39 U	39 U	40 U
Aroclor-1248	µg/Kg		36 U	82 U	39 U	39 U	40 U
Aroclor-1254	µg/Kg		36 U	82 U	39 U	39 U	40 U
Aroclor-1260	µg/Kg		36 U	82 U	39 U	39 U	40 U
Herbicides							
2,4-D	µg/Kg		56 U	63 U	60 U	59 U	61 U
2,4-DB	µg/Kg		56 U	63 U	60 U	59 U	61 U
2,4,5-T	µg/Kg		5.6 U	6.3 U	6 U	5.9 U	6.1 U
2,4,5-TP (Silvex)	µg/Kg		5.6 U	6.3 U	6 U	5.9 U	6.1 U
Dalapon	µg/Kg		140 U	150 U	150 U	150 U	150 U
Dicamba	µg/Kg		5.6 U	6.3 U	6 U	5.9 U	6.1 U
Dichloroprop	µg/Kg		56 U	63 U	60 U	59 U	61 U
Dinoseb	µg/Kg		28 U	32 U	30 U	30 U	31 U
MCPA	µg/Kg		5600 U	6300 U	6000 U	5900 U	6100 U
MCPP	µg/Kg		5600 U	6300 U	6000 U	5900 U	6100 U
Metals							
Aluminum	mg/Kg		17300	10800	14000	12100	11100
Antimony	mg/Kg		6.1 UJ	5.6 J	4.8 UJ	4.4 J	4 UJ
Arsenic	mg/Kg		3.2	4.9	4.9	4.9	5.1
Barium	mg/Kg		68.8	82.2	115	50.6	41.1
Beryllium	mg/Kg		0.81 J	0.61 J	0.76 J	0.55 J	0.53 J
Cadmium	mg/Kg		0.44 U	0.34 J	0.35 U	1.3	0.29 U
Calcium	mg/Kg		37100	18200	3780	60100 J	16000 J
Chromium	mg/Kg		31	21.8	21.2	19.9	18.6
Cobalt	mg/Kg		12.6	9	13.3	11.4	11
Copper	mg/Kg		23.3	48	28.1	24.1	19.9
Iron	mg/Kg		33400	22700	26900	24800	23100
Lead	mg/Kg		6	82.5	15.5	8.4	9.2
Magnesium	mg/Kg		7330	4410	4310	8210	7090
Manganese	mg/Kg		543	520	1290	571	501
Mercury	mg/Kg		0.05 U	0.1	0.04 U	0.04 U	0.03 U
Nickel	mg/Kg		43.6	31.4	29.8	34.1	31.3
Potassium	mg/Kg		1420	1090	1540	1110	894
Selenium	mg/Kg		0.82 J	0.71 J	0.37 J	0.87 J	0.25 J
Silver	mg/Kg		0.95 U	0.81 U	0.75 U	0.53 U	0.62 U
Sodium	mg/Kg		187 J	75 J	89.8 U	176 J	121 J
Thallium	mg/Kg		0.51 U	0.54 U	0.62 U	0.62 U	0.67 U
Vanadium	mg/Kg		22.4	18.1	26.4	16.7	15.2
Zinc	mg/Kg		74.9	308	115	103	83.5
Cyanide	mg/Kg		0.67 U	0.75 U	0.71 U	0.66 U	0.69 U

SENECA ARMY DEPOT, ASH LANDFILL
GROUNDWATER ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

	MATRIX	PHASE I WATER	PHASE I WATER	PHASE I WATER	PHASE II WATER	PHASE I WATER	PHASE I WATER	PHASE II WATER
	LOCATION	PT-10	PT-10	PT-10	PT10	PT-11	PT-11	PT11
	DATE	01/06/92	01/06/92	01/06/92	06/23/93	01/15/92	01/15/92	07/10/93
	ES ID	PT-1(1)	PT-10(2)	PT-10(2)Filtered	PT10	PT-11	PT-11Filtered	PT11
	LAB ID	152259	152156	152199	167234	152574	152593	168728
COMPOUND	UNITS							
Chloromethane	µg/L	NS	10 U	NS	NS	10 U	NS	10 U
Bromomethane	µg/L	NS	10 U	NS	NS	10 U	NS	10 U
Vinyl Chloride	µg/L	NS	10 U	NS	NS	10 U	NS	10 U
Chloroethane	µg/L	NS	10 U	NS	NS	10 U	NS	10 U
Methylene Chloride	µg/L	NS	5 U	NS	NS	5 U	NS	10 U
Acetone	µg/L	NS	10 U	NS	NS	10 U	NS	10 U
Carbon Disulfide	µg/L	NS	5 U	NS	NS	5 U	NS	10 U
1,1-Dichloroethene	µg/L	NS	5 U	NS	NS	5 U	NS	10 U
1,1-Dichloroethane	µg/L	NS	5 U	NS	NS	5 U	NS	10 U
1,2-Dichloroethene (total)	µg/L	NS	5 U	NS	NS	5 U	NS	10 U
Chloroform	µg/L	NS	5 U	NS	NS	5 U	NS	10 U
1,2-Dichloroethane	µg/L	NS	5 U	NS	NS	5 U	NS	10 U
2-Butanone	µg/L	NS	10 U	NS	NS	10 U	NS	10 U
1,1,1-Trichloroethane	µg/L	NS	5 U	NS	NS	5 U	NS	10 U
Carbon Tetrachloride	µg/L	NS	5 U	NS	NS	5 U	NS	10 U
Vinyl Acetate	µg/L	NS	10 U	NS	NS	10 U	NS	NS
Bromodichloromethane	µg/L	NS	5 U	NS	NS	5 U	NS	10 U
1,2-Dichloropropane	µg/L	NS	5 U	NS	NS	5 U	NS	10 U
cis-1,3-Dichloropropene	µg/L	NS	5 U	NS	NS	5 U	NS	10 U
Trichloroethene	µg/L	NS	5 U	NS	NS	5 U	NS	10 U
Dibromochloromethane	µg/L	NS	5 U	NS	NS	5 U	NS	10 U
1,1,2-Trichloroethane	µg/L	NS	5 U	NS	NS	5 U	NS	10 U
Benzene	µg/L	NS	5 U	NS	NS	5 U	NS	10 U
trans-1,3-Dichloropropene	µg/L	NS	5 U	NS	NS	5 U	NS	10 U
Bromoform	µg/L	NS	5 U	NS	NS	5 U	NS	10 U
4-Methyl-2-Pentanone	µg/L	NS	10 U	NS	NS	10 U	NS	10 U
2-Hexanone	µg/L	NS	10 U	NS	NS	10 U	NS	10 U
Tetrachloroethene	µg/L	NS	5 U	NS	NS	5 U	NS	10 U
1,1,2,2-Tetrachloroethane	µg/L	NS	5 U	NS	NS	5 U	NS	10 U
Toluene	µg/L	NS	5 U	NS	NS	5 U	NS	10 U
Chlorobenzene	µg/L	NS	5 U	NS	NS	5 U	NS	10 U
Ethylbenzene	µg/L	NS	5 U	NS	NS	5 U	NS	10 U
Styrene	µg/L	NS	5 U	NS	NS	5 U	NS	10 U
Xylene (total)	µg/L	NS	5 U	NS	NS	4 J	NS	10 U

NOTE: "NS" = NOT SAMPLED

SENECA ARMY DEPOT, ASH LANDFILL
GROUNDWATER ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

COMPOUND	MATRIX LOCATION DATE ES ID LAB ID UNITS	PHASE I WATER PT-10 01/06/92 PT-1(1) 152259	PHASE I WATER PT-10 01/06/92 PT-10(2) 152156	PHASE I WATER PT-10 01/06/92 PT-10(2) Filtered 152199	PHASE II WATER PT10 06/23/93 PT10 157234	PHASE I WATER PT-11 01/15/92 PT-11 152574	PHASE I WATER PT-11 01/15/92 PT-11Filtered 152593	PHASE II WATER PT11 07/10/93 PT11 158726
VOC's (524.2)								
Dichlorodifluoromethane	µg/L	NS	NS	NS	0.5 U	NS	NS	NS
Chloromethane	µg/L	NS	NS	NS	0.5 U	NS	NS	NS
Vinyl Chloride	µg/L	NS	NS	NS	0.5 U	NS	NS	NS
Bromomethane	µg/L	NS	NS	NS	0.5 U	NS	NS	NS
Chloroethane	µg/L	NS	NS	NS	0.5 U	NS	NS	NS
Trichlorofluoromethane	µg/L	NS	NS	NS	0.5 U	NS	NS	NS
1,1-Dichloroethene	µg/L	NS	NS	NS	0.5 U	NS	NS	NS
Acetone	µg/L	NS	NS	NS	5 U	NS	NS	NS
Carbon Disulfide	µg/L	NS	NS	NS	0.5 U	NS	NS	NS
Methylene Chloride	µg/L	NS	NS	NS	0.5 U	NS	NS	NS
trans-1,2-Dichloroethene	µg/L	NS	NS	NS	0.5 U	NS	NS	NS
1,1-Dichloroethane	µg/L	NS	NS	NS	0.5 U	NS	NS	NS
2,2-Dichloropropane	µg/L	NS	NS	NS	0.5 U	NS	NS	NS
cis-1,2-Dichloroethene	µg/L	NS	NS	NS	0.5 U	NS	NS	NS
2-Butanone	µg/L	NS	NS	NS	5 U	NS	NS	NS
Bromochloromethane	µg/L	NS	NS	NS	0.5 U	NS	NS	NS
Chloroform	µg/L	NS	NS	NS	0.5 U	NS	NS	NS
1,1,1-Trichloroethane	µg/L	NS	NS	NS	0.5 U	NS	NS	NS
Carbon Tetrachloride	µg/L	NS	NS	NS	0.5 U	NS	NS	NS
1,1-Dichloropropene	µg/L	NS	NS	NS	0.5 U	NS	NS	NS
Benzene	µg/L	NS	NS	NS	0.5 U	NS	NS	NS
1,2-Dichloroethane	µg/L	NS	NS	NS	0.5 U	NS	NS	NS
Trichloroethene	µg/L	NS	NS	NS	0.5 U	NS	NS	NS
1,2-Dichloropropane	µg/L	NS	NS	NS	0.5 U	NS	NS	NS
Dibromomethane	µg/L	NS	NS	NS	0.5 U	NS	NS	NS
Bromodichloromethane	µg/L	NS	NS	NS	0.5 U	NS	NS	NS
cis-1,3-Dichloropropene	µg/L	NS	NS	NS	0.5 U	NS	NS	NS
4-Methyl-2-Pentanone	µg/L	NS	NS	NS	5 U	NS	NS	NS
Toluene	µg/L	NS	NS	NS	0.5 U	NS	NS	NS
trans-1,3-Dichloropropene	µg/L	NS	NS	NS	0.5 U	NS	NS	NS
1,1,2-Trichloroethane	µg/L	NS	NS	NS	0.5 U	NS	NS	NS
Tetrachloroethene	µg/L	NS	NS	NS	0.5 U	NS	NS	NS
1,3-Dichloropropane	µg/L	NS	NS	NS	0.5 U	NS	NS	NS
2-Hexanone	µg/L	NS	NS	NS	5 U	NS	NS	NS
Dibromochloromethane	µg/L	NS	NS	NS	0.5 U	NS	NS	NS
1,2-Dibromoethane	µg/L	NS	NS	NS	0.5 U	NS	NS	NS
Chlorobenzene	µg/L	NS	NS	NS	0.5 U	NS	NS	NS
1,1,1,2-Tetrachloroethane	µg/L	NS	NS	NS	0.5 U	NS	NS	NS
Ethylbenzene	µg/L	NS	NS	NS	0.5 U	NS	NS	NS
Styrene	µg/L	NS	NS	NS	0.5 U	NS	NS	NS
Bromoform	µg/L	NS	NS	NS	0.5 U	NS	NS	NS
Isopropylbenzene	µg/L	NS	NS	NS	0.5 U	NS	NS	NS
Bromobenzene	µg/L	NS	NS	NS	0.5 U	NS	NS	NS
1,1,2,2-Tetrachloroethane	µg/L	NS	NS	NS	0.5 U	NS	NS	NS
1,2,3-Trichloropropane	µg/L	NS	NS	NS	0.5 U	NS	NS	NS
n-Propylbenzene	µg/L	NS	NS	NS	0.5 U	NS	NS	NS
2-Chlorotoluene	µg/L	NS	NS	NS	0.5 U	NS	NS	NS
4-Chlorotoluene	µg/L	NS	NS	NS	0.5 U	NS	NS	NS
1,3,5-Trimethylbenzene	µg/L	NS	NS	NS	0.5 U	NS	NS	NS
tert-Butylbenzene	µg/L	NS	NS	NS	0.5 U	NS	NS	NS
1,2,4-Trimethylbenzene	µg/L	NS	NS	NS	0.5 U	NS	NS	NS
sec-Butylbenzene	µg/L	NS	NS	NS	0.5 U	NS	NS	NS
1,3-Dichlorobenzene	µg/L	NS	NS	NS	0.5 U	NS	NS	NS
1,4-Dichlorobenzene	µg/L	NS	NS	NS	0.5 U	NS	NS	NS
p-Isopropyltoluene	µg/L	NS	NS	NS	0.5 U	NS	NS	NS
1,2-Dichlorobenzene	µg/L	NS	NS	NS	0.5 U	NS	NS	NS
n-Butylbenzene	µg/L	NS	NS	NS	0.5 U	NS	NS	NS
1,2-Dibromo-3-Chloropropane	µg/L	NS	NS	NS	0.5 U	NS	NS	NS
1,2,4-Trichlorobenzene	µg/L	NS	NS	NS	0.5 U	NS	NS	NS
Hexachlorobutadiene	µg/L	NS	NS	NS	0.5 U	NS	NS	NS
Naphthalene	µg/L	NS	NS	NS	0.5 U	NS	NS	NS
1,2,3-Trichlorobenzene	µg/L	NS	NS	NS	0.5 U	NS	NS	NS
Xylene (total)	µg/L	NS	NS	NS	0.5 U	NS	NS	NS

SENECA ARMY DEPOT, ASH LANDFILL
GROUNDWATER ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

	MATRIX	PHASE I	PHASE I	PHASE I	PHASE II	PHASE I	PHASE I	PHASE II
	LOCATION	WATER	WATER	WATER	WATER	WATER	WATER	WATER
	DATE	PT-10	PT-10	PT-10	PT10	PT-11	PT-11	PT11
	ES ID	01/06/92	01/06/92	01/06/92	06/23/93	01/15/92	01/15/92	07/10/93
	LAB ID	PT-1(1)	PT-10(2)	PT-10(2) Filtered	PT10	PT-11	PT-11Filtered	PT11
COMPOUND	UNITS	152259	152156	152199	187234	152574	152593	188728
SEMIVOLATILES								
Phenol	µg/L	11 U	10 U	NS	10 U	11 U	NS	10 U
bis(2-Chloroethyl) ether	µg/L	11 U	10 U	NS	10 U	11 U	NS	10 U
2-Chlorophenol	µg/L	11 U	10 U	NS	10 U	11 U	NS	10 U
1,3-Dichlorobenzene	µg/L	11 U	10 U	NS	10 U	11 U	NS	10 U
1,4-Dichlorobenzene	µg/L	11 U	10 U	NS	10 U	11 U	NS	10 U
Benzyl Alcohol	µg/L	11 U	10 U	NS	NS	11 U	NS	NS
1,2-Dichlorobenzene	µg/L	11 U	10 U	NS	10 U	11 U	NS	10 U
2-Methylphenol	µg/L	11 U	10 U	NS	10 U	11 U	NS	10 U
bis(2-Chloroisopropyl) ether	µg/L	11 U	10 U	NS	10 U	11 U	NS	10 U
4-Methylphenol	µg/L	11 U	10 U	NS	10 U	11 U	NS	10 U
N-Nitroso-di-n-propylamine	µg/L	11 U	10 U	NS	10 U	11 U	NS	10 U
Hexachloroethane	µg/L	11 U	10 U	NS	10 U	11 U	NS	10 U
Nitrobenzene	µg/L	11 U	10 U	NS	10 U	11 U	NS	10 U
Isophorone	µg/L	11 U	10 U	NS	10 U	11 U	NS	10 U
2-Nitrophenol	µg/L	11 U	10 U	NS	10 U	11 U	NS	10 U
2,4-Dimethylphenol	µg/L	11 U	10 U	NS	10 U	11 U	NS	10 U
Benzoic acid	µg/L	54 U	52 U	NS	NS	55 U	NS	NS
bis(2-Chloroethoxy) methane	µg/L	11 U	10 U	NS	10 U	11 U	NS	10 U
2,4-Dichlorophenol	µg/L	11 U	10 U	NS	10 U	11 U	NS	10 U
1,2,4-Trichlorobenzene	µg/L	11 U	10 U	NS	10 U	11 U	NS	10 U
Naphthalene	µg/L	11 U	10 U	NS	10 U	11 U	NS	10 U
4-Chloroaniline	µg/L	11 U	10 U	NS	10 U	11 U	NS	10 U
Hexachlorobutadiene	µg/L	11 U	10 U	NS	10 U	11 U	NS	10 U
4-Chloro-3-methylphenol	µg/L	11 U	10 U	NS	10 U	11 U	NS	10 U
2-Methylnaphthalene	µg/L	11 U	10 U	NS	10 U	11 U	NS	10 U
Hexachlorocyclopentadiene	µg/L	11 U	10 U	NS	10 U	11 U	NS	10 U
2,4,6-Trichlorophenol	µg/L	11 U	10 U	NS	10 U	11 U	NS	10 U
2,4,5-Trichlorophenol	µg/L	54 U	52 U	NS	25 U	55 U	NS	25 U
2-Chloronaphthalene	µg/L	11 U	10 U	NS	10 U	11 U	NS	10 U
2-Nitroaniline	µg/L	54 U	52 U	NS	25 U	55 U	NS	25 U
Dimethylphthalate	µg/L	11 U	10 U	NS	10 U	11 U	NS	10 U
Acenaphthylene	µg/L	11 U	10 U	NS	10 U	11 U	NS	10 U
2,6-Dinitrotoluene	µg/L	11 U	10 U	NS	10 U	11 U	NS	10 U
3-Nitroaniline	µg/L	NS	52 U	NS	25 U	55 U	NS	25 U
Acenaphthene	µg/L	NS	10 U	NS	10 U	11 U	NS	10 U
2,4-Dinitrophenol	µg/L	NS	52 U	NS	25 U	55 U	NS	25 U
4-Nitrophenol	µg/L	NS	52 U	NS	25 U	55 U	NS	25 U
Dibenzofuran	µg/L	NS	10 U	NS	10 U	11 U	NS	10 U
2,4-Dinitrotoluene	µg/L	NS	10 U	NS	10 U	11 U	NS	10 U
Diethylphthalate	µg/L	NS	10 U	NS	10 U	11 U	NS	10 U
4-Chlorophenyl-phenylether	µg/L	NS	10 U	NS	10 U	11 U	NS	10 U
Fluorene	µg/L	NS	10 U	NS	10 U	11 U	NS	10 U
4-Nitroaniline	µg/L	NS	52 U	NS	25 U	55 U	NS	25 U
4,6-Dinitro-2-methylphenol	µg/L	NS	52 U	NS	25 U	55 U	NS	25 U
N-Nitrosodiphenylamine (1)	µg/L	NS	10 U	NS	10 U	11 U	NS	10 U
4-Bromophenyl-phenylether	µg/L	NS	10 U	NS	10 U	11 U	NS	10 U
Hexachlorobenzene	µg/L	NS	10 U	NS	10 U	11 U	NS	10 U
Pentachlorophenol	µg/L	NS	52 U	NS	25 U	55 U	NS	25 U
Phenanthrene	µg/L	NS	10 U	NS	10 U	11 U	NS	10 U
Anthracene	µg/L	NS	10 U	NS	10 U	11 U	NS	10 U
Carbazole	µg/L	NS	NS	NS	10 U	NS	NS	10 U
Di-n-butylphthalate	µg/L	NS	10 U	NS	18	11 U	NS	10 U
Fluoranthene	µg/L	NS	10 U	NS	10 U	11 U	NS	10 U
Pyrene	µg/L	NS	10 U	NS	10 U	11 U	NS	10 U
Butylbenzylphthalate	µg/L	NS	10 U	NS	10 U	11 U	NS	10 U
3,3'-Dichlorobenzidine	µg/L	NS	21 U	NS	10 U	22 U	NS	10 U
Benzo(a)anthracene	µg/L	NS	10 U	NS	10 U	11 U	NS	10 U
Chrysene	µg/L	NS	10 U	NS	10 U	11 U	NS	10 U
bis(2-Ethylhexyl)phthalate	µg/L	NS	10 U	NS	30 U	11 U	NS	10 U
Di-n-octylphthalate	µg/L	NS	10 U	NS	10 U	11 U	NS	10 U
Benzo(b)fluoranthene	µg/L	NS	10 U	NS	10 U	11 U	NS	10 U
Benzo(k)fluoranthene	µg/L	NS	10 U	NS	10 U	11 U	NS	10 U
Benzo(a)pyrene	µg/L	NS	10 U	NS	10 U	11 U	NS	10 U
Indeno(1,2,3-cd)pyrene	µg/L	NS	10 U	NS	10 U	11 U	NS	10 U
Dibenz(a,h)anthracene	µg/L	NS	10 U	NS	10 U	11 U	NS	10 U
Benzo(g,h,i)perylene	µg/L	NS	10 U	NS	10 U	11 U	NS	10 U

SENECA ARMY DEPOT, ASH LANDFILL
GROUNDWATER ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

COMPOUND	MATRIX LOCATION DATE ES ID LAB ID UNITS	PHASE I WATER PT-10 01/08/92 PT-1(1) 152259	PHASE I WATER PT-10 01/08/92 PT-10(2) 152156	PHASE I WATER PT-10 01/08/92 PT-10(2) Filtered 152199	PHASE II WATER PT10 08/23/93 PT10 167234	PHASE I WATER PT-11 01/15/92 PT-11 152574	PHASE I WATER PT-11 01/15/92 PT-11Filtered 152593	PHASE II WATER PT11 07/10/93 PT11 168726
PESTICIDES/PCBS								
alpha-BHC	µg/L	0.058 U	0.05 U	NS	0.05 U	0.055 U	NS	NS
beta-BHC	µg/L	0.058 U	0.05 U	NS	0.05 U	0.055 U	NS	NS
delta-BHC	µg/L	0.058 U	0.05 U	NS	0.05 U	0.055 U	NS	NS
gamma-BHC (Lindane)	µg/L	0.058 U	0.05 U	NS	0.05 U	0.055 U	NS	NS
Heptachlor	µg/L	0.058 U	0.05 U	NS	0.05 U	0.055 U	NS	NS
Aldrin	µg/L	0.058 U	0.05 U	NS	0.05 U	0.055 U	NS	NS
Heptachlor epoxide	µg/L	0.058 U	0.05 U	NS	0.05 U	0.055 U	NS	NS
Endosulfan I	µg/L	0.058 U	0.05 U	NS	0.05 U	0.055 U	NS	NS
Dieldrin	µg/L	0.12 U	0.1 U	NS	0.1 U	0.11 U	NS	NS
4,4'-DDE	µg/L	0.12 U	0.1 U	NS	0.1 U	0.11 U	NS	NS
Endrin	µg/L	0.12 U	0.1 U	NS	0.1 U	0.11 U	NS	NS
Endosulfan II	µg/L	0.12 U	0.1 U	NS	0.1 U	0.11 U	NS	NS
4,4'-DDD	µg/L	0.12 U	0.1 U	NS	0.1 U	0.11 U	NS	NS
Endosulfan sulfate	µg/L	0.12 U	0.1 U	NS	0.1 U	0.11 U	NS	NS
4,4'-DDT	µg/L	0.12 U	0.1 U	NS	0.1 U	0.11 U	NS	NS
Methoxychlor	µg/L	0.58 U	0.5 U	NS	0.5 U	0.55 U	NS	NS
Endrin ketone	µg/L	0.12 U	0.1 U	NS	0.1 U	0.11 U	NS	NS
Endrin aldehyde	µg/L	NS	NS	NS	0.1 U	NS	NS	NS
alpha-Chlordane	µg/L	0.58 U	0.5 U	NS	0.05 U	0.55 U	NS	NS
gamma-Chlordane	µg/L	0.58 U	0.5 U	NS	0.05 U	0.55 U	NS	NS
Toxaphene	µg/L	1.2 U	1 U	NS	5 U	1.1 U	NS	NS
Aroclor-1016	µg/L	0.58 U	0.5 U	NS	1 U	0.55 U	NS	NS
Aroclor-1221	µg/L	0.58 U	0.5 U	NS	2 U	0.55 U	NS	NS
Aroclor-1232	µg/L	0.58 U	0.5 U	NS	1 U	0.55 U	NS	NS
Aroclor-1242	µg/L	0.58 U	0.5 U	NS	1 U	0.55 U	NS	NS
Aroclor-1248	µg/L	0.58 U	0.5 U	NS	1 U	0.55 U	NS	NS
Aroclor-1254	µg/L	1.2 U	1 U	NS	1 U	1.1 U	NS	NS
Aroclor-1260	µg/L	1.2 U	1 U	NS	1 U	1.1 U	NS	NS
HERBICIDES								
2,4-D	µg/L	NS	1 U	NS	1.1 U	1.2 U	NS	NS
2,4-DB	µg/L	NS	1 U	NS	1.1 U	1.2 U	NS	NS
2,4,5-T	µg/L	NS	0.1 U	NS	0.11 U	0.1 U	NS	NS
2,4,5-TP (Silvex)	µg/L	NS	0.1 U	NS	0.11 U	0.1 U	NS	NS
Dalapon	µg/L	NS	2.3 U	NS	2.4 U	2.7 U	NS	NS
Dicamba	µg/L	NS	0.1 U	NS	0.11 U	0.1 U	NS	NS
Dichloroprop	µg/L	NS	1 U	NS	1.1 U	1.2 U	NS	NS
Dinoseb	µg/L	NS	0.5 U	NS	0.51 U	0.5 U	NS	NS
MCPA	µg/L	NS	100 U	NS	110 U	120 U	NS	NS
MCPP	µg/L	NS	100 U	NS	110 U	120 U	NS	NS
METALS								
Aluminum	µg/L	NS	98.1 U	24.4 U	72 U	2960	24.4 U	NS
Antimony	µg/L	NS	55.9 U	53 U	49.5 UJ	53.3 U	52.9 U	NS
Arsenic	µg/L	NS	3.5 U J	3.5 U	1.4 UJ	3.5 U	3.5 U	NS
Barium	µg/L	NS	198 J	203	193 J	121 J	77 J	NS
Beryllium	µg/L	NS	1.4 R	2.6 R	0.89 U	2 R	1.3 R	NS
Cadmium	µg/L	NS	2.9 U	3 U	2.6 U	3 U	3 U	NS
Calcium	µg/L	NS	86500 J	86900	79100	124000	114000	NS
Chromium	µg/L	NS	6.2 U	6.2 U	2.7 UJ	6.6 J	6.1 U	NS
Cobalt	µg/L	NS	20 U	20.3 U	5.4 U	20.5 U	20.3 U	NS
Copper	µg/L	NS	14.5 U	10.1 U	4.7 U	10.2 U	10.1 U	NS
Iron	µg/L	NS	108	6.9 U	55.6 J	3270	6.9 U	NS
Lead	µg/L	NS	1.2 U	1.4 J	0.79 U	1.2 U	1.2 U	NS
Magnesium	µg/L	NS	32700 J	39800	34200	37300	33600	NS
Manganese	µg/L	NS	99.6	43.8	124	59.1	4.8 U	NS
Mercury	µg/L	NS	0.13 R	0.09 R	0.09 UJ	0.09 R	0.1 R	NS
Nickel	µg/L	NS	16 U	14.7 U	7.4 UJ	14.8 U	14.7 U	NS
Potassium	µg/L	NS	1300 J	1830 J	2570 J	3480 J	1880 J	NS
Selenium	µg/L	NS	1 U	1 U	0.89 UJ	1.3 U	1 U	NS
Silver	µg/L	NS	9.1 U	3.4 U	5.4 U	3.4 U	3.4 U	NS
Sodium	µg/L	NS	37700 J	35900	41100	40300	37500	NS
Thallium	µg/L	NS	3.2 U	3.2 U	2.6 U	3.2 U	3.2 U	NS
Vanadium	µg/L	NS	30.5 U	9.4 U	6.7 UJ	9.5 U	9.4 U	NS
Zinc	µg/L	NS	19.2 J	8.4 U	8.6 J	18.5 R	8.4 U	NS
Cyanide	µg/L	NS	11.2 J	NS	10 UJ	10 U	NS	NS

SENECA ARMY DEPOT, ASH LANDFILL
GROUNDWATER ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

	MATRIX	PHASE II WATER	PHASE II WATER	PHASE I WATER	PHASE I WATER	PHASE I WATER	PHASE I WATER	PHASE II WATER
	LOCATION	ASH	ASH	PT-12	PT-12	PT-12	PT-12	PT12
	DATE	07/13/93	07/10/93	01/17/92	01/17/92	01/17/92	01/17/92	07/15/93
	ES ID	PT11	PT11	PT-12	PT-12Filtered	PT-3(1)	PT-3(1)Filtered	PT12
	LAB ID	188805	188795	152704	152711	152703	152710	189112
COMPOUND	UNITS							
Chloromethane	µg/L	NS	NS	10 U	NS	10 U	NS	10 U
Bromomethane	µg/L	NS	NS	10 U	NS	10 U	NS	10 U
Vinyl Chloride	µg/L	NS	NS	4 J	NS	4 J	NS	88
Chloroethane	µg/L	NS	NS	10 U	NS	10 U	NS	10 U
Methylene Chloride	µg/L	NS	NS	5 U	NS	5 U	NS	10 U
Acetone	µg/L	NS	NS	10 U	NS	10 U	NS	10 U
Carbon Disulfide	µg/L	NS	NS	5 U	NS	5 U	NS	10 U
1,1-Dichloroethene	µg/L	NS	NS	5 U	NS	5 U	NS	3 J
1,1-Dichloroethane	µg/L	NS	NS	5 U	NS	5 U	NS	10 U
1,2-Dichloroethene (total)	µg/L	NS	NS	190	NS	200	NS	1400
Chloroform	µg/L	NS	NS	5 U	NS	5 U	NS	10 U
1,2-Dichloroethane	µg/L	NS	NS	5 U	NS	5 U	NS	10 U
2-Butanone	µg/L	NS	NS	10 U	NS	10 U	NS	10 U
1,1,1-Trichloroethane	µg/L	NS	NS	5 U	NS	5 U	NS	10 U
Carbon Tetrachloride	µg/L	NS	NS	5 U	NS	5 U	NS	10 U
Vinyl Acetate	µg/L	NS	NS	10 U	NS	10 U	NS	NS
Bromodichloromethane	µg/L	NS	NS	5 U	NS	5 U	NS	10 U
1,2-Dichloropropane	µg/L	NS	NS	5 U	NS	5 U	NS	10 U
cis-1,3-Dichloropropene	µg/L	NS	NS	5 U	NS	5 U	NS	10 U
Trichloroethene	µg/L	NS	NS	180	NS	180	NS	970
Dibromochloromethane	µg/L	NS	NS	5 U	NS	5 U	NS	10 U
1,1,2-Trichloroethane	µg/L	NS	NS	5 U	NS	5 U	NS	10 U
Benzene	µg/L	NS	NS	5 U	NS	5 U	NS	10 U
trans-1,3-Dichloropropene	µg/L	NS	NS	5 U	NS	5 U	NS	10 U
Bromoform	µg/L	NS	NS	5 U	NS	5 U	NS	10 U
4-Methyl-2-Pentanone	µg/L	NS	NS	10 U	NS	10 U	NS	10 U
2-Hexanone	µg/L	NS	NS	10 U	NS	10 U	NS	10 U
Tetrachloroethene	µg/L	NS	NS	5 U	NS	5 U	NS	10 U
1,1,2,2-Tetrachloroethane	µg/L	NS	NS	5 U	NS	5 U	NS	10 U
Toluene	µg/L	NS	NS	5 U	NS	5 U	NS	2 J
Chlorobenzene	µg/L	NS	NS	5 U	NS	5 U	NS	10 U
Ethylbenzene	µg/L	NS	NS	5 U	NS	5 U	NS	10 U
Styrene	µg/L	NS	NS	5 U	NS	5 U	NS	10 U
Xylene (total)	µg/L	NS	NS	5 U	NS	5 U	NS	10 U

SENECA ARMY DEPOT, ASH LANDFILL
GROUNDWATER ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

COMPOUND	MATRIX	PHASE II	PHASE II	PHASE I	PHASE I	PHASE I	PHASE I	PHASE II
	LOCATION	WATER	WATER	WATER	WATER	WATER	WATER	WATER
	DATE	ASH	ASH	PT-12	PT-12	PT-12	PT-12	PT12
	ES ID	07/13/93	07/10/93	01/17/92	01/17/92	01/17/92	01/17/92	07/15/93
	LAB ID	PT11	PT11	PT-12	PT-12Filtered	PT-3(1)	PT-3(1)Filtered	PT12
	UNITS	188605	188795	152704	152711	152703	152710	189112
VOC's (524.2)								
Dichlorodifluoromethane	µg/L	NS	NS	NS	NS	NS	NS	NS
Chloromethane	µg/L	NS	NS	NS	NS	NS	NS	NS
Vinyl Chloride	µg/L	NS	NS	NS	NS	NS	NS	NS
Bromomethane	µg/L	NS	NS	NS	NS	NS	NS	NS
Chloroethane	µg/L	NS	NS	NS	NS	NS	NS	NS
Trichlorofluoromethane	µg/L	NS	NS	NS	NS	NS	NS	NS
1,1-Dichloroethene	µg/L	NS	NS	NS	NS	NS	NS	NS
Acetone	µg/L	NS	NS	NS	NS	NS	NS	NS
Carbon Disulfide	µg/L	NS	NS	NS	NS	NS	NS	NS
Methylene Chloride	µg/L	NS	NS	NS	NS	NS	NS	NS
trans-1,2-Dichloroethene	µg/L	NS	NS	NS	NS	NS	NS	NS
1,1-Dichloroethane	µg/L	NS	NS	NS	NS	NS	NS	NS
2,2-Dichloropropane	µg/L	NS	NS	NS	NS	NS	NS	NS
cis-1,2-Dichloroethene	µg/L	NS	NS	NS	NS	NS	NS	NS
2-Butanone	µg/L	NS	NS	NS	NS	NS	NS	NS
Bromochloromethane	µg/L	NS	NS	NS	NS	NS	NS	NS
Chloroform	µg/L	NS	NS	NS	NS	NS	NS	NS
1,1,1-Trichloroethane	µg/L	NS	NS	NS	NS	NS	NS	NS
Carbon Tetrachloride	µg/L	NS	NS	NS	NS	NS	NS	NS
1,1-Dichloropropene	µg/L	NS	NS	NS	NS	NS	NS	NS
Benzene	µg/L	NS	NS	NS	NS	NS	NS	NS
1,2-Dichloroethane	µg/L	NS	NS	NS	NS	NS	NS	NS
Trichloroethene	µg/L	NS	NS	NS	NS	NS	NS	NS
1,2-Dichloropropane	µg/L	NS	NS	NS	NS	NS	NS	NS
Dibromomethane	µg/L	NS	NS	NS	NS	NS	NS	NS
Bromodichloromethane	µg/L	NS	NS	NS	NS	NS	NS	NS
cis-1,3-Dichloropropene	µg/L	NS	NS	NS	NS	NS	NS	NS
4-Methyl-2-Pentanone	µg/L	NS	NS	NS	NS	NS	NS	NS
Toluene	µg/L	NS	NS	NS	NS	NS	NS	NS
trans-1,3-Dichloropropene	µg/L	NS	NS	NS	NS	NS	NS	NS
1,1,2-Trichloroethane	µg/L	NS	NS	NS	NS	NS	NS	NS
Tetrachloroethene	µg/L	NS	NS	NS	NS	NS	NS	NS
1,3-Dichloropropane	µg/L	NS	NS	NS	NS	NS	NS	NS
2-Hexanone	µg/L	NS	NS	NS	NS	NS	NS	NS
Dibromochloromethane	µg/L	NS	NS	NS	NS	NS	NS	NS
1,2-Dibromoethane	µg/L	NS	NS	NS	NS	NS	NS	NS
Chlorobenzene	µg/L	NS	NS	NS	NS	NS	NS	NS
1,1,1,2-Tetrachloroethane	µg/L	NS	NS	NS	NS	NS	NS	NS
Ethylbenzene	µg/L	NS	NS	NS	NS	NS	NS	NS
Styrene	µg/L	NS	NS	NS	NS	NS	NS	NS
Bromoform	µg/L	NS	NS	NS	NS	NS	NS	NS
Isopropylbenzene	µg/L	NS	NS	NS	NS	NS	NS	NS
Bromobenzene	µg/L	NS	NS	NS	NS	NS	NS	NS
1,1,2,2-Tetrachloroethane	µg/L	NS	NS	NS	NS	NS	NS	NS
1,2,3-Trichloropropane	µg/L	NS	NS	NS	NS	NS	NS	NS
n-Propylbenzene	µg/L	NS	NS	NS	NS	NS	NS	NS
2-Chlorotoluene	µg/L	NS	NS	NS	NS	NS	NS	NS
4-Chlorotoluene	µg/L	NS	NS	NS	NS	NS	NS	NS
1,3,5-Trimethylbenzene	µg/L	NS	NS	NS	NS	NS	NS	NS
tert-Butylbenzene	µg/L	NS	NS	NS	NS	NS	NS	NS
1,2,4-Trimethylbenzene	µg/L	NS	NS	NS	NS	NS	NS	NS
sec-Butylbenzene	µg/L	NS	NS	NS	NS	NS	NS	NS
1,3-Dichlorobenzene	µg/L	NS	NS	NS	NS	NS	NS	NS
1,4-Dichlorobenzene	µg/L	NS	NS	NS	NS	NS	NS	NS
p-Isopropyltoluene	µg/L	NS	NS	NS	NS	NS	NS	NS
1,2-Dichlorobenzene	µg/L	NS	NS	NS	NS	NS	NS	NS
n-Butylbenzene	µg/L	NS	NS	NS	NS	NS	NS	NS
1,2-Dibromo-3-Chloropropane	µg/L	NS	NS	NS	NS	NS	NS	NS
1,2,4-Trichlorobenzene	µg/L	NS	NS	NS	NS	NS	NS	NS
Hexachlorobutadiene	µg/L	NS	NS	NS	NS	NS	NS	NS
Naphthalene	µg/L	NS	NS	NS	NS	NS	NS	NS
1,2,3-Trichlorobenzene	µg/L	NS	NS	NS	NS	NS	NS	NS
Xylene (total)	µg/L	NS	NS	NS	NS	NS	NS	NS

SENECA ARMY DEPOT, ASH LANDFILL
GROUNDWATER ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

COMPOUND	MATRIX	PHASE II WATER	PHASE II WATER	PHASE I WATER	PHASE I WATER	PHASE I WATER	PHASE I WATER	PHASE II WATER
	LOCATION	ASH	ASH	PT-12	PT-12	PT-12	PT-12	PT12
	DATE	07/13/93	07/10/93	01/17/92	01/17/92	01/17/92	01/17/92	07/15/93
	ES ID	PT11	PT11	PT-12	PT-12Filtered	PT-3(1)	PT-3(1)Filtered	PT12
	LAB ID	188805	188795	152704	152711	152703	152710	189112
	UNITS							
SEMIVOLATILES								
Phenol	µg/L	NS	NS	11 U	NS	11 U	NS	10 U
bis(2-Chloroethyl) ether	µg/L	NS	NS	11 U	NS	11 U	NS	10 U
2-Chlorophenol	µg/L	NS	NS	11 U	NS	11 U	NS	10 U
1,3-Dichlorobenzene	µg/L	NS	NS	11 U	NS	11 U	NS	10 U
1,4-Dichlorobenzene	µg/L	NS	NS	11 U	NS	11 U	NS	10 U
Benzyl Alcohol	µg/L	NS	NS	11 U	NS	11 U	NS	NS
1,2-Dichlorobenzene	µg/L	NS	NS	11 U	NS	11 U	NS	10 U
2-Methylphenol	µg/L	NS	NS	11 U	NS	11 U	NS	10 U
bis(2-Chloroisopropyl) ether	µg/L	NS	NS	11 U	NS	11 U	NS	10 U
4-Methylphenol	µg/L	NS	NS	11 U	NS	11 U	NS	10 U
N-Nitroso-di-n-propylamine	µg/L	NS	NS	11 U	NS	11 U	NS	10 U
Hexachloroethane	µg/L	NS	NS	11 U	NS	11 U	NS	10 U
Nitrobenzene	µg/L	NS	NS	11 U	NS	11 U	NS	10 U
Isophorone	µg/L	NS	NS	11 U	NS	11 U	NS	10 U
2-Nitrophenol	µg/L	NS	NS	11 U	NS	11 U	NS	10 U
2,4-Dimethylphenol	µg/L	NS	NS	11 U	NS	11 U	NS	10 U
Benzoic acid	µg/L	NS	NS	55 U	NS	55 U	NS	NS
bis(2-Chloroethoxy) methane	µg/L	NS	NS	11 U	NS	11 U	NS	10 U
2,4-Dichlorophenol	µg/L	NS	NS	11 U	NS	11 U	NS	10 U
1,2,4-Trichlorobenzene	µg/L	NS	NS	11 U	NS	11 U	NS	10 U
Naphthalene	µg/L	NS	NS	11 U	NS	11 U	NS	10 U
4-Chloroaniline	µg/L	NS	NS	11 U	NS	11 U	NS	10 U
Hexachlorobutadiene	µg/L	NS	NS	11 U	NS	11 U	NS	10 U
4-Chloro-3-methylphenol	µg/L	NS	NS	11 U	NS	11 U	NS	10 U
2-Methylnaphthalene	µg/L	NS	NS	11 U	NS	11 U	NS	10 U
Hexachlorocyclopentadiene	µg/L	NS	NS	11 U	NS	11 U	NS	10 U
2,4,6-Trichlorophenol	µg/L	NS	NS	11 U	NS	11 U	NS	10 U
2,4,5-Trichlorophenol	µg/L	NS	NS	55 U	NS	55 U	NS	25 U
2-Chloronaphthalene	µg/L	NS	NS	11 U	NS	11 U	NS	10 U
2-Nitroaniline	µg/L	NS	NS	55 U	NS	55 U	NS	25 U
Dimethylphthalate	µg/L	NS	NS	11 U	NS	11 U	NS	10 U
Acenaphthylene	µg/L	NS	NS	11 U	NS	11 U	NS	10 U
2,6-Dinitrotoluene	µg/L	NS	NS	11 U	NS	11 U	NS	10 U
3-Nitroaniline	µg/L	NS	NS	55 U	NS	55 U	NS	25 U
Acenaphthene	µg/L	NS	NS	11 U	NS	11 U	NS	10 U
2,4-Dinitrophenol	µg/L	NS	NS	55 U	NS	55 U	NS	25 U
4-Nitrophenol	µg/L	NS	NS	55 U	NS	55 U	NS	25 U
Dibenzofuran	µg/L	NS	NS	11 U	NS	11 U	NS	10 U
2,4-Dinitrotoluene	µg/L	NS	NS	11 U	NS	11 U	NS	10 U
Diethylphthalate	µg/L	NS	NS	11 U	NS	11 U	NS	10 U
4-Chlorophenyl-phenylether	µg/L	NS	NS	11 U	NS	11 U	NS	10 U
Fluorene	µg/L	NS	NS	11 U	NS	11 U	NS	10 U
4-Nitroaniline	µg/L	NS	NS	55 U	NS	55 U	NS	25 U
4,6-Dinitro-2-methylphenol	µg/L	NS	NS	55 U	NS	55 U	NS	25 U
N-Nitrosodiphenylamine (1)	µg/L	NS	NS	11 U	NS	11 U	NS	10 U
4-Bromophenyl-phenylether	µg/L	NS	NS	11 U	NS	11 U	NS	10 U
Hexachlorobenzene	µg/L	NS	NS	11 U	NS	11 U	NS	10 U
Pentachlorophenol	µg/L	NS	NS	55 U	NS	55 U	NS	25 U
Phenanthrene	µg/L	NS	NS	11 U	NS	11 U	NS	10 U
Anthracene	µg/L	NS	NS	11 U	NS	11 U	NS	10 U
Carbazole	µg/L	NS	NS	NS	NS	NS	NS	10 U
Di-n-butylphthalate	µg/L	NS	NS	11 U	NS	11 U	NS	3 J
Fluoranthene	µg/L	NS	NS	11 U	NS	11 U	NS	10 U
Pyrene	µg/L	NS	NS	11 U	NS	11 U	NS	10 U
Butylbenzylphthalate	µg/L	NS	NS	11 U	NS	11 U	NS	10 U
3,3'-Dichlorobenzidine	µg/L	NS	NS	22 U	NS	22 U	NS	10 U
Benzo(a)anthracene	µg/L	NS	NS	11 U	NS	11 U	NS	10 U
Chrysene	µg/L	NS	NS	11 U	NS	11 U	NS	10 U
bis(2-Ethylhexyl)phthalate	µg/L	NS	NS	30 U	NS	11 U	NS	10 U
Di-n-octylphthalate	µg/L	NS	NS	11 U	NS	11 U	NS	10 U
Benzo(b)fluoranthene	µg/L	NS	NS	11 U	NS	11 U	NS	10 U
Benzo(k)fluoranthene	µg/L	NS	NS	11 U	NS	11 U	NS	10 U
Benzo(a)pyrene	µg/L	NS	NS	11 U	NS	11 U	NS	10 U
Indeno(1,2,3-cd)pyrene	µg/L	NS	NS	11 U	NS	11 U	NS	10 U
Dibenz(a,h)anthracene	µg/L	NS	NS	11 U	NS	11 U	NS	10 U
Benzo(g,h,i)perylene	µg/L	NS	NS	11 U	NS	11 U	NS	10 U

SENECA ARMY DEPOT, ASH LANDFILL
GROUNDWATER ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

COMPOUND	MATRIX	PHASE II WATER	PHASE II WATER	PHASE I WATER	PHASE I WATER	PHASE I WATER	PHASE I WATER	PHASE II WATER
	LOCATION	ASH	ASH	PT-12	PT-12	PT-12	PT-12	PT12
	DATE	07/13/93	07/10/93	01/17/92	01/17/92	01/17/92	01/17/92	07/15/93
	ES ID	PT11	PT11	PT-12	PT-12Filtered	PT-3(1)	PT-3(1)Filtered	PT12
	LAB ID	188805	188795	152704	152711	152703	152710	189112
	UNITS							
PESTICIDES/PCBS								
alpha-BHC	µg/L	0.05 UJ	NS	0.053 U	NS	0.058 U	NS	0.05 U
beta-BHC	µg/L	0.05 UJ	NS	0.053 U	NS	0.058 U	NS	0.05 U
delta-BHC	µg/L	0.05 UJ	NS	0.053 U	NS	0.058 U	NS	0.05 U
gamma-BHC (Lindane)	µg/L	0.05 UJ	NS	0.053 U	NS	0.058 U	NS	0.05 U
Heptachlor	µg/L	0.05 UJ	NS	0.053 U	NS	0.058 U	NS	0.05 U
Aldrin	µg/L	0.05 UJ	NS	0.053 U	NS	0.058 U	NS	0.05 U
Heptachlor epoxide	µg/L	0.05 UJ	NS	0.053 U	NS	0.058 U	NS	0.05 U
Endosulfan I	µg/L	0.05 UJ	NS	0.053 U	NS	0.058 U	NS	0.05 U
Dieldrin	µg/L	0.1 UJ	NS	0.11 U	NS	0.12 U	NS	0.1 U
4,4'-DDE	µg/L	0.1 UJ	NS	0.11 U	NS	0.12 U	NS	0.1 U
Endrin	µg/L	0.1 UJ	NS	0.11 U	NS	0.12 U	NS	0.1 U
Endosulfan II	µg/L	0.1 UJ	NS	0.11 U	NS	0.12 U	NS	0.1 U
4,4'-DDD	µg/L	0.1 UJ	NS	0.11 U	NS	0.12 U	NS	0.1 U
Endosulfan sulfate	µg/L	0.1 UJ	NS	0.11 U	NS	0.12 U	NS	0.1 U
4,4'-DDT	µg/L	0.1 UJ	NS	0.11 U	NS	0.12 U	NS	0.1 U
Methoxychlor	µg/L	0.5 UJ	NS	0.53 U	NS	0.58 U	NS	0.5 U
Endrin ketone	µg/L	0.1 UJ	NS	0.11 U	NS	0.12 U	NS	0.1 U
Endrin aldehyde	µg/L	0.1 UJ	NS	NS	NS	NS	NS	0.1 U
alpha-Chlordane	µg/L	0.05 UJ	NS	0.53 U	NS	0.58 U	NS	0.05 U
gamma-Chlordane	µg/L	0.05 UJ	NS	0.53 U	NS	0.58 U	NS	0.05 U
Toxaphene	µg/L	5 UJ	NS	1.1 U	NS	1.2 U	NS	5 U
Aroclor-1016	µg/L	1 UJ	NS	0.53 U	NS	0.58 U	NS	1 U
Aroclor-1221	µg/L	2 UJ	NS	0.53 U	NS	0.58 U	NS	2 U
Aroclor-1232	µg/L	1 UJ	NS	0.53 U	NS	0.58 U	NS	1 U
Aroclor-1242	µg/L	1 UJ	NS	0.53 U	NS	0.58 U	NS	1 U
Aroclor-1248	µg/L	1 UJ	NS	0.53 U	NS	0.58 U	NS	1 U
Aroclor-1254	µg/L	1 UJ	NS	1.1 U	NS	1.2 U	NS	1 U
Aroclor-1260	µg/L	1 UJ	NS	1.1 U	NS	1.2 U	NS	1 U
HERBICIDES								
2,4-D	µg/L	NS	1 R	1.4 U	NS	1 U	NS	1.1 U
2,4-DB	µg/L	NS	1 R	1.4 U	NS	1 U	NS	1.1 U
2,4,5-T	µg/L	NS	0.1 R	0.1 U	NS	0.1 U	NS	0.11 U
2,4,5-TP (Silvex)	µg/L	NS	0.1 R	0.1 U	NS	0.1 U	NS	0.11 U
Dalapon	µg/L	NS	2.3 R	3.2 U	NS	2.3 U	NS	3.9
Dicamba	µg/L	NS	0.1 R	0.1 U	NS	0.1 U	NS	0.11 U
Dichloroprop	µg/L	NS	1 R	1.4 U	NS	1 U	NS	1.1 U
Dinoseb	µg/L	NS	0.5 R	0.7 U	NS	0.5 U	NS	0.53 U
MCPA	µg/L	NS	100 R	140 U	NS	100 U	NS	110 U
MCPP	µg/L	NS	100 R	140 U	NS	100 U	NS	110 U
METALS								
Aluminum	µg/L	NS	3530	27300 J	24.5 U	18400 J	24.4 U	10100 J
Antimony	µg/L	NS	49.7 U	53.2 U	83.2 U	53.1 U	53 U	49.9 U
Arsenic	µg/L	NS	1.4 U	4.5 J	3.5 U	7.5 J	3.5 U	2.4 J
Barium	µg/L	NS	143 J	258	55.7 R	255	53.2 R	118 J
Beryllium	µg/L	NS	0.89 U	2.3 R	1.1 U	1.9 R	1.1 U	0.9 U
Cadmium	µg/L	NS	2.8 U	4.5 J	3 U	3.8 J	3 U	2.8 U
Calcium	µg/L	NS	126000	274000 J	180000	245000 J	175000	285000
Chromium	µg/L	NS	6.1 J	36.8	6.2 U	28.3	6.1 U	13.6 J
Cobalt	µg/L	NS	8.5 U	20.4 U	20.4 U	20.4 U	20.3 U	6.7 J
Copper	µg/L	NS	6.2 J	32.6	10.2 U	24.7 J	10.1 U	4.7 UJ
Iron	µg/L	NS	4370 J	36400 J	7 U	28900 J	6.9 U	14200 J
Lead	µg/L	NS	2.3 J	16.9 R	1.2 U	10 R	1.2 U	2.9 J
Magnesium	µg/L	NS	36200	41900 J	20600	37000 J	20000	38800
Manganese	µg/L	NS	191	1270 J	4.8 U	970 J	4.8 U	508
Mercury	µg/L	NS	0.09 UJ	0.03 U	0.03 U	0.03 U	0.03 U	0.09 U
Nickel	µg/L	NS	7.4 U	46.3	14.7 U	30 J	14.7 U	18 J
Potassium	µg/L	NS	3910 J	8120	1800 J	5690	1430 J	4900 J
Selenium	µg/L	NS	1.5 U	1 U J	1.7 J	1.3 J	1 U	0.99 UJ
Silver	µg/L	NS	5.5 U	3.4 U	3.4 U	3.4 U	3.4 U	5.5 U
Sodium	µg/L	NS	33300	33900	34900	33600	27200	133000
Thallium	µg/L	NS	2.6 U	3.2 U	3.2 U	3.2 U	3.2 U	2.6 U
Vanadium	µg/L	NS	8.3 J	35.6 J	9.5 U	25.3 J	9.4 U	14.8 J
Zinc	µg/L	NS	31.4	201 J	22.3 R	159 J	24.5 R	86.1 R
Cyanide	µg/L	NS	4.3 J	10 U J	NS	10 U J	NS	4.1 J

SENECA ARMY DEPOT, ASH LANDFILL
GROUNDWATER ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

	MATRIX	PHASE II WATER	PHASE I WATER	PHASE I WATER	PHASE I WATER	PHASE I WATER	PHASE I WATER	PHASE I WATER
	LOCATION	PT12	PT-15	PT-15	PT-15	PT-15	PT-15	PT-15
	DATE	07/13/93	01/10-13/92	01/10-13/92	1/10-13/92	1/10-13/92	01/11/92	01/10-13/92
	ES ID	PT12	PT-15	PT-15	PT-15	PT-15RE(4)	PT-15	PT-15Filtered
	LAB ID	189113	152157	152167	152411	152411	152260	152293
COMPOUND	UNITS							
Chloromethane	µg/L	NS	NS	10 U	NS	NS	NS	NS
Bromomethane	µg/L	NS	NS	10 U	NS	NS	NS	NS
Vinyl Chloride	µg/L	NS	NS	10 U	NS	NS	NS	NS
Chloroethane	µg/L	NS	NS	10 U	NS	NS	NS	NS
Methylene Chloride	µg/L	NS	NS	5 U	NS	NS	NS	NS
Acetone	µg/L	NS	NS	10 U	NS	NS	NS	NS
Carbon Disulfide	µg/L	NS	NS	5 U	NS	NS	NS	NS
1,1-Dichloroethene	µg/L	NS	NS	5 U	NS	NS	NS	NS
1,1-Dichloroethane	µg/L	NS	NS	5 U	NS	NS	NS	NS
1,2-Dichloroethene (total)	µg/L	NS	NS	5 U	NS	NS	NS	NS
Chloroform	µg/L	NS	NS	5 U	NS	NS	NS	NS
1,2-Dichloroethane	µg/L	NS	NS	5 U	NS	NS	NS	NS
2-Butanone	µg/L	NS	NS	10 U	NS	NS	NS	NS
1,1,1-Trichloroethane	µg/L	NS	NS	5 U	NS	NS	NS	NS
Carbon Tetrachloride	µg/L	NS	NS	5 U	NS	NS	NS	NS
Vinyl Acetate	µg/L	NS	NS	10 U	NS	NS	NS	NS
Bromodichloromethane	µg/L	NS	NS	5 U	NS	NS	NS	NS
1,2-Dichloropropane	µg/L	NS	NS	5 U	NS	NS	NS	NS
cis-1,3-Dichloropropene	µg/L	NS	NS	5 U	NS	NS	NS	NS
Trichloroethene	µg/L	NS	NS	5 U	NS	NS	NS	NS
Dibromochloromethane	µg/L	NS	NS	5 U	NS	NS	NS	NS
1,1,2-Trichloroethane	µg/L	NS	NS	5 U	NS	NS	NS	NS
Benzene	µg/L	NS	NS	5 U	NS	NS	NS	NS
trans-1,3-Dichloropropene	µg/L	NS	NS	5 U	NS	NS	NS	NS
Bromoform	µg/L	NS	NS	5 U	NS	NS	NS	NS
4-Methyl-2-Pentanone	µg/L	NS	NS	10 U	NS	NS	NS	NS
2-Hexanone	µg/L	NS	NS	10 U	NS	NS	NS	NS
Tetrachloroethene	µg/L	NS	NS	5 U	NS	NS	NS	NS
1,1,2,2-Tetrachloroethane	µg/L	NS	NS	5 U	NS	NS	NS	NS
Toluene	µg/L	NS	NS	5 U	NS	NS	NS	NS
Chlorobenzene	µg/L	NS	NS	5 U	NS	NS	NS	NS
Ethylbenzene	µg/L	NS	NS	5 U	NS	NS	NS	NS
Styrene	µg/L	NS	NS	5 U	NS	NS	NS	NS
Xylene (total)	µg/L	NS	NS	5 U	NS	NS	NS	NS

SENECA ARMY DEPOT, ASH LANDFILL
GROUNDWATER ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

COMPOUND	MATRIX LOCATION DATE ES ID LAB ID UNITS	PHASE II WATER PT12 07/13/93 PT12 189113	PHASE I WATER PT-15 01/10-13/92 PT-15 152157	PHASE I WATER PT-15 01/10-13/92 PT-15 152167	PHASE I WATER PT-15 1/10-13/92 PT-15 152411	PHASE I WATER PT-15 1/10-13/92 PT-15RE(4) 152411	PHASE I WATER PT-15 01/11/92 PT-15 152260	PHASE I WATER PT-15 01/10-13/92 PT-15Filtered 152293
VOC's (524.2)								
Dichlorodifluoromethane	µg/L	NS	NS	NS	NS	NS	NS	NS
Chloromethane	µg/L	NS	NS	NS	NS	NS	NS	NS
Vinyl Chloride	µg/L	NS	NS	NS	NS	NS	NS	NS
Bromomethane	µg/L	NS	NS	NS	NS	NS	NS	NS
Chloroethane	µg/L	NS	NS	NS	NS	NS	NS	NS
Trichlorofluoromethane	µg/L	NS	NS	NS	NS	NS	NS	NS
1,1-Dichloroethene	µg/L	NS	NS	NS	NS	NS	NS	NS
Acetone	µg/L	NS	NS	NS	NS	NS	NS	NS
Carbon Disulfide	µg/L	NS	NS	NS	NS	NS	NS	NS
Methylene Chloride	µg/L	NS	NS	NS	NS	NS	NS	NS
trans-1,2-Dichloroethene	µg/L	NS	NS	NS	NS	NS	NS	NS
1,1-Dichloroethane	µg/L	NS	NS	NS	NS	NS	NS	NS
2,2-Dichloropropane	µg/L	NS	NS	NS	NS	NS	NS	NS
cis-1,2-Dichloroethene	µg/L	NS	NS	NS	NS	NS	NS	NS
2-Butanone	µg/L	NS	NS	NS	NS	NS	NS	NS
Bromochloromethane	µg/L	NS	NS	NS	NS	NS	NS	NS
Chloroform	µg/L	NS	NS	NS	NS	NS	NS	NS
1,1,1-Trichloroethane	µg/L	NS	NS	NS	NS	NS	NS	NS
Carbon Tetrachloride	µg/L	NS	NS	NS	NS	NS	NS	NS
1,1-Dichloropropene	µg/L	NS	NS	NS	NS	NS	NS	NS
Benzene	µg/L	NS	NS	NS	NS	NS	NS	NS
1,2-Dichloroethane	µg/L	NS	NS	NS	NS	NS	NS	NS
Trichloroethene	µg/L	NS	NS	NS	NS	NS	NS	NS
1,2-Dichloropropane	µg/L	NS	NS	NS	NS	NS	NS	NS
Dibromomethane	µg/L	NS	NS	NS	NS	NS	NS	NS
Bromodichloromethane	µg/L	NS	NS	NS	NS	NS	NS	NS
cis-1,3-Dichloropropene	µg/L	NS	NS	NS	NS	NS	NS	NS
4-Methyl-2-Pentanone	µg/L	NS	NS	NS	NS	NS	NS	NS
Toluene	µg/L	NS	NS	NS	NS	NS	NS	NS
trans-1,3-Dichloropropene	µg/L	NS	NS	NS	NS	NS	NS	NS
1,1,2-Trichloroethane	µg/L	NS	NS	NS	NS	NS	NS	NS
Tetrachloroethene	µg/L	NS	NS	NS	NS	NS	NS	NS
1,3-Dichloropropane	µg/L	NS	NS	NS	NS	NS	NS	NS
2-Hexanone	µg/L	NS	NS	NS	NS	NS	NS	NS
Dibromochloromethane	µg/L	NS	NS	NS	NS	NS	NS	NS
1,2-Dibromoethane	µg/L	NS	NS	NS	NS	NS	NS	NS
Chlorobenzene	µg/L	NS	NS	NS	NS	NS	NS	NS
1,1,1,2-Tetrachloroethane	µg/L	NS	NS	NS	NS	NS	NS	NS
Ethylbenzene	µg/L	NS	NS	NS	NS	NS	NS	NS
Styrene	µg/L	NS	NS	NS	NS	NS	NS	NS
Bromoform	µg/L	NS	NS	NS	NS	NS	NS	NS
Isopropylbenzene	µg/L	NS	NS	NS	NS	NS	NS	NS
Bromobenzene	µg/L	NS	NS	NS	NS	NS	NS	NS
1,1,2,2-Tetrachloroethane	µg/L	NS	NS	NS	NS	NS	NS	NS
1,2,3-Trichloropropane	µg/L	NS	NS	NS	NS	NS	NS	NS
n-Propylbenzene	µg/L	NS	NS	NS	NS	NS	NS	NS
2-Chlorotoluene	µg/L	NS	NS	NS	NS	NS	NS	NS
4-Chlorotoluene	µg/L	NS	NS	NS	NS	NS	NS	NS
1,3,5-Trimethylbenzene	µg/L	NS	NS	NS	NS	NS	NS	NS
tert-Butylbenzene	µg/L	NS	NS	NS	NS	NS	NS	NS
1,2,4-Trimethylbenzene	µg/L	NS	NS	NS	NS	NS	NS	NS
sec-Butylbenzene	µg/L	NS	NS	NS	NS	NS	NS	NS
1,3-Dichlorobenzene	µg/L	NS	NS	NS	NS	NS	NS	NS
1,4-Dichlorobenzene	µg/L	NS	NS	NS	NS	NS	NS	NS
p-Isopropyltoluene	µg/L	NS	NS	NS	NS	NS	NS	NS
1,2-Dichlorobenzene	µg/L	NS	NS	NS	NS	NS	NS	NS
n-Butylbenzene	µg/L	NS	NS	NS	NS	NS	NS	NS
1,2-Dibromo-3-Chloropropane	µg/L	NS	NS	NS	NS	NS	NS	NS
1,2,4-Trichlorobenzene	µg/L	NS	NS	NS	NS	NS	NS	NS
Hexachlorobutadiene	µg/L	NS	NS	NS	NS	NS	NS	NS
Naphthalene	µg/L	NS	NS	NS	NS	NS	NS	NS
1,2,3-Trichlorobenzene	µg/L	NS	NS	NS	NS	NS	NS	NS
Xylene (total)	µg/L	NS	NS	NS	NS	NS	NS	NS

SENECA ARMY DEPOT, ASH LANDFILL
GROUNDWATER ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

	MATRIX	PHASE II WATER	PHASE I WATER	PHASE I WATER	PHASE I WATER	PHASE I WATER	PHASE I WATER	PHASE I WATER
	LOCATION	PT12	PT-15	PT-15	PT-15	PT-15	PT-15	PT-15
	DATE	07/13/93	01/10-13/92	01/10-13/92	1/10-13/92	1/10-13/92	01/11/92	01/10-13/92
	ES ID	PT12	PT-15	PT-15	PT-15	PT-15RE(4)	PT-15	PT-15Filtered
	LAB ID	189113	152167	152167	152411	152411	152250	152293
COMPOUND	UNITS							
SEMIVOLATILES								
Phenol	µg/L	NS	12 U	NS	NS	NS	NS	NS
bis(2-Chloroethyl) ether	µg/L	NS	12 U	NS	NS	NS	NS	NS
2-Chlorophenol	µg/L	NS	12 U	NS	NS	NS	NS	NS
1,3-Dichlorobenzene	µg/L	NS	12 U	NS	NS	NS	NS	NS
1,4-Dichlorobenzene	µg/L	NS	12 U	NS	NS	NS	NS	NS
Benzyl Alcohol	µg/L	NS	12 U	NS	NS	NS	NS	NS
1,2-Dichlorobenzene	µg/L	NS	12 U	NS	NS	NS	NS	NS
2-Methylphenol	µg/L	NS	12 U	NS	NS	NS	NS	NS
bis(2-Chloroisopropyl) ether	µg/L	NS	12 U	NS	NS	NS	NS	NS
4-Methylphenol	µg/L	NS	12 U	NS	NS	NS	NS	NS
N-Nitroso-di-n-propylamine	µg/L	NS	12 U	NS	NS	NS	NS	NS
Hexachloroethane	µg/L	NS	12 U	NS	NS	NS	NS	NS
Nitrobenzene	µg/L	NS	12 U	NS	NS	NS	NS	NS
Isophorone	µg/L	NS	12 U	NS	NS	NS	NS	NS
2-Nitrophenol	µg/L	NS	12 U	NS	NS	NS	NS	NS
2,4-Dimethylphenol	µg/L	NS	12 U	NS	NS	NS	NS	NS
Benzoic acid	µg/L	NS	60 U	NS	NS	NS	NS	NS
bis(2-Chloroethoxy) methane	µg/L	NS	12 U	NS	NS	NS	NS	NS
2,4-Dichlorophenol	µg/L	NS	12 U	NS	NS	NS	NS	NS
1,2,4-Trichlorobenzene	µg/L	NS	12 U	NS	NS	NS	NS	NS
Naphthalene	µg/L	NS	12 U	NS	NS	NS	NS	NS
4-Chloroaniline	µg/L	NS	12 U	NS	NS	NS	NS	NS
Hexachlorobutadiene	µg/L	NS	12 U	NS	NS	NS	NS	NS
4-Chloro-3-methylphenol	µg/L	NS	12 U	NS	NS	NS	NS	NS
2-Methylnaphthalene	µg/L	NS	12 U	NS	NS	NS	NS	NS
Hexachlorocyclopentadiene	µg/L	NS	12 U	NS	NS	NS	NS	NS
2,4,6-Trichlorophenol	µg/L	NS	12 U	NS	NS	NS	NS	NS
2,4,5-Trichlorophenol	µg/L	NS	60 U	NS	NS	NS	NS	NS
2-Chloronaphthalene	µg/L	NS	12 U	NS	NS	NS	NS	NS
2-Nitroaniline	µg/L	NS	60 U	NS	NS	NS	NS	NS
Dimethylphthalate	µg/L	NS	12 U	NS	NS	NS	NS	NS
Acenaphthylene	µg/L	NS	12 U	NS	NS	NS	NS	NS
2,6-Dinitrotoluene	µg/L	NS	12 U	NS	NS	NS	NS	NS
3-Nitroaniline	µg/L	NS	60 U	NS	NS	NS	NS	NS
Acenaphthene	µg/L	NS	12 U	NS	NS	NS	NS	NS
2,4-Dinitrophenol	µg/L	NS	60 U	NS	NS	NS	NS	NS
4-Nitrophenol	µg/L	NS	60 U	NS	NS	NS	NS	NS
Dibenzofuran	µg/L	NS	12 U	NS	NS	NS	NS	NS
2,4-Dinitrotoluene	µg/L	NS	12 U	NS	NS	NS	NS	NS
Diethylphthalate	µg/L	NS	12 U	NS	NS	NS	NS	NS
4-Chlorophenyl-phenylether	µg/L	NS	12 U	NS	NS	NS	NS	NS
Fluorene	µg/L	NS	12 U	NS	NS	NS	NS	NS
4-Nitroaniline	µg/L	NS	60 U	NS	NS	NS	NS	NS
4,6-Dinitro-2-methylphenol	µg/L	NS	60 U	NS	NS	NS	NS	NS
N-Nitrosodiphenylamine (1)	µg/L	NS	12 U	NS	NS	NS	NS	NS
4-Bromophenyl-phenylether	µg/L	NS	12 U	NS	NS	NS	NS	NS
Hexachlorobenzene	µg/L	NS	12 U	NS	NS	NS	NS	NS
Pentachlorophenol	µg/L	NS	60 U	NS	NS	NS	NS	NS
Phenanthrene	µg/L	NS	12 U	NS	NS	NS	NS	NS
Anthracene	µg/L	NS	12 U	NS	NS	NS	NS	NS
Carbazole	µg/L	NS	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate	µg/L	NS	12 U	NS	NS	NS	NS	NS
Fluoranthene	µg/L	NS	12 U	NS	NS	NS	NS	NS
Pyrene	µg/L	NS	12 U	NS	NS	NS	NS	NS
Butylbenzylphthalate	µg/L	NS	12 U	NS	NS	NS	NS	NS
3,3'-Dichlorobenzidine	µg/L	NS	24 U	NS	NS	NS	NS	NS
Benzo(a)anthracene	µg/L	NS	12 U	NS	NS	NS	NS	NS
Chrysene	µg/L	NS	12 U	NS	NS	NS	NS	NS
bis(2-Ethylhexyl)phthalate	µg/L	NS	12 U	NS	NS	NS	NS	NS
Di-n-octylphthalate	µg/L	NS	12 U	NS	NS	NS	NS	NS
Benzo(b)fluoranthene	µg/L	NS	12 U	NS	NS	NS	NS	NS
Benzo(k)fluoranthene	µg/L	NS	12 U	NS	NS	NS	NS	NS
Benzo(a)pyrene	µg/L	NS	12 U	NS	NS	NS	NS	NS
Indeno(1,2,3-cd)pyrene	µg/L	NS	12 U	NS	NS	NS	NS	NS
Dibenz(a,h)anthracene	µg/L	NS	12 U	NS	NS	NS	NS	NS
Benzo(g,h,i)perylene	µg/L	NS	12 U	NS	NS	NS	NS	NS

SENECA ARMY DEPOT, ASH LANDFILL
GROUNDWATER ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

COMPOUND	MATRIX LOCATION DATE ES ID LAB ID UNITS	PHASE II WATER PT12 07/13/93 PT12 189113	PHASE I WATER PT-15 01/10-13/92 PT-15 152157	PHASE I WATER PT-15 01/10-13/92 PT-15 152167	PHASE I WATER PT-15 1/10-13/92 PT-15 152411	PHASE I WATER PT-15 1/10-13/92 PT-15RE(4) 152411	PHASE I WATER PT-15 01/11/92 PT-15 152260	PHASE I WATER PT-15 01/10-13/92 PT-15Filtered 152293
PESTICIDES/PCBS								
alpha-BHC	µg/L	NS	NS	NS	0.05 U R	0.05 U J	NS	NS
beta-BHC	µg/L	NS	NS	NS	0.05 U R	0.05 U J	NS	NS
delta-BHC	µg/L	NS	NS	NS	0.05 U R	0.05 U J	NS	NS
gamma-BHC (Lindane)	µg/L	NS	NS	NS	0.05 U R	0.05 U J	NS	NS
Heptachlor	µg/L	NS	NS	NS	0.05 U R	0.05 U J	NS	NS
Aldrin	µg/L	NS	NS	NS	0.05 U R	0.05 U J	NS	NS
Heptachlor epoxide	µg/L	NS	NS	NS	0.05 U R	0.05 U J	NS	NS
Endosulfan I	µg/L	NS	NS	NS	0.05 U R	0.05 U J	NS	NS
Dieldrin	µg/L	NS	NS	NS	0.1 U R	0.1 U J	NS	NS
4,4'-DDE	µg/L	NS	NS	NS	0.1 U R	0.1 U J	NS	NS
Endrin	µg/L	NS	NS	NS	0.1 U R	0.1 U J	NS	NS
Endosulfan II	µg/L	NS	NS	NS	0.1 U R	0.1 U J	NS	NS
4,4'-DDD	µg/L	NS	NS	NS	0.1 U R	0.1 U J	NS	NS
Endosulfan sulfate	µg/L	NS	NS	NS	0.1 U R	0.1 U J	NS	NS
4,4'-DDT	µg/L	NS	NS	NS	0.1 U R	0.1 U J	NS	NS
Methoxychlor	µg/L	NS	NS	NS	0.5 U R	0.5 U J	NS	NS
Endrin ketone	µg/L	NS	NS	NS	0.1 U R	0.1 U J	NS	NS
Endrin aldehyde	µg/L	NS	NS	NS	NS	NS	NS	NS
alpha-Chlordane	µg/L	NS	NS	NS	0.5 U R	0.5 U J	NS	NS
gamma-Chlordane	µg/L	NS	NS	NS	0.5 U R	0.5 U J	NS	NS
Toxaphene	µg/L	NS	NS	NS	1 U R	1 U J	NS	NS
Aroclor-1016	µg/L	NS	NS	NS	0.5 U R	0.5 U J	NS	NS
Aroclor-1221	µg/L	NS	NS	NS	0.5 U R	0.5 U J	NS	NS
Aroclor-1232	µg/L	NS	NS	NS	0.5 U R	0.5 U J	NS	NS
Aroclor-1242	µg/L	NS	NS	NS	0.5 U R	0.5 U J	NS	NS
Aroclor-1248	µg/L	NS	NS	NS	0.5 U R	0.5 U J	NS	NS
Aroclor-1254	µg/L	NS	NS	NS	1 U R	1 U J	NS	NS
Aroclor-1260	µg/L	NS	NS	NS	1 U R	1 U J	NS	NS
HERBICIDES								
2,4-D	µg/L	1 U	NS	NS	1 U	NS	NS	NS
2,4-DB	µg/L	1 U	NS	NS	1 U	NS	NS	NS
2,4,5-T	µg/L	0.1 U	NS	NS	0.1 U	NS	NS	NS
2,4,5-TP (Silvex)	µg/L	0.1 U	NS	NS	0.1 U	NS	NS	NS
Dalapon	µg/L	2.3 U	NS	NS	2.3 U	NS	NS	NS
Dicamba	µg/L	0.1 U	NS	NS	0.1 U	NS	NS	NS
Dichloroprop	µg/L	1 U	NS	NS	1 U	NS	NS	NS
Dinoseb	µg/L	0.5 U	NS	NS	0.5 U	NS	NS	NS
MCPA	µg/L	100 U	NS	NS	100 U	NS	NS	NS
MCPP	µg/L	100 U	NS	NS	100 U	NS	NS	NS
METALS								
Aluminum	µg/L	NS	NS	NS	NS	NS	389	24.6 U
Antimony	µg/L	NS	NS	NS	NS	NS	55.8 U J	53.4 U
Arsenic	µg/L	NS	NS	NS	NS	NS	3.5 U	3.5 U
Barium	µg/L	NS	NS	NS	NS	NS	93.5 J	79.7 J
Beryllium	µg/L	NS	NS	NS	NS	NS	1.7 R	2.4 R
Cadmium	µg/L	NS	NS	NS	NS	NS	2.9 U	3 U
Calcium	µg/L	NS	NS	NS	NS	NS	58500 J	59700
Chromium	µg/L	NS	NS	NS	NS	NS	6.2 U	6.2 U
Cobalt	µg/L	NS	NS	NS	NS	NS	19.9 U	20.5 U
Copper	µg/L	NS	NS	NS	NS	NS	14.5 U	10.2 U
Iron	µg/L	NS	NS	NS	NS	NS	673	7 U
Lead	µg/L	NS	NS	NS	NS	NS	1.2 U	1.2 U
Magnesium	µg/L	NS	NS	NS	NS	NS	16000 J	17600
Manganese	µg/L	NS	NS	NS	NS	NS	60.8	6 J
Mercury	µg/L	NS	NS	NS	NS	NS	0.13 R	0.1 R
Nickel	µg/L	NS	NS	NS	NS	NS	15.9 U	14.8 U
Potassium	µg/L	NS	NS	NS	NS	NS	1620 J	2030 J
Selenium	µg/L	NS	NS	NS	NS	NS	1 U	1 U
Silver	µg/L	NS	NS	NS	NS	NS	9.1 U	3.4 U
Sodium	µg/L	NS	NS	NS	NS	NS	29900	29600
Thallium	µg/L	NS	NS	NS	NS	NS	3.2 U	3.2 U
Vanadium	µg/L	NS	NS	NS	NS	NS	30.5 U	9.5 U
Zinc	µg/L	NS	NS	NS	NS	NS	17.4 B	8.5 U
Cyanide	µg/L	NS	NS	NS	NS	NS	10 U J	NS

SENECA ARMY DEPOT, ASH LANDFILL
GROUNDWATER ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

	MATRIX	PHASE II WATER	PHASE II WATER	PHASE I WATER	PHASE I WATER	PHASE II WATER	PHASE I WATER	PHASE I WATER
	LOCATION	PT15	ASH	PT-16	PT-16	PT16	PT-17	PT-17
	DATE	06/24/93	06/30/93	01/06/92	01/06/92	07/03/93	01/16/92	01/16/92
	ES ID	PT15	PT-15	PT-16	PT-16Filtered	PT16	PT-17	PT-17Filtered
	LAB ID	167343	167934	152156	152200	168260	152647	152671
COMPOUND	UNITS							
Chloromethane	µg/L	NS	NS	10 U	NS	NS	14 U	NS
Bromomethane	µg/L	NS	NS	10 U	NS	NS	14 U	NS
Vinyl Chloride	µg/L	NS	NS	10 U	NS	NS	14 U	NS
Chloroethane	µg/L	NS	NS	10 U	NS	NS	14 U	NS
Methylene Chloride	µg/L	NS	NS	5 U	NS	NS	5 U	NS
Acetone	µg/L	NS	NS	10 U	NS	NS	10 U	NS
Carbon Disulfide	µg/L	NS	NS	5 U	NS	NS	7 U	NS
1,1-Dichloroethene	µg/L	NS	NS	5 U	NS	NS	7 U	NS
1,1-Dichloroethane	µg/L	NS	NS	5 U	NS	NS	7 U	NS
1,2-Dichloroethene (total)	µg/L	NS	NS	5 U	NS	NS	53	NS
Chloroform	µg/L	NS	NS	5 U	NS	NS	3 J	NS
1,2-Dichloroethane	µg/L	NS	NS	5 U	NS	NS	7 U	NS
2-Butanone	µg/L	NS	NS	10 U	NS	NS	14 U	NS
1,1,1-Trichloroethane	µg/L	NS	NS	5 U	NS	NS	7 U	NS
Carbon Tetrachloride	µg/L	NS	NS	5 U	NS	NS	7 U	NS
Vinyl Acetate	µg/L	NS	NS	10 U	NS	NS	14 U	NS
Bromodichloromethane	µg/L	NS	NS	5 U	NS	NS	7 U	NS
1,2-Dichloropropane	µg/L	NS	NS	5 U	NS	NS	7 U	NS
cis-1,3-Dichloropropene	µg/L	NS	NS	5 U	NS	NS	7 U	NS
Trichloroethene	µg/L	NS	NS	5 U	NS	NS	260	NS
Dibromochloromethane	µg/L	NS	NS	5 U	NS	NS	7 U	NS
1,1,2-Trichloroethane	µg/L	NS	NS	5 U	NS	NS	7 U	NS
Benzene	µg/L	NS	NS	5 U	NS	NS	7 U	NS
trans-1,3-Dichloropropene	µg/L	NS	NS	5 U	NS	NS	7 U	NS
Bromoform	µg/L	NS	NS	5 U	NS	NS	7 U	NS
4-Methyl-2-Pentanone	µg/L	NS	NS	10 U	NS	NS	14 U	NS
2-Hexanone	µg/L	NS	NS	10 U	NS	NS	14 U	NS
Tetrachloroethene	µg/L	NS	NS	5 U	NS	NS	7 U	NS
1,1,2,2-Tetrachloroethane	µg/L	NS	NS	5 U	NS	NS	7 U	NS
Toluene	µg/L	NS	NS	5 U	NS	NS	7 U	NS
Chlorobenzene	µg/L	NS	NS	5 U	NS	NS	7 U	NS
Ethylbenzene	µg/L	NS	NS	5 U	NS	NS	7 U	NS
Styrene	µg/L	NS	NS	5 U	NS	NS	7 U	NS
Xylene (total)	µg/L	NS	NS	5 U	NS	NS	7 U	NS

SENECA ARMY DEPOT, ASH LANDFILL
GROUNDWATER ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

COMPOUND	MATRIX	PHASE II	PHASE II	PHASE I	PHASE I	PHASE II	PHASE I	PHASE I
	LOCATION	WATER	WATER	WATER	WATER	WATER	WATER	WATER
	DATE	PT15	ASH	PT-16	PT-16	PT16	PT-17	PT-17
	ES ID	08/24/93	08/30/93	01/08/92	01/08/92	07/03/93	01/16/92	01/16/92
	LAB ID	PT15	PT-15	PT-16	PT-16Filtered	PT16	PT-17	PT-17Filtered
	UNITS	187343	187934	152158	152200	188260	152647	152671
VOC's (624.2)								
Dichlorodifluoromethane	µg/L	NS	NS	NS	NS	0.5 U	NS	NS
Chloromethane	µg/L	NS	NS	NS	NS	0.5 U	NS	NS
Vinyl Chloride	µg/L	NS	NS	NS	NS	0.5 U	NS	NS
Bromomethane	µg/L	NS	NS	NS	NS	0.5 U	NS	NS
Chloroethane	µg/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
Trichlorofluoromethane	µg/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
1,1-Dichloroethene	µg/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
Acetone	µg/L	5 U	NS	NS	NS	5 U	NS	NS
Carbon Disulfide	µg/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
Methylene Chloride	µg/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
trans-1,2-Dichloroethene	µg/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
1,1-Dichloroethane	µg/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
2,2-Dichloropropane	µg/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
cis-1,2-Dichloroethene	µg/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
2-Butanone	µg/L	5 U	NS	NS	NS	5 U	NS	NS
Bromochloromethane	µg/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
Chloroform	µg/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
1,1,1-Trichloroethane	µg/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
Carbon Tetrachloride	µg/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
1,1-Dichloropropene	µg/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
Benzene	µg/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
1,2-Dichloroethane	µg/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
Trichloroethene	µg/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
1,2-Dichloropropane	µg/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
Dibromomethane	µg/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
Bromodichloromethane	µg/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
cis-1,3-Dichloropropene	µg/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
4-Methyl-2-Pentanone	µg/L	5 U	NS	NS	NS	5 U	NS	NS
Toluene	µg/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
trans-1,3-Dichloropropene	µg/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
1,1,2-Trichloroethane	µg/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
Tetrachloroethene	µg/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
1,3-Dichloropropane	µg/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
2-Hexanone	µg/L	5 U	NS	NS	NS	5 U	NS	NS
Dibromochloromethane	µg/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
1,2-Dibromoethane	µg/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
Chlorobenzene	µg/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
1,1,1,2-Tetrachloroethane	µg/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
Ethylbenzene	µg/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
Styrene	µg/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
Bromoform	µg/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
Isopropylbenzene	µg/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
Bromobenzene	µg/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
1,1,2,2-Tetrachloroethane	µg/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
1,2,3-Trichloropropane	µg/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
n-Propylbenzene	µg/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
2-Chlorotoluene	µg/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
4-Chlorotoluene	µg/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
1,3,5-Trimethylbenzene	µg/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
tert-Butylbenzene	µg/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
1,2,4-Trimethylbenzene	µg/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
sec-Butylbenzene	µg/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
1,3-Dichlorobenzene	µg/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
1,4-Dichlorobenzene	µg/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
p-Isopropyltoluene	µg/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
1,2-Dichlorobenzene	µg/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
n-Butylbenzene	µg/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
1,2-Dibromo-3-Chloropropane	µg/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
1,2,4-Trichlorobenzene	µg/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
Hexachlorobutadiene	µg/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
Naphthalene	µg/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
1,2,3-Trichlorobenzene	µg/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
Xylene (total)	µg/L	0.5 U	NS	NS	NS	0.5 U	NS	NS

SENECA ARMY DEPOT, ASH LANDFILL
GROUNDWATER ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

	MATRIX	PHASE II	PHASE II	PHASE I	PHASE I	PHASE II	PHASE I	PHASE I
	LOCATION	WATER	WATER	WATER	WATER	WATER	WATER	WATER
	DATE	PT15	ASH	PT-16	PT-16	PT16	PT-17	PT-17
	ES ID	06/24/93	06/30/93	01/08/92	01/08/92	07/03/93	01/16/92	01/16/92
	LAB ID	PT16	PT-15	PT-16	PT-16Filtered	PT16	PT-17	PT-17Filtered
COMPOUND	UNITS	167343	167934	152156	152200	168260	152647	152671
SEMIVOLATILES								
Phenol	µg/L	10 U	NS	11 U	NS	10 U	11 U	NS
bis(2-Chloroethyl) ether	µg/L	10 U	NS	11 U	NS	10 U	11 U	NS
2-Chlorophenol	µg/L	10 U	NS	11 U	NS	10 U	11 U	NS
1,3-Dichlorobenzene	µg/L	10 U	NS	11 U	NS	10 U	11 U	NS
1,4-Dichlorobenzene	µg/L	10 U	NS	11 U	NS	10 U	11 U	NS
Benzyl Alcohol	µg/L	NS	NS	11 U	NS	NS	11 U	NS
1,2-Dichlorobenzene	µg/L	10 U	NS	11 U	NS	10 U	11 U	NS
2-Methylphenol	µg/L	10 U	NS	11 U	NS	10 U	11 U	NS
bis(2-Chloroisopropyl) ether	µg/L	10 U	NS	11 U	NS	10 U	11 U	NS
4-Methylphenol	µg/L	10 U	NS	11 U	NS	10 U	11 U	NS
N-Nitroso-di-n-propylamine	µg/L	10 U	NS	11 U	NS	10 U	11 U	NS
Hexachloroethane	µg/L	10 U	NS	11 U	NS	10 U	11 U	NS
Nitrobenzene	µg/L	10 U	NS	11 U	NS	10 U	11 U	NS
Isophorone	µg/L	10 U	NS	11 U	NS	10 U	11 U	NS
2-Nitrophenol	µg/L	10 U	NS	11 U	NS	10 U	11 U	NS
2,4-Dimethylphenol	µg/L	10 U	NS	11 U	NS	10 U	11 U	NS
Benzoic acid	µg/L	NS	NS	56 U	NS	NS	54 U	NS
bis(2-Chloroethoxy) methane	µg/L	10 U	NS	11 U	NS	10 U	11 U	NS
2,4-Dichlorophenol	µg/L	10 U	NS	11 U	NS	10 U	11 U	NS
1,2,4-Trichlorobenzene	µg/L	10 U	NS	11 U	NS	10 U	11 U	NS
Naphthalene	µg/L	10 U	NS	11 U	NS	10 U	11 U	NS
4-Chloroaniline	µg/L	10 U	NS	11 U	NS	10 U	11 U	NS
Hexachlorobutadiene	µg/L	10 U	NS	11 U	NS	10 U	11 U	NS
4-Chloro-3-methylphenol	µg/L	10 U	NS	11 U	NS	10 U	11 U	NS
2-Methylnaphthalene	µg/L	10 U	NS	11 U	NS	10 U	11 U	NS
Hexachlorocyclopentadiene	µg/L	10 U	NS	11 U	NS	10 U	11 U	NS
2,4,6-Trichlorophenol	µg/L	10 U	NS	11 U	NS	10 U	11 U	NS
2,4,5-Trichlorophenol	µg/L	26 U	NS	56 U	NS	25 U	54 U	NS
2-Chloronaphthalene	µg/L	10 U	NS	11 U	NS	10 U	11 U	NS
2-Nitroaniline	µg/L	26 U	NS	56 U	NS	25 U	54 U	NS
Dimethylphthalate	µg/L	10 U	NS	11 U	NS	10 U	11 U	NS
Acenaphthylene	µg/L	10 U	NS	11 U	NS	10 U	11 U	NS
2,6-Dinitrotoluene	µg/L	10 U	NS	11 U	NS	10 U	11 U	NS
3-Nitroaniline	µg/L	26 U	NS	56 U	NS	25 U	54 U	NS
Acenaphthene	µg/L	10 U	NS	11 U	NS	10 U	11 U	NS
2,4-Dinitrophenol	µg/L	26 U	NS	56 U	NS	25 U	54 U	NS
4-Nitrophenol	µg/L	26 U	NS	56 U	NS	25 U	54 U	NS
Dibenzofuran	µg/L	10 U	NS	11 U	NS	10 U	11 U	NS
2,4-Dinitrotoluene	µg/L	10 U	NS	11 U	NS	10 U	11 U	NS
Diethylphthalate	µg/L	10 U	NS	11 U	NS	10 U	11 U	NS
4-Chlorophenyl-phenylether	µg/L	10 U	NS	11 U	NS	10 U	11 U	NS
Fluorene	µg/L	10 U	NS	11 U	NS	10 U	11 U	NS
4-Nitroaniline	µg/L	26 U	NS	56 U	NS	25 U	54 U	NS
4,6-Dinitro-2-methylphenol	µg/L	26 U	NS	56 U	NS	25 U	54 U	NS
N-Nitrosodiphenylamine (1)	µg/L	10 U	NS	11 U	NS	10 U	11 U	NS
4-Bromophenyl-phenylether	µg/L	10 U	NS	11 U	NS	10 U	11 U	NS
Hexachlorobenzene	µg/L	10 U	NS	11 U	NS	10 U	11 U	NS
Pentachlorophenol	µg/L	26 U	NS	56 U	NS	25 U	54 U	NS
Phenanthrene	µg/L	10 U	NS	11 U	NS	10 U	11 U	NS
Anthracene	µg/L	10 U	NS	11 U	NS	10 U	11 U	NS
Carbazole	µg/L	10 U	NS	NS	NS	10 U	NS	NS
Di-n-butylphthalate	µg/L	10 U	NS	11 U	NS	10 U	11 U	NS
Fluoranthene	µg/L	10 U	NS	11 U	NS	10 U	11 U	NS
Pyrene	µg/L	10 U	NS	11 U	NS	10 U	11 U	NS
Butylbenzylphthalate	µg/L	10 U	NS	11 U	NS	10 U	11 U	NS
3,3'-Dichlorobenzidine	µg/L	10 U	NS	22 U	NS	10 U	21 U	NS
Benzo(a)anthracene	µg/L	10 U	NS	11 U	NS	10 U	11 U	NS
Chrysene	µg/L	10 U	NS	11 U	NS	10 U	11 U	NS
bis(2-Ethylhexyl)phthalate	µg/L	10 U	NS	11 U	NS	10 U	20 U	NS
Di-n-octylphthalate	µg/L	10 U	NS	11 U	NS	10 U	11 U	NS
Benzo(b)fluoranthene	µg/L	10 U	NS	11 U	NS	10 U	11 U	NS
Benzo(k)fluoranthene	µg/L	10 U	NS	11 U	NS	10 U	11 U	NS
Benzo(a)pyrene	µg/L	10 U	NS	11 U	NS	10 U	11 U	NS
Indeno(1,2,3-cd)pyrene	µg/L	10 U	NS	11 U	NS	10 U	11 U	NS
Dibenz(a,h)anthracene	µg/L	10 U	NS	11 U	NS	10 U	11 U	NS
Benzo(g,h,i)perylene	µg/L	10 U	NS	11 U	NS	10 U	11 U	NS

SENECA ARMY DEPOT, ASH LANDFILL
GROUNDWATER ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

COMPOUND	MATRIX LOCATION DATE ES ID LAB ID UNITS	PHASE II WATER PT18 06/24/93 PT18 187343	PHASE II WATER ASH 06/30/93 PT-16 187934	PHASE I WATER PT-16 01/06/92 PT-16 152158	PHASE I WATER PT-16 01/06/92 PT-16Filtered 152200	PHASE II WATER PT16 07/03/93 PT18 188260	PHASE I WATER PT-17 01/16/92 PT-17 152647	PHASE I WATER PT-17 01/16/92 PT-17Filtered 152671
PESTICIDES/PCBS								
alpha-BHC	µg/L	NS	0.05 U	0.05 U	NS	0.05 U	0.055 U	NS
beta-BHC	µg/L	NS	0.05 U	0.05 U	NS	0.05 U	0.055 U	NS
delta-BHC	µg/L	NS	0.05 U	0.05 U	NS	0.05 U	0.055 U	NS
gamma-BHC (Lindane)	µg/L	NS	0.05 U	0.05 U	NS	0.05 U	0.055 U	NS
Heptachlor	µg/L	NS	0.05 U	0.05 U	NS	0.05 U	0.055 U	NS
Aldrin	µg/L	NS	0.05 U	0.05 U	NS	0.05 U	0.055 U	NS
Heptachlor epoxide	µg/L	NS	0.05 U	0.05 U	NS	0.05 U	0.055 U	NS
Endosulfan I	µg/L	NS	0.05 U	0.05 U	NS	0.05 U	0.055 U	NS
Dieldrin	µg/L	NS	0.1 U	0.1 U	NS	0.1 U	0.11 U	NS
4,4'-DDE	µg/L	NS	0.1 U	0.1 U	NS	0.1 U	0.11 U	NS
Endrin	µg/L	NS	0.1 U	0.1 U	NS	0.1 U	0.11 U	NS
Endosulfan II	µg/L	NS	0.1 U	0.1 U	NS	0.1 U	0.11 U	NS
4,4'-DDD	µg/L	NS	0.1 U	0.1 U	NS	0.1 U	0.11 U	NS
Endosulfan sulfate	µg/L	NS	0.1 U	0.1 U	NS	0.1 U	0.11 U	NS
4,4'-DDT	µg/L	NS	0.1 U	0.1 U	NS	0.1 U	0.11 U	NS
Methoxychlor	µg/L	NS	0.5 U	0.5 U	NS	0.5 U	0.55 U	NS
Endrin ketone	µg/L	NS	0.1 U	0.1 U	NS	0.1 U	0.11 U	NS
Endrin aldehyde	µg/L	NS	0.1 U	NS	NS	0.1 U	NS	NS
alpha-Chlordane	µg/L	NS	0.05 U	0.5 U	NS	0.05 U	0.55 U	NS
gamma-Chlordane	µg/L	NS	0.05 U	0.5 U	NS	0.05 U	0.55 U	NS
Toxaphene	µg/L	NS	5 U	1 U	NS	5 U	1.1 U	NS
Aroclor-1016	µg/L	NS	1 U	0.5 U	NS	1 U	0.55 U	NS
Aroclor-1221	µg/L	NS	2 U	0.5 U	NS	2 U	0.55 U	NS
Aroclor-1232	µg/L	NS	1 U	0.5 U	NS	1 U	0.55 U	NS
Aroclor-1242	µg/L	NS	1 U	0.5 U	NS	1 U	0.55 U	NS
Aroclor-1248	µg/L	NS	1 U	0.5 U	NS	1 U	0.55 U	NS
Aroclor-1254	µg/L	NS	1 U	1 U	NS	1 U	1.1 U	NS
Aroclor-1260	µg/L	NS	1 U	1 U	NS	1 U	1.1 U	NS
HERBICIDES								
2,4-D	µg/L	NS	1 U	1.2 U	NS	1.1 U	1 U	NS
2,4-DB	µg/L	NS	1 U	1.2 U	NS	1.1 U	1 U	NS
2,4,5-T	µg/L	NS	0.1 U	0.1 U	NS	0.11 U	0.1 U	NS
2,4,5-TP (Silvex)	µg/L	NS	0.1 U	0.1 U	NS	0.11 U	0.1 U	NS
Dalapon	µg/L	NS	2.3 U	2.7 U	NS	2.4 U	2.3 U	NS
Dicamba	µg/L	NS	0.1 U	0.1 U	NS	0.11 U	0.1 U	NS
Dichloroprop	µg/L	NS	1 U	1.2 U	NS	1.1 U	1 U	NS
Dinoseb	µg/L	NS	0.5 U	0.6 U	NS	0.53 U	0.5 U	NS
MCPA	µg/L	NS	100 U	120 U	NS	110 U	100 U	NS
MCPP	µg/L	NS	100 U	120 U	NS	110 U	100 U	NS
METALS								
Aluminum	µg/L	693	NS	1520	24.4 U	179 J	14200	24.6 U
Antimony	µg/L	49.9 UJ	NS	53.4 U	53 U	49.6 UJ	53.3 R	53.4 U
Arsenic	µg/L	1.4 UJ	NS	3.5 U J	3.5 U	1.4 UJ	3.5 J	3.5 U
Barium	µg/L	100 J	NS	75 J	36.6 R	48.5 J	131 J	69.5 R
Beryllium	µg/L	0.9 U	NS	2.1 R	2.3 R	0.89 U	2.5 R	1.1 U
Cadmium	µg/L	2.5 U	NS	2.9 U	3 U	2.5 U	3 U	3 U
Calcium	µg/L	68400	NS	129000 J	100000	162000	115000	106000
Chromium	µg/L	2.7 UJ	NS	7.2 J	5.2 U	2.7 UJ	20	6.2 U
Cobalt	µg/L	5.5 U	NS	19.9 U	20.4 U	5.5 U	20.3 U	20.5 U
Copper	µg/L	4.7 U	NS	14.5 U	10.1 U	4.7 U	11.9 J	10.2 U
Iron	µg/L	1400	NS	2760	6.9 U	119	21500	7 U
Lead	µg/L	1.7 J	NS	4.2	1.2 U	0.79 U	6.3	1.2 U
Magnesium	µg/L	17800	NS	14300 J	14300	14900	15700	10700
Manganese	µg/L	158	NS	483	4.8 U	24.6	520	4.8 U
Mercury	µg/L	0.09 UJ	NS	0.12 R	0.1 R	0.09 UJ	0.1 R	0.03 U
Nickel	µg/L	7.5 UJ	NS	16 U	14.7 U	7.4 UJ	21.3 J	14.8 U
Potassium	µg/L	2430 J	NS	633 U	287 U	1060 J	3200 J	289 U
Selenium	µg/L	0.99 UJ	NS	1 U	1 U	1.5 UJ	1.3 U	1 U
Silver	µg/L	5.5 U	NS	9.1 U	3.4 U	5.5 U	3.4 U	3.4 U
Sodium	µg/L	27600	NS	5930 J	5890	6340	29400	27800
Thallium	µg/L	2.6 U	NS	3.2 U	3.2 U	2.6 U	3.2 U	3.2 U
Vanadium	µg/L	6.9 UJ	NS	30.5 U	8.4 U	6.7 UJ	21.6 J	9.5 U
Zinc	µg/L	17.5 R	NS	24.1	8.4 U	9.2 J	69.4 R	20.5 R
Cyanide	µg/L	10 UJ	NS	10 U J	NS	10 UJ	10 U	NS

SENECA ARMY DEPOT, ASH LANDFILL
GROUNDWATER ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

	MATRIX	PHASE II	PHASE I	PHASE I	PHASE II	PHASE I	PHASE I	PHASE II
	LOCATION	WATER	WATER	WATER	WATER	WATER	WATER	WATER
	DATE	PT17	PT-18	PT-18	PT18	PT-19	PT-19	PT-19
	ES ID	07/13/93	01/09/92	01/09/92	07/15/93	01/17/92	01/17/92	08/30/93
	LAB ID	PT17	PT-18	PT-18Filtered	PT18	PT-19	PT-19Filtered	PT-19
COMPOUND	UNITS	166806	152159	152201	169114	152705	152712	187935
Chloromethane	µg/L	10 U	670 U	NS	10 U	10 U	NS	NS
Bromomethane	µg/L	10 U	670 U	NS	10 U	10 U	NS	NS
Vinyl Chloride	µg/L	10 U	670 U	NS	10	10 U	NS	NS
Chloroethane	µg/L	10 U	670 U	NS	10 U	10 U	NS	NS
Methylene Chloride	µg/L	10 U	330 U	NS	10 U	5 U	NS	NS
Acetone	µg/L	10 U	670 U	NS	10 U	10 U	NS	NS
Carbon Disulfide	µg/L	10 U	330 U	NS	10 U	5 U	NS	NS
1,1-Dichloroethene	µg/L	10 U	330 U	NS	3 J	5 U	NS	NS
1,1-Dichloroethane	µg/L	10 U	330 U	NS	10 U	5 U	NS	NS
1,2-Dichloroethene (total)	µg/L	43	400	NS	730 J	5 U	NS	NS
Chloroform	µg/L	10 U	180 J	NS	210 J	5 U	NS	NS
1,2-Dichloroethane	µg/L	10 U	330 U	NS	10 U	5 U	NS	NS
2-Butanone	µg/L	10 U	670 U	NS	10 U	10 U	NS	NS
1,1,1-Trichloroethane	µg/L	10 U	330 U	NS	10 U	5 U	NS	NS
Carbon Tetrachloride	µg/L	10 U	330 U	NS	10 U	5 U	NS	NS
Vinyl Acetate	µg/L	NS	670 U	NS	NS	10 U	NS	NS
Bromodichloromethane	µg/L	10 U	330 U	NS	10 U	5 U	NS	NS
1,2-Dichloropropane	µg/L	10 U	330 U	NS	10 U	5 U	NS	NS
cis-1,3-Dichloropropene	µg/L	10 U	330 U	NS	10 U	5 U	NS	NS
Trichloroethene	µg/L	190	11000	NS	13000	5 U	NS	NS
Dibromochloromethane	µg/L	10 U	330 U	NS	10 U	5 U	NS	NS
1,1,2-Trichloroethane	µg/L	10 U	330 U	NS	10 U	5 U	NS	NS
Benzene	µg/L	10 U	330 U	NS	1 J	5 U	NS	NS
trans-1,3-Dichloropropene	µg/L	10 U	330 U	NS	10 U	5 U	NS	NS
Bromoform	µg/L	10 U	330 U	NS	10 U	5 U	NS	NS
4-Methyl-2-Pentanone	µg/L	10 U	670 U	NS	10 U	10 U	NS	NS
2-Hexanone	µg/L	10 U	670 U	NS	10 U	10 U	NS	NS
Tetrachloroethene	µg/L	10 U	330 U	NS	10 U	5 U	NS	NS
1,1,2,2-Tetrachloroethane	µg/L	10 U	330 U	NS	10 U	5 U	NS	NS
Toluene	µg/L	10 U	330 U	NS	10 U	5 U	NS	NS
Chlorobenzene	µg/L	10 U	330 U	NS	10 U	5 U	NS	NS
Ethylbenzene	µg/L	10 U	330 U	NS	10 U	5 U	NS	NS
Styrene	µg/L	10 U	330 U	NS	10 U	5 U	NS	NS
Xylene (total)	µg/L	10 U	330 U	NS	10 U	5 U	NS	NS

SENECA ARMY DEPOT, ASH LANDFILL
GROUNDWATER ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

COMPOUND	MATRIX LOCATION DATE ES ID LAB ID UNITS	PHASE II WATER PT17 07/13/93 PT17 188806	PHASE I WATER PT-16 01/09/92 PT-16 152159	PHASE I WATER PT-16 01/09/92 PT-16Filtered 152201	PHASE II WATER PT16 07/15/93 PT16 189114	PHASE I WATER PT-19 01/17/92 PT-19 152705	PHASE I WATER PT-19 01/17/92 PT-19Filtered 152712	PHASE II WATER PT-19 06/30/93 PT-19 187935
VOC's (524.2)								
Dichlorodifluoromethane	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
Chloromethane	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
Vinyl Chloride	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
Bromomethane	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
Chloroethane	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
Trichlorofluoromethane	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
1,1-Dichloroethene	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
Acetone	µg/L	NS	NS	NS	NS	NS	NS	5 U
Carbon Disulfide	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
Methylene Chloride	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
trans-1,2-Dichloroethene	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
1,1-Dichloroethane	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
2,2-Dichloropropane	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
cis-1,2-Dichloroethene	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
2-Butanone	µg/L	NS	NS	NS	NS	NS	NS	5 U
Bromochloromethane	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
Chloroform	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
1,1,1-Trichloroethane	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
Carbon Tetrachloride	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
1,1-Dichloropropene	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
Benzene	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
1,2-Dichloroethane	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
Trichloroethene	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
1,2-Dichloropropane	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
Dibromomethane	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
Bromodichloromethane	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
cis-1,3-Dichloropropene	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
4-Methyl-2-Pentanone	µg/L	NS	NS	NS	NS	NS	NS	5 U
Toluene	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
trans-1,3-Dichloropropene	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
1,1,2-Trichloroethane	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
Tetrachloroethene	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
1,3-Dichloropropane	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
2-Hexanone	µg/L	NS	NS	NS	NS	NS	NS	5 U
Dibromochloromethane	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
1,2-Dibromoethane	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
Chlorobenzene	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
1,1,1,2-Tetrachloroethane	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
Ethylbenzene	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
Styrene	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
Bromoform	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
Isopropylbenzene	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
Bromobenzene	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
1,1,2,2-Tetrachloroethane	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
1,2,3-Trichloropropane	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
n-Propylbenzene	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
2-Chlorotoluene	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
4-Chlorotoluene	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
1,3,5-Trimethylbenzene	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
tert-Butylbenzene	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
1,2,4-Trimethylbenzene	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
sec-Butylbenzene	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
1,3-Dichlorobenzene	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
1,4-Dichlorobenzene	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
p-Isopropyltoluene	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
1,2-Dichlorobenzene	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
n-Butylbenzene	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
1,2-Dibromo-3-Chloropropane	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
1,2,4-Trichlorobenzene	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
Hexachlorobutadiene	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
Naphthalene	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
1,2,3-Trichlorobenzene	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
Xylene (total)	µg/L	NS	NS	NS	NS	NS	NS	0.5 U

SENECA ARMY DEPOT, ASH LANDFILL
GROUNDWATER ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

	MATRIX	PHASE II	PHASE I	PHASE I	PHASE II	PHASE I	PHASE I	PHASE II
	LOCATION	WATER	WATER	WATER	WATER	WATER	WATER	WATER
	DATE	PT17	PT-16	PT-16	PT16	PT-19	PT-19	PT-19
	ES ID	07/13/93	01/09/92	01/09/92	07/15/93	01/17/92	01/17/92	06/30/93
	LAB ID	PT17	PT-16	PT-16Filtered	PT16	PT-19	PT-19Filtered	PT-19
COMPOUND	UNITS	168806	152159	152201	169114	152705	152712	167935
SEMIVOLATILES								
Phenol	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
bis(2-Chloroethyl) ether	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
2-Chlorophenol	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
1,3-Dichlorobenzene	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
1,4-Dichlorobenzene	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
Benzyl Alcohol	µg/L	NS	11 U	NS	NS	11 U	NS	NS
1,2-Dichlorobenzene	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
2-Methylphenol	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
bis(2-Chloroisopropyl) ether	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
4-Methylphenol	µg/L	10 U	11 U	NS	10 U	11 U	NS	2 J
N-Nitroso-di-n-propylamine	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
Hexachloroethane	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
Nitrobenzene	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
Isophorone	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
2-Nitrophenol	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
2,4-Dimethylphenol	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
Benzoic acid	µg/L	NS	57 U	NS	NS	55 U	NS	NS
bis(2-Chloroethoxy) methane	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
2,4-Dichlorophenol	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
1,2,4-Trichlorobenzene	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
Naphthalene	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
4-Chloroaniline	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
Hexachlorobutadiene	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
4-Chloro-3-methylphenol	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
2-Methylnaphthalene	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
Hexachlorocyclopentadiene	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
2,4,6-Trichlorophenol	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
2,4,5-Trichlorophenol	µg/L	25 U	57 U	NS	25 U	55 U	NS	25 U
2-Chloronaphthalene	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
2-Nitroaniline	µg/L	25 U	57 U	NS	25 U	55 U	NS	25 U
Dimethylphthalate	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
Acenaphthylene	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
2,6-Dinitrotoluene	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
3-Nitroaniline	µg/L	25 U	57 U	NS	25 U	55 U	NS	25 U
Acenaphthene	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
2,4-Dinitrophenol	µg/L	25 U	57 U	NS	25 U	55 U	NS	25 U
4-Nitrophenol	µg/L	25 U	57 U	NS	25 U	55 U	NS	25 U
Dibenzofuran	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
2,4-Dinitrotoluene	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
Diethylphthalate	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
4-Chlorophenyl-phenylether	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
Fluorene	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
4-Nitroaniline	µg/L	25 U	57 U	NS	25 U	55 U	NS	25 U
4,6-Dinitro-2-methylphenol	µg/L	25 U	57 U	NS	25 U	55 U	NS	25 U
N-Nitrosodiphenylamine (1)	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
4-Bromophenyl-phenylether	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
Hexachlorobenzene	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
Pentachlorophenol	µg/L	25 U	57 U	NS	25 U	55 U	NS	25 U
Phenanthrene	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
Anthracene	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
Carbazole	µg/L	10 U	NS	NS	10 U	NS	NS	10 U
Di-n-butylphthalate	µg/L	3 J	11 U	NS	10 U	11 U	NS	10 U
Fluoranthene	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
Pyrene	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
Butylbenzylphthalate	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
3,3'-Dichlorobenzidine	µg/L	10 U	23 U	NS	10 U	22 U	NS	10 U
Benzo(a)anthracene	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
Chrysene	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
bis(2-Ethylhexyl)phthalate	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
Di-n-octylphthalate	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
Benzo(b)fluoranthene	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
Benzo(k)fluoranthene	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
Benzo(a)pyrene	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
Indeno(1,2,3-cd)pyrene	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
Dibenz(a,h)anthracene	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
Benzo(g,h,i)peryiene	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U

SENECA ARMY DEPOT, ASH LANDFILL
GROUNDWATER ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

	MATRIX	PHASE II WATER	PHASE I WATER	PHASE I WATER	PHASE II WATER	PHASE I WATER	PHASE I WATER	PHASE II WATER
	LOCATION	PT17	PT-18	PT-18	PT18	PT-19	PT-19	PT-19
	DATE	07/13/93	01/09/92	01/09/92	07/15/93	01/17/92	01/17/92	06/30/93
	ES ID	PT17	PT-18	PT-18Filtered	PT18	PT-19	PT-19Filtered	PT-19
	LAB ID	188806	152159	152201	189114	152705	152712	187935
COMPOUND	UNITS							
PESTICIDES/PCBS								
alpha-BHC	µg/L	0.05 U	0.052 U	NS	0.05 U	0.061 U	NS	0.05 U
beta-BHC	µg/L	0.05 U	0.052 U	NS	0.05 U	0.061 U	NS	0.05 U
delta-BHC	µg/L	0.05 U	0.052 U	NS	0.05 U	0.061 U	NS	0.05 U
gamma-BHC (Lindane)	µg/L	0.05 U	0.052 U	NS	0.05 U	0.061 U	NS	0.05 U
Heptachlor	µg/L	0.05 U	0.052 U	NS	0.05 U	0.061 U	NS	0.05 U
Aldrin	µg/L	0.05 U	0.052 U	NS	0.05 U	0.061 U	NS	0.05 U
Heptachlor epoxide	µg/L	0.05 U	0.052 U	NS	0.05 U	0.061 U	NS	0.05 U
Endosulfan I	µg/L	0.05 U	0.052 U	NS	0.05 U	0.061 U	NS	0.05 U
Dieldrin	µg/L	0.1 U	0.1 U	NS	0.1 U	0.12 U	NS	0.1 U
4,4'-DDE	µg/L	0.1 U	0.1 U	NS	0.1 U	0.12 U	NS	0.1 U
Endrin	µg/L	0.1 U	0.1 U	NS	0.1 U	0.12 U	NS	0.1 U
Endosulfan II	µg/L	0.1 U	0.1 U	NS	0.1 U	0.12 U	NS	0.1 U
4,4'-DDD	µg/L	0.1 U	0.1 U	NS	0.1 U	0.12 U	NS	0.1 U
Endosulfan sulfate	µg/L	0.1 U	0.1 U	NS	0.1 U	0.12 U	NS	0.1 U
4,4'-DDT	µg/L	0.1 U	0.1 U	NS	0.1 U	0.12 U	NS	0.1 U
Methoxychlor	µg/L	0.5 U	0.52 U	NS	0.5 U	0.61 U	NS	0.5 U
Endrin ketone	µg/L	0.1 U	0.1 U	NS	0.1 U	0.12 U	NS	0.1 U
Endrin aldehyde	µg/L	0.1 U	NS	NS	0.1 U	NS	NS	0.1 U
alpha-Chlordane	µg/L	0.05 U	0.52 U	NS	0.05 U	0.61 U	NS	0.05 U
gamma-Chlordane	µg/L	0.05 U	0.52 U	NS	0.05 U	0.61 U	NS	0.05 U
Toxaphene	µg/L	5 U	1 U	NS	5 U	1.2 U	NS	5 U
Aroclor-1016	µg/L	1 U	0.52 U	NS	1 U	0.61 U	NS	1 U
Aroclor-1221	µg/L	2 U	0.52 U	NS	2 U	0.61 U	NS	2 U
Aroclor-1232	µg/L	1 U	0.52 U	NS	1 U	0.61 U	NS	1 U
Aroclor-1242	µg/L	1 U	0.52 U	NS	1 U	0.61 U	NS	1 U
Aroclor-1248	µg/L	1 U	0.52 U	NS	1 U	0.61 U	NS	1 U
Aroclor-1254	µg/L	1 U	1 U	NS	1 U	1.2 U	NS	1 U
Aroclor-1260	µg/L	1 U	1 U	NS	1 U	1.2 U	NS	1 U
HERBICIDES								
2,4-D	µg/L	1 U	1.1 U	NS	1 U	1 U	NS	1 U
2,4-DB	µg/L	1 U	1.1 U	NS	1 U	1 U	NS	1 U
2,4,5-T	µg/L	0.1 U	0.1 U	NS	0.1 U	0.1 U	NS	0.1 U
2,4,5-TP (Silvex)	µg/L	0.1 U	0.1 U	NS	0.1 U	0.1 U	NS	0.1 U
Dalapon	µg/L	2.3 U	2.4 U	NS	2.3 U	2.4 U	NS	2.3 U
Dicamba	µg/L	0.1 U	0.1 U	NS	0.1 U	0.1 U	NS	0.1 U
Dichloroprop	µg/L	1 U	1.1 U	NS	1 U	1 U	NS	1 U
Dinoseb	µg/L	0.5 U	0.5 U	NS	0.5 U	0.5 U	NS	0.5 U
MCPA	µg/L	100 U	110 U	NS	100 U	100 U	NS	100 U
MCPP	µg/L	100 U	110 U	NS	100 U	100 U	NS	100 U
METALS								
Aluminum	µg/L	72.6 U	1510	24.4 U	318 J	36100	24.5 U	207
Antimony	µg/L	69.8 R	55.5 U J	62.9 U	49.7 U	53.3 U	53.1 U	49.6 UJ
Arsenic	µg/L	1.4 U	3.5 U	3.5 U	1.9 U	3.5 U	3.5 U	1.4 UJ
Barium	µg/L	54.8 J	53.9 J	37.4 R	40 J	217	59.4 R	58 J
Beryllium	µg/L	0.9 U	2.1 R	2.5 R	0.9 U	2.8 R	1.1 U	0.9 U
Cadmium	µg/L	2.8 U	2.9 U	3 U	2.8 U	6.1 J	3 U	2.8 U
Calcium	µg/L	114000	329000 J	271000	203000	110000	95300	114000
Chromium	µg/L	2.7 U	6.1 U	6.1 U	2.8 J	47.2	6.2 U	2.7 UJ
Cobalt	µg/L	5.5 U	19.8 U	20.3 U	5.9 J	20.5 U	20.4 U	5.5 U
Copper	µg/L	4.7 U	14.4 U	10.1 U	4.7 UJ	41.3	10.1 U	6.6 J
Iron	µg/L	105 J	2270	6.9 U	496 J	48300	7 U	409
Lead	µg/L	0.8 U	17.8	1.2 U	0.8 U	12.6 R	1.2 U	0.8 U
Magnesium	µg/L	11100	37000 J	39400	24900	24700 J	12900	14400
Manganese	µg/L	5.1 J	1530	964	752	543 J	8.8 J	361
Mercury	µg/L	0.09 UJ	0.42 R	0.12 R	0.09 U	0.04 R	0.03 U	0.22 J
Nickel	µg/L	7.5 U	15.9 U	14.7 U	7.5 UJ	60.7	14.7 U	7.5 UJ
Potassium	µg/L	1080 J	2280 J	2010 J	1360 J	7550	288 U	1900 J
Selenium	µg/L	1.5 U	1 U	1 U	0.99 UJ	1 U	1 U	1 UJ
Silver	µg/L	5.5 U	9 U	4.3 R	5.5 U	3.4 U	3.4 U	5.5 U
Sodium	µg/L	26300	114000 J	109000	93900	19700	15300	22100
Thallium	µg/L	2.6 U	3.2 U	3.2 U	2.6 U	3.2 U	3.2 U	2.6 U
Vanadium	µg/L	6.8 U	30.3 U	9.4 U	6.8 UJ	45.4 J	9.5 U	6.8 UJ
Zinc	µg/L	2.6 U	496	120	58.1 R	154 J	17.1 R	14.1 J
Cyanide	µg/L	3 J	10 U J	NS	1.4 J	10 U J	NS	10 UJ

SENECA ARMY DEPOT, ASH LANDFILL
GROUNDWATER ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

	MATRIX	PHASE I WATER	PHASE I WATER	PHASE I WATER	PHASE II WATER	PHASE II WATER	PHASE I WATER	PHASE I WATER
	LOCATION	PT-20	PT-20	PT-20	PT20	PT20 RE	PT-21	PT-21
	DATE	01/17/92	01/17/92	01/17/92	07/12/93	07/10/93	01/17/92	01/25/92CK
	ES ID	PT-20(2,3)	PT-20RE(2,3,4)	PT-20(2,3)Filtered	PT20	PT20 RE	PT-21	PT-21
	LAB ID	152706	152706	152713	188796	188796R1	152707	153059
COMPOUND	UNITS							
Chloromethane	µg/L	10 U	NS	NS	10 U	NS	10 U	NS
Bromomethane	µg/L	10 U	NS	NS	10 U	NS	10 U	NS
Vinyl Chloride	µg/L	10 U	NS	NS	10 U	NS	10 U	NS
Chloroethane	µg/L	10 U	NS	NS	10 U	NS	10 U	NS
Methylene Chloride	µg/L	5 U	NS	NS	10 U	NS	5 U	NS
Acetone	µg/L	10 U	NS	NS	10 U	NS	10 U	NS
Carbon Disulfide	µg/L	5 U	NS	NS	10 U	NS	5 U	NS
1,1-Dichloroethene	µg/L	5 U	NS	NS	10 U	NS	5 U	NS
1,1-Dichloroethane	µg/L	5 U	NS	NS	10 U	NS	5 U	NS
1,2-Dichloroethene (total)	µg/L	24	NS	NS	53	NS	16	NS
Chloroform	µg/L	5 U	NS	NS	10 U	NS	5 U	NS
1,2-Dichloroethane	µg/L	5 U	NS	NS	10 U	NS	5 U	NS
2-Butanone	µg/L	10 U	NS	NS	10 U	NS	10 U	NS
1,1,1-Trichloroethane	µg/L	5 U	NS	NS	10 U	NS	5 U	NS
Carbon Tetrachloride	µg/L	5 U	NS	NS	10 U	NS	5 U	NS
Vinyl Acetate	µg/L	10 U	NS	NS	NS	NS	10 U	NS
Bromodichloromethane	µg/L	5 U	NS	NS	10 U	NS	5 U	NS
1,2-Dichloropropane	µg/L	5 U	NS	NS	10 U	NS	5 U	NS
cis-1,3-Dichloropropene	µg/L	5 U	NS	NS	10 U	NS	5 U	NS
Trichloroethene	µg/L	25	NS	NS	37	NS	2 J	NS
Dibromochloromethane	µg/L	5 U	NS	NS	10 U	NS	5 U	NS
1,1,2-Trichloroethane	µg/L	5 U	NS	NS	10 U	NS	5 U	NS
Benzene	µg/L	5 U	NS	NS	10 U	NS	5 U	NS
trans-1,3-Dichloropropene	µg/L	5 U	NS	NS	10 U	NS	5 U	NS
Bromoform	µg/L	5 U	NS	NS	10 U	NS	5 U	NS
4-Methyl-2-Pentanone	µg/L	10 U	NS	NS	10 U	NS	10 U	NS
2-Hexanone	µg/L	10 U	NS	NS	10 U	NS	10 U	NS
Tetrachloroethene	µg/L	5 U	NS	NS	10 U	NS	5 U	NS
1,1,2,2-Tetrachloroethane	µg/L	5 U	NS	NS	10 U	NS	5 U	NS
Toluene	µg/L	5 U	NS	NS	10 U	NS	5 U	NS
Chlorobenzene	µg/L	5 U	NS	NS	10 U	NS	5 U	NS
Ethylbenzene	µg/L	5 U	NS	NS	10 U	NS	5 U	NS
Styrene	µg/L	5 U	NS	NS	10 U	NS	5 U	NS
Xylene (total)	µg/L	5 U	NS	NS	10 U	NS	5 U	NS

SENECA ARMY DEPOT, ASH LANDFILL
GROUNDWATER ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

COMPOUND	MATRIX LOCATION DATE ES ID LAB ID UNITS	PHASE I WATER PT-20 01/17/92 PT-20(2,3) 152706	PHASE I WATER PT-20 01/17/92 PT-20RE(2,3,4) 152706	PHASE I WATER PT-20 01/17/92 PT-20(2,3)Filtered 152713	PHASE II WATER PT20 07/12/93 PT20 188796	PHASE II WATER PT20 RE 07/10/93 PT20 RE 188796R1	PHASE I WATER PT-21 01/17/92 PT-21 152707	PHASE I WATER PT-21 01/25/92CK PT-21 153059
VOC's (524.2)								
Dichlorodifluoromethane	µg/L	NS	NS	NS	NS	NS	NS	NS
Chloromethane	µg/L	NS	NS	NS	NS	NS	NS	NS
Vinyl Chloride	µg/L	NS	NS	NS	NS	NS	NS	NS
Bromomethane	µg/L	NS	NS	NS	NS	NS	NS	NS
Chloroethane	µg/L	NS	NS	NS	NS	NS	NS	NS
Trichlorofluoromethane	µg/L	NS	NS	NS	NS	NS	NS	NS
1,1-Dichloroethene	µg/L	NS	NS	NS	NS	NS	NS	NS
Acetone	µg/L	NS	NS	NS	NS	NS	NS	NS
Carbon Disulfide	µg/L	NS	NS	NS	NS	NS	NS	NS
Methylene Chloride	µg/L	NS	NS	NS	NS	NS	NS	NS
trans-1,2-Dichloroethene	µg/L	NS	NS	NS	NS	NS	NS	NS
1,1-Dichloroethane	µg/L	NS	NS	NS	NS	NS	NS	NS
2,2-Dichloropropane	µg/L	NS	NS	NS	NS	NS	NS	NS
cis-1,2-Dichloroethene	µg/L	NS	NS	NS	NS	NS	NS	NS
2-Butanone	µg/L	NS	NS	NS	NS	NS	NS	NS
Bromochloromethane	µg/L	NS	NS	NS	NS	NS	NS	NS
Chloroform	µg/L	NS	NS	NS	NS	NS	NS	NS
1,1,1-Trichloroethane	µg/L	NS	NS	NS	NS	NS	NS	NS
Carbon Tetrachloride	µg/L	NS	NS	NS	NS	NS	NS	NS
1,1-Dichloropropene	µg/L	NS	NS	NS	NS	NS	NS	NS
Benzene	µg/L	NS	NS	NS	NS	NS	NS	NS
1,2-Dichloroethane	µg/L	NS	NS	NS	NS	NS	NS	NS
Trichloroethene	µg/L	NS	NS	NS	NS	NS	NS	NS
1,2-Dichloropropane	µg/L	NS	NS	NS	NS	NS	NS	NS
Dibromomethane	µg/L	NS	NS	NS	NS	NS	NS	NS
Bromodichloromethane	µg/L	NS	NS	NS	NS	NS	NS	NS
cis-1,3-Dichloropropene	µg/L	NS	NS	NS	NS	NS	NS	NS
4-Methyl-2-Pentanone	µg/L	NS	NS	NS	NS	NS	NS	NS
Toluene	µg/L	NS	NS	NS	NS	NS	NS	NS
trans-1,3-Dichloropropene	µg/L	NS	NS	NS	NS	NS	NS	NS
1,1,2-Trichloroethane	µg/L	NS	NS	NS	NS	NS	NS	NS
Tetrachloroethene	µg/L	NS	NS	NS	NS	NS	NS	NS
1,3-Dichloropropane	µg/L	NS	NS	NS	NS	NS	NS	NS
2-Hexanone	µg/L	NS	NS	NS	NS	NS	NS	NS
Dibromochloromethane	µg/L	NS	NS	NS	NS	NS	NS	NS
1,2-Dibromoethane	µg/L	NS	NS	NS	NS	NS	NS	NS
Chlorobenzene	µg/L	NS	NS	NS	NS	NS	NS	NS
1,1,1,2-Tetrachloroethane	µg/L	NS	NS	NS	NS	NS	NS	NS
Ethylbenzene	µg/L	NS	NS	NS	NS	NS	NS	NS
Styrene	µg/L	NS	NS	NS	NS	NS	NS	NS
Bromoform	µg/L	NS	NS	NS	NS	NS	NS	NS
Isopropylbenzene	µg/L	NS	NS	NS	NS	NS	NS	NS
Bromobenzene	µg/L	NS	NS	NS	NS	NS	NS	NS
1,1,2,2-Tetrachloroethane	µg/L	NS	NS	NS	NS	NS	NS	NS
1,2,3-Trichloropropane	µg/L	NS	NS	NS	NS	NS	NS	NS
n-Propylbenzene	µg/L	NS	NS	NS	NS	NS	NS	NS
2-Chlorotoluene	µg/L	NS	NS	NS	NS	NS	NS	NS
4-Chlorotoluene	µg/L	NS	NS	NS	NS	NS	NS	NS
1,3,5-Trimethylbenzene	µg/L	NS	NS	NS	NS	NS	NS	NS
tert-Butylbenzene	µg/L	NS	NS	NS	NS	NS	NS	NS
1,2,4-Trimethylbenzene	µg/L	NS	NS	NS	NS	NS	NS	NS
sec-Butylbenzene	µg/L	NS	NS	NS	NS	NS	NS	NS
1,3-Dichlorobenzene	µg/L	NS	NS	NS	NS	NS	NS	NS
1,4-Dichlorobenzene	µg/L	NS	NS	NS	NS	NS	NS	NS
p-Isopropyltoluene	µg/L	NS	NS	NS	NS	NS	NS	NS
1,2-Dichlorobenzene	µg/L	NS	NS	NS	NS	NS	NS	NS
n-Butylbenzene	µg/L	NS	NS	NS	NS	NS	NS	NS
1,2-Dibromo-3-Chloropropane	µg/L	NS	NS	NS	NS	NS	NS	NS
1,2,4-Trichlorobenzene	µg/L	NS	NS	NS	NS	NS	NS	NS
Hexachlorobutadiene	µg/L	NS	NS	NS	NS	NS	NS	NS
Naphthalene	µg/L	NS	NS	NS	NS	NS	NS	NS
1,2,3-Trichlorobenzene	µg/L	NS	NS	NS	NS	NS	NS	NS
Xylene (total)	µg/L	NS	NS	NS	NS	NS	NS	NS

SENECA ARMY DEPOT, ASH LANDFILL
GROUNDWATER ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

	MATRIX	PHASE I	PHASE I	PHASE I	PHASE II	PHASE II	PHASE I	PHASE I
	LOCATION	WATER	WATER	WATER	WATER	WATER	WATER	WATER
	DATE	PT-20	PT-20	PT-20	PT20	PT20 RE	PT-21	PT-21
	ES ID	01/17/92	01/17/92	01/17/92	07/12/93	07/10/93	01/17/92	01/25/92CK
	LAB ID	PT-20(2,3)	PT-20RE(2,3,4)	PT-20(2,3)Filtered	PT20	PT20 RE	PT-21	PT-21
COMPOUND	UNITS	152706	152706	152713	188796	188796R1	152707	153059
SEMIVOLATILES								
Phenol	µg/L	25 R	10 U J	NS	10 U	NS	NS	10 U
bis(2-Chloroethyl) ether	µg/L	11 U R	10 U J	NS	10 U	NS	NS	10 U
2-Chlorophenol	µg/L	34 R	10 U J	NS	10 U	NS	NS	10 U
1,3-Dichlorobenzene	µg/L	11 U R	10 U J	NS	10 U	NS	NS	10 U
1,4-Dichlorobenzene	µg/L	11 U R	10 U J	NS	10 U	NS	NS	10 U
Benzyl Alcohol	µg/L	11 U R	10 U J	NS	NS	NS	NS	10 U
1,2-Dichlorobenzene	µg/L	11 U R	10 U J	NS	10 U	NS	NS	10 U
2-Methylphenol	µg/L	11 U R	10 U J	NS	10 U	NS	NS	10 U
bis(2-Chloroisopropyl) ether	µg/L	11 U R	10 U J	NS	10 U	NS	NS	10 U
4-Methylphenol	µg/L	11 U R	10 U J	NS	10 U	NS	NS	10 U
N-Nitroso-di-n-propylamine	µg/L	11 U R	10 U J	NS	10 U	NS	NS	10 U
Hexachloroethane	µg/L	11 U R	10 U J	NS	10 U	NS	NS	10 U
Nitrobenzene	µg/L	11 U R	10 U J	NS	10 U	NS	NS	10 U
Isophorone	µg/L	11 U R	10 U J	NS	10 U	NS	NS	10 U
2-Nitrophenol	µg/L	11 U R	10 U J	NS	10 U	NS	NS	10 U
2,4-Dimethylphenol	µg/L	11 U R	10 U J	NS	10 U	NS	NS	10 U
Benzoic acid	µg/L	54 U R	50 U J	NS	NS	NS	NS	50 U
bis(2-Chloroethoxy) methane	µg/L	11 U R	10 U J	NS	10 U	NS	NS	10 U
2,4-Dichlorophenol	µg/L	11 U R	10 U J	NS	10 U	NS	NS	10 U
1,2,4-Trichlorobenzene	µg/L	11 U R	10 U J	NS	10 U	NS	NS	10 U
Naphthalene	µg/L	11 U R	10 U J	NS	10 U	NS	NS	10 U
4-Chloroaniline	µg/L	11 U R	10 U J	NS	10 U	NS	NS	10 U
Hexachlorobutadiene	µg/L	11 U R	10 U J	NS	10 U	NS	NS	10 U
4-Chloro-3-methylphenol	µg/L	21 R	10 U J	NS	10 U	NS	NS	10 U
2-Methylnaphthalene	µg/L	11 U R	10 U J	NS	10 U	NS	NS	10 U
Hexachlorocyclopentadiene	µg/L	11 U R	10 U J	NS	10 U	NS	NS	10 U
2,4,6-Trichlorophenol	µg/L	11 U R	10 U J	NS	10 U	NS	NS	10 U
2,4,5-Trichlorophenol	µg/L	54 U R	50 U J	NS	25 U	NS	NS	50 U
2-Chloronaphthalene	µg/L	11 U R	10 U J	NS	10 U	NS	NS	10 U
2-Nitroaniline	µg/L	54 U R	50 U J	NS	25 U	NS	NS	50 U
Dimethylphthalate	µg/L	11 U R	10 U J	NS	10 U	NS	NS	10 U
Acenaphthylene	µg/L	11 U R	10 U J	NS	10 U	NS	NS	10 U
2,6-Dinitrotoluene	µg/L	11 U R	10 U J	NS	10 U	NS	NS	10 U
3-Nitroaniline	µg/L	54 U R	50 U J	NS	25 U	NS	NS	50 U
Acenaphthene	µg/L	11 U R	10 U J	NS	10 U	NS	NS	10 U
2,4-Dinitrophenol	µg/L	54 U R	50 U J	NS	25 U	NS	NS	50 U
4-Nitrophenol	µg/L	9 R	50 U J	NS	25 U	NS	NS	50 U
Dibenzofuran	µg/L	11 U R	10 U J	NS	10 U	NS	NS	10 U
2,4-Dinitrotoluene	µg/L	11 U R	10 U J	NS	10 U	NS	NS	10 U
Diethylphthalate	µg/L	11 U R	10 U J	NS	10 U	NS	NS	10 U
4-Chlorophenyl-phenylether	µg/L	11 U R	10 U J	NS	10 U	NS	NS	10 U
Fluorene	µg/L	11 U R	10 U J	NS	10 U	NS	NS	10 U
4-Nitroaniline	µg/L	54 U R	50 U J	NS	25 U	NS	NS	50 U
4,6-Dinitro-2-methylphenol	µg/L	54 U R	50 U J	NS	25 U	NS	NS	50 U
N-Nitrosodiphenylamine (1)	µg/L	11 U R	10 U J	NS	10 U	NS	NS	10 U
4-Bromophenyl-phenylether	µg/L	11 U R	10 U J	NS	10 U	NS	NS	10 U
Hexachlorobenzene	µg/L	11 U R	10 U J	NS	10 U	NS	NS	10 U
Pentachlorophenol	µg/L	3 R	50 U J	NS	25 U	NS	NS	50 U
Phenanthrene	µg/L	11 U R	10 U J	NS	10 U	NS	NS	10 U
Anthracene	µg/L	11 U R	10 U J	NS	10 U	NS	NS	10 U
Carbazole	µg/L	NS	NS	NS	10 U	NS	NS	NS
Di-n-butylphthalate	µg/L	11 U R	10 U J	NS	2 J	NS	NS	10 U
Fluoranthene	µg/L	11 U R	10 U J	NS	10 U	NS	NS	10 U
Pyrene	µg/L	11 U R	10 U J	NS	10 U	NS	NS	10 U
Butylbenzylphthalate	µg/L	11 U R	10 U J	NS	10 U	NS	NS	10 U
3,3'-Dichlorobenzidine	µg/L	22 U R	20 U J	NS	10 U	NS	NS	20 U
Benzo(a)anthracene	µg/L	11 U R	10 U J	NS	10 U	NS	NS	10 U
Chrysene	µg/L	11 U R	10 U J	NS	10 U	NS	NS	10 U
bis(2-Ethylhexyl)phthalate	µg/L	11 U R	10 U J	NS	10 U	NS	NS	33 U
Di-n-octylphthalate	µg/L	11 U R	10 U J	NS	10 U	NS	NS	10 U
Benzo(b)fluoranthene	µg/L	11 U R	10 U J	NS	10 U	NS	NS	10 U
Benzo(k)fluoranthene	µg/L	11 U R	10 U J	NS	10 U	NS	NS	10 U
Benzo(a)pyrene	µg/L	11 U R	10 U J	NS	10 U	NS	NS	10 U
Indeno(1,2,3-cd)pyrene	µg/L	11 U R	10 U J	NS	10 U	NS	NS	10 U
Dibenz(a,h)anthracene	µg/L	11 U R	10 U J	NS	10 U	NS	NS	10 U
Benzo(g,h,i)perylene	µg/L	11 U R	10 U J	NS	10 U	NS	NS	10 U

SENECA ARMY DEPOT, ASH LANDFILL
GROUNDWATER ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

COMPOUND	MATRIX LOCATION DATE ES ID LAB ID UNITS	PHASE I WATER PT-20 01/17/92 PT-20(2,3) 152706	PHASE I WATER PT-20 01/17/92 PT-20RE(2,3,4) 152706	PHASE I WATER PT-20 01/17/92 PT-20(2,3)Filtered 152713	PHASE II WATER PT20 07/12/93 PT20 186796	PHASE II WATER PT20 RE 07/10/93 PT20 RE 186796R1	PHASE I WATER PT-21 01/17/92 PT-21 152707	PHASE I WATER PT-21 01/25/92CK PT-21 153059
PESTICIDES/PCBS								
alpha-BHC	µg/L	0.055 U	NS	NS	0.05 U	NS	NS	NS
beta-BHC	µg/L	0.055 U	NS	NS	0.05 U	NS	NS	NS
delta-BHC	µg/L	0.055 U	NS	NS	0.05 U	NS	NS	NS
gamma-BHC (Lindane)	µg/L	0.055 U	NS	NS	0.05 U	NS	NS	NS
Heptachlor	µg/L	0.055 U	NS	NS	0.05 U	NS	NS	NS
Aldrin	µg/L	0.055 U	NS	NS	0.05 U	NS	NS	NS
Heptachlor epoxide	µg/L	0.055 U	NS	NS	0.05 U	NS	NS	NS
Endosulfan I	µg/L	0.055 U	NS	NS	0.05 U	NS	NS	NS
Dieldrin	µg/L	0.11 U	NS	NS	0.1 U	NS	NS	NS
4,4'-DDE	µg/L	0.11 U	NS	NS	0.1 U	NS	NS	NS
Endrin	µg/L	0.11 U	NS	NS	0.1 U	NS	NS	NS
Endosulfan II	µg/L	0.11 U	NS	NS	0.1 U	NS	NS	NS
4,4'-DDD	µg/L	0.11 U	NS	NS	0.1 U	NS	NS	NS
Endosulfan sulfate	µg/L	0.11 U	NS	NS	0.1 U	NS	NS	NS
4,4'-DDT	µg/L	0.11 U	NS	NS	0.1 U	NS	NS	NS
Methoxychlor	µg/L	0.55 U	NS	NS	0.5 U	NS	NS	NS
Endrin ketone	µg/L	0.11 U	NS	NS	0.1 U	NS	NS	NS
Endrin aldehyde	µg/L	NS	NS	NS	0.1 U	NS	NS	NS
alpha-Chlordane	µg/L	0.55 U	NS	NS	0.05 U	NS	NS	NS
gamma-Chlordane	µg/L	0.55 U	NS	NS	0.05 U	NS	NS	NS
Toxaphene	µg/L	1.1 U	NS	NS	5 U	NS	NS	NS
Aroclor-1016	µg/L	0.55 U	NS	NS	1 U	NS	NS	NS
Aroclor-1221	µg/L	0.55 U	NS	NS	2 U	NS	NS	NS
Aroclor-1232	µg/L	0.55 U	NS	NS	1 U	NS	NS	NS
Aroclor-1242	µg/L	0.55 U	NS	NS	1 U	NS	NS	NS
Aroclor-1248	µg/L	0.55 U	NS	NS	1 U	NS	NS	NS
Aroclor-1254	µg/L	1.1 U	NS	NS	1 U	NS	NS	NS
Aroclor-1260	µg/L	1.1 U	NS	NS	1 U	NS	NS	NS
HERBICIDES								
2,4-D	µg/L	1 U	NS	NS	1 R	1 R	NS	NS
2,4-DB	µg/L	1 U	NS	NS	1 R	1 R	NS	NS
2,4,5-T	µg/L	0.1 U	NS	NS	0.1 R	0.1 R	NS	NS
2,4,5-TP (Silvex)	µg/L	0.1 U	NS	NS	0.1 R	0.1 R	NS	NS
Dalapon	µg/L	2.3 U	NS	NS	2.3 R	2.3 R	NS	NS
Dicamba	µg/L	0.1 U	NS	NS	0.1 R	0.1 R	NS	NS
Dichloroprop	µg/L	1 U	NS	NS	1 R	1 R	NS	NS
Dinoseb	µg/L	0.5 U	NS	NS	0.5 R	0.5 R	NS	NS
MCPA	µg/L	100 U	NS	NS	100 R	100 R	NS	NS
MCPP	µg/L	100 U	NS	NS	100 R	100 R	NS	NS
METALS								
Aluminum	µg/L	10800	NS	24.4 U	124 J	NS	NS	14200
Antimony	µg/L	53.1 U	NS	52.9 U	62.1 R	NS	NS	52.9 U
Arsenic	µg/L	3.5 U	NS	3.5 U	1.4 U	NS	NS	3.5 U
Barium	µg/L	124 J	NS	85.3 R	73.9 J	NS	NS	230
Beryllium	µg/L	1.8 R	NS	1.1 U	0.9 U	NS	NS	1.7 R
Cadmium	µg/L	3 U	NS	3 U	2.8 U	NS	NS	4 J
Calcium	µg/L	145000	NS	125000	143000	NS	NS	185000
Chromium	µg/L	16.5	NS	6.1 U	2.7 U	NS	NS	18.6
Cobalt	µg/L	20.4 U	NS	20.3 U	5.5 U	NS	NS	20.3 U
Copper	µg/L	11.8 J	NS	10.1 U	4.7 U	NS	NS	17.9 J
Iron	µg/L	16000	NS	8.1 R	197 J	NS	NS	20100
Lead	µg/L	3.8 R	NS	1.2 U	0.6 U	NS	NS	7 R
Magnesium	µg/L	17400 J	NS	13600	14700	NS	NS	34300 J
Manganese	µg/L	378 J	NS	4.8 U	35.1	NS	NS	666 J
Mercury	µg/L	0.03 U	NS	0.03 U	0.09 UJ	NS	NS	0.03 U
Nickel	µg/L	17.1 J	NS	14.7 U	7.5 U	NS	NS	19.6 J
Potassium	µg/L	3440 J	NS	655 J	1800 J	NS	NS	8300
Selenium	µg/L	1 U J	NS	1 U	1.5 U	NS	NS	1 U J
Silver	µg/L	3.4 U	NS	3.4 U	5.5 U	NS	NS	3.4 U
Sodium	µg/L	35100	NS	33900	29700	NS	NS	47800
Thallium	µg/L	3.2 U	NS	3.2 U	2.6 U	NS	NS	3.2 U
Vanadium	µg/L	18.3 J	NS	9.4 U	6.8 U	NS	NS	21.1 J
Zinc	µg/L	60.7 R	NS	16.7 R	5.1 J	NS	NS	773 J
Cyanide	µg/L	10 U	NS	NS	1.2 U	NS	NS	10 U

SENECA ARMY DEPOT, ASH LANDFILL
GROUNDWATER ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

	MATRIX	PHASE I	PHASE II	PHASE I	PHASE I	PHASE II	PHASE II	PHASE I
	LOCATION	WATER PT-21	WATER PT21	WATER PT-22	WATER PT-22	WATER PT22	WATER PT22RE	WATER PT-23
	DATE	01/23/92	07/12/93	01/09/92	01/09/92	07/12/93	07/10/93	01/14/92
	ES ID	PT-21Filtered	PT21	PT-22	PT-22Filtered	PT22	PT22RE	PT-23
	LAB ID	153060	186798	152160	152202	186799	186799R1	152506
COMPOUND	UNITS							
Chloromethane	µg/L	NS	10 U	10 U	NS	10 U	NS	10 U
Bromomethane	µg/L	NS	10 U	10 U	NS	10 U	NS	10 U
Vinyl Chloride	µg/L	NS	10 U	10 U	NS	10 U	NS	10 U
Chloroethane	µg/L	NS	10 U	10 U	NS	10 U	NS	10 U
Methylene Chloride	µg/L	NS	10 U	5 U	NS	10 U	NS	5 U
Acetone	µg/L	NS	10 U	10 U	NS	10 U	NS	10 U
Carbon Disulfide	µg/L	NS	10 U	5 U	NS	10 U	NS	5 U
1,1-Dichloroethene	µg/L	NS	10 U	5 U	NS	10 U	NS	5 U
1,1-Dichloroethane	µg/L	NS	10 U	5 U	NS	10 U	NS	5 U
1,2-Dichloroethene (total)	µg/L	NS	14	100	NS	150	NS	5 U
Chloroform	µg/L	NS	10 U	5 U	NS	10 U	NS	5 U
1,2-Dichloroethane	µg/L	NS	10 U	4 J	NS	6 J	NS	5 U
2-Butanone	µg/L	NS	10 U	10 U	NS	10 U	NS	10 U
1,1,1-Trichloroethane	µg/L	NS	10 U	5 U	NS	10 U	NS	5 U
Carbon Tetrachloride	µg/L	NS	10 U	5 U	NS	10 U	NS	5 U
Vinyl Acetate	µg/L	NS	NS	10 U	NS	NS	NS	10 U
Bromodichloromethane	µg/L	NS	10 U	5 U	NS	10 U	NS	5 U
1,2-Dichloropropane	µg/L	NS	10 U	5 U	NS	10 U	NS	5 U
cis-1,3-Dichloropropene	µg/L	NS	10 U	5 U	NS	10 U	NS	5 U
Trichloroethene	µg/L	NS	3 J	80	NS	98	NS	5 U
Dibromochloromethane	µg/L	NS	10 U	5 U	NS	10 U	NS	5 U
1,1,2-Trichloroethane	µg/L	NS	10 U	5 U	NS	10 U	NS	5 U
Benzene	µg/L	NS	6 J	5 U	NS	10 U	NS	5 U
trans-1,3-Dichloropropene	µg/L	NS	10 U	5 U	NS	10 U	NS	5 U
Bromoform	µg/L	NS	10 U	5 U	NS	10 U	NS	5 U
4-Methyl-2-Pentanone	µg/L	NS	10 U	10 U	NS	10 U	NS	10 U
2-Hexanone	µg/L	NS	10 U	10 U	NS	10 U	NS	10 U
Tetrachloroethene	µg/L	NS	10 U	5 U	NS	10 U	NS	5 U
1,1,2,2-Tetrachloroethane	µg/L	NS	10 U	5 U	NS	10 U	NS	5 U
Toluene	µg/L	NS	10 U	5 U	NS	10 U	NS	5 U
Chlorobenzene	µg/L	NS	10 U	5 U	NS	10 U	NS	5 U
Ethylbenzene	µg/L	NS	10 U	5 U	NS	10 U	NS	5 U
Styrene	µg/L	NS	10 U	5 U	NS	10 U	NS	5 U
Xylene (total)	µg/L	NS	10 U	5 U	NS	10 U	NS	5 U

SENECA ARMY DEPOT, ASH LANDFILL
GROUNDWATER ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

COMPOUND	MATRIX	PHASE I	PHASE II	PHASE I	PHASE I	PHASE II	PHASE II	PHASE I
	LOCATION	WATER	WATER	WATER	WATER	WATER	WATER	WATER
	DATE	PT-21	PT21	PT-22	PT-22	PT22	PT22RE	PT-23
	ES ID	01/23/92	07/12/93	01/09/92	01/09/92	07/12/93	07/10/93	01/14/92
	LAB ID	PT-21Filtered	PT21	PT-22	PT-22Filtered	PT22	PT22RE	PT-23
	UNITS	183060	186798	182160	182202	186799	186799R1	182506
VOC's (524.2)								
Dichlorodifluoromethane	µg/L	NS	NS	NS	NS	NS	NS	NS
Chloromethane	µg/L	NS	NS	NS	NS	NS	NS	NS
Vinyl Chloride	µg/L	NS	NS	NS	NS	NS	NS	NS
Bromomethane	µg/L	NS	NS	NS	NS	NS	NS	NS
Chloroethane	µg/L	NS	NS	NS	NS	NS	NS	NS
Trichlorofluoromethane	µg/L	NS	NS	NS	NS	NS	NS	NS
1,1-Dichloroethene	µg/L	NS	NS	NS	NS	NS	NS	NS
Acetone	µg/L	NS	NS	NS	NS	NS	NS	NS
Carbon Disulfide	µg/L	NS	NS	NS	NS	NS	NS	NS
Methylene Chloride	µg/L	NS	NS	NS	NS	NS	NS	NS
trans-1,2-Dichloroethene	µg/L	NS	NS	NS	NS	NS	NS	NS
1,1-Dichloroethane	µg/L	NS	NS	NS	NS	NS	NS	NS
2,2-Dichloropropane	µg/L	NS	NS	NS	NS	NS	NS	NS
cis-1,2-Dichloroethene	µg/L	NS	NS	NS	NS	NS	NS	NS
2-Butanone	µg/L	NS	NS	NS	NS	NS	NS	NS
Bromochloromethane	µg/L	NS	NS	NS	NS	NS	NS	NS
Chloroform	µg/L	NS	NS	NS	NS	NS	NS	NS
1,1,1-Trichloroethane	µg/L	NS	NS	NS	NS	NS	NS	NS
Carbon Tetrachloride	µg/L	NS	NS	NS	NS	NS	NS	NS
1,1-Dichloropropene	µg/L	NS	NS	NS	NS	NS	NS	NS
Benzene	µg/L	NS	NS	NS	NS	NS	NS	NS
1,2-Dichloroethane	µg/L	NS	NS	NS	NS	NS	NS	NS
Trichloroethene	µg/L	NS	NS	NS	NS	NS	NS	NS
1,2-Dichloropropane	µg/L	NS	NS	NS	NS	NS	NS	NS
Dibromomethane	µg/L	NS	NS	NS	NS	NS	NS	NS
Bromodichloromethane	µg/L	NS	NS	NS	NS	NS	NS	NS
cis-1,3-Dichloropropene	µg/L	NS	NS	NS	NS	NS	NS	NS
4-Methyl-2-Pentanone	µg/L	NS	NS	NS	NS	NS	NS	NS
Toluene	µg/L	NS	NS	NS	NS	NS	NS	NS
trans-1,3-Dichloropropene	µg/L	NS	NS	NS	NS	NS	NS	NS
1,1,2-Trichloroethane	µg/L	NS	NS	NS	NS	NS	NS	NS
Tetrachloroethene	µg/L	NS	NS	NS	NS	NS	NS	NS
1,3-Dichloropropane	µg/L	NS	NS	NS	NS	NS	NS	NS
2-Hexanone	µg/L	NS	NS	NS	NS	NS	NS	NS
Dibromochloromethane	µg/L	NS	NS	NS	NS	NS	NS	NS
1,2-Dibromoethane	µg/L	NS	NS	NS	NS	NS	NS	NS
Chlorobenzene	µg/L	NS	NS	NS	NS	NS	NS	NS
1,1,1,2-Tetrachloroethane	µg/L	NS	NS	NS	NS	NS	NS	NS
Ethylbenzene	µg/L	NS	NS	NS	NS	NS	NS	NS
Styrene	µg/L	NS	NS	NS	NS	NS	NS	NS
Bromoform	µg/L	NS	NS	NS	NS	NS	NS	NS
Isopropylbenzene	µg/L	NS	NS	NS	NS	NS	NS	NS
Bromobenzene	µg/L	NS	NS	NS	NS	NS	NS	NS
1,1,2,2-Tetrachloroethane	µg/L	NS	NS	NS	NS	NS	NS	NS
1,2,3-Trichloropropane	µg/L	NS	NS	NS	NS	NS	NS	NS
n-Propylbenzene	µg/L	NS	NS	NS	NS	NS	NS	NS
2-Chlorotoluene	µg/L	NS	NS	NS	NS	NS	NS	NS
4-Chlorotoluene	µg/L	NS	NS	NS	NS	NS	NS	NS
1,3,5-Trimethylbenzene	µg/L	NS	NS	NS	NS	NS	NS	NS
tert-Butylbenzene	µg/L	NS	NS	NS	NS	NS	NS	NS
1,2,4-Trimethylbenzene	µg/L	NS	NS	NS	NS	NS	NS	NS
sec-Butylbenzene	µg/L	NS	NS	NS	NS	NS	NS	NS
1,3-Dichlorobenzene	µg/L	NS	NS	NS	NS	NS	NS	NS
1,4-Dichlorobenzene	µg/L	NS	NS	NS	NS	NS	NS	NS
p-Isopropyltoluene	µg/L	NS	NS	NS	NS	NS	NS	NS
1,2-Dichlorobenzene	µg/L	NS	NS	NS	NS	NS	NS	NS
n-Butylbenzene	µg/L	NS	NS	NS	NS	NS	NS	NS
1,2-Dibromo-3-Chloropropane	µg/L	NS	NS	NS	NS	NS	NS	NS
1,2,4-Trichlorobenzene	µg/L	NS	NS	NS	NS	NS	NS	NS
Hexachlorobutadiene	µg/L	NS	NS	NS	NS	NS	NS	NS
Naphthalene	µg/L	NS	NS	NS	NS	NS	NS	NS
1,2,3-Trichlorobenzene	µg/L	NS	NS	NS	NS	NS	NS	NS
Xylene (total)	µg/L	NS	NS	NS	NS	NS	NS	NS

SENECA ARMY DEPOT, ASH LANDFILL
GROUNDWATER ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

COMPOUND	MATRIX	PHASE I	PHASE II	PHASE I	PHASE I	PHASE II	PHASE II	PHASE I
	LOCATION	WATER	WATER	WATER	WATER	WATER	WATER	WATER
	DATE	PT-21	PT21	PT-22	PT-22	PT22	PT22RE	PT-23
	ES ID	01/23/92	07/12/93	01/09/92	01/09/92	07/12/93	07/10/93	01/14/92
	LAB ID	PT-21Filtered	PT21	PT-22	PT-22Filtered	PT22	PT22RE	PT-23
	UNITS	153060	188798	152160	152202	188799	188799R1	152506
SEMIVOLATILES								
Phenol	µg/L	NS	NS	11 U	NS	10 U	NS	12 U
bis(2-Chloroethyl) ether	µg/L	NS	NS	11 U	NS	0.6 J	NS	12 U
2-Chlorophenol	µg/L	NS	NS	11 U	NS	10 U	NS	12 U
1,3-Dichlorobenzene	µg/L	NS	NS	11 U	NS	10 U	NS	12 U
1,4-Dichlorobenzene	µg/L	NS	NS	11 U	NS	10 U	NS	12 U
Benzyl Alcohol	µg/L	NS	NS	11 U	NS	NS	NS	12 U
1,2-Dichlorobenzene	µg/L	NS	NS	11 U	NS	10 U	NS	12 U
2-Methylphenol	µg/L	NS	NS	11 U	NS	10 U	NS	12 U
bis(2-Chloroisopropyl) ether	µg/L	NS	NS	11 U	NS	10 U	NS	12 U
4-Methylphenol	µg/L	NS	NS	11 U	NS	10 U	NS	12 U
N-Nitroso-di-n-propylamine	µg/L	NS	NS	11 U	NS	10 U	NS	12 U
Hexachloroethane	µg/L	NS	NS	11 U	NS	10 U	NS	12 U
Nitrobenzene	µg/L	NS	NS	11 U	NS	10 U	NS	12 U
Isophorone	µg/L	NS	NS	11 U	NS	10 U	NS	12 U
2-Nitrophenol	µg/L	NS	NS	11 U	NS	10 U	NS	12 U
2,4-Dimethylphenol	µg/L	NS	NS	11 U	NS	10 U	NS	12 U
Benzoic acid	µg/L	NS	NS	54 U	NS	NS	NS	61 U
bis(2-Chloroethoxy) methane	µg/L	NS	NS	11 U	NS	10 U	NS	12 U
2,4-Dichlorophenol	µg/L	NS	NS	11 U	NS	10 U	NS	12 U
1,2,4-Trichlorobenzene	µg/L	NS	NS	11 U	NS	10 U	NS	12 U
Naphthalene	µg/L	NS	NS	11 U	NS	10 U	NS	12 U
4-Chloroaniline	µg/L	NS	NS	11 U	NS	10 U	NS	12 U
Hexachlorobutadiene	µg/L	NS	NS	11 U	NS	10 U	NS	12 U
4-Chloro-3-methylphenol	µg/L	NS	NS	11 U	NS	10 U	NS	12 U
2-Methylnaphthalene	µg/L	NS	NS	11 U	NS	10 U	NS	12 U
Hexachlorocyclopentadiene	µg/L	NS	NS	11 U	NS	10 U	NS	12 U
2,4,6-Trichlorophenol	µg/L	NS	NS	11 U	NS	10 U	NS	12 U
2,4,5-Trichlorophenol	µg/L	NS	NS	54 U	NS	24 U	NS	61 U
2-Chloronaphthalene	µg/L	NS	NS	11 U	NS	10 U	NS	12 U
2-Nitroaniline	µg/L	NS	NS	54 U	NS	24 U	NS	61 U
Dimethylphthalate	µg/L	NS	NS	11 U	NS	10 U	NS	12 U
Acenaphthylene	µg/L	NS	NS	11 U	NS	10 U	NS	12 U
2,6-Dinitrotoluene	µg/L	NS	NS	11 U	NS	10 U	NS	12 U
3-Nitroaniline	µg/L	NS	NS	54 U	NS	24 U	NS	61 U
Acenaphthene	µg/L	NS	NS	11 U	NS	10 U	NS	12 U
2,4-Dinitrophenol	µg/L	NS	NS	54 U	NS	24 U	NS	61 U
4-Nitrophenol	µg/L	NS	NS	54 U	NS	24 U	NS	61 U
Dibenzofuran	µg/L	NS	NS	11 U	NS	10 U	NS	12 U
2,4-Dinitrotoluene	µg/L	NS	NS	11 U	NS	10 U	NS	12 U
Diethylphthalate	µg/L	NS	NS	11 U	NS	10 U	NS	12 U
4-Chlorophenyl-phenylether	µg/L	NS	NS	11 U	NS	10 U	NS	12 U
Fluorene	µg/L	NS	NS	11 U	NS	10 U	NS	12 U
4-Nitroaniline	µg/L	NS	NS	54 U	NS	24 U	NS	61 U
4,6-Dinitro-2-methylphenol	µg/L	NS	NS	54 U	NS	24 U	NS	61 U
N-Nitrosodiphenylamine (1)	µg/L	NS	NS	11 U	NS	10 U	NS	12 U
4-Bromophenyl-phenylether	µg/L	NS	NS	11 U	NS	10 U	NS	12 U
Hexachlorobenzene	µg/L	NS	NS	11 U	NS	10 U	NS	12 U
Pentachlorophenol	µg/L	NS	NS	54 U	NS	25 U	NS	61 U
Phenanthrene	µg/L	NS	NS	11 U	NS	10 U	NS	12 U
Anthracene	µg/L	NS	NS	11 U	NS	10 U	NS	12 U
Carbazole	µg/L	NS	NS	NS	NS	10 U	NS	NS
Di-n-butylphthalate	µg/L	NS	NS	11 U	NS	3 J	NS	12 U
Fluoranthene	µg/L	NS	NS	11 U	NS	10 U	NS	12 U
Pyrene	µg/L	NS	NS	11 U	NS	10 U	NS	12 U
Butylbenzylphthalate	µg/L	NS	NS	11 U	NS	10 U	NS	12 U
3,3'-Dichlorobenzidine	µg/L	NS	NS	22 U	NS	10 U	NS	24 U
Benzo(a)anthracene	µg/L	NS	NS	11 U	NS	10 U	NS	12 U
Chrysene	µg/L	NS	NS	11 U	NS	10 U	NS	12 U
bis(2-Ethylhexyl)phthalate	µg/L	NS	NS	11 U	NS	10 U	NS	12 U
Di-n-octylphthalate	µg/L	NS	NS	11 U	NS	10 U	NS	12 U
Benzo(b)fluoranthene	µg/L	NS	NS	11 U	NS	10 U	NS	12 U
Benzo(k)fluoranthene	µg/L	NS	NS	11 U	NS	10 U	NS	12 U
Benzo(a)pyrene	µg/L	NS	NS	11 U	NS	10 U	NS	12 U
Indeno(1,2,3-cd)pyrene	µg/L	NS	NS	11 U	NS	10 U	NS	12 U
Dibenz(a,h)anthracene	µg/L	NS	NS	11 U	NS	10 U	NS	12 U
Benzo(g,h,i)perylene	µg/L	NS	NS	11 U	NS	10 U	NS	12 U

SENECA ARMY DEPOT, ASH LANDFILL
GROUNDWATER ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

COMPOUND	MATRIX	PHASE I WATER	PHASE II WATER	PHASE I WATER	PHASE I WATER	PHASE II WATER	PHASE II WATER	PHASE I WATER
	LOCATION	PT-21	PT21	PT-22	PT-22	PT22	PT22RE	PT-23
	DATE	01/23/92	07/12/93	01/09/92	01/09/92	07/12/93	07/10/93	01/14/92
	ES ID	PT-21Filtered	PT21	PT-22	PT-22Filtered	PT22	PT22RE	PT-23
	LAB ID	153060	188798	152160	152202	188799	188799R1	152506
	UNITS							
PESTICIDES/PCBS								
alpha-BHC	µg/L	NS	NS	0.052 U	NS	0.05 U	NS	0.051 U
beta-BHC	µg/L	NS	NS	0.052 U	NS	0.05 U	NS	0.051 U
delta-BHC	µg/L	NS	NS	0.052 U	NS	0.05 U	NS	0.051 U
gamma-BHC (Lindane)	µg/L	NS	NS	0.052 U	NS	0.05 U	NS	0.051 U
Heptachlor	µg/L	NS	NS	0.052 U	NS	0.05 U	NS	0.051 U
Aldrin	µg/L	NS	NS	0.052 U	NS	0.05 U	NS	0.051 U
Heptachlor epoxide	µg/L	NS	NS	0.052 U	NS	0.05 U	NS	0.051 U
Endosulfan I	µg/L	NS	NS	0.052 U	NS	0.05 U	NS	0.051 U
Dieldrin	µg/L	NS	NS	0.1 U	NS	0.1 U	NS	0.12 U
4,4'-DDE	µg/L	NS	NS	0.1 U	NS	0.1 U	NS	0.12 U
Endrin	µg/L	NS	NS	0.1 U	NS	0.1 U	NS	0.12 U
Endosulfan II	µg/L	NS	NS	0.1 U	NS	0.1 U	NS	0.12 U
4,4'-DDD	µg/L	NS	NS	0.1 U	NS	0.1 U	NS	0.12 U
Endosulfan sulfate	µg/L	NS	NS	0.1 U	NS	0.1 U	NS	0.12 U
4,4'-DDT	µg/L	NS	NS	0.1 U	NS	0.1 U	NS	0.12 U
Methoxychlor	µg/L	NS	NS	0.52 U	NS	0.5 U	NS	0.51 U
Endrin ketone	µg/L	NS	NS	0.1 U	NS	0.1 U	NS	0.12 U
Endrin aldehyde	µg/L	NS	NS	NS	NS	0.1 U	NS	NS
alpha-Chlordane	µg/L	NS	NS	0.52 U	NS	0.05 U	NS	0.51 U
gamma-Chlordane	µg/L	NS	NS	0.52 U	NS	0.05 U	NS	0.51 U
Toxaphene	µg/L	NS	NS	1 U	NS	5 U	NS	1.2 U
Aroclor-1016	µg/L	NS	NS	0.52 U	NS	1 U	NS	0.51 U
Aroclor-1221	µg/L	NS	NS	0.52 U	NS	2 U	NS	0.51 U
Aroclor-1232	µg/L	NS	NS	0.52 U	NS	1 U	NS	0.51 U
Aroclor-1242	µg/L	NS	NS	0.52 U	NS	1 U	NS	0.51 U
Aroclor-1248	µg/L	NS	NS	0.52 U	NS	1 U	NS	0.51 U
Aroclor-1254	µg/L	NS	NS	1 U	NS	1 U	NS	1.2 U
Aroclor-1260	µg/L	NS	NS	1 U	NS	1 U	NS	1.2 U
HERBICIDES								
2,4-D	µg/L	NS	NS	1 U	NS	1 R	1 R	1 U
2,4-DB	µg/L	NS	NS	1 U	NS	1 R	1 R	1 U
2,4,5-T	µg/L	NS	NS	0.1 U	NS	0.1 R	0.1 R	0.1 U
2,4,5-TP (Silvex)	µg/L	NS	NS	0.1 U	NS	0.1 R	0.1 R	0.1 U
Dalapon	µg/L	NS	NS	2.4 U	NS	2.3 R	6.4 J	2.4 U
Dicamba	µg/L	NS	NS	0.1 U	NS	0.1 R	0.1 R	0.1 U
Dichloroprop	µg/L	NS	NS	1 U	NS	1 R	1 R	1 U
Dinoseb	µg/L	NS	NS	0.5 U	NS	0.5 R	0.51 R	0.5 U
MCPA	µg/L	NS	NS	100 U	NS	100 R	100 R	100 U
MCPP	µg/L	NS	NS	100 U	NS	100 R	100 R	100 U
METALS								
Aluminum	µg/L	24.4 U	NS	4090	24.4 U	178 J	NS	2000
Antimony	µg/L	52.9 U	NS	55.8 U J	53 U	50 U	NS	53 U
Arsenic	µg/L	3.5 U	NS	3.5 U	3.5 U	1.4 U	NS	3.5 U
Barium	µg/L	108 R	NS	148 J	42.4 R	69.8 J	NS	45.4 R
Beryllium	µg/L	1.1 U	NS	2.3 R	2.4 R	0.9 U	NS	2.1 R
Cadmium	µg/L	3 U	NS	2.9 U	3 U	2.8 U	NS	3 U
Calcium	µg/L	130000	NS	197000 J	126000	147000	NS	96200
Chromium	µg/L	6.1 U	NS	6.5 J	6.2 U	2.7 U	NS	6.6 J
Cobalt	µg/L	20.3 U	NS	19.9 U	20.4 U	5.5 U	NS	20.4 U
Copper	µg/L	10.1 U	NS	14.4 U	10.1 U	4.7 U	NS	10.1 U
Iron	µg/L	25.2 R	NS	6010	6.9 U	214 J	NS	2510
Lead	µg/L	1.2 U	NS	10.5	1.2 U	0.78 J	NS	1.2 U
Magnesium	µg/L	25600	NS	18200 J	16800	17400	NS	11200
Manganese	µg/L	68.8	NS	1140	4.8 U	57.9	NS	80.4
Mercury	µg/L	0.03 U	NS	0.18 R	0.12 R	0.09 UJ	NS	0.11 R
Nickel	µg/L	14.7 U	NS	15.9 U	14.7 U	7.5 U	NS	14.7 U
Potassium	µg/L	4780 J	NS	632 U	380 J	1840 J	NS	1060 J
Selenium	µg/L	1 U	NS	1 U	1 U	1.5 U	NS	1.3 U
Silver	µg/L	3.4 U	NS	9.1 U	3.4 U	5.5 U	NS	3.4 U
Sodium	µg/L	44400	NS	52800 J	54100	64900	NS	4780 J
Thallium	µg/L	3.2 U	NS	3.2 U	3.2 U	2.6 U	NS	3.2 U
Vanadium	µg/L	9.4 U	NS	30.5 U	9.4 U	6.8 U	NS	9.4 U
Zinc	µg/L	170 R	NS	76.6 R	8.4 U	9.6 J	NS	47.8 R
Cyanide	µg/L	NS	NS	10 U	NS	1.2 U	NS	10 U

SENECA ARMY DEPOT, ASH LANDFILL
GROUNDWATER ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

	MATRIX	PHASE I	PHASE II	PHASE I	PHASE I	PHASE II	PHASE II	PHASE I
	LOCATION	WATER	WATER	WATER	WATER	WATER	WATER	WATER
	DATE	PT-23	PT23	PT-24	PT-24	PT24	PT24RE	PT-25
	ES ID	01/14/92	06/24/93	01/14/92	01/14/92	07/10/93	07/10/93	01/15/92
	LAB ID	PT-23Filtered	PT23	PT-24	PT-24Filtered	PT24	PT24RE	PT-25
COMPOUND	UNITS	152511	187344	152507	152512	188729	188729	152575
Chloromethane	µg/L	NS	NS	10 U	NS	10 U	NS	10 U
Bromomethane	µg/L	NS	NS	10 U	NS	10 U	NS	10 U
Vinyl Chloride	µg/L	NS	NS	10 U	NS	10 U	NS	10 U
Chloroethane	µg/L	NS	NS	10 U	NS	10 U	NS	10 U
Methylene Chloride	µg/L	NS	NS	5 U	NS	10 U	NS	5 U
Acetone	µg/L	NS	NS	10 U	NS	10 U	NS	10 U
Carbon Disulfide	µg/L	NS	NS	5 U	NS	10 U	NS	5 U
1,1-Dichloroethene	µg/L	NS	NS	5 U	NS	10 U	NS	5 U
1,1-Dichloroethane	µg/L	NS	NS	5 U	NS	10 U	NS	5 U
1,2-Dichloroethene (total)	µg/L	NS	NS	100	NS	62	NS	5 U
Chloroform	µg/L	NS	NS	5 U	NS	10 U	NS	5 U
1,2-Dichloroethane	µg/L	NS	NS	5 U	NS	10 U	NS	5 U
2-Butanone	µg/L	NS	NS	10 U	NS	10 U	NS	10 U
1,1,1-Trichloroethane	µg/L	NS	NS	5 U	NS	10 U	NS	5 U
Carbon Tetrachloride	µg/L	NS	NS	5 U	NS	10 U	NS	5 U
Vinyl Acetate	µg/L	NS	NS	10 U	NS	NS	NS	10 U
Bromodichloromethane	µg/L	NS	NS	5 U	NS	10 U	NS	5 U
1,2-Dichloropropane	µg/L	NS	NS	5 U	NS	10 U	NS	5 U
cis-1,3-Dichloropropene	µg/L	NS	NS	5 U	NS	10 U	NS	5 U
Trichloroethene	µg/L	NS	NS	4 J	NS	4 J	NS	5 U
Dibromochloromethane	µg/L	NS	NS	5 U	NS	10 U	NS	5 U
1,1,2-Trichloroethane	µg/L	NS	NS	5 U	NS	10 U	NS	5 U
Benzene	µg/L	NS	NS	5 U	NS	10 U	NS	5 U
trans-1,3-Dichloropropene	µg/L	NS	NS	5 U	NS	10 U	NS	5 U
Bromoform	µg/L	NS	NS	5 U	NS	10 U	NS	5 U
4-Methyl-2-Pentanone	µg/L	NS	NS	10 U	NS	10 U	NS	10 U
2-Hexanone	µg/L	NS	NS	10 U	NS	10 U	NS	10 U
Tetrachloroethene	µg/L	NS	NS	5 U	NS	10 U	NS	5 U
1,1,2,2-Tetrachloroethane	µg/L	NS	NS	5 U	NS	10 U	NS	5 U
Toluene	µg/L	NS	NS	5 U	NS	10 U	NS	5 U
Chlorobenzene	µg/L	NS	NS	5 U	NS	10 U	NS	5 U
Ethylbenzene	µg/L	NS	NS	5 U	NS	10 U	NS	5 U
Styrene	µg/L	NS	NS	5 U	NS	10 U	NS	5 U
Xylene (total)	µg/L	NS	NS	5 U	NS	10 U	NS	5 U

SENECA ARMY DEPOT, ASH LANDFILL
GROUNDWATER ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

COMPOUND	MATRIX LOCATION DATE ES ID LAB ID UNITS	PHASE I WATER PT-23 01/14/92 PT-23Filtered 152511	PHASE II WATER PT23 06/24/93 PT23 187344	PHASE I WATER PT-24 01/14/92 PT-24 152507	PHASE I WATER PT-24 01/14/92 PT-24Filtered 152512	PHASE II WATER PT24 07/10/93 PT24 188729	PHASE II WATER PT24RE 07/10/93 PT24RE 188729	PHASE I WATER PT-25 01/15/92 PT-25 152575
VOC's (524.2)								
Dichlorodifluoromethane	µg/L	NS	0.5 U	NS	NS	NS	NS	NS
Chloromethane	µg/L	NS	0.5 U	NS	NS	NS	NS	NS
Vinyl Chloride	µg/L	NS	0.5 U	NS	NS	NS	NS	NS
Bromomethane	µg/L	NS	0.5 U	NS	NS	NS	NS	NS
Chloroethane	µg/L	NS	0.5 U	NS	NS	NS	NS	NS
Trichlorofluoromethane	µg/L	NS	0.5 U	NS	NS	NS	NS	NS
1,1-Dichloroethene	µg/L	NS	0.5 U	NS	NS	NS	NS	NS
Acetone	µg/L	NS	5 U	NS	NS	NS	NS	NS
Carbon Disulfide	µg/L	NS	0.5 U	NS	NS	NS	NS	NS
Methylene Chloride	µg/L	NS	0.5 U	NS	NS	NS	NS	NS
trans-1,2-Dichloroethene	µg/L	NS	0.5 U	NS	NS	NS	NS	NS
1,1-Dichloroethane	µg/L	NS	0.5 U	NS	NS	NS	NS	NS
2,2-Dichloropropane	µg/L	NS	0.5 U	NS	NS	NS	NS	NS
cis-1,2-Dichloroethene	µg/L	NS	0.5 U	NS	NS	NS	NS	NS
2-Butanone	µg/L	NS	5 U	NS	NS	NS	NS	NS
Bromochloromethane	µg/L	NS	0.5 U	NS	NS	NS	NS	NS
Chloroform	µg/L	NS	0.5 U	NS	NS	NS	NS	NS
1,1,1-Trichloroethane	µg/L	NS	0.5 U	NS	NS	NS	NS	NS
Carbon Tetrachloride	µg/L	NS	0.5 U	NS	NS	NS	NS	NS
1,1-Dichloropropene	µg/L	NS	0.5 U	NS	NS	NS	NS	NS
Benzene	µg/L	NS	0.5 U	NS	NS	NS	NS	NS
1,2-Dichloroethane	µg/L	NS	0.5 U	NS	NS	NS	NS	NS
Trichloroethene	µg/L	NS	0.5 U	NS	NS	NS	NS	NS
1,2-Dichloropropane	µg/L	NS	0.5 U	NS	NS	NS	NS	NS
Dibromomethane	µg/L	NS	0.5 U	NS	NS	NS	NS	NS
Bromodichloromethane	µg/L	NS	0.5 U	NS	NS	NS	NS	NS
cis-1,3-Dichloropropene	µg/L	NS	0.5 U	NS	NS	NS	NS	NS
4-Methyl-2-Pentanone	µg/L	NS	5 U	NS	NS	NS	NS	NS
Toluene	µg/L	NS	0.5 U	NS	NS	NS	NS	NS
trans-1,3-Dichloropropene	µg/L	NS	0.5 U	NS	NS	NS	NS	NS
1,1,2-Trichloroethane	µg/L	NS	0.5 U	NS	NS	NS	NS	NS
Tetrachloroethene	µg/L	NS	0.5 U	NS	NS	NS	NS	NS
1,3-Dichloropropane	µg/L	NS	0.5 U	NS	NS	NS	NS	NS
2-Hexanone	µg/L	NS	5 U	NS	NS	NS	NS	NS
Dibromochloromethane	µg/L	NS	0.5 U	NS	NS	NS	NS	NS
1,2-Dibromoethane	µg/L	NS	0.5 U	NS	NS	NS	NS	NS
Chlorobenzene	µg/L	NS	0.5 U	NS	NS	NS	NS	NS
1,1,1,2-Tetrachloroethane	µg/L	NS	0.5 U	NS	NS	NS	NS	NS
Ethylbenzene	µg/L	NS	0.5 U	NS	NS	NS	NS	NS
Styrene	µg/L	NS	0.5 U	NS	NS	NS	NS	NS
Bromoform	µg/L	NS	0.5 U	NS	NS	NS	NS	NS
Isopropylbenzene	µg/L	NS	0.5 U	NS	NS	NS	NS	NS
Bromobenzene	µg/L	NS	0.5 U	NS	NS	NS	NS	NS
1,1,2,2-Tetrachloroethane	µg/L	NS	0.5 U	NS	NS	NS	NS	NS
1,2,3-Trichloropropane	µg/L	NS	0.5 U	NS	NS	NS	NS	NS
n-Propylbenzene	µg/L	NS	0.5 U	NS	NS	NS	NS	NS
2-Chlorotoluene	µg/L	NS	0.5 U	NS	NS	NS	NS	NS
4-Chlorotoluene	µg/L	NS	0.5 U	NS	NS	NS	NS	NS
1,3,5-Trimethylbenzene	µg/L	NS	0.5 U	NS	NS	NS	NS	NS
tert-Butylbenzene	µg/L	NS	0.5 U	NS	NS	NS	NS	NS
1,2,4-Trimethylbenzene	µg/L	NS	0.5 U	NS	NS	NS	NS	NS
sec-Butylbenzene	µg/L	NS	0.5 U	NS	NS	NS	NS	NS
1,3-Dichlorobenzene	µg/L	NS	0.5 U	NS	NS	NS	NS	NS
1,4-Dichlorobenzene	µg/L	NS	0.5 U	NS	NS	NS	NS	NS
p-Isopropyltoluene	µg/L	NS	0.5 U	NS	NS	NS	NS	NS
1,2-Dichlorobenzene	µg/L	NS	0.5 U	NS	NS	NS	NS	NS
n-Butylbenzene	µg/L	NS	0.5 U	NS	NS	NS	NS	NS
1,2-Dibromo-3-Chloropropane	µg/L	NS	0.5 U	NS	NS	NS	NS	NS
1,2,4-Trichlorobenzene	µg/L	NS	0.5 U	NS	NS	NS	NS	NS
Hexachlorobutadiene	µg/L	NS	0.5 U	NS	NS	NS	NS	NS
Naphthalene	µg/L	NS	0.5 U	NS	NS	NS	NS	NS
1,2,3-Trichlorobenzene	µg/L	NS	0.5 U	NS	NS	NS	NS	NS
Xylene (total)	µg/L	NS	0.5 U	NS	NS	NS	NS	NS

SENECA ARMY DEPOT, ASH LANDFILL
GROUNDWATER ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

	MATRIX	PHASE I	PHASE II	PHASE I	PHASE I	PHASE II	PHASE II	PHASE I
	LOCATION	WATER	WATER	WATER	WATER	WATER	WATER	WATER
	DATE	PT-23	PT23	PT-24	PT-24	PT24	PT24RE	PT-25
	ES ID	01/14/92	06/24/93	01/14/92	01/14/92	07/10/93	07/10/93	01/15/92
	LAB ID	PT-23Filtered	PT23	PT-24	PT-24Filtered	PT24	PT24RE	PT-25
COMPOUND	UNITS	152511	187344	152507	152512	188729	188729	152575
SEMIVOLATILES								
Phenol	µg/L	NS	10 U	11 U	NS	10 U	10 U	11 U
bis(2-Chloroethyl) ether	µg/L	NS	10 U	11 U	NS	10 U	10 U	11 U
2-Chlorophenol	µg/L	NS	10 U	11 U	NS	10 U	10 U	11 U
1,3-Dichlorobenzene	µg/L	NS	10 U	11 U	NS	10 U	10 U	11 U
1,4-Dichlorobenzene	µg/L	NS	10 U	11 U	NS	10 U	10 U	11 U
Benzyl Alcohol	µg/L	NS	NS	11 U	NS	NS	NS	11 U
1,2-Dichlorobenzene	µg/L	NS	10 U	11 U	NS	10 U	10 U	11 U
2-Methylphenol	µg/L	NS	10 U	11 U	NS	10 U	10 U	11 U
bis(2-Chloroisopropyl) ether	µg/L	NS	10 U	11 U	NS	10 U	10 U	11 U
4-Methylphenol	µg/L	NS	10 U	11 U	NS	10 U	10 U	11 U
N-Nitroso-di-n-propylamine	µg/L	NS	10 U	11 U	NS	10 U	10 U	11 U
Hexachloroethane	µg/L	NS	10 U	11 U	NS	10 U	10 U	11 U
Nitrobenzene	µg/L	NS	10 U	11 U	NS	10 U	10 U	11 U
Isophorone	µg/L	NS	10 U	11 U	NS	10 U	10 U	11 U
2-Nitrophenol	µg/L	NS	10 U	11 U	NS	10 U	10 U	11 U
2,4-Dimethylphenol	µg/L	NS	10 U	11 U	NS	10 U	10 U	11 U
Benzoic acid	µg/L	NS	NS	55 U	NS	NS	NS	55 U
bis(2-Chloroethoxy) methane	µg/L	NS	10 U	11 U	NS	10 U	10 U	11 U
2,4-Dichlorophenol	µg/L	NS	10 U	11 U	NS	10 U	10 U	11 U
1,2,4-Trichlorobenzene	µg/L	NS	10 U	11 U	NS	10 U	10 U	11 U
Naphthalene	µg/L	NS	10 U	11 U	NS	10 U	10 U	11 U
4-Chloroaniline	µg/L	NS	10 U	11 U	NS	10 U	10 U	11 U
Hexachlorobutadiene	µg/L	NS	10 U	11 U	NS	10 U	10 U	11 U
4-Chloro-3-methylphenol	µg/L	NS	10 U	11 U	NS	10 U	10 U	11 U
2-Methylnaphthalene	µg/L	NS	10 U	11 U	NS	10 U	10 U	11 U
Hexachlorocyclopentadiene	µg/L	NS	10 U	11 U	NS	10 U	10 U	11 U
2,4,6-Trichlorophenol	µg/L	NS	10 U	11 U	NS	10 U	10 U	11 U
2,4,5-Trichlorophenol	µg/L	NS	25 U	55 U	NS	25 U	25 U	55 U
2-Chloronaphthalene	µg/L	NS	10 U	11 U	NS	10 U	10 U	11 U
2-Nitroaniline	µg/L	NS	25 U	55 U	NS	25 U	25 U	55 U
Dimethylphthalate	µg/L	NS	10 U	11 U	NS	10 U	10 U	11 U
Acenaphthylene	µg/L	NS	10 U	11 U	NS	10 U	10 U	11 U
2,6-Dinitrotoluene	µg/L	NS	10 U	11 U	NS	10 U	10 U	11 U
3-Nitroaniline	µg/L	NS	25 U	55 U	NS	25 U	25 U	55 U
Acenaphthene	µg/L	NS	10 U	11 U	NS	10 U	10 U	11 U
2,4-Dinitrophenol	µg/L	NS	25 U	55 U	NS	25 U	25 U	55 U
4-Nitrophenol	µg/L	NS	25 U	55 U	NS	25 U	25 U	55 U
Dibenzofuran	µg/L	NS	10 U	11 U	NS	10 U	10 U	11 U
2,4-Dinitrotoluene	µg/L	NS	10 U	11 U	NS	10 U	10 U	11 U
Diethylphthalate	µg/L	NS	10 U	11 U	NS	10 U	10 U	11 U
4-Chlorophenyl-phenylether	µg/L	NS	10 U	11 U	NS	10 U	10 U	11 U
Fluorene	µg/L	NS	10 U	11 U	NS	10 U	10 U	11 U
4-Nitroaniline	µg/L	NS	25 U	55 U	NS	25 U	25 U	55 U
4,6-Dinitro-2-methylphenol	µg/L	NS	25 U	55 U	NS	25 U	25 U	55 U
N-Nitrosodiphenylamine (1)	µg/L	NS	10 U	11 U	NS	10 U	10 U	11 U
4-Bromophenyl-phenylether	µg/L	NS	10 U	11 U	NS	10 U	10 U	11 U
Hexachlorobenzene	µg/L	NS	10 U	11 U	NS	10 U	10 U	11 U
Pentachlorophenol	µg/L	NS	25 U	55 U	NS	25 U	25 U	55 U
Phenanthrene	µg/L	NS	10 U	11 U	NS	10 U	10 U	11 U
Anthracene	µg/L	NS	10 U	11 U	NS	10 U	10 U	11 U
Carbazole	µg/L	NS	10 U	NS	NS	10 U	10 U	NS
Di-n-butylphthalate	µg/L	NS	10 U	11 U	NS	10 U	10 U	11 U
Fluoranthene	µg/L	NS	10 U	11 U	NS	10 U	10 U	11 U
Pyrene	µg/L	NS	10 U	11 U	NS	10 U	10 U	11 U
Butylbenzylphthalate	µg/L	NS	10 U	11 U	NS	10 U	10 U	11 U
3,3'-Dichlorobenzidine	µg/L	NS	10 U	22 U	NS	10 U	10 U	22 U
Benzo(a)anthracene	µg/L	NS	10 U	11 U	NS	10 U	10 U	11 U
Chrysene	µg/L	NS	10 U	11 U	NS	10 U	10 U	11 U
bis(2-Ethylhexyl)phthalate	µg/L	NS	10 U	11 U	NS	46 U	10 U	11 U
Di-n-octylphthalate	µg/L	NS	10 U	11 U	NS	10 U	10 U	11 U
Benzo(b)fluoranthene	µg/L	NS	10 U	11 U	NS	10 U	10 U	11 U
Benzo(k)fluoranthene	µg/L	NS	10 U	11 U	NS	10 U	10 U	11 U
Benzo(a)pyrene	µg/L	NS	10 U	11 U	NS	10 U	10 U	11 U
Indeno(1,2,3-cd)pyrene	µg/L	NS	10 U	11 U	NS	10 U	10 U	11 U
Dibenz(a,h)anthracene	µg/L	NS	10 U	11 U	NS	10 U	10 U	11 U
Benzo(g,h,i)perylene	µg/L	NS	10 U	11 U	NS	10 U	10 U	11 U

SENECA ARMY DEPOT, ASH LANDFILL
GROUNDWATER ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

COMPOUND	MATRIX LOCATION DATE ES ID LAB ID UNITS	PHASE I WATER PT-23 01/14/92 PT-23Filtered 152511	PHASE II WATER PT23 06/24/93 PT23 187344	PHASE I WATER PT-24 01/14/92 PT-24 152507	PHASE I WATER PT-24 01/14/92 PT-24Filtered 152512	PHASE II WATER PT24 07/10/93 PT24 188729	PHASE II WATER PT24RE 07/10/93 PT24RE 188729	PHASE I WATER PT-25 01/15/92 PT-25 152575
PESTICIDES/PCBS								
alpha-BHC	µg/L	NS	0.056 U	0.057 U	NS	0.05 U	NS	0.054 U
beta-BHC	µg/L	NS	0.056 U	0.057 U	NS	0.05 U	NS	0.054 U
delta-BHC	µg/L	NS	0.056 U	0.057 U	NS	0.05 U	NS	0.054 U
gamma-BHC (Lindane)	µg/L	NS	0.056 U	0.057 U	NS	0.05 U	NS	0.054 U
Heptachlor	µg/L	NS	0.056 U	0.057 U	NS	0.05 U	NS	0.054 U
Aldrin	µg/L	NS	0.056 U	0.057 U	NS	0.05 U	NS	0.054 U
Heptachlor epoxide	µg/L	NS	0.056 U	0.057 U	NS	0.05 U	NS	0.054 U
Endosulfan I	µg/L	NS	0.056 U	0.057 U	NS	0.05 U	NS	0.054 U
Dieldrin	µg/L	NS	0.11 U	0.11 U	NS	0.1 U	NS	0.11 U
4,4'-DDE	µg/L	NS	0.11 U	0.11 U	NS	0.1 U	NS	0.11 U
Endrin	µg/L	NS	0.11 U	0.11 U	NS	0.1 U	NS	0.11 U
Endosulfan II	µg/L	NS	0.11 U	0.11 U	NS	0.1 U	NS	0.11 U
4,4'-DDD	µg/L	NS	0.11 U	0.11 U	NS	0.1 U	NS	0.11 U
Endosulfan sulfate	µg/L	NS	0.11 U	0.11 U	NS	0.1 U	NS	0.11 U
4,4'-DDT	µg/L	NS	0.11 U	0.11 U	NS	0.1 U	NS	0.11 U
Methoxychlor	µg/L	NS	0.56 U	0.57 U	NS	0.5 U	NS	0.54 U
Endrin ketone	µg/L	NS	0.11 U	0.11 U	NS	0.1 U	NS	0.11 U
Endrin aldehyde	µg/L	NS	0.11 U	NS	NS	0.1 U	NS	NS
alpha-Chlordane	µg/L	NS	0.056 U	0.57 U	NS	0.05 U	NS	0.54 U
gamma-Chlordane	µg/L	NS	0.056 U	0.57 U	NS	0.05 U	NS	0.54 U
Toxaphene	µg/L	NS	5.6 U	1.1 U	NS	5 U	NS	1.1 U
Aroclor-1016	µg/L	NS	1.1 U	0.57 U	NS	1 U	NS	0.54 U
Aroclor-1221	µg/L	NS	2.2 U	0.57 U	NS	2 U	NS	0.54 U
Aroclor-1232	µg/L	NS	1.1 U	0.57 U	NS	1 U	NS	0.54 U
Aroclor-1242	µg/L	NS	1.1 U	0.57 U	NS	1 U	NS	0.54 U
Aroclor-1248	µg/L	NS	1.1 U	0.57 U	NS	1 U	NS	0.54 U
Aroclor-1254	µg/L	NS	1.1 U	1.1 U	NS	1 U	NS	1.1 U
Aroclor-1260	µg/L	NS	1.1 U	1.1 U	NS	1 U	NS	1.1 U
HERBICIDES								
2,4-D	µg/L	NS	1 U	1 U	NS	1 U	NS	1 U
2,4-DB	µg/L	NS	1 U	1 U	NS	1 U	NS	1 U
2,4,5-T	µg/L	NS	0.1 U	0.1 U	NS	0.1 U	NS	0.1 U
2,4,5-TP (Silvex)	µg/L	NS	0.1 U	0.1 U	NS	0.1 U	NS	0.1 U
Dalapon	µg/L	NS	2.3 U	2.4 U	NS	2.3 U	NS	2.4 U
Dicamba	µg/L	NS	0.1 U	0.1 U	NS	0.1 U	NS	0.1 U
Dichloroprop	µg/L	NS	1 U	1 U	NS	1 U	NS	1 U
Dinoseb	µg/L	NS	0.5 U	0.5 U	NS	0.5 U	NS	0.5 U
MCPA	µg/L	NS	100 U	100 U	NS	100 U	NS	100 U
MCPP	µg/L	NS	100 U	100 U	NS	100 U	NS	100 U
METALS								
Aluminum	µg/L	24.4 U	209	18600	24.4 U	150 J	NS	24000
Antimony	µg/L	53 U	49.8 UJ	53.1 U	53 U	49.7 UJ	NS	52.9 U
Arsenic	µg/L	3.5 U	1.4 UJ	3.5 U	3.5 U	1.4 UJ	NS	3.5 U
Barium	µg/L	34 R	46.9 J	122 J	45.7 R	48.4 J	NS	135 J
Beryllium	µg/L	1.4 R	0.9 U	2.7 R	1.3 R	0.89 U	NS	3 R
Cadmium	µg/L	3 U	2.8 U	3 U	3 U	2.8 U	NS	3.2 J
Calcium	µg/L	85200	118000	135000	106000	117000	NS	75300
Chromium	µg/L	6.2 U	2.7 UJ	27.1	6.2 U	2.7 UJ	NS	32.2
Cobalt	µg/L	20.4 U	5.5 U	20.4 U	20.4 U	5.5 U	NS	20.3 U
Copper	µg/L	10.1 U	4.7 U	11.1 J	10.1 U	4.7 U	NS	22.5 J
Iron	µg/L	7 U	283	26000	7 U	181	NS	39000
Lead	µg/L	1.2 U	0.79 U	9	1.2 U	0.59 U	NS	5.6
Magnesium	µg/L	9510	13000	19100	12200	13200	NS	16800
Manganese	µg/L	4.8 U	39.2	423	4.8 U	36.4	NS	595
Mercury	µg/L	0.08 R	0.09 UJ	0.12 R	0.1 R	0.09 UJ	NS	0.11 R
Nickel	µg/L	14.7 U	7.5 UJ	28.1 J	14.7 U	7.5 UJ	NS	40.6
Potassium	µg/L	904 B	1440 J	4530 J	500 J	817 J	NS	4620 J
Selenium	µg/L	1 U	0.99 UJ	1.3 U	1.7 J	1.5 UJ	NS	1.3 U
Silver	µg/L	3.4 U	5.5 U	3.4 U	4.1 R	5.5 U	NS	3.4 U
Sodium	µg/L	4940 J	4820 J	14900	13600	15400	NS	15900
Thallium	µg/L	3.2 U	2.6 U	3.2 U	3.2 U	2.6 U	NS	3.2 U
Vanadium	µg/L	9.4 U	6.8 UJ	25.5 J	9.4 U	6.8 UJ	NS	31.4 J
Zinc	µg/L	14.7 J	11.6 R	92.9 R	8.4 U	6.7 R	NS	119
Cyanide	µg/L	NS	10 UJ	10 U	NS	3 UJ	NS	10 U

SENECA ARMY DEPOT, ASH LANDFILL
GROUNDWATER ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

	MATRIX	PHASE I	PHASE II	PHASE I	PHASE I	PHASE II	PHASE I	PHASE I
	LOCATION	WATER PT-25	WATER PT-25	WATER PT-26	WATER PT-26	WATER PT26	WATER MW-27	WATER MW-27
	DATE	01/15/92	06/30/93	01/17/92	01/17/92	07/03/93	01/15/92	01/15/92
	ES ID	PT-25Filtered	PT-25	PT-26	PT-26Filtered	PT26	MW-27	MW-27
	LAB ID	152594	187936	152708	152714	188252	152641	152570
COMPOUND	UNITS							
Chloromethane	µg/L	NS	NS	10 U	NS	NS	NS	10 U
Bromomethane	µg/L	NS	NS	10 U	NS	NS	NS	10 U
Vinyl Chloride	µg/L	NS	NS	10 U	NS	NS	NS	10 U
Chloroethane	µg/L	NS	NS	10 U	NS	NS	NS	10 U
Methylene Chloride	µg/L	NS	NS	5 U	NS	NS	NS	5 U
Acetone	µg/L	NS	NS	10 U	NS	NS	NS	10 U
Carbon Disulfide	µg/L	NS	NS	5 U	NS	NS	NS	5 U
1,1-Dichloroethene	µg/L	NS	NS	5 U	NS	NS	NS	5 U
1,1-Dichloroethane	µg/L	NS	NS	5 U	NS	NS	NS	5 U
1,2-Dichloroethene (total)	µg/L	NS	NS	5 U	NS	NS	NS	5 U
Chloroform	µg/L	NS	NS	5 U	NS	NS	NS	5 U
1,2-Dichloroethane	µg/L	NS	NS	5 U	NS	NS	NS	5 U
2-Butanone	µg/L	NS	NS	10 U	NS	NS	NS	10 U
1,1,1-Trichloroethane	µg/L	NS	NS	5 U	NS	NS	NS	5 U
Carbon Tetrachloride	µg/L	NS	NS	5 U	NS	NS	NS	5 U
Vinyl Acetate	µg/L	NS	NS	10 U	NS	NS	NS	10 U
Bromodichloromethane	µg/L	NS	NS	5 U	NS	NS	NS	5 U
1,2-Dichloropropane	µg/L	NS	NS	5 U	NS	NS	NS	5 U
cis-1,3-Dichloropropene	µg/L	NS	NS	5 U	NS	NS	NS	5 U
Trichloroethene	µg/L	NS	NS	5 U	NS	NS	NS	5 U
Dibromochloromethane	µg/L	NS	NS	5 U	NS	NS	NS	5 U
1,1,2-Trichloroethane	µg/L	NS	NS	5 U	NS	NS	NS	5 U
Benzene	µg/L	NS	NS	5 U	NS	NS	NS	5 U
trans-1,3-Dichloropropene	µg/L	NS	NS	5 U	NS	NS	NS	5 U
Bromoform	µg/L	NS	NS	5 U	NS	NS	NS	5 U
4-Methyl-2-Pentanone	µg/L	NS	NS	10 U	NS	NS	NS	10 U
2-Hexanone	µg/L	NS	NS	10 U	NS	NS	NS	10 U
Tetrachloroethene	µg/L	NS	NS	5 U	NS	NS	NS	5 U
1,1,2,2-Tetrachloroethane	µg/L	NS	NS	5 U	NS	NS	NS	5 U
Toluene	µg/L	NS	NS	5 U	NS	NS	NS	5 U
Chlorobenzene	µg/L	NS	NS	5 U	NS	NS	NS	5 U
Ethylbenzene	µg/L	NS	NS	5 U	NS	NS	NS	5 U
Styrene	µg/L	NS	NS	5 U	NS	NS	NS	5 U
Xylene (total)	µg/L	NS	NS	5 U	NS	NS	NS	5 U

SENECA ARMY DEPOT, ASH LANDFILL
GROUNDWATER ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

COMPOUND	MATRIX LOCATION DATE ES ID LAB ID UNITS	PHASE I WATER PT-25 01/15/92 PT-25Filtered 152594	PHASE II WATER PT-25 06/30/93 PT-25 187938	PHASE I WATER PT-26 01/17/92 PT-26 152708	PHASE I WATER PT-26 01/17/92 PT-26Filtered 152714	PHASE II WATER PT26 07/03/93 PT26 188262	PHASE I WATER MW-27 01/15/92 MW-27 152641	PHASE I WATER MW-27 01/15/92 MW-27 152570
VOC's (524.2)								
Dichlorodifluoromethane	µg/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
Chloromethane	µg/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
Vinyl Chloride	µg/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
Bromomethane	µg/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
Chloroethane	µg/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
Trichlorofluoromethane	µg/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
1,1-Dichloroethene	µg/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
Acetone	µg/L	NS	5 U	NS	NS	5 U	NS	NS
Carbon Disulfide	µg/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
Methylene Chloride	µg/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
trans-1,2-Dichloroethene	µg/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
1,1-Dichloroethane	µg/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
2,2-Dichloropropane	µg/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
cis-1,2-Dichloroethene	µg/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
2-Butanone	µg/L	NS	5 U	NS	NS	5 U	NS	NS
Bromochloromethane	µg/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
Chloroform	µg/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
1,1,1-Trichloroethane	µg/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
Carbon Tetrachloride	µg/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
1,1-Dichloropropene	µg/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
Benzene	µg/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
1,2-Dichloroethane	µg/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
Trichloroethene	µg/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
1,2-Dichloropropane	µg/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
Dibromomethane	µg/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
Bromodichloromethane	µg/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
cis-1,3-Dichloropropene	µg/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
4-Methyl-2-Pentanone	µg/L	NS	5 U	NS	NS	5 U	NS	NS
Toluene	µg/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
trans-1,3-Dichloropropene	µg/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
1,1,2-Trichloroethane	µg/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
Tetrachloroethene	µg/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
1,3-Dichloropropane	µg/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
2-Hexanone	µg/L	NS	5 U	NS	NS	5 U	NS	NS
Dibromochloromethane	µg/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
1,2-Dibromoethane	µg/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
Chlorobenzene	µg/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
1,1,1,2-Tetrachloroethane	µg/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
Ethylbenzene	µg/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
Styrene	µg/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
Bromoform	µg/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
Isopropylbenzene	µg/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
Bromobenzene	µg/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
1,1,2,2-Tetrachloroethane	µg/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
1,2,3-Trichloropropane	µg/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
n-Propylbenzene	µg/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
2-Chlorotoluene	µg/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
4-Chlorotoluene	µg/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
1,3,5-Trimethylbenzene	µg/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
tert-Butylbenzene	µg/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
1,2,4-Trimethylbenzene	µg/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
sec-Butylbenzene	µg/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
1,3-Dichlorobenzene	µg/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
1,4-Dichlorobenzene	µg/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
p-Isopropyltoluene	µg/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
1,2-Dichlorobenzene	µg/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
n-Butylbenzene	µg/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
1,2-Dibromo-3-Chloropropane	µg/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
1,2,4-Trichlorobenzene	µg/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
Hexachlorobutadiene	µg/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
Naphthalene	µg/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
1,2,3-Trichlorobenzene	µg/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
Xylene (total)	µg/L	NS	0.5 U	NS	NS	0.5 U	NS	NS

SENECA ARMY DEPOT, ASH LANDFILL
GROUNDWATER ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

	MATRIX	PHASE I WATER	PHASE II WATER	PHASE I WATER	PHASE I WATER	PHASE II WATER	PHASE I WATER	PHASE I WATER
	LOCATION	PT-25	PT-25	PT-26	PT-26	PT26	MW-27	MW-27
	DATE	01/15/92	06/30/93	01/17/92	01/17/92	07/03/93	01/15/92	01/15/92
	ES ID	PT-25Filtered	PT-25	PT-26	PT-26Filtered	PT26	MW-27	MW-27
	LAB ID	152594	167936	152708	152714	188262	152641	152570
COMPOUND	UNITS							
SEMIVOLATILES								
Phenol	µg/L	NS	10	11 U	NS	10 U	NS	12 U
bis(2-Chloroethyl) ether	µg/L	NS	10 U	11 U	NS	10 U	NS	12 U
2-Chlorophenol	µg/L	NS	10 U	11 U	NS	10 U	NS	12 U
1,3-Dichlorobenzene	µg/L	NS	10 U	11 U	NS	10 U	NS	12 U
1,4-Dichlorobenzene	µg/L	NS	10 U	11 U	NS	10 U	NS	12 U
Benzyl Alcohol	µg/L	NS	NS	11 U	NS	NS	NS	12 U
1,2-Dichlorobenzene	µg/L	NS	10 U	11 U	NS	10 U	NS	12 U
2-Methylphenol	µg/L	NS	10 U	11 U	NS	10 U	NS	12 U
bis(2-Chloroisopropyl) ether	µg/L	NS	10 U	11 U	NS	10 U	NS	12 U
4-Methylphenol	µg/L	NS	10 U	11 U	NS	10 U	NS	12 U
N-Nitroso-di-n-propylamine	µg/L	NS	10 U	11 U	NS	10 U	NS	12 U
Hexachloroethane	µg/L	NS	10 U	11 U	NS	10 U	NS	12 U
Nitrobenzene	µg/L	NS	10 U	11 U	NS	10 U	NS	12 U
Isophorone	µg/L	NS	10 U	11 U	NS	10 U	NS	12 U
2-Nitrophenol	µg/L	NS	10 U	11 U	NS	10 U	NS	12 U
2,4-Dimethylphenol	µg/L	NS	10 U	11 U	NS	10 U	NS	12 U
Benzoic acid	µg/L	NS	NS	55 U	NS	NS	NS	61 U
bis(2-Chloroethoxy) methane	µg/L	NS	10 U	11 U	NS	10 U	NS	12 U
2,4-Dichlorophenol	µg/L	NS	10 U	11 U	NS	10 U	NS	12 U
1,2,4-Trichlorobenzene	µg/L	NS	10 U	11 U	NS	10 U	NS	12 U
Naphthalene	µg/L	NS	10 U	11 U	NS	10 U	NS	12 U
4-Chloroaniline	µg/L	NS	10 U	11 U	NS	10 U	NS	12 U
Hexachlorobutadiene	µg/L	NS	10 U	11 U	NS	10 U	NS	12 U
4-Chloro-3-methylphenol	µg/L	NS	10 U	11 U	NS	10 U	NS	12 U
2-Methylnaphthalene	µg/L	NS	10 U	11 U	NS	10 U	NS	12 U
Hexachlorocyclopentadiene	µg/L	NS	10 U	11 U	NS	10 U	NS	12 U
2,4,6-Trichlorophenol	µg/L	NS	10 U	11 U	NS	10 U	NS	12 U
2,4,5-Trichlorophenol	µg/L	NS	25 U	55 U	NS	25 U	NS	61 U
2-Chloronaphthalene	µg/L	NS	10 U	11 U	NS	10 U	NS	12 U
2-Nitroaniline	µg/L	NS	25 U	55 U	NS	25 U	NS	61 U
Dimethylphthalate	µg/L	NS	10 U	11 U	NS	10 U	NS	12 U
Acenaphthylene	µg/L	NS	10 U	11 U	NS	10 U	NS	12 U
2,6-Dinitrotoluene	µg/L	NS	10 U	11 U	NS	10 U	NS	12 U
3-Nitroaniline	µg/L	NS	25 U	55 U	NS	25 U	NS	61 U
Acenaphthene	µg/L	NS	10 U	11 U	NS	10 U	NS	12 U
2,4-Dinitrophenol	µg/L	NS	25 U	55 U	NS	25 U	NS	61 U
4-Nitrophenol	µg/L	NS	25 U	55 U	NS	25 U	NS	61 U
Dibenzofuran	µg/L	NS	10 U	11 U	NS	10 U	NS	12 U
2,4-Dinitrotoluene	µg/L	NS	10 U	11 U	NS	10 U	NS	12 U
Diethylphthalate	µg/L	NS	10 U	11 U	NS	10 U	NS	12 U
4-Chlorophenyl-phenylether	µg/L	NS	10 U	11 U	NS	10 U	NS	12 U
Fluorene	µg/L	NS	10 U	11 U	NS	10 U	NS	12 U
4-Nitroaniline	µg/L	NS	25 U	55 U	NS	25 U	NS	61 U
4,6-Dinitro-2-methylphenol	µg/L	NS	25 U	55 U	NS	25 U	NS	61 U
N-Nitrosodiphenylamine (1)	µg/L	NS	10 U	11 U	NS	10 U	NS	12 U
4-Bromophenyl-phenylether	µg/L	NS	10 U	11 U	NS	10 U	NS	12 U
Hexachlorobenzene	µg/L	NS	10 U	11 U	NS	10 U	NS	12 U
Pentachlorophenol	µg/L	NS	25 U	55 U	NS	25 U	NS	61 U
Phenanthrene	µg/L	NS	10 U	11 U	NS	10 U	NS	12 U
Anthracene	µg/L	NS	10 U	11 U	NS	10 U	NS	12 U
Carbazole	µg/L	NS	10 U	NS	NS	10 U	NS	NS
Di-n-butylphthalate	µg/L	NS	10 U	11 U	NS	10 U	NS	12 U
Fluoranthene	µg/L	NS	10 U	11 U	NS	10 U	NS	12 U
Pyrene	µg/L	NS	10 U	11 U	NS	10 U	NS	12 U
Butylbenzylphthalate	µg/L	NS	10 U	11 U	NS	10 U	NS	12 U
3,3'-Dichlorobenzidine	µg/L	NS	10 U	22 U	NS	10 U	NS	25 U
Benzo(a)anthracene	µg/L	NS	10 U	11 U	NS	10 U	NS	12 U
Chrysene	µg/L	NS	10 U	11 U	NS	10 U	NS	12 U
bis(2-Ethylhexyl)phthalate	µg/L	NS	10 U	11 U	NS	10 U	NS	12 U
Di-n-octylphthalate	µg/L	NS	10 U	11 U	NS	10 U	NS	12 U
Benzo(b)fluoranthene	µg/L	NS	10 U	11 U	NS	10 U	NS	12 U
Benzo(k)fluoranthene	µg/L	NS	10 U	11 U	NS	10 U	NS	12 U
Benzo(a)pyrene	µg/L	NS	10 U	11 U	NS	10 U	NS	12 U
Indeno(1,2,3-cd)pyrene	µg/L	NS	10 U	11 U	NS	10 U	NS	12 U
Dibenz(a,h)anthracene	µg/L	NS	10 U	11 U	NS	10 U	NS	12 U
Benzo(g,h,i)perylene	µg/L	NS	10 U	11 U	NS	10 U	NS	12 U

SENECA ARMY DEPOT, ASH LANDFILL
GROUNDWATER ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

COMPOUND	MATRIX	PHASE I	PHASE II	PHASE I	PHASE I	PHASE II	PHASE I	PHASE I
	LOCATION	WATER	WATER	WATER	WATER	WATER	WATER	WATER
	DATE	PT-25	PT-25	PT-26	PT-26	PT26	MW-27	MW-27
	ES ID	01/15/92	06/30/93	01/17/92	01/17/92	07/03/93	01/15/92	01/15/92
	LAB ID	PT-25Filtered	PT-25	PT-26	PT-26Filtered	PT26	MW-27	MW-27
	UNITS	152594	167936	152708	152714	168262	152641	152570
PESTICIDES/PCBS								
alpha-BHC	µg/L	NS	0.05 U	0.059 U	NS	0.05 U	NS	0.055 U
beta-BHC	µg/L	NS	0.05 U	0.059 U	NS	0.05 U	NS	0.055 U
delta-BHC	µg/L	NS	0.05 U	0.059 U	NS	0.05 U	NS	0.055 U
gamma-BHC (Lindane)	µg/L	NS	0.05 U	0.059 U	NS	0.05 U	NS	0.055 U
Heptachlor	µg/L	NS	0.05 U	0.059 U	NS	0.05 U	NS	0.055 U
Aldrin	µg/L	NS	0.05 U	0.059 U	NS	0.05 U	NS	0.055 U
Heptachlor epoxide	µg/L	NS	0.05 U	0.059 U	NS	0.05 U	NS	0.055 U
Endosulfan I	µg/L	NS	0.05 U	0.059 U	NS	0.05 U	NS	0.055 U
Dieldrin	µg/L	NS	0.1 U	0.12 U	NS	0.1 U	NS	0.11 U
4,4'-DDE	µg/L	NS	0.1 U	0.12 U	NS	0.1 U	NS	0.11 U
Endrin	µg/L	NS	0.1 U	0.12 U	NS	0.1 U	NS	0.11 U
Endosulfan II	µg/L	NS	0.1 U	0.12 U	NS	0.1 U	NS	0.11 U
4,4'-DDD	µg/L	NS	0.1 U	0.12 U	NS	0.1 U	NS	0.11 U
Endosulfan sulfate	µg/L	NS	0.1 U	0.12 U	NS	0.1 U	NS	0.11 U
4,4'-DDT	µg/L	NS	0.1 U	0.12 U	NS	0.1 U	NS	0.11 U
Methoxychlor	µg/L	NS	0.5 U	0.59 U	NS	0.5 U	NS	0.55 U
Endrin ketone	µg/L	NS	0.1 U	0.12 U	NS	0.1 U	NS	0.11 U
Endrin aldehyde	µg/L	NS	0.1 U	NS	NS	0.1 U	NS	NS
alpha-Chlordane	µg/L	NS	0.05 U	0.59 U	NS	0.05 U	NS	0.55 U
gamma-Chlordane	µg/L	NS	0.05 U	0.59 U	NS	0.05 U	NS	0.55 U
Toxaphene	µg/L	NS	5 U	1.2 U	NS	5 U	NS	1.1 U
Aroclor-1016	µg/L	NS	1 U	0.59 U	NS	1 U	NS	0.55 U
Aroclor-1221	µg/L	NS	2 U	0.59 U	NS	2 U	NS	0.55 U
Aroclor-1232	µg/L	NS	1 U	0.59 U	NS	1 U	NS	0.55 U
Aroclor-1242	µg/L	NS	1 U	0.59 U	NS	1 U	NS	0.55 U
Aroclor-1248	µg/L	NS	1 U	0.59 U	NS	1 U	NS	0.55 U
Aroclor-1254	µg/L	NS	1 U	1.2 U	NS	1 U	NS	1.1 U
Aroclor-1260	µg/L	NS	1 U	1.2 U	NS	1 U	NS	1.1 U
HERBICIDES								
2,4-D	µg/L	NS	1 U	1.1 U	NS	1 U	NS	1 U
2,4-DB	µg/L	NS	1 U	1.1 U	NS	1 U	NS	1 U
2,4,5-T	µg/L	NS	0.1 U	0.1 U	NS	0.1 U	NS	0.1 U
2,4,5-TP (Silvex)	µg/L	NS	0.1 U	0.1 U	NS	0.1 U	NS	0.1 U
Dalapon	µg/L	NS	2.3 U	2.4 U	NS	2.3 U	NS	2.4 U
Dicamba	µg/L	NS	0.1 U	0.1 U	NS	0.1 U	NS	0.1 U
Dichloroprop	µg/L	NS	1 U	1.1 U	NS	1 U	NS	1 U
Dinoseb	µg/L	NS	0.5 U	0.5 U	NS	0.5 U	NS	0.5 U
MCPA	µg/L	NS	100 U	110 U	NS	100 U	NS	100 U
MCPP	µg/L	NS	100 U	110 U	NS	100 U	NS	100 U
METALS								
Aluminum	µg/L	24.5 U	318	306000	24.5 U	43800	8590	NS
Antimony	µg/L	53.3 U	49.7 UJ	83.8 R	53.1 U	56.9 J	53.4 U	NS
Arsenic	µg/L	3.5 U	1.4 UJ	3.5 U	3.5 U	2.4 J	3.5 U	NS
Barium	µg/L	50.9 R	40.9 J	1600	97.8 R	376	90.8 J	NS
Beryllium	µg/L	1.1 U	0.89 U	12.2 R	1.1 U	2.5 J	2.4 R	NS
Cadmium	µg/L	3 U	2.8 U	64.6 J	3 U	2.8 U	3 U	NS
Calcium	µg/L	72100	101000	1790000	93700	395000	102000	NS
Chromium	µg/L	8.2 U	2.7 UJ	416	8.2 U	69.7 J	10.4	NS
Cobalt	µg/L	20.4 U	5.5 U	196	20.4 U	33.4 J	20.5 U	NS
Copper	µg/L	10.2 U	4.7 U	412	10.1 U	62.2	10.2 U	NS
Iron	µg/L	7 U	360	610000	7 U	78400	10500	NS
Lead	µg/L	1.2 U	0.8 U	103	1.2 U	17.3	3.2	NS
Magnesium	µg/L	8220	10700	257000 J	37600	74900	13600	NS
Manganese	µg/L	4.8 U	25	11400	4.8 U	1760	355	NS
Mercury	µg/L	0.03 U	0.09 UJ	0.05 R	0.03 U	0.09 UJ	0.11 R	NS
Nickel	µg/L	14.8 U	7.5 UJ	622	14.7 U	106 J	14.8 U	NS
Potassium	µg/L	289 U	1210 J	23200	1080 J	8540	4160 J	NS
Selenium	µg/L	1 U	1 UJ	5 U J	1.4 J	1.5 UJ	1.3 U	NS
Silver	µg/L	3.4 U	5.5 U	5.8 R	3.4 U	5.5 U	3.4 U	NS
Sodium	µg/L	15000	21600	40600	36800	31600	26300	NS
Thallium	µg/L	3.2 U	2.6 U	32 U	3.2 U	2.6 U	3.2 U	NS
Vanadium	µg/L	9.5 U	6.8 UJ	358	9.4 U	64.7 J	10 J	NS
Zinc	µg/L	19 R	8 J	1750 J	18 R	277	35.9 R	NS
Cyanide	µg/L	NS	10 UJ	10 U J	NS	10 UJ	10 U	NS

SENECA ARMY DEPOT, ASH LANDFILL
GROUNDWATER ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

	MATRIX	PHASE I WATER	PHASE II WATER	PHASE I WATER	PHASE I WATER	PHASE I WATER	PHASE I WATER	PHASE I WATER
	LOCATION	MW-27	MW27	MW-26	MW-26	MW-26	MW-26	MW-26
	DATE	01/15/92	07/01/93	01/15/92	01/15/92	01/15/92	01/15/92	01/15/92
	ES ID	MW-27Filtered	MW27	MW-26	MW-26RE(4)	MW-26Filtered	PT-2(1)	PT-2(1)Filtered
	LAB ID	152666	186122	152571	152571	152590	152573	152592
COMPOUND	UNITS							
Chloromethane	µg/L	NS	NS	10 U	NS	NS	10 U	NS
Bromomethane	µg/L	NS	NS	10 U	NS	NS	10 U	NS
Vinyl Chloride	µg/L	NS	NS	10 U	NS	NS	10 U	NS
Chloroethane	µg/L	NS	NS	10 U	NS	NS	10 U	NS
Methylene Chloride	µg/L	NS	NS	5 U	NS	NS	5 U	NS
Acetone	µg/L	NS	NS	10 U	NS	NS	10 U	NS
Carbon Disulfide	µg/L	NS	NS	5 U	NS	NS	5 U	NS
1,1-Dichloroethene	µg/L	NS	NS	5 U	NS	NS	5 U	NS
1,1-Dichloroethane	µg/L	NS	NS	5 U	NS	NS	5 U	NS
1,2-Dichloroethene (total)	µg/L	NS	NS	60	NS	NS	62	NS
Chloroform	µg/L	NS	NS	5 U	NS	NS	5 U	NS
1,2-Dichloroethane	µg/L	NS	NS	5 U	NS	NS	5 U	NS
2-Butanone	µg/L	NS	NS	10 U	NS	NS	10 U	NS
1,1,1-Trichloroethane	µg/L	NS	NS	5 U	NS	NS	5 U	NS
Carbon Tetrachloride	µg/L	NS	NS	5 U	NS	NS	5 U	NS
Vinyl Acetate	µg/L	NS	NS	10 U	NS	NS	10 U	NS
Bromodichloromethane	µg/L	NS	NS	5 U	NS	NS	5 U	NS
1,2-Dichloropropane	µg/L	NS	NS	5 U	NS	NS	5 U	NS
cis-1,3-Dichloropropene	µg/L	NS	NS	5 U	NS	NS	5 U	NS
Trichloroethene	µg/L	NS	NS	32	NS	NS	33	NS
Dibromochloromethane	µg/L	NS	NS	5 U	NS	NS	5 U	NS
1,1,2-Trichloroethane	µg/L	NS	NS	5 U	NS	NS	5 U	NS
Benzene	µg/L	NS	NS	5 U	NS	NS	5 U	NS
trans-1,3-Dichloropropene	µg/L	NS	NS	5 U	NS	NS	5 U	NS
Bromoform	µg/L	NS	NS	5 U	NS	NS	5 U	NS
4-Methyl-2-Pentanone	µg/L	NS	NS	10 U	NS	NS	10 U	NS
2-Hexanone	µg/L	NS	NS	10 U	NS	NS	10 U	NS
Tetrachloroethene	µg/L	NS	NS	5 U	NS	NS	5 U	NS
1,1,2,2-Tetrachloroethane	µg/L	NS	NS	5 U	NS	NS	5 U	NS
Toluene	µg/L	NS	NS	5 U	NS	NS	5 U	NS
Chlorobenzene	µg/L	NS	NS	5 U	NS	NS	5 U	NS
Ethylbenzene	µg/L	NS	NS	5 U	NS	NS	5 U	NS
Styrene	µg/L	NS	NS	5 U	NS	NS	5 U	NS
Xylene (total)	µg/L	NS	NS	5 U	NS	NS	5 U	NS

SENECA ARMY DEPOT, ASH LANDFILL
GROUNDWATER ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

COMPOUND	MATRIX	LOCATION	DATE	ES ID	LAB ID	UNITS							
		PHASE I	PHASE II	PHASE I	PHASE I	PHASE I	PHASE I	PHASE I	PHASE I
		WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
		MW-27	MW27	MW-28	MW-28	MW-28	MW-28	MW-28	MW-28
		01/15/92	07/01/93	01/15/92	01/15/92	01/15/92	01/15/92	01/15/92	01/15/92
		MW-27Filtered	MW27	MW-28	MW-28RE(4)	MW-28Filtered	PT-2(1)	PT-2(1)Filtered	
		152666	166122	152571	152571	152590	152573	152592	
VOC's (524.2)									
Dichlorodifluoromethane	µg/L	NS	0.5 U	NS	NS	NS	NS	NS	
Chloromethane	µg/L	NS	0.5 U	NS	NS	NS	NS	NS	
Vinyl Chloride	µg/L	NS	0.5 U	NS	NS	NS	NS	NS	
Bromomethane	µg/L	NS	0.5 U	NS	NS	NS	NS	NS	
Chloroethane	µg/L	NS	0.5 U	NS	NS	NS	NS	NS	
Trichlorofluoromethane	µg/L	NS	0.5 U	NS	NS	NS	NS	NS	
1,1-Dichloroethene	µg/L	NS	0.5 U	NS	NS	NS	NS	NS	
Acetone	µg/L	NS	5 U	NS	NS	NS	NS	NS	
Carbon Disulfide	µg/L	NS	0.5 U	NS	NS	NS	NS	NS	
Methylene Chloride	µg/L	NS	0.5 U	NS	NS	NS	NS	NS	
trans-1,2-Dichloroethene	µg/L	NS	0.5 U	NS	NS	NS	NS	NS	
1,1-Dichloroethane	µg/L	NS	0.5 U	NS	NS	NS	NS	NS	
2,2-Dichloropropane	µg/L	NS	0.5 U	NS	NS	NS	NS	NS	
cis-1,2-Dichloroethene	µg/L	NS	0.5 U	NS	NS	NS	NS	NS	
2-Butanone	µg/L	NS	5 U	NS	NS	NS	NS	NS	
Bromochloromethane	µg/L	NS	0.5 U	NS	NS	NS	NS	NS	
Chloroform	µg/L	NS	0.5 U	NS	NS	NS	NS	NS	
1,1,1-Trichloroethane	µg/L	NS	0.5 U	NS	NS	NS	NS	NS	
Carbon Tetrachloride	µg/L	NS	0.5 U	NS	NS	NS	NS	NS	
1,1-Dichloropropene	µg/L	NS	0.5 U	NS	NS	NS	NS	NS	
Benzene	µg/L	NS	0.5 U	NS	NS	NS	NS	NS	
1,2-Dichloroethane	µg/L	NS	0.5 U	NS	NS	NS	NS	NS	
Trichloroethene	µg/L	NS	0.5 U	NS	NS	NS	NS	NS	
1,2-Dichloropropane	µg/L	NS	0.5 U	NS	NS	NS	NS	NS	
Dibromomethane	µg/L	NS	0.5 U	NS	NS	NS	NS	NS	
Bromodichloromethane	µg/L	NS	0.5 U	NS	NS	NS	NS	NS	
cis-1,3-Dichloropropene	µg/L	NS	0.5 U	NS	NS	NS	NS	NS	
4-Methyl-2-Pentanone	µg/L	NS	5 U	NS	NS	NS	NS	NS	
Toluene	µg/L	NS	0.5 U	NS	NS	NS	NS	NS	
trans-1,3-Dichloropropene	µg/L	NS	0.5 U	NS	NS	NS	NS	NS	
1,1,2-Trichloroethane	µg/L	NS	0.5 U	NS	NS	NS	NS	NS	
Tetrachloroethene	µg/L	NS	0.5 U	NS	NS	NS	NS	NS	
1,3-Dichloropropane	µg/L	NS	0.5 U	NS	NS	NS	NS	NS	
2-Hexanone	µg/L	NS	5 U	NS	NS	NS	NS	NS	
Dibromochloromethane	µg/L	NS	0.5 U	NS	NS	NS	NS	NS	
1,2-Dibromoethane	µg/L	NS	0.5 U	NS	NS	NS	NS	NS	
Chlorobenzene	µg/L	NS	0.5 U	NS	NS	NS	NS	NS	
1,1,1,2-Tetrachloroethane	µg/L	NS	0.5 U	NS	NS	NS	NS	NS	
Ethylbenzene	µg/L	NS	0.5 U	NS	NS	NS	NS	NS	
Styrene	µg/L	NS	0.5 U	NS	NS	NS	NS	NS	
Bromoform	µg/L	NS	0.5 U	NS	NS	NS	NS	NS	
Isopropylbenzene	µg/L	NS	0.5 U	NS	NS	NS	NS	NS	
Bromobenzene	µg/L	NS	0.5 U	NS	NS	NS	NS	NS	
1,1,2,2-Tetrachloroethane	µg/L	NS	0.5 U	NS	NS	NS	NS	NS	
1,2,3-Trichloropropane	µg/L	NS	0.5 U	NS	NS	NS	NS	NS	
n-Propylbenzene	µg/L	NS	0.5 U	NS	NS	NS	NS	NS	
2-Chlorotoluene	µg/L	NS	0.5 U	NS	NS	NS	NS	NS	
4-Chlorotoluene	µg/L	NS	0.5 U	NS	NS	NS	NS	NS	
1,3,5-Trimethylbenzene	µg/L	NS	0.5 U	NS	NS	NS	NS	NS	
tert-Butylbenzene	µg/L	NS	0.5 U	NS	NS	NS	NS	NS	
1,2,4-Trimethylbenzene	µg/L	NS	0.5 U	NS	NS	NS	NS	NS	
sec-Butylbenzene	µg/L	NS	0.5 U	NS	NS	NS	NS	NS	
1,3-Dichlorobenzene	µg/L	NS	0.5 U	NS	NS	NS	NS	NS	
1,4-Dichlorobenzene	µg/L	NS	0.5 U	NS	NS	NS	NS	NS	
p-Isopropyltoluene	µg/L	NS	0.5 U	NS	NS	NS	NS	NS	
1,2-Dichlorobenzene	µg/L	NS	0.5 U	NS	NS	NS	NS	NS	
n-Butylbenzene	µg/L	NS	0.5 U	NS	NS	NS	NS	NS	
1,2-Dibromo-3-Chloropropane	µg/L	NS	0.5 U	NS	NS	NS	NS	NS	
1,2,4-Trichlorobenzene	µg/L	NS	0.5 U	NS	NS	NS	NS	NS	
Hexachlorobutadiene	µg/L	NS	0.5 U	NS	NS	NS	NS	NS	
Naphthalene	µg/L	NS	0.5 U	NS	NS	NS	NS	NS	
1,2,3-Trichlorobenzene	µg/L	NS	0.5 U	NS	NS	NS	NS	NS	
Xylene (total)	µg/L	NS	0.5 U	NS	NS	NS	NS	NS	

SENECA ARMY DEPOT, ASH LANDFILL
GROUNDWATER ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

	MATRIX	PHASE I WATER	PHASE II WATER	PHASE I WATER	PHASE I WATER	PHASE I WATER	PHASE I WATER	PHASE I WATER
	LOCATION	MW-27	MW27	MW-28	MW-28	MW-28	MW-28	MW-28
	DATE	01/15/92	07/01/93	01/15/92	01/15/92	01/15/92	01/15/92	01/15/92
	ES ID	MW-27Filtered	MW27	MW-28	MW-28RE(4)	MW-28Filtered	PT-2(1)	PT-2(1)Filtered
	LAB ID	152666	188122	152571	152571	152590	152573	152592
COMPOUND	UNITS							
SEMIVOLATILES								
Phenol	µg/L	NS	11 U	11 U	NS	NS	11 U	NS
bis(2-Chloroethyl) ether	µg/L	NS	11 U	11 U	NS	NS	11 U	NS
2-Chlorophenol	µg/L	NS	11 U	11 U	NS	NS	11 U	NS
1,3-Dichlorobenzene	µg/L	NS	11 U	11 U	NS	NS	11 U	NS
1,4-Dichlorobenzene	µg/L	NS	11 U	11 U	NS	NS	11 U	NS
Benzyl Alcohol	µg/L	NS	NS	11 U	NS	NS	11 U	NS
1,2-Dichlorobenzene	µg/L	NS	11 U	11 U	NS	NS	11 U	NS
2-Methylphenol	µg/L	NS	11 U	11 U	NS	NS	11 U	NS
bis(2-Chloroisopropyl) ether	µg/L	NS	11 U	11 U	NS	NS	11 U	NS
4-Methylphenol	µg/L	NS	11 U	11 U	NS	NS	11 U	NS
N-Nitroso-di-n-propylamine	µg/L	NS	11 U	11 U	NS	NS	11 U	NS
Hexachloroethane	µg/L	NS	11 U	11 U	NS	NS	11 U	NS
Nitrobenzene	µg/L	NS	11 U	11 U	NS	NS	11 U	NS
Isophorone	µg/L	NS	11 U	11 U	NS	NS	11 U	NS
2-Nitrophenol	µg/L	NS	11 U	11 U	NS	NS	11 U	NS
2,4-Dimethylphenol	µg/L	NS	11 U	11 U	NS	NS	11 U	NS
Benzoic acid	µg/L	NS	NS	54 U	NS	NS	55 U	NS
bis(2-Chloroethoxy) methane	µg/L	NS	11 U	11 U	NS	NS	11 U	NS
2,4-Dichlorophenol	µg/L	NS	11 U	11 U	NS	NS	11 U	NS
1,2,4-Trichlorobenzene	µg/L	NS	11 U	11 U	NS	NS	11 U	NS
Naphthalene	µg/L	NS	11 U	11 U	NS	NS	11 U	NS
4-Chloroaniline	µg/L	NS	11 U	11 U	NS	NS	11 U	NS
Hexachlorobutadiene	µg/L	NS	11 U	11 U	NS	NS	11 U	NS
4-Chloro-3-methylphenol	µg/L	NS	11 U	11 U	NS	NS	11 U	NS
2-Methylnaphthalene	µg/L	NS	11 U	11 U	NS	NS	11 U	NS
Hexachlorocyclopentadiene	µg/L	NS	11 U	11 U	NS	NS	11 U	NS
2,4,6-Trichlorophenol	µg/L	NS	11 U	11 U	NS	NS	11 U	NS
2,4,5-Trichlorophenol	µg/L	NS	27 U	54 U	NS	NS	55 U	NS
2-Chloronaphthalene	µg/L	NS	11 U	11 U	NS	NS	11 U	NS
2-Nitroaniline	µg/L	NS	27 U	54 U	NS	NS	55 U	NS
Dimethylphthalate	µg/L	NS	11 U	11 U	NS	NS	11 U	NS
Acenaphthylene	µg/L	NS	11 U	11 U	NS	NS	11 U	NS
2,6-Dinitrotoluene	µg/L	NS	11 U	11 U	NS	NS	11 U	NS
3-Nitroaniline	µg/L	NS	27 U	54 U	NS	NS	55 U	NS
Acenaphthene	µg/L	NS	11 U	11 U	NS	NS	11 U	NS
2,4-Dinitrophenol	µg/L	NS	27 U	54 U	NS	NS	55 U	NS
4-Nitrophenol	µg/L	NS	27 U	54 U	NS	NS	55 U	NS
Dibenzofuran	µg/L	NS	11 U	11 U	NS	NS	11 U	NS
2,4-Dinitrotoluene	µg/L	NS	11 U	11 U	NS	NS	11 U	NS
Diethylphthalate	µg/L	NS	11 U	11 U	NS	NS	11 U	NS
4-Chlorophenyl-phenylether	µg/L	NS	11 U	11 U	NS	NS	11 U	NS
Fluorene	µg/L	NS	11 U	11 U	NS	NS	11 U	NS
4-Nitroaniline	µg/L	NS	27 U	54 U	NS	NS	55 U	NS
4,6-Dinitro-2-methylphenol	µg/L	NS	27 U	54 U	NS	NS	55 U	NS
N-Nitrosodiphenylamine (1)	µg/L	NS	11 U	11 U	NS	NS	11 U	NS
4-Bromophenyl-phenylether	µg/L	NS	11 U	11 U	NS	NS	11 U	NS
Hexachlorobenzene	µg/L	NS	11 U	11 U	NS	NS	11 U	NS
Pentachlorophenol	µg/L	NS	27 U	54 U	NS	NS	55 U	NS
Phenanthrene	µg/L	NS	11 U	11 U	NS	NS	11 U	NS
Anthracene	µg/L	NS	11 U	11 U	NS	NS	11 U	NS
Carbazole	µg/L	NS	11 U	NS	NS	NS	NS	NS
Di-n-butylphthalate	µg/L	NS	11 U	11 U	NS	NS	11 U	NS
Fluoranthene	µg/L	NS	11 U	11 U	NS	NS	11 U	NS
Pyrene	µg/L	NS	11 U	11 U	NS	NS	11 U	NS
Butylbenzylphthalate	µg/L	NS	11 U	11 U	NS	NS	11 U	NS
3,3'-Dichlorobenzidine	µg/L	NS	11 U	22 U	NS	NS	22 U	NS
Benzo(a)anthracene	µg/L	NS	11 U	11 U	NS	NS	11 U	NS
Chrysene	µg/L	NS	27 U	11 U	NS	NS	11 U	NS
bis(2-Ethylhexyl)phthalate	µg/L	NS	11 U	11 U	NS	NS	11 U	NS
Di-n-octylphthalate	µg/L	NS	11 U	11 U	NS	NS	11 U	NS
Benzo(b)fluoranthene	µg/L	NS	11 U	11 U	NS	NS	11 U	NS
Benzo(k)fluoranthene	µg/L	NS	11 U	11 U	NS	NS	11 U	NS
Benzo(a)pyrene	µg/L	NS	11 U	11 U	NS	NS	11 U	NS
Indeno(1,2,3-cd)pyrene	µg/L	NS	11 U	11 U	NS	NS	11 U	NS
Dibenz(a,h)anthracene	µg/L	NS	11 U	11 U	NS	NS	11 U	NS
Benzo(g,h,i)perylene	µg/L	NS	11 U	11 U	NS	NS	11 U	NS

SENECA ARMY DEPOT, ASH LANDFILL
GROUNDWATER ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

COMPOUND	MATRIX / LOCATION / DATE / ES ID / LAB ID	UNITS	PHASE I WATER MW-27 01/15/92 MW-27Filtered 152666	PHASE II WATER MW27 07/01/93 MW27 168122	PHASE I WATER MW-28 01/15/92 MW-28 152571	PHASE I WATER MW-28 01/15/92 MW-28RE(4) 152571	PHASE I WATER MW-28 01/15/92 MW-28Filtered 152590	PHASE I WATER MW-28 01/15/92 PT-2(1) 152573	PHASE I WATER MW-28 01/15/92 PT-2(1)Filtered 152592
PESTICIDES/PCBS									
alpha-BHC		µg/L	NS	0.05 U	0.055 U	0.051 U	NS	0.054 U	NS
beta-BHC		µg/L	NS	0.05 U	0.055 U	0.051 U	NS	0.054 U	NS
delta-BHC		µg/L	NS	0.05 U	0.055 U	0.051 U	NS	0.054 U	NS
gamma-BHC (Lindane)		µg/L	NS	0.05 U	0.055 U	0.051 U	NS	0.054 U	NS
Heptachlor		µg/L	NS	0.05 U	0.055 U	0.051 U	NS	0.054 U	NS
Aldrin		µg/L	NS	0.05 U	0.055 U	0.051 U	NS	0.054 U	NS
Heptachlor epoxide		µg/L	NS	0.05 U	0.055 U	0.051 U	NS	0.054 U	NS
Endosulfan I		µg/L	NS	0.05 U	0.055 U	0.051 U	NS	0.054 U	NS
Dieldrin		µg/L	NS	0.1 U	0.11 U	0.1 U	NS	0.11 U	NS
4,4'-DDE		µg/L	NS	0.1 U	0.11 U	0.1 U	NS	0.11 U	NS
Endrin		µg/L	NS	0.1 U	0.11 U	0.1 U	NS	0.11 U	NS
Endosulfan II		µg/L	NS	0.1 U	0.11 U	0.1 U	NS	0.11 U	NS
4,4'-DDD		µg/L	NS	0.1 U	0.11 U	0.1 U	NS	0.11 U	NS
Endosulfan sulfate		µg/L	NS	0.1 U	0.11 U	0.1 U	NS	0.11 U	NS
4,4'-DDT		µg/L	NS	0.1 U	0.11 U	0.1 U	NS	0.11 U	NS
Methoxychlor		µg/L	NS	0.5 U	0.55 U	0.51 U	NS	0.54 U	NS
Endrin ketone		µg/L	NS	0.1 U	0.11 U	0.1 U	NS	0.11 U	NS
Endrin aldehyde		µg/L	NS	0.1 U	NS	NS	NS	NS	NS
alpha-Chlordane		µg/L	NS	0.05 U	0.58 U	0.51 U	NS	0.54 U	NS
gamma-Chlordane		µg/L	NS	0.05 U	0.55 U	0.51 U	NS	0.54 U	NS
Toxaphene		µg/L	NS	5 U	1.1 U	1 U	NS	1.1 U	NS
Aroclor-1016		µg/L	NS	1 U	0.58 U	0.51 U	NS	0.54 U	NS
Aroclor-1221		µg/L	NS	2 U	0.55 U	0.51 U	NS	0.54 U	NS
Aroclor-1232		µg/L	NS	1 U	0.55 U	0.51 U	NS	0.54 U	NS
Aroclor-1242		µg/L	NS	1 U	0.55 U	0.51 U	NS	0.54 U	NS
Aroclor-1248		µg/L	NS	1 U	0.55 U	0.51 U	NS	0.54 U	NS
Aroclor-1254		µg/L	NS	1 U	1.1 U	1 U	NS	1.1 U	NS
Aroclor-1260		µg/L	NS	1 U	3.6 R	1 U	NS	1.1 U	NS
HERBICIDES									
2,4-D		µg/L	NS	1 U	1 U	NS	NS	1.1 U	NS
2,4-DB		µg/L	NS	1 U	1 U	NS	NS	1.1 U	NS
2,4,5-T		µg/L	NS	0.1 U	0.1 U	NS	NS	0.1 U	NS
2,4,5-TP (Silvex)		µg/L	NS	0.1 U	0.1 U	NS	NS	0.1 U	NS
Dalapon		µg/L	NS	2.3 U	2.3 U	NS	NS	2.5 U	NS
Dicamba		µg/L	NS	0.1 U	0.1 U	NS	NS	0.1 U	NS
Dichloroprop		µg/L	NS	1 U	1 U	NS	NS	1.1 U	NS
Dinoseb		µg/L	NS	0.5 U	0.5 U	NS	NS	0.5 U	NS
MCPA		µg/L	NS	100 U	100 U	NS	NS	110 U	NS
MCPP		µg/L	NS	100 U	100 U	NS	NS	110 U	NS
METALS									
Aluminum		µg/L	24.4 U	3870	41100 J	NS	24.5 U	27000 J	24.5 U
Antimony		µg/L	52.9 U	49.6 UJ	54.3 R	NS	53.3 U	53 U	53.3 U
Arsenic		µg/L	3.5 U	1.4 UJ	4.4 J	NS	3.5 U	3.5 U	3.5 U
Barium		µg/L	59.9 R	105 J	200	NS	41.1 R	154 J	39.4 R
Beryllium		µg/L	1.1 U	0.89 U	3.7 R	NS	1.4 R	3.2 R	1.4 R
Cadmium		µg/L	3 U	2.8 U	6.1	NS	3 U	5.2	3 U
Calcium		µg/L	85300	137000	170000 J	NS	111000	152000 J	111000
Chromium		µg/L	6.1 U	6.9 J	53.1 J	NS	6.2 U	34.6 J	6.2 U
Cobalt		µg/L	20.3 U	8.5 U	20.8 U	NS	20.5 U	20.3 U	20.5 U
Copper		µg/L	10.1 U	4.7 U	33.9	NS	10.2 U	27.6	10.2 U
Iron		µg/L	6.9 U	6530	60300 J	NS	7 U	46500 J	7 U
Lead		µg/L	1.2 U	0.85 J	10.7	NS	1.2 U	8.9	1.2 U
Magnesium		µg/L	10600	19000	26800	NS	123000	23400	11800
Manganese		µg/L	88	567	1510 J	NS	4.8 U	1100 J	4.8 U
Mercury		µg/L	0.03 U	0.09 UJ	0.11 R	NS	0.11 R	0.11 R	0.1 R
Nickel		µg/L	14.7 U	7.4 UJ	72.5	NS	14.8 U	62.9	14.8 U
Potassium		µg/L	2400 J	5180	6910 J	NS	347 J	4020 J	269 U
Selenium		µg/L	1 U	1.5 UJ	1.3 U	NS	1 U	1.3 U	1 U
Silver		µg/L	3.4 U	5.5 U	3.4 U	NS	3.4 U	3.4 U	3.4 U
Sodium		µg/L	27200	17600	9460	NS	8580	9250	8570
Thallium		µg/L	3.2 U	2.6 U	3.2 U	NS	3.2 U	3.2 U	3.2 U
Vanadium		µg/L	9.4 U	6 J	46.7 J	NS	9.5 U	32.7 J	9.5 U
Zinc		µg/L	22.1 R	37.7	168 J	NS	8.5 U	124 J	8.5 U
Cyanide		µg/L	NS	1.2 R	10 U	NS	NS	10 U	NS

SENECA ARMY DEPOT, ASH LANDFILL
GROUNDWATER ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

	MATRIX	PHASE II	PHASE I	PHASE I	PHASE II	PHASE I	PHASE I	PHASE II
	LOCATION	WATER	WATER	WATER	WATER	WATER	WATER	WATER
	DATE	MW26	MW-29	MW-29	MW29	MW-30	MW-30	MW30
	ES ID	07/10/93	01/15/92	01/15/92	07/09/93	01/16/92	01/16/92	07/01/93
	LAB ID	MW26	MW-29	MW-29Filtered	MW29	MW-30	MW-30Filtered	MW30
COMPOUND	UNITS	186719	152572	152591	186587	152642	152667	186123
Chloromethane	µg/L	10 U	10 U	NS	10 U	10 U	NS	NS
Bromomethane	µg/L	10 U	10 U	NS	10 U	10 U	NS	NS
Vinyl Chloride	µg/L	10 U	10 U	NS	10 U	10 U	NS	NS
Chloroethane	µg/L	10 U	10 U	NS	10 U	10 U	NS	NS
Methylene Chloride	µg/L	10 U	5 U	NS	10 U	5 U	NS	NS
Acetone	µg/L	10 U	10 U	NS	10 U	10 U	NS	NS
Carbon Disulfide	µg/L	10 U	5 U	NS	10 U	5 U	NS	NS
1,1-Dichloroethene	µg/L	10 U	5 U	NS	10 U	5 U	NS	NS
1,1-Dichloroethane	µg/L	10 U	5 U	NS	10 U	5 U	NS	NS
1,2-Dichloroethene (total)	µg/L	53	71	NS	97	5 U	NS	NS
Chloroform	µg/L	10 U	5 U	NS	10 U	5 U	NS	NS
1,2-Dichloroethane	µg/L	10 U	5 U	NS	10 U	5 U	NS	NS
2-Butanone	µg/L	10 U	10 U	NS	10 U	10 U	NS	NS
1,1,1-Trichloroethane	µg/L	10 U	5 U	NS	2 J	5 U	NS	NS
Carbon Tetrachloride	µg/L	10 U	5 U	NS	10 U	5 U	NS	NS
Vinyl Acetate	µg/L	NS	10 U	NS	NS	10 U	NS	NS
Bromodichloromethane	µg/L	10 U	5 U	NS	10 U	5 U	NS	NS
1,2-Dichloropropane	µg/L	10 U	5 U	NS	10 U	5 U	NS	NS
cis-1,3-Dichloropropene	µg/L	10 U	5 U	NS	10 U	5 U	NS	NS
Trichloroethene	µg/L	35	1 J	NS	2 J	5 U	NS	NS
Dibromochloromethane	µg/L	10 U	5 U	NS	10 U	5 U	NS	NS
1,1,2-Trichloroethane	µg/L	10 U	5 U	NS	10 U	5 U	NS	NS
Benzene	µg/L	10 U	5 U	NS	10 U	5 U	NS	NS
trans-1,3-Dichloropropene	µg/L	10 U	5 U	NS	10 U	5 U	NS	NS
Bromoform	µg/L	10 U	5 U	NS	10 U	5 U	NS	NS
4-Methyl-2-Pentanone	µg/L	10 U	10 U	NS	10 U	10 U	NS	NS
2-Hexanone	µg/L	10 U	10 U	NS	10 U	10 U	NS	NS
Tetrachloroethene	µg/L	10 U	5 U	NS	10 U	5 U	NS	NS
1,1,2,2-Tetrachloroethane	µg/L	10 U	5 U	NS	10 U	5 U	NS	NS
Toluene	µg/L	10 U	5 U	NS	10 U	5 U	NS	NS
Chlorobenzene	µg/L	10 U	5 U	NS	10 U	5 U	NS	NS
Ethylbenzene	µg/L	10 U	5 U	NS	10 U	5 U	NS	NS
Styrene	µg/L	10 U	5 U	NS	10 U	5 U	NS	NS
Xylene (total)	µg/L	10 U	5 U	NS	10 U	5 U	NS	NS

SENECA ARMY DEPOT, ASH LANDFILL
GROUNDWATER ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

COMPOUND	MATRIX LOCATION DATE ES ID LAB ID UNITS	PHASE II WATER MW28 07/10/93 MW28 168719	PHASE I WATER MW-29 01/15/92 MW-29 152572	PHASE I WATER MW-29 01/15/92 MW-29Filtered 152591	PHASE II WATER MW29 07/09/93 MW29 168557	PHASE I WATER MW-30 01/16/92 MW-30 152642	PHASE I WATER MW-30 01/16/92 MW-30Filtered 152657	PHASE II WATER MW30 07/01/93 MW30 168123
VOC's (524.2)								
Dichlorodifluoromethane	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
Chloromethane	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
Vinyl Chloride	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
Bromomethane	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
Chloroethane	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
Trichlorofluoromethane	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
1,1-Dichloroethene	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
Acetone	µg/L	NS	NS	NS	NS	NS	NS	5 U
Carbon Disulfide	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
Methylene Chloride	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
trans-1,2-Dichloroethene	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
1,1-Dichloroethane	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
2,2-Dichloropropane	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
cis-1,2-Dichloroethene	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
2-Butanone	µg/L	NS	NS	NS	NS	NS	NS	5 U
Bromochloromethane	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
Chloroform	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
1,1,1-Trichloroethane	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
Carbon Tetrachloride	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
1,1-Dichloropropene	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
Benzene	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
1,2-Dichloroethane	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
Trichloroethene	µg/L	NS	NS	NS	NS	NS	NS	1
1,2-Dichloropropane	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
Dibromomethane	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
Bromodichloromethane	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
cis-1,3-Dichloropropene	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
4-Methyl-2-Pentanone	µg/L	NS	NS	NS	NS	NS	NS	5 U
Toluene	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
trans-1,3-Dichloropropene	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
1,1,2-Trichloroethane	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
Tetrachloroethene	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
1,3-Dichloropropane	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
2-Hexanone	µg/L	NS	NS	NS	NS	NS	NS	5 U
Dibromochloromethane	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
1,2-Dibromoethane	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
Chlorobenzene	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
1,1,1,2-Tetrachloroethane	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
Ethylbenzene	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
Styrene	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
Bromoform	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
Isopropylbenzene	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
Bromobenzene	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
1,1,2,2-Tetrachloroethane	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
1,2,3-Trichloropropane	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
n-Propylbenzene	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
2-Chlorotoluene	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
4-Chlorotoluene	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
1,3,5-Trimethylbenzene	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
tert-Butylbenzene	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
1,2,4-Trimethylbenzene	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
sec-Butylbenzene	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
1,3-Dichlorobenzene	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
1,4-Dichlorobenzene	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
p-Isopropyltoluene	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
1,2-Dichlorobenzene	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
n-Butylbenzene	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
1,2-Dibromo-3-Chloropropane	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
1,2,4-Trichlorobenzene	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
Hexachlorobutadiene	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
Naphthalene	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
1,2,3-Trichlorobenzene	µg/L	NS	NS	NS	NS	NS	NS	0.5 U
Xylene (total)	µg/L	NS	NS	NS	NS	NS	NS	0.5 U

SENECA ARMY DEPOT, ASH LANDFILL
GROUNDWATER ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

COMPOUND	MATRIX LOCATION DATE ES ID LAB ID UNITS	PHASE II WATER MW28 07/10/93 MW28 186719	PHASE I WATER MW-29 01/15/92 MW-29 152572	PHASE I WATER MW-29 01/15/92 MW-29Filtered 152591	PHASE II WATER MW28 07/09/93 MW28 186587	PHASE I WATER MW-30 01/16/92 MW-30 152642	PHASE I WATER MW-30 01/16/92 MW-30Filtered 152667	PHASE II WATER MW30 07/01/93 MW30 186123
SEMIVOLATILES								
Phenol	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
bis(2-Chloroethyl) ether	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
2-Chlorophenol	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
1,3-Dichlorobenzene	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
1,4-Dichlorobenzene	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
Benzyl Alcohol	µg/L	NS	11 U	NS	NS	11 U	NS	NS
1,2-Dichlorobenzene	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
2-Methylphenol	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
bis(2-Chloroisopropyl) ether	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
4-Methylphenol	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
N-Nitroso-di-n-propylamine	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
Hexachloroethane	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
Nitrobenzene	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
Isophorone	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
2-Nitrophenol	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
2,4-Dimethylphenol	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
Benzoic acid	µg/L	NS	55 U	NS	NS	56 U	NS	NS
bis(2-Chloroethoxy) methane	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
2,4-Dichlorophenol	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
1,2,4-Trichlorobenzene	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
Naphthalene	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
4-Chloroaniline	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
Hexachlorobutadiene	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
4-Chloro-3-methylphenol	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
2-Methylnaphthalene	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
Hexachlorocyclopentadiene	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
2,4,6-Trichlorophenol	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
2,4,5-Trichlorophenol	µg/L	25 U	55 U	NS	25 U	56 U	NS	25 U
2-Chloronaphthalene	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
2-Nitroaniline	µg/L	25 U	55 U	NS	25 U	56 U	NS	25 U
Dimethylphthalate	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
Acenaphthylene	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
2,6-Dinitrotoluene	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
3-Nitroaniline	µg/L	25 U	55 U	NS	25 U	56 U	NS	25 U
Acenaphthene	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
2,4-Dinitrophenol	µg/L	25 U	55 U	NS	25 U	56 U	NS	25 U
4-Nitrophenol	µg/L	25 U	55 U	NS	25 U	56 U	NS	25 U
Dibenzofuran	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
2,4-Dinitrotoluene	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
Diethylphthalate	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
4-Chlorophenyl-phenylether	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
Fluorene	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
4-Nitroaniline	µg/L	25 U	55 U	NS	25 U	56 U	NS	25 U
4,6-Dinitro-2-methylphenol	µg/L	25 U	55 U	NS	25 U	56 U	NS	25 U
N-Nitrosodiphenylamine (1)	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
4-Bromophenyl-phenylether	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
Hexachlorobenzene	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
Pentachlorophenol	µg/L	25 U	55 U	NS	25 U	56 U	NS	25 U
Phenanthrene	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
Anthracene	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
Carbazole	µg/L	10 U	NS	NS	10 U	NS	NS	10 U
Di-n-butylphthalate	µg/L	10 U	11 U	NS	10 U	11 U	NS	12
Fluoranthene	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
Pyrene	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
Butylbenzylphthalate	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
3,3'-Dichlorobenzidine	µg/L	10 U	22 U	NS	10 U	23 U	NS	10 U
Benzo(a)anthracene	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
Chrysene	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
bis(2-Ethylhexyl)phthalate	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
Di-n-octylphthalate	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
Benzo(b)fluoranthene	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
Benzo(k)fluoranthene	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
Benzo(a)pyrene	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
Indeno(1,2,3-cd)pyrene	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
Dibenz(a,h)anthracene	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U
Benzo(g,h,i)perylene	µg/L	10 U	11 U	NS	10 U	11 U	NS	10 U

SENECA ARMY DEPOT, ASH LANDFILL
GROUNDWATER ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

COMPOUND	MATRIX LOCATION DATE ES ID LAB ID UNITS	PHASE II WATER MW28 07/10/93 MW28 168719	PHASE I WATER MW-29 01/15/92 MW-29 152572	PHASE I WATER MW-29 01/15/92 MW-29Filtered 152591	PHASE II WATER MW29 07/09/93 MW29 168587	PHASE I WATER MW-30 01/16/92 MW-30 152642	PHASE I WATER MW-30 01/16/92 MW-30Filtered 152667	PHASE II WATER MW30 07/01/93 MW30 168123
PESTICIDES/PCBS								
alpha-BHC	µg/L	0.05 U	0.055 U	NS	0.05 U	0.051 U	NS	NS
beta-BHC	µg/L	0.05 U	0.055 U	NS	0.05 U	0.051 U	NS	NS
delta-BHC	µg/L	0.05 U	0.055 U	NS	0.05 U	0.051 U	NS	NS
gamma-BHC (Lindane)	µg/L	0.05 U	0.055 U	NS	0.05 U	0.051 U	NS	NS
Heptachlor	µg/L	0.05 U	0.055 U	NS	0.05 U	0.051 U	NS	NS
Aldrin	µg/L	0.05 U	0.055 U	NS	0.05 U	0.051 U	NS	NS
Heptachlor epoxide	µg/L	0.05 U	0.055 U	NS	0.05 U	0.051 U	NS	NS
Endosulfan I	µg/L	0.05 U	0.055 U	NS	0.05 U	0.051 U	NS	NS
Dieldrin	µg/L	0.1 U	0.11 U	NS	0.1 U	0.1 U	NS	NS
4,4'-DDE	µg/L	0.1 U	0.11 U	NS	0.1 U	0.1 U	NS	NS
Endrin	µg/L	0.1 U	0.11 U	NS	0.1 U	0.1 U	NS	NS
Endosulfan II	µg/L	0.1 U	0.11 U	NS	0.1 U	0.1 U	NS	NS
4,4'-DDD	µg/L	0.1 U	0.11 U	NS	0.1 U	0.1 U	NS	NS
Endosulfan sulfate	µg/L	0.1 U	0.11 U	NS	0.1 U	0.1 U	NS	NS
4,4'-DDT	µg/L	0.1 U	0.11 U	NS	0.1 U	0.1 U	NS	NS
Methoxychlor	µg/L	0.5 U	0.55 U	NS	0.5 U	0.51 U	NS	NS
Endrin ketone	µg/L	0.1 U	0.11 U	NS	0.1 U	0.1 U	NS	NS
Endrin aldehyde	µg/L	0.1 U	NS	NS	0.1 U	NS	NS	NS
alpha-Chlordane	µg/L	0.05 U	0.55 U	NS	0.05 U	0.51 U	NS	NS
gamma-Chlordane	µg/L	0.05 U	0.55 U	NS	0.05 U	0.51 U	NS	NS
Toxaphene	µg/L	5 U	1.1 U	NS	5 U	1 U	NS	NS
Aroclor-1016	µg/L	1 U	0.55 U	NS	1 U	0.51 U	NS	NS
Aroclor-1221	µg/L	2 U	0.55 U	NS	2 U	0.51 U	NS	NS
Aroclor-1232	µg/L	1 U	0.55 U	NS	1 U	0.51 U	NS	NS
Aroclor-1242	µg/L	1 U	0.55 U	NS	1 U	0.51 U	NS	NS
Aroclor-1248	µg/L	1 U	0.55 U	NS	1 U	0.51 U	NS	NS
Aroclor-1254	µg/L	1 U	1.1 U	NS	1 U	1 U	NS	NS
Aroclor-1260	µg/L	1 U	1.1 U	NS	1 U	1 U	NS	NS
HERBICIDES								
2,4-D	µg/L	1 U	NS	NS	1 U	1 U	NS	NS
2,4-DB	µg/L	1 U	NS	NS	1 U	1 U	NS	NS
2,4,5-T	µg/L	0.1 U	NS	NS	0.1 U	0.1 U	NS	NS
2,4,5-TP (Silvex)	µg/L	0.1 U	NS	NS	0.1 U	0.1 U	NS	NS
Dalapon	µg/L	2.3 U	NS	NS	2.3 U	2.3 U	NS	NS
Dicamba	µg/L	0.1 U	NS	NS	0.1 U	0.1 U	NS	NS
Dichloroprop	µg/L	1 U	NS	NS	1 U	1 U	NS	NS
Dinoseb	µg/L	0.5 U	NS	NS	0.5 U	0.5 U	NS	NS
MCPA	µg/L	100 U	NS	NS	100 U	100 U	NS	NS
MCPP	µg/L	100 U	NS	NS	100 U	100 U	NS	NS
METALS								
Aluminum	µg/L	6980	85700	24.4 U	55600	11200	24.5 U	188 J
Antimony	µg/L	49.5 UJ	53.3 U	53 U	88.2 J	53.3 U	53.2 U	49.6 UJ
Arsenic	µg/L	1.4 UJ	3.5 U	3.5 U	2.4 J	3.5 U	3.5 U	1.4 UJ
Barium	µg/L	76.9 J	418	46.8 R	382	93.3 J	63.1 R	56.5 J
Beryllium	µg/L	0.89 U	5.8 R	1.3 R	3 J	2.4 R	1.1 U	0.89 U
Cadmium	µg/L	2.8 U	17	3 U	2.8 U	30 U	3 U	2.8 U
Calcium	µg/L	121000	248000	124000	234000	105000	102000	121000
Chromium	µg/L	9.8 J	122	6.2 U	63.8 J	13.2	6.2 U	2.9 J
Cobalt	µg/L	5.4 U	63.8	20.4 U	57.5	20.5 U	20.4 U	5.5 U
Copper	µg/L	6.1 J	111	10.1 U	84.5	10.5 J	10.2 U	4.7 U
Iron	µg/L	8530	159000	7 U	92000	15600	7 U	281
Lead	µg/L	2.2 J	39.4	1.2 U	28.8	3.5	1.2 U	0.59 U
Magnesium	µg/L	13900	59400	14700	46900	16900	147000	16300
Manganese	µg/L	271	4110	4.8 U	3270	250	4.8 U	11.8 J
Mercury	µg/L	0.09 UJ	0.14 R	0.09 R	0.09 UJ	0.1 R	0.03 U	0.09 UJ
Nickel	µg/L	8.2 J	182	14.7 U	122 J	16.8 J	14.7 U	7.4 UJ
Potassium	µg/L	2570 J	10800	563 J	9450	3450 J	1120 J	2910 J
Selenium	µg/L	1.5 UJ	13 U	1.4 J	1.5 J	1.3 U	1 U	1.5 UJ
Silver	µg/L	5.4 U	3.4 U	4.5 R	5.5 U	3.4 U	3.4 U	5.5 U
Sodium	µg/L	10100	26200	25000	25600	18400	17800	26900
Thallium	µg/L	2.6 U	3.2 U	3.2 U	2.6 U	3.2 U	3.2 U	2.6 U
Vanadium	µg/L	12.6 J	98.3	9.4 U	78.2 J	18.5 J	9.5 U	6.7 UJ
Zinc	µg/L	28.5 R	503	8.4 U	300	55.4 R	20.1 R	10.2 J
Cyanide	µg/L	1.7 UJ	10 U	NS	1.2 R	10 U	NS	NS

SENECA ARMY DEPOT, ASH LANDFILL
GROUNDWATER ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

	MATRIX	PHASE I	PHASE I	PHASE II	PHASE I	PHASE I	PHASE II	PHASE I
	LOCATION	WATER	WATER	WATER	WATER	WATER	WATER	WATER
	DATE	MW-31	MW-31	MW31	MW-32	MW-32	MW32	MW-33
	ES ID	01/16/92	01/16/92	07/01/93	01/16/92	01/16/92	07/09/93	01/16/92
	LAB ID	MW-31	MW-31Filtered	MW31	MW-32	MW-32Filtered	MW32	MW-33
COMPOUND	UNITS	152643	152868	188124	152644	152669	188591	152645
Chloromethane	µg/L	10 U	NS	NS	10 U	NS	NS	NS
Bromomethane	µg/L	10 U	NS	NS	10 U	NS	NS	NS
Vinyl Chloride	µg/L	10 U	NS	NS	10 U	NS	NS	NS
Chloroethane	µg/L	10 U	NS	NS	10 U	NS	NS	NS
Methylene Chloride	µg/L	5 U	NS	NS	5 U	NS	NS	NS
Acetone	µg/L	10 U	NS	NS	10 U	NS	NS	NS
Carbon Disulfide	µg/L	5 U	NS	NS	5 U	NS	NS	NS
1,1-Dichloroethene	µg/L	5 U	NS	NS	5 U	NS	NS	NS
1,1-Dichloroethane	µg/L	5 U	NS	NS	5 U	NS	NS	NS
1,2-Dichloroethene (total)	µg/L	5 U	NS	NS	5 U	NS	NS	NS
Chloroform	µg/L	5 U	NS	NS	5 U	NS	NS	NS
1,2-Dichloroethane	µg/L	5 U	NS	NS	5 U	NS	NS	NS
2-Butanone	µg/L	10 U	NS	NS	10 U	NS	NS	NS
1,1,1-Trichloroethane	µg/L	5 U	NS	NS	5 U	NS	NS	NS
Carbon Tetrachloride	µg/L	5 U	NS	NS	5 U	NS	NS	NS
Vinyl Acetate	µg/L	10 U	NS	NS	10 U	NS	NS	NS
Bromodichloromethane	µg/L	5 U	NS	NS	5 U	NS	NS	NS
1,2-Dichloropropane	µg/L	5 U	NS	NS	5 U	NS	NS	NS
cis-1,3-Dichloropropene	µg/L	5 U	NS	NS	5 U	NS	NS	NS
Trichloroethene	µg/L	5 U	NS	NS	5 U	NS	NS	NS
Dibromochloromethane	µg/L	5 U	NS	NS	5 U	NS	NS	NS
1,1,2-Trichloroethane	µg/L	5 U	NS	NS	5 U	NS	NS	NS
Benzene	µg/L	5 U	NS	NS	5 U	NS	NS	NS
trans-1,3-Dichloropropene	µg/L	5 U	NS	NS	5 U	NS	NS	NS
Bromoform	µg/L	5 U	NS	NS	5 U	NS	NS	NS
4-Methyl-2-Pentanone	µg/L	10 U	NS	NS	10 U	NS	NS	NS
2-Hexanone	µg/L	10 U	NS	NS	10 U	NS	NS	NS
Tetrachloroethene	µg/L	5 U	NS	NS	5 U	NS	NS	NS
1,1,2,2-Tetrachloroethane	µg/L	5 U	NS	NS	5 U	NS	NS	NS
Toluene	µg/L	5 U	NS	NS	5 U	NS	NS	NS
Chlorobenzene	µg/L	5 U	NS	NS	5 U	NS	NS	NS
Ethylbenzene	µg/L	5 U	NS	NS	5 U	NS	NS	NS
Styrene	µg/L	5 U	NS	NS	5 U	NS	NS	NS
Xylene (total)	µg/L	5 U	NS	NS	5 U	NS	NS	NS

SENECA ARMY DEPOT, ASH LANDFILL
GROUNDWATER ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

COMPOUND	MATRIX	PHASE I	PHASE I	PHASE II	PHASE I	PHASE I	PHASE II	PHASE I
	LOCATION	WATER	WATER	WATER	WATER	WATER	WATER	WATER
	DATE	MW-31	MW-31	MW31	MW-32	MW-32	MW32	MW-33
	ES ID	01/16/92	01/16/92	07/01/93	01/16/92	01/16/92	07/09/93	01/16/92
	LAB ID	MW-31	MW-31Filtered	MW31	MW-32	MW-32Filtered	MW32	MW-33
	UNITS	152643	152668	188124	152644	152669	188591	152645
VOC's (524.2)								
Dichlorodifluoromethane	µg/L	NS	NS	0.5 U	NS	NS	0.5 U	NS
Chloromethane	µg/L	NS	NS	0.5 U	NS	NS	0.5 U	NS
Vinyl Chloride	µg/L	NS	NS	0.5 U	NS	NS	0.5 U	NS
Bromomethane	µg/L	NS	NS	0.5 U	NS	NS	0.5 U	NS
Chloroethane	µg/L	NS	NS	0.5 U	NS	NS	0.5 U	NS
Trichlorofluoromethane	µg/L	NS	NS	0.5 U	NS	NS	0.5 U	NS
1,1-Dichloroethene	µg/L	NS	NS	0.5 U	NS	NS	0.5 U	NS
Acetone	µg/L	NS	NS	5 U	NS	NS	5 U	NS
Carbon Disulfide	µg/L	NS	NS	0.5 U	NS	NS	0.5 U	NS
Methylene Chloride	µg/L	NS	NS	0.5 U	NS	NS	0.5 U	NS
trans-1,2-Dichloroethene	µg/L	NS	NS	0.5 U	NS	NS	0.5 U	NS
1,1-Dichloroethane	µg/L	NS	NS	0.5 U	NS	NS	0.5 U	NS
2,2-Dichloropropane	µg/L	NS	NS	0.5 U	NS	NS	0.5 U	NS
cis-1,2-Dichloroethene	µg/L	NS	NS	0.5 U	NS	NS	0.5 U	NS
2-Butanone	µg/L	NS	NS	5 U	NS	NS	5 U	NS
Bromochloromethane	µg/L	NS	NS	0.5 U	NS	NS	0.5 U	NS
Chloroform	µg/L	NS	NS	0.5 U	NS	NS	0.5 U	NS
1,1,1-Trichloroethane	µg/L	NS	NS	0.5 U	NS	NS	0.5 U	NS
Carbon Tetrachloride	µg/L	NS	NS	0.5 U	NS	NS	0.5 U	NS
1,1-Dichloropropene	µg/L	NS	NS	0.5 U	NS	NS	0.5 U	NS
Benzene	µg/L	NS	NS	0.5 U	NS	NS	0.5 U	NS
1,2-Dichloroethane	µg/L	NS	NS	0.5 U	NS	NS	0.5 U	NS
Trichloroethene	µg/L	NS	NS	0.5 U	NS	NS	0.5 U	NS
1,2-Dichloropropane	µg/L	NS	NS	0.5 U	NS	NS	0.5 U	NS
Dibromomethane	µg/L	NS	NS	0.5 U	NS	NS	0.5 U	NS
Bromodichloromethane	µg/L	NS	NS	0.5 U	NS	NS	0.5 U	NS
cis-1,3-Dichloropropene	µg/L	NS	NS	0.5 U	NS	NS	0.5 U	NS
4-Methyl-2-Pentanone	µg/L	NS	NS	5 U	NS	NS	5 U	NS
Toluene	µg/L	NS	NS	0.5 U	NS	NS	0.5 U	NS
trans-1,3-Dichloropropene	µg/L	NS	NS	0.5 U	NS	NS	0.5 U	NS
1,1,2-Trichloroethane	µg/L	NS	NS	0.5 U	NS	NS	0.5 U	NS
Tetrachloroethene	µg/L	NS	NS	0.5 U	NS	NS	0.5 U	NS
1,3-Dichloropropane	µg/L	NS	NS	0.5 U	NS	NS	0.5 U	NS
2-Hexanone	µg/L	NS	NS	5 U	NS	NS	5 U	NS
Dibromochloromethane	µg/L	NS	NS	0.5 U	NS	NS	0.5 U	NS
1,2-Dibromoethane	µg/L	NS	NS	0.5 U	NS	NS	0.5 U	NS
Chlorobenzene	µg/L	NS	NS	0.5 U	NS	NS	0.5 U	NS
1,1,1,2-Tetrachloroethane	µg/L	NS	NS	0.5 U	NS	NS	0.5 U	NS
Ethylbenzene	µg/L	NS	NS	0.5 U	NS	NS	0.5 U	NS
Styrene	µg/L	NS	NS	0.5 U	NS	NS	0.5 U	NS
Bromoform	µg/L	NS	NS	0.5 U	NS	NS	0.5 U	NS
Isopropylbenzene	µg/L	NS	NS	0.5 U	NS	NS	0.5 U	NS
Bromobenzene	µg/L	NS	NS	0.5 U	NS	NS	0.5 U	NS
1,1,2,2-Tetrachloroethane	µg/L	NS	NS	0.5 U	NS	NS	0.5 U	NS
1,2,3-Trichloropropane	µg/L	NS	NS	0.5 U	NS	NS	0.5 U	NS
n-Propylbenzene	µg/L	NS	NS	0.5 U	NS	NS	0.5 U	NS
2-Chlorotoluene	µg/L	NS	NS	0.5 U	NS	NS	0.5 U	NS
4-Chlorotoluene	µg/L	NS	NS	0.5 U	NS	NS	0.5 U	NS
1,3,5-Trimethylbenzene	µg/L	NS	NS	0.5 U	NS	NS	0.5 U	NS
tert-Butylbenzene	µg/L	NS	NS	0.5 U	NS	NS	0.5 U	NS
1,2,4-Trimethylbenzene	µg/L	NS	NS	0.5 U	NS	NS	0.5 U	NS
sec-Butylbenzene	µg/L	NS	NS	0.5 U	NS	NS	0.5 U	NS
1,3-Dichlorobenzene	µg/L	NS	NS	0.5 U	NS	NS	0.5 U	NS
1,4-Dichlorobenzene	µg/L	NS	NS	0.5 U	NS	NS	0.5 U	NS
p-Isopropyltoluene	µg/L	NS	NS	0.5 U	NS	NS	0.5 U	NS
1,2-Dichlorobenzene	µg/L	NS	NS	0.5 U	NS	NS	0.5 U	NS
n-Butylbenzene	µg/L	NS	NS	0.5 U	NS	NS	0.5 U	NS
1,2-Dibromo-3-Chloropropane	µg/L	NS	NS	0.5 U	NS	NS	0.5 U	NS
1,2,4-Trichlorobenzene	µg/L	NS	NS	0.5 U	NS	NS	0.5 U	NS
Hexachlorobutadiene	µg/L	NS	NS	0.5 U	NS	NS	0.5 U	NS
Naphthalene	µg/L	NS	NS	0.5 U	NS	NS	0.5 U	NS
1,2,3-Trichlorobenzene	µg/L	NS	NS	0.5 U	NS	NS	0.5 U	NS
Xylene (total)	µg/L	NS	NS	0.5 U	NS	NS	0.5 U	NS

SENECA ARMY DEPOT, ASH LANDFILL
GROUNDWATER ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

	MATRIX	PHASE I WATER	PHASE I WATER	PHASE II WATER	PHASE I WATER	PHASE I WATER	PHASE II WATER	PHASE I WATER
	LOCATION	MW-31	MW-31	MW31	MW-32	MW-32	MW32	MW-33
	DATE	01/16/92	01/16/92	07/01/93	01/16/92	01/16/92	07/09/93	01/16/92
	ES ID	MW-31	MW-31Filtered	MW31	MW-32	MW-32Filtered	MW32	MW-33
	LAB ID	152643	152668	188124	152644	152669	188591	152645
COMPOUND	UNITS							
SEMIVOLATILES								
Phenol	µg/L	10 U	NS	10 U	10 U	NS	10 U	11 U
bis(2-Chloroethyl) ether	µg/L	10 U	NS	10 U	10 U	NS	10 U	11 U
2-Chlorophenol	µg/L	10 U	NS	10 U	10 U	NS	10 U	11 U
1,3-Dichlorobenzene	µg/L	10 U	NS	10 U	10 U	NS	10 U	11 U
1,4-Dichlorobenzene	µg/L	10 U	NS	10 U	10 U	NS	10 U	11 U
Benzyl Alcohol	µg/L	10 U	NS	NS	10 U	NS	NS	11 U
1,2-Dichlorobenzene	µg/L	10 U	NS	10 U	10 U	NS	10 U	11 U
2-Methylphenol	µg/L	10 U	NS	10 U	10 U	NS	10 U	11 U
bis(2-Chloroisopropyl) ether	µg/L	10 U	NS	10 U	10 U	NS	10 U	11 U
4-Methylphenol	µg/L	10 U	NS	10 U	10 U	NS	10 U	11 U
N-Nitroso-di-n-propylamine	µg/L	10 U	NS	10 U	10 U	NS	10 U	11 U
Hexachloroethane	µg/L	10 U	NS	10 U	10 U	NS	10 U	11 U
Nitrobenzene	µg/L	10 U	NS	10 U	10 U	NS	10 U	11 U
Isophorone	µg/L	10 U	NS	10 U	10 U	NS	10 U	11 U
2-Nitrophenol	µg/L	10 U	NS	10 U	10 U	NS	10 U	11 U
2,4-Dimethylphenol	µg/L	10 U	NS	10 U	10 U	NS	10 U	11 U
Benzoic acid	µg/L	52 U	NS	NS	50 U	NS	NS	55 U
bis(2-Chloroethoxy) methane	µg/L	10 U	NS	10 U	10 U	NS	10 U	11 U
2,4-Dichlorophenol	µg/L	10 U	NS	10 U	10 U	NS	10 U	11 U
1,2,4-Trichlorobenzene	µg/L	10 U	NS	10 U	10 U	NS	10 U	11 U
Naphthalene	µg/L	10 U	NS	10 U	10 U	NS	10 U	11 U
4-Chloroaniline	µg/L	10 U	NS	10 U	10 U	NS	10 U	11 U
Hexachlorobutadiene	µg/L	10 U	NS	10 U	10 U	NS	10 U	11 U
4-Chloro-3-methylphenol	µg/L	10 U	NS	10 U	10 U	NS	10 U	11 U
2-Methylnaphthalene	µg/L	10 U	NS	10 U	10 U	NS	10 U	11 U
Hexachlorocyclopentadiene	µg/L	10 U	NS	10 U	10 U	NS	10 U	11 U
2,4,6-Trichlorophenol	µg/L	10 U	NS	10 U	10 U	NS	10 U	11 U
2,4,5-Trichlorophenol	µg/L	52 U	NS	25 U	50 U	NS	25 U	55 U
2-Chloronaphthalene	µg/L	10 U	NS	10 U	10 U	NS	10 U	11 U
2-Nitroaniline	µg/L	52 U	NS	25 U	50 U	NS	25 U	55 U
Dimethylphthalate	µg/L	10 U	NS	10 U	10 U	NS	10 U	11 U
Acenaphthylene	µg/L	10 U	NS	10 U	10 U	NS	10 U	11 U
2,6-Dinitrotoluene	µg/L	10 U	NS	10 U	10 U	NS	10 U	11 U
3-Nitroaniline	µg/L	52 U	NS	25 U	50 U	NS	25 U	55 U
Acenaphthene	µg/L	10 U	NS	10 U	10 U	NS	10 U	11 U
2,4-Dinitrophenol	µg/L	52 U	NS	25 U	50 U	NS	25 U	55 U
4-Nitrophenol	µg/L	52 U	NS	25 U	50 U	NS	25 U	55 U
Dibenzofuran	µg/L	10 U	NS	10 U	10 U	NS	10 U	11 U
2,4-Dinitrotoluene	µg/L	10 U	NS	10 U	10 U	NS	10 U	11 U
Diethylphthalate	µg/L	10 U	NS	10 U	10 U	NS	10 U	11 U
4-Chlorophenyl-phenylether	µg/L	10 U	NS	10 U	10 U	NS	10 U	11 U
Fluorene	µg/L	10 U	NS	10 U	10 U	NS	10 U	11 U
4-Nitroaniline	µg/L	52 U	NS	25 U	50 U	NS	25 U	55 U
4,6-Dinitro-2-methylphenol	µg/L	52 U	NS	25 U	50 U	NS	25 U	55 U
N-Nitrosodiphenylamine (1)	µg/L	10 U	NS	10 U	10 U	NS	10 U	11 U
4-Bromophenyl-phenylether	µg/L	10 U	NS	10 U	10 U	NS	10 U	11 U
Hexachlorobenzene	µg/L	10 U	NS	10 U	10 U	NS	10 U	11 U
Pentachlorophenol	µg/L	52 U	NS	25 U	50 U	NS	25 U	55 U
Phenanthrene	µg/L	10 U	NS	10 U	10 U	NS	10 U	11 U
Anthracene	µg/L	10 U	NS	10 U	10 U	NS	10 U	11 U
Carbazole	µg/L	NS	NS	10 U	NS	NS	10 U	NS
Di-n-butylphthalate	µg/L	10 U	NS	10 U	10 U	NS	10 U	11 U
Fluoranthene	µg/L	10 U	NS	10 U	10 U	NS	10 U	11 U
Pyrene	µg/L	10 U	NS	10 U	10 U	NS	10 U	11 U
Butylbenzylphthalate	µg/L	10 U	NS	10 U	10 U	NS	10 U	11 U
3,3'-Dichlorobenzidine	µg/L	21 U	NS	10 U	20 U	NS	10 U	22 U
Benzo(a)anthracene	µg/L	10 U	NS	10 U	10 U	NS	10 U	11 U
Chrysene	µg/L	10 U	NS	10 U	10 U	NS	10 U	11 U
bis(2-Ethylhexyl)phthalate	µg/L	10 U	NS	10 U	10 U	NS	10 U	11 U
Di-n-octylphthalate	µg/L	10 U	NS	10 U	10 U	NS	10 U	11 U
Benzo(b)fluoranthene	µg/L	10 U	NS	10 U	10 U	NS	10 U	11 U
Benzo(k)fluoranthene	µg/L	10 U	NS	10 U	10 U	NS	10 U	11 U
Benzo(a)pyrene	µg/L	10 U	NS	10 U	10 U	NS	10 U	11 U
Indeno(1,2,3-cd)pyrene	µg/L	10 U	NS	10 U	10 U	NS	10 U	11 U
Dibenz(a,h)anthracene	µg/L	10 U	NS	10 U	10 U	NS	10 U	11 U
Benzo(g,h,i)perylene	µg/L	10 U	NS	10 U	10 U	NS	10 U	11 U

SENECA ARMY DEPOT, ASH LANDFILL
GROUNDWATER ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

| COMPOUND | MATRIX | LOCATION | DATE | ES ID | LAB ID | UNITS | | |

SENECA ARMY DEPOT, ASH LANDFILL
GROUNDWATER ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

		PHASE I	PHASE I	PHASE II
	MATRIX	WATER	WATER	WATER
	LOCATION	MW-33	MW-33	MW33
	DATE	02/03/92 OK	01/16/92	07/10/93
	ES ID	MW-33	MW-33Filtered	MW33
	LAB ID	153418	152670	188721
COMPOUND	UNITS			
Chloromethane	µg/L	10 U	NS	NS
Bromomethane	µg/L	10 U	NS	NS
Vinyl Chloride	µg/L	10 U	NS	NS
Chloroethane	µg/L	10 U	NS	NS
Methylene Chloride	µg/L	5 U	NS	NS
Acetone	µg/L	10 U	NS	NS
Carbon Disulfide	µg/L	5 U	NS	NS
1,1-Dichloroethene	µg/L	5 U	NS	NS
1,1-Dichloroethane	µg/L	5 U	NS	NS
1,2-Dichloroethene (total)	µg/L	5 U	NS	NS
Chloroform	µg/L	5 U	NS	NS
1,2-Dichloroethane	µg/L	5 U	NS	NS
2-Butanone	µg/L	10 U	NS	NS
1,1,1-Trichloroethane	µg/L	5 U	NS	NS
Carbon Tetrachloride	µg/L	5 U	NS	NS
Vinyl Acetate	µg/L	10 U	NS	NS
Bromodichloromethane	µg/L	5 U	NS	NS
1,2-Dichloropropane	µg/L	5 U	NS	NS
cis-1,3-Dichloropropene	µg/L	5 U	NS	NS
Trichloroethene	µg/L	5 U	NS	NS
Dibromochloromethane	µg/L	5 U	NS	NS
1,1,2-Trichloroethane	µg/L	5 U	NS	NS
Benzene	µg/L	5 U	NS	NS
trans-1,3-Dichloropropene	µg/L	5 U	NS	NS
Bromoform	µg/L	5 U	NS	NS
4-Methyl-2-Pentanone	µg/L	10 U	NS	NS
2-Hexanone	µg/L	10 U	NS	NS
Tetrachloroethene	µg/L	5 U	NS	NS
1,1,2,2-Tetrachloroethane	µg/L	5 U	NS	NS
Toluene	µg/L	5 U	NS	NS
Chlorobenzene	µg/L	5 U	NS	NS
Ethylbenzene	µg/L	5 U	NS	NS
Styrene	µg/L	5 U	NS	NS
Xylene (total)	µg/L	5 U	NS	NS

SENECA ARMY DEPOT, ASH LANDFILL
GROUNDWATER ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

COMPOUND	MATRIX LOCATION DATE ES ID LAB ID UNITS	PHASE I WATER MW-33 02/03/92 CK MW-33 153416	PHASE I WATER MW-33 01/16/92 MW-33Filtered 152670	PHASE II WATER MW33 07/10/93 MW33 186721
VOC's (524.2)				
Dichlorodifluoromethane	µg/L	NS	NS	0.5 U
Chloromethane	µg/L	NS	NS	0.5 U
Vinyl Chloride	µg/L	NS	NS	0.5 U
Bromomethane	µg/L	NS	NS	0.5 U
Chloroethane	µg/L	NS	NS	0.5 U
Trichlorofluoromethane	µg/L	NS	NS	0.5 U
1,1-Dichloroethene	µg/L	NS	NS	0.5 U
Acetone	µg/L	NS	NS	5 U
Carbon Disulfide	µg/L	NS	NS	0.5 U
Methylene Chloride	µg/L	NS	NS	0.5 U
trans-1,2-Dichloroethene	µg/L	NS	NS	0.5 U
1,1-Dichloroethane	µg/L	NS	NS	0.5 U
2,2-Dichloropropane	µg/L	NS	NS	0.5 U
cis-1,2-Dichloroethene	µg/L	NS	NS	0.5 U
2-Butanone	µg/L	NS	NS	5 U
Bromochloromethane	µg/L	NS	NS	0.5 U
Chloroform	µg/L	NS	NS	0.5 U
1,1,1-Trichloroethane	µg/L	NS	NS	0.5 U
Carbon Tetrachloride	µg/L	NS	NS	0.5 U
1,1-Dichloropropene	µg/L	NS	NS	0.5 U
Benzene	µg/L	NS	NS	0.5 U
1,2-Dichloroethane	µg/L	NS	NS	0.5 U
Trichloroethene	µg/L	NS	NS	0.5 U
1,2-Dichloropropane	µg/L	NS	NS	0.5 U
Dibromomethane	µg/L	NS	NS	0.5 U
Bromodichloromethane	µg/L	NS	NS	0.5 U
cis-1,3-Dichloropropene	µg/L	NS	NS	0.5 U
4-Methyl-2-Pentanone	µg/L	NS	NS	5 U
Toluene	µg/L	NS	NS	0.5 U
trans-1,3-Dichloropropene	µg/L	NS	NS	0.5 U
1,1,2-Trichloroethane	µg/L	NS	NS	0.5 U
Tetrachloroethene	µg/L	NS	NS	0.5 U
1,3-Dichloropropane	µg/L	NS	NS	0.5 U
2-Hexanone	µg/L	NS	NS	5 U
Dibromochloromethane	µg/L	NS	NS	0.5 U
1,2-Dibromoethane	µg/L	NS	NS	0.5 U
Chlorobenzene	µg/L	NS	NS	0.5 U
1,1,1,2-Tetrachloroethane	µg/L	NS	NS	0.5 U
Ethylbenzene	µg/L	NS	NS	0.5 U
Styrene	µg/L	NS	NS	0.5 U
Bromoform	µg/L	NS	NS	0.5 U
Isopropylbenzene	µg/L	NS	NS	0.5 U
Bromobenzene	µg/L	NS	NS	0.5 U
1,1,2,2-Tetrachloroethane	µg/L	NS	NS	0.5 U
1,2,3-Trichloropropane	µg/L	NS	NS	0.5 U
n-Propylbenzene	µg/L	NS	NS	0.5 U
2-Chlorotoluene	µg/L	NS	NS	0.5 U
4-Chlorotoluene	µg/L	NS	NS	0.5 U
1,3,5-Trimethylbenzene	µg/L	NS	NS	0.5 U
tert-Butylbenzene	µg/L	NS	NS	0.5 U
1,2,4-Trimethylbenzene	µg/L	NS	NS	0.5 U
sec-Butylbenzene	µg/L	NS	NS	0.5 U
1,3-Dichlorobenzene	µg/L	NS	NS	0.5 U
1,4-Dichlorobenzene	µg/L	NS	NS	0.5 U
p-Isopropyltoluene	µg/L	NS	NS	0.5 U
1,2-Dichlorobenzene	µg/L	NS	NS	0.5 U
n-Butylbenzene	µg/L	NS	NS	0.5 U
1,2-Dibromo-3-Chloropropane	µg/L	NS	NS	0.5 U
1,2,4-Trichlorobenzene	µg/L	NS	NS	0.5 U
Hexachlorobutadiene	µg/L	NS	NS	0.5 U
Naphthalene	µg/L	NS	NS	0.5 U
1,2,3-Trichlorobenzene	µg/L	NS	NS	0.5 U
Xylene (total)	µg/L	NS	NS	0.5 U

SENECA ARMY DEPOT, ASH LANDFILL
GROUNDWATER ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

		PHASE I	PHASE I	PHASE II
	MATRIX	WATER	WATER	WATER
	LOCATION	MW-33	MW-33	MW33
	DATE	02/03/92 CK	01/16/92	07/10/93
	ES ID	MW-33	MW-33Filtered	MW33
	LAB ID	153416	152670	186721
COMPOUND	UNITS			
SEMIVOLATILES				
Phenol	µg/L	NS	NS	NS
bis(2-Chloroethyl) ether	µg/L	NS	NS	NS
2-Chlorophenol	µg/L	NS	NS	NS
1,3-Dichlorobenzene	µg/L	NS	NS	NS
1,4-Dichlorobenzene	µg/L	NS	NS	NS
Benzyl Alcohol	µg/L	NS	NS	NS
1,2-Dichlorobenzene	µg/L	NS	NS	NS
2-Methylphenol	µg/L	NS	NS	NS
bis(2-Chloroisopropyl) ether	µg/L	NS	NS	NS
4-Methylphenol	µg/L	NS	NS	NS
N-Nitroso-di-n-propylamine	µg/L	NS	NS	NS
Hexachloroethane	µg/L	NS	NS	NS
Nitrobenzene	µg/L	NS	NS	NS
Isophorone	µg/L	NS	NS	NS
2-Nitrophenol	µg/L	NS	NS	NS
2,4-Dimethylphenol	µg/L	NS	NS	NS
Benzoic acid	µg/L	NS	NS	NS
bis(2-Chloroethoxy) methane	µg/L	NS	NS	NS
2,4-Dichlorophenol	µg/L	NS	NS	NS
1,2,4-Trichlorobenzene	µg/L	NS	NS	NS
Naphthalene	µg/L	NS	NS	NS
4-Chloroaniline	µg/L	NS	NS	NS
Hexachlorobutadiene	µg/L	NS	NS	NS
4-Chloro-3-methylphenol	µg/L	NS	NS	NS
2-Methylnaphthalene	µg/L	NS	NS	NS
Hexachlorocyclopentadiene	µg/L	NS	NS	NS
2,4,6-Trichlorophenol	µg/L	NS	NS	NS
2,4,5-Trichlorophenol	µg/L	NS	NS	NS
2-Chloronaphthalene	µg/L	NS	NS	NS
2-Nitroaniline	µg/L	NS	NS	NS
Dimethylphthalate	µg/L	NS	NS	NS
Acenaphthylene	µg/L	NS	NS	NS
2,6-Dinitrotoluene	µg/L	NS	NS	NS
3-Nitroaniline	µg/L	NS	NS	NS
Acenaphthene	µg/L	NS	NS	NS
2,4-Dinitrophenol	µg/L	NS	NS	NS
4-Nitrophenol	µg/L	NS	NS	NS
Dibenzofuran	µg/L	NS	NS	NS
2,4-Dinitrotoluene	µg/L	NS	NS	NS
Diethylphthalate	µg/L	NS	NS	NS
4-Chlorophenyl-phenylether	µg/L	NS	NS	NS
Fluorene	µg/L	NS	NS	NS
4-Nitroaniline	µg/L	NS	NS	NS
4,6-Dinitro-2-methylphenol	µg/L	NS	NS	NS
N-Nitrosodiphenylamine (1)	µg/L	NS	NS	NS
4-Bromophenyl-phenylether	µg/L	NS	NS	NS
Hexachlorobenzene	µg/L	NS	NS	NS
Pentachlorophenol	µg/L	NS	NS	NS
Phenanthrene	µg/L	NS	NS	NS
Anthracene	µg/L	NS	NS	NS
Carbazole	µg/L	NS	NS	NS
Di-n-butylphthalate	µg/L	NS	NS	NS
Fluoranthene	µg/L	NS	NS	NS
Pyrene	µg/L	NS	NS	NS
Butylbenzylphthalate	µg/L	NS	NS	NS
3,3'-Dichlorobenzidine	µg/L	NS	NS	NS
Benzo(a)anthracene	µg/L	NS	NS	NS
Chrysene	µg/L	NS	NS	NS
bis(2-Ethylhexyl)phthalate	µg/L	NS	NS	NS
Di-n-octylphthalate	µg/L	NS	NS	NS
Benzo(b)fluoranthene	µg/L	NS	NS	NS
Benzo(k)fluoranthene	µg/L	NS	NS	NS
Benzo(a)pyrene	µg/L	NS	NS	NS
Indeno(1,2,3-cd)pyrene	µg/L	NS	NS	NS
Dibenz(a,h)anthracene	µg/L	NS	NS	NS
Benzo(g,h,i)perylene	µg/L	NS	NS	NS

SENECA ARMY DEPOT, ASH LAND FILL
GROUNDWATER ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

		PHASE I	PHASE I	PHASE II
	MATRIX	WATER	WATER	WATER
	LOCATION	MW-33	MW-33	MW33
	DATE	02/03/92 CK	01/16/92	07/10/93
	ES ID	MW-33	MW-33Filtered	MW33
	LAB ID	153416	152670	188721
COMPOUND	UNITS			
VOC's				
alpha-BHC	µg/L	NS	NS	NS
beta-BHC	µg/L	NS	NS	NS
delta-BHC	µg/L	NS	NS	NS
gamma-BHC (Lindane)	µg/L	NS	NS	NS
Heptachlor	µg/L	NS	NS	NS
Aldrin	µg/L	NS	NS	NS
Heptachlor epoxide	µg/L	NS	NS	NS
Endosulfan I	µg/L	NS	NS	NS
Dieldrin	µg/L	NS	NS	NS
4,4'-DDE	µg/L	NS	NS	NS
Endrin	µg/L	NS	NS	NS
Endosulfan II	µg/L	NS	NS	NS
4,4'-DDD	µg/L	NS	NS	NS
Endosulfan sulfate	µg/L	NS	NS	NS
4,4'-DDT	µg/L	NS	NS	NS
Methoxychlor	µg/L	NS	NS	NS
Endrin ketone	µg/L	NS	NS	NS
Endrin aldehyde	µg/L	NS	NS	NS
alpha-Chlordane	µg/L	NS	NS	NS
gamma-Chlordane	µg/L	NS	NS	NS
Toxaphene	µg/L	NS	NS	NS
Aroclor-1016	µg/L	NS	NS	NS
Aroclor-1221	µg/L	NS	NS	NS
Aroclor-1232	µg/L	NS	NS	NS
Aroclor-1242	µg/L	NS	NS	NS
Aroclor-1248	µg/L	NS	NS	NS
Aroclor-1254	µg/L	NS	NS	NS
Aroclor-1260	µg/L	NS	NS	NS
HERBICIDES				
2,4-D	µg/L	NS	NS	NS
2,4-DB	µg/L	NS	NS	NS
2,4,5-T	µg/L	NS	NS	NS
2,4,5-TP (Silvex)	µg/L	NS	NS	NS
Dalapon	µg/L	NS	NS	NS
Dicamba	µg/L	NS	NS	NS
Dichloroprop	µg/L	NS	NS	NS
Dinoseb	µg/L	NS	NS	NS
MCPA	µg/L	NS	NS	NS
MCPP	µg/L	NS	NS	NS
METALS				
Aluminum	µg/L	NS	24.5 U	NS
Antimony	µg/L	NS	53.1 U	NS
Arsenic	µg/L	NS	3.5 U	NS
Barium	µg/L	NS	82.7 R	NS
Beryllium	µg/L	NS	1.1 U	NS
Cadmium	µg/L	NS	3 U	NS
Calcium	µg/L	NS	95600	NS
Chromium	µg/L	NS	6.2 U	NS
Cobalt	µg/L	NS	20.4 U	NS
Copper	µg/L	NS	10.1 U	NS
Iron	µg/L	NS	7 U	NS
Lead	µg/L	NS	1.2 U	NS
Magnesium	µg/L	NS	9960	NS
Manganese	µg/L	NS	4.8 U	NS
Mercury	µg/L	NS	0.03 U	NS
Nickel	µg/L	NS	14.7 U	NS
Potassium	µg/L	NS	258 U	NS
Selenium	µg/L	NS	1 U	NS
Silver	µg/L	NS	3.4 U	NS
Sodium	µg/L	NS	14700	NS
Thallium	µg/L	NS	3.2 U	NS
Vanadium	µg/L	NS	9.4 U	NS
Zinc	µg/L	NS	21.2 R	NS
Cyanide	µg/L	NS	NS	NS

SENECA ARMY DEPOT, ASH LANDFILL
GROUNDWATER ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

	MATRIX	PHASE I WATER	PHASE I WATER	PHASE I WATER	PHASE I WATER	PHASE II WATER	PHASE I WATER	PHASE I WATER
	LOCATION	MW-34	MW-34	MW-34	MW-34	MW34	MW-35D	MW-35D
	DATE	01/10/92	01/10/92	01/10/92	01/10/92	08/24/93	01/14/92	01/14/92
	ES ID	MW-34	MW-34Filtered	PT-1(I)	PT-1(I)Filt	MW34	MW-35D	MW-35DFI
	LAB ID	152257	152290	152259	152292	187340	152503	152508
COMPOUND	UNITS							
Chloromethane	ug/L	10 U	NS	10 U	NS	NS	10 U	NS
Bromomethane	ug/L	10 U	NS	10 U	NS	NS	10 U	NS
Vinyl Chloride	ug/L	10 U	NS	10 U	NS	NS	10 U	NS
Chloroethane	ug/L	10 U	NS	10 U	NS	NS	10 U	NS
Methylene Chloride	ug/L	5 U	NS	5 U	NS	NS	5 U	NS
Acetone	ug/L	10 U	NS	10 U	NS	NS	10 U	NS
Carbon Disulfide	ug/L	5 U	NS	5 U	NS	NS	5 U	NS
1,1-Dichloroethene	ug/L	5 U	NS	5 U	NS	NS	5 U	NS
1,1-Dichloroethane	ug/L	5 U	NS	5 U	NS	NS	5 U	NS
1,2-Dichloroethene (total)	ug/L	5 U	NS	5 U	NS	NS	5 U	NS
Chloroform	ug/L	5 U	NS	5 U	NS	NS	5 U	NS
1,2-Dichloroethane	ug/L	5 U	NS	5 U	NS	NS	5 U	NS
2-Butanone	ug/L	10 U	NS	10 U	NS	NS	10 U	NS
1,1,1-Trichloroethane	ug/L	5 U	NS	5 U	NS	NS	5 U	NS
Carbon Tetrachloride	ug/L	5 U	NS	5 U	NS	NS	5 U	NS
Vinyl Acetate	ug/L	10 U	NS	10 U	NS	NS	10 U	NS
Bromodichloromethane	ug/L	5 U	NS	5 U	NS	NS	5 U	NS
1,2-Dichloropropane	ug/L	5 U	NS	5 U	NS	NS	5 U	NS
cis-1,3-Dichloropropene	ug/L	5 U	NS	5 U	NS	NS	5 U	NS
Trichloroethene	ug/L	5 U	NS	5 U	NS	NS	5 U	NS
Dibromochloromethane	ug/L	5 U	NS	5 U	NS	NS	5 U	NS
1,1,2-Trichloroethane	ug/L	5 U	NS	5 U	NS	NS	5 U	NS
Benzene	ug/L	5 U	NS	5 U	NS	NS	5 U	NS
trans-1,3-Dichloropropene	ug/L	5 U	NS	5 U	NS	NS	5 U	NS
Bromoform	ug/L	5 U	NS	5 U	NS	NS	5 U	NS
4-Methyl-2-Pentanone	ug/L	10 U	NS	10 U	NS	NS	10 U	NS
2-Hexanone	ug/L	10 U	NS	10 U	NS	NS	10 U	NS
Tetrachloroethene	ug/L	5 U	NS	5 U	NS	NS	5 U	NS
1,1,2,2-Tetrachloroethane	ug/L	5 U	NS	5 U	NS	NS	5 U	NS
Toluene	ug/L	5 U	NS	5 U	NS	NS	5 U	NS
Chlorobenzene	ug/L	5 U	NS	5 U	NS	NS	5 U	NS
Ethylbenzene	ug/L	5 U	NS	5 U	NS	NS	5 U	NS
Styrene	ug/L	5 U	NS	5 U	NS	NS	5 U	NS
Xylene (total)	ug/L	5 U	NS	5 U	NS	NS	5 U	NS

SENECA ARMY DEPOT, ASH LANDFILL
GROUNDWATER ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

COMPOUND	MATRIX LOCATION DATE ES ID LAB ID UNITS	PHASE I WATER MW-34 01/10/92 MW-34 152257	PHASE I WATER MW-34 01/10/92 MW-34Filtered 152290	PHASE I WATER MW-34 01/10/92 PT-1(1) 152259	PHASE I WATER MW-34 01/10/92 PT-1(1)Filt 152292	PHASE II WATER MW34 08/24/93 MW34 187340	PHASE I WATER MW-35D 01/14/92 MW-35D 152503	PHASE I WATER MW-35D 01/14/92 MW-35DFil 152508
VOC's (624.2)								
Dichlorodifluoromethane	ug/L	NS	NS	NS	NS	0.5 U	NS	NS
Chloromethane	ug/L	NS	NS	NS	NS	0.5 U	NS	NS
Vinyl Chloride	ug/L	NS	NS	NS	NS	0.5 U	NS	NS
Bromomethane	ug/L	NS	NS	NS	NS	0.5 U	NS	NS
Chloroethane	ug/L	NS	NS	NS	NS	0.5 U	NS	NS
Trichlorofluoromethane	ug/L	NS	NS	NS	NS	0.5 U	NS	NS
1,1-Dichloroethene	ug/L	NS	NS	NS	NS	0.5 U	NS	NS
Acetone	ug/L	NS	NS	NS	NS	5 U	NS	NS
Carbon Disulfide	ug/L	NS	NS	NS	NS	0.5 U	NS	NS
Methylene Chloride	ug/L	NS	NS	NS	NS	0.5 U	NS	NS
trans-1,2-Dichloroethene	ug/L	NS	NS	NS	NS	0.5 U	NS	NS
1,1-Dichloroethane	ug/L	NS	NS	NS	NS	0.5 U	NS	NS
2,2-Dichloropropane	ug/L	NS	NS	NS	NS	0.5 U	NS	NS
cis-1,2-Dichloroethene	ug/L	NS	NS	NS	NS	0.5 U	NS	NS
2-Butanone	ug/L	NS	NS	NS	NS	5 U	NS	NS
Bromochloromethane	ug/L	NS	NS	NS	NS	0.5 U	NS	NS
Chloroform	ug/L	NS	NS	NS	NS	0.5 U	NS	NS
1,1,1-Trichloroethane	ug/L	NS	NS	NS	NS	0.5 U	NS	NS
Carbon Tetrachloride	ug/L	NS	NS	NS	NS	0.5 U	NS	NS
1,1-Dichloropropene	ug/L	NS	NS	NS	NS	0.5 U	NS	NS
Benzene	ug/L	NS	NS	NS	NS	0.5 U	NS	NS
1,2-Dichloroethane	ug/L	NS	NS	NS	NS	0.5 U	NS	NS
Trichloroethene	ug/L	NS	NS	NS	NS	0.5 U	NS	NS
1,2-Dichloropropane	ug/L	NS	NS	NS	NS	0.5 U	NS	NS
Dibromomethane	ug/L	NS	NS	NS	NS	0.5 U	NS	NS
Bromodichloromethane	ug/L	NS	NS	NS	NS	0.5 U	NS	NS
cis-1,3-Dichloropropene	ug/L	NS	NS	NS	NS	0.5 U	NS	NS
4-Methyl-2-Pentanone	ug/L	NS	NS	NS	NS	5 U	NS	NS
Toluene	ug/L	NS	NS	NS	NS	0.5 U	NS	NS
trans-1,3-Dichloropropene	ug/L	NS	NS	NS	NS	0.5 U	NS	NS
1,1,2-Trichloroethane	ug/L	NS	NS	NS	NS	0.5 U	NS	NS
Tetrachloroethene	ug/L	NS	NS	NS	NS	0.5 U	NS	NS
1,3-Dichloropropane	ug/L	NS	NS	NS	NS	0.5 U	NS	NS
2-Hexanone	ug/L	NS	NS	NS	NS	5 U	NS	NS
Dibromochloromethane	ug/L	NS	NS	NS	NS	0.5 U	NS	NS
1,2-Dibromoethane	ug/L	NS	NS	NS	NS	0.5 U	NS	NS
Chlorobenzene	ug/L	NS	NS	NS	NS	0.5 U	NS	NS
1,1,1,2-Tetrachloroethane	ug/L	NS	NS	NS	NS	0.5 U	NS	NS
Ethylbenzene	ug/L	NS	NS	NS	NS	0.5 U	NS	NS
Styrene	ug/L	NS	NS	NS	NS	0.5 U	NS	NS
Bromoform	ug/L	NS	NS	NS	NS	0.5 U	NS	NS
Isopropylbenzene	ug/L	NS	NS	NS	NS	0.5 U	NS	NS
Bromobenzene	ug/L	NS	NS	NS	NS	0.5 U	NS	NS
1,1,2,2-Tetrachloroethane	ug/L	NS	NS	NS	NS	0.5 U	NS	NS
1,2,3-Trichloropropane	ug/L	NS	NS	NS	NS	0.5 U	NS	NS
n-Propylbenzene	ug/L	NS	NS	NS	NS	0.5 U	NS	NS
2-Chlorotoluene	ug/L	NS	NS	NS	NS	0.5 U	NS	NS
4-Chlorotoluene	ug/L	NS	NS	NS	NS	0.5 U	NS	NS
1,3,5-Trimethylbenzene	ug/L	NS	NS	NS	NS	0.5 U	NS	NS
tert-Butylbenzene	ug/L	NS	NS	NS	NS	0.5 U	NS	NS
1,2,4-Trimethylbenzene	ug/L	NS	NS	NS	NS	0.5 U	NS	NS
sec-Butylbenzene	ug/L	NS	NS	NS	NS	0.5 U	NS	NS
1,3-Dichlorobenzene	ug/L	NS	NS	NS	NS	0.5 U	NS	NS
1,4-Dichlorobenzene	ug/L	NS	NS	NS	NS	0.5 U	NS	NS
p-Isopropyltoluene	ug/L	NS	NS	NS	NS	0.5 U	NS	NS
1,2-Dichlorobenzene	ug/L	NS	NS	NS	NS	0.5 U	NS	NS
n-Butylbenzene	ug/L	NS	NS	NS	NS	0.5 U	NS	NS
1,2-Dibromo-3-Chloropropane	ug/L	NS	NS	NS	NS	0.5 U	NS	NS
1,2,4-Trichlorobenzene	ug/L	NS	NS	NS	NS	0.5 U	NS	NS
Hexachlorobutadiene	ug/L	NS	NS	NS	NS	0.5 U	NS	NS
Naphthalene	ug/L	NS	NS	NS	NS	0.5 U	NS	NS
1,2,3-Trichlorobenzene	ug/L	NS	NS	NS	NS	0.5 U	NS	NS
Xylene (total)	ug/L	NS	NS	NS	NS	0.5 U	NS	NS

SENECA ARMY DEPOT, ASH LANDFILL
GROUNDWATER ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

	MATRIX	PHASE I WATER	PHASE I WATER	PHASE I WATER	PHASE I WATER	PHASE II WATER	PHASE I WATER	PHASE I WATER
	LOCATION	MW-34	MW-34	MW-34	MW-34	MW34	MW-35D	MW-35D
	DATE	01/10/92	01/10/92	01/10/92	01/10/92	06/24/93	01/14/92	01/14/92
	ES ID	MW-34	MW-34Filtered	PT-1(1)	PT-1(1)Filt	MW34	MW-35D	MW-35DFI
	LAB ID	152257	152290	152259	152292	187340	152503	152508
COMPOUND	UNITS							
SEMIVOLATILES								
Phenol	ug/L	11 U	NS	NS	NS	10 U	10 U	NS
bis(2-Chloroethyl) ether	ug/L	11 U	NS	NS	NS	10 U	10 U	NS
2-Chlorophenol	ug/L	11 U	NS	NS	NS	10 U	10 U	NS
1,3-Dichlorobenzene	ug/L	11 U	NS	NS	NS	10 U	10 U	NS
1,4-Dichlorobenzene	ug/L	11 U	NS	NS	NS	10 U	10 U	NS
Benzyl Alcohol	ug/L	11 U	NS	NS	NS	NS	10 U	NS
1,2-Dichlorobenzene	ug/L	11 U	NS	NS	NS	10 U	10 U	NS
2-Methylphenol	ug/L	11 U	NS	NS	NS	10 U	10 U	NS
bis(2-Chloroisopropyl) ether	ug/L	11 U	NS	NS	NS	10 U	10 U	NS
4-Methylphenol	ug/L	11 U	NS	NS	NS	10 U	10 U	NS
N-Nitroso-di-n-propylamine	ug/L	11 U	NS	NS	NS	10 U	10 U	NS
Hexachloroethane	ug/L	11 U	NS	NS	NS	10 U	10 U	NS
Nitrobenzene	ug/L	11 U	NS	NS	NS	10 U	10 U	NS
Isophorone	ug/L	11 U	NS	NS	NS	10 U	10 U	NS
2-Nitrophenol	ug/L	11 U	NS	NS	NS	10 U	10 U	NS
2,4-Dimethylphenol	ug/L	11 U	NS	NS	NS	10 U	10 U	NS
Benzoic acid	ug/L	54 U	NS	NS	NS	NS	50 U	NS
bis(2-Chloroethoxy) methane	ug/L	11 U	NS	NS	NS	10 U	10 U	NS
2,4-Dichlorophenol	ug/L	11 U	NS	NS	NS	10 U	10 U	NS
1,2,4-Trichlorobenzene	ug/L	11 U	NS	NS	NS	10 U	10 U	NS
Naphthalene	ug/L	11 U	NS	NS	NS	10 U	10 U	NS
4-Chloroaniline	ug/L	11 U	NS	NS	NS	10 U	10 U	NS
Hexachlorobutadiene	ug/L	11 U	NS	NS	NS	10 U	10 U	NS
4-Chloro-3-methylphenol	ug/L	11 U	NS	NS	NS	10 U	10 U	NS
2-Methylnaphthalene	ug/L	11 U	NS	NS	NS	10 U	10 U	NS
Hexachlorocyclopentadiene	ug/L	11 U	NS	NS	NS	10 U	10 U	NS
2,4,6-Trichlorophenol	ug/L	11 U	NS	NS	NS	10 U	10 U	NS
2,4,5-Trichlorophenol	ug/L	54 U	NS	NS	NS	25 U	50 U	NS
2-Chloronaphthalene	ug/L	11 U	NS	NS	NS	10 U	10 U	NS
2-Nitroaniline	ug/L	54 U	NS	NS	NS	25 U	50 U	NS
Dimethylphthalate	ug/L	11 U	NS	NS	NS	10 U	10 U	NS
Acenaphthylene	ug/L	11 U	NS	NS	NS	10 U	10 U	NS
2,6-Dinitrotoluene	ug/L	11 U	NS	NS	NS	10 U	10 U	NS
3-Nitroaniline	ug/L	54 U	NS	54 U	NS	25 U	50 U	NS
Acenaphthene	ug/L	11 U	NS	11 U	NS	10 U	10 U	NS
2,4-Dinitrophenol	ug/L	54 U	NS	54 U	NS	25 U	50 U	NS
4-Nitrophenol	ug/L	54 U	NS	54 U	NS	25 U	50 U	NS
Dibenzofuran	ug/L	11 U	NS	11 U	NS	10 U	10 U	NS
2,4-Dinitrotoluene	ug/L	11 U	NS	11 U	NS	10 U	10 U	NS
Diethylphthalate	ug/L	11 U	NS	11 U	NS	10 U	10 U	NS
4-Chlorophenyl-phenylether	ug/L	11 U	NS	11 U	NS	10 U	10 U	NS
Fluorene	ug/L	11 U	NS	11 U	NS	10 U	10 U	NS
4-Nitroaniline	ug/L	54 U	NS	54 U	NS	25 U	50 U	NS
4,6-Dinitro-2-methylphenol	ug/L	54 U	NS	54 U	NS	25 U	50 U	NS
N-Nitrosodiphenylamine (1)	ug/L	11 U	NS	11 U	NS	10 U	10 U	NS
4-Bromophenyl-phenylether	ug/L	11 U	NS	11 U	NS	10 U	10 U	NS
Hexachlorobenzene	ug/L	11 U	NS	11 U	NS	10 U	10 U	NS
Pentachlorophenol	ug/L	54 U	NS	54 U	NS	25 U	50 U	NS
Phenanthrene	ug/L	11 U	NS	11 U	NS	10 U	10 U	NS
Anthracene	ug/L	11 U	NS	11 U	NS	10 U	10 U	NS
Carbazole	ug/L	NS	NS	NS	NS	10 U	NS	NS
Di-n-butylphthalate	ug/L	11 U	NS	11 U	NS	10 U	10 U	NS
Fluoranthene	ug/L	11 U	NS	11 U	NS	10 U	10 U	NS
Pyrene	ug/L	11 U	NS	11 U	NS	10 U	10 U	NS
Butylbenzylphthalate	ug/L	11 U	NS	11 U	NS	10 U	10 U	NS
3,3'-Dichlorobenzidine	ug/L	21 U	NS	22 U	NS	10 U	20 U	NS
Benzo(a)anthracene	ug/L	11 U	NS	11 U	NS	10 U	10 U	NS
Chrysene	ug/L	11 U	NS	11 U	NS	10 U	10 U	NS
bis(2-Ethylhexyl)phthalate	ug/L	11 U	NS	11 U	NS	12 U	10 U	NS
Di-n-octylphthalate	ug/L	11 U	NS	11 U	NS	10 U	10 U	NS
Benzo(b)fluoranthene	ug/L	11 U	NS	11 U	NS	10 U	10 U	NS
Benzo(k)fluoranthene	ug/L	11 U	NS	11 U	NS	10 U	10 U	NS
Benzo(a)pyrene	ug/L	11 U	NS	11 U	NS	10 U	10 U	NS
Indeno(1,2,3-cd)pyrene	ug/L	11 U	NS	11 U	NS	10 U	10 U	NS
Dibenz(a,h)anthracene	ug/L	11 U	NS	11 U	NS	10 U	10 U	NS
Benzo(g,h,i)perylene	ug/L	11 U	NS	11 U	NS	10 U	10 U	NS

SENECA ARMY DEPOT, ASH LANDFILL
GROUNDWATER ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

COMPOUND	MATRIX	PHASE I	PHASE I	PHASE I	PHASE I	PHASE II	PHASE I	PHASE I
	LOCATION	WATER	WATER	WATER	WATER	WATER	WATER	WATER
	DATE	MW-34	MW-34	MW-34	MW-34	MW34	MW-35D	MW-35D
	ES ID	01/10/92	01/10/92	01/10/92	01/10/92	06/24/93	01/14/92	01/14/92
	LAB ID	MW-34	MW-34Filtered	PT-1(1)	PT-1(1)Filte	MW34	MW-35D	MW-35DFIl
	UNITS	152257	152290	152259	152292	187340	152503	152508
PESTICIDES/PCBS								
alpha-BHC	ug/L	0.057 U	NS	NS	NS	0.05 U	0.05 U	NS
beta-BHC	ug/L	0.057 U	NS	NS	NS	0.05 U	0.05 U	NS
delta-BHC	ug/L	0.057 U	NS	NS	NS	0.05 U	0.05 U	NS
gamma-BHC (Lindane)	ug/L	0.057 U	NS	NS	NS	0.05 U	0.05 U	NS
Heptachlor	ug/L	0.057 U	NS	NS	NS	0.05 U	0.05 U	NS
Aldrin	ug/L	0.057 U	NS	NS	NS	0.05 U	0.05 U	NS
Heptachlor epoxide	ug/L	0.057 U	NS	NS	NS	0.05 U	0.05 U	NS
Endosulfan I	ug/L	0.057 U	NS	NS	NS	0.05 U	0.05 U	NS
Dieldrin	ug/L	0.11 U	NS	NS	NS	0.1 U	0.12 U	NS
4,4'-DDE	ug/L	0.11 U	NS	NS	NS	0.1 U	0.12 U	NS
Endrin	ug/L	0.11 U	NS	NS	NS	0.1 U	0.12 U	NS
Endosulfan II	ug/L	0.11 U	NS	NS	NS	0.1 U	0.12 U	NS
4,4'-DDD	ug/L	0.11 U	NS	NS	NS	0.1 U	0.12 U	NS
Endosulfan sulfate	ug/L	0.11 U	NS	NS	NS	0.1 U	0.12 U	NS
4,4'-DDT	ug/L	0.11 U	NS	NS	NS	0.1 U	0.12 U	NS
Methoxychlor	ug/L	0.57 U	NS	NS	NS	0.5 U	0.6 U	NS
Endrin ketone	ug/L	0.11 U	NS	NS	NS	0.1 U	0.12 U	NS
Endrin aldehyde	ug/L	NS	NS	NS	NS	0.1 U	NS	NS
alpha-Chlordane	ug/L	0.57 U	NS	NS	NS	0.05 U	0.6 U	NS
gamma-Chlordane	ug/L	0.57 U	NS	NS	NS	0.05 U	0.6 U	NS
Toxaphene	ug/L	1.1 U	NS	NS	NS	5 U	1.2 U	NS
Aroclor-1016	ug/L	0.57 U	NS	NS	NS	1 U	0.6 U	NS
Aroclor-1221	ug/L	0.57 U	NS	NS	NS	2 U	0.6 U	NS
Aroclor-1232	ug/L	0.57 U	NS	NS	NS	1 U	0.6 U	NS
Aroclor-1242	ug/L	0.57 U	NS	NS	NS	1 U	0.6 U	NS
Aroclor-1248	ug/L	0.57 U	NS	NS	NS	1 U	0.6 U	NS
Aroclor-1254	ug/L	1.1 U	NS	NS	NS	1 U	1.2 U	NS
Aroclor-1260	ug/L	1.1 U	NS	NS	NS	1 U	1.2 U	NS
HERBICIDES								
2,4-D	ug/L	1 U	NS	1 U	NS	1 U	1.2 U	NS
2,4-DB	ug/L	1 U	NS	1 U	NS	1 U	1.2 U	NS
2,4,5-T	ug/L	0.1 U	NS	0.1 U	NS	0.1 U	0.1 U	NS
2,4,5-TP (Silvex)	ug/L	0.1 U	NS	0.1 U	NS	0.1 U	0.1 U	NS
Dalapon	ug/L	2.4 U	NS	2.3 U	NS	2.3 U	2.9 U	NS
Dicamba	ug/L	0.1 U	NS	0.1 U	NS	0.1 U	0.1 U	NS
Dichloroprop	ug/L	1 U	NS	1 U	NS	1 U	1.2 U	NS
Dinoseb	ug/L	0.5 U	NS	0.5 U	NS	0.5 U	0.6 U	NS
MCPA	ug/L	100 U	NS	100 U	NS	100 U	120 U	NS
MCPP	ug/L	100 U	NS	100 U	NS	100 U	120 U	NS
METALS								
Aluminum	ug/L	8250 J	24.4 U	7310 J	24.5 U	253	23200	24.5 U
Antimony	ug/L	55.9 U J	53 U	55.9 U J	53.2 U	49.6 UJ	53.2 U	53.1 U
Arsenic	ug/L	3.5 U	3.5 U	3.5 U	3.5 U	1.4 UJ	8.6 J	4.3 J
Barium	ug/L	225	51.9 R	191 J	45.7 R	82.5 J	316	104 J
Beryllium	ug/L	2.7 R	2.5 R	2.7 R	2.5 R	0.9 U	3.2 R	1.2 R
Cadmium	ug/L	2.9 U	3 U	2.9 U	3 U	2.6 U	5.4	3 U
Calcium	ug/L	352000 J	106000	268000 J	114000	122000	41100	14600
Chromium	ug/L	10.3	6.2 U	12	6.2 U	2.7 UJ	34.9	6.2 U
Cobalt	ug/L	20 U	20.3 U	20 U	20.4 U	5.5 U	20.4 U	20.4 U
Copper	ug/L	14.5 U	10.1 U	14.9 J	10.2 U	4.7 U	22.5 J	10.1 U
Iron	ug/L	10600 J	6.9 U	11300 J	7 U	395	33800	7 U
Lead	ug/L	8.2	1.2 U	7.4	1.2 U	0.79 U	5	1.2 U
Magnesium	ug/L	32100	20200	26300 J	20500	17400	13300	4590 J
Manganese	ug/L	2200	132	1680 J	127	135	662	110
Mercury	ug/L	0.16 R	0.11 R	0.14 R	0.1 R	0.09 UJ	0.1 R	0.12 R
Nickel	ug/L	17.6 J	14.7 U	16 J	14.7 U	7.5 UJ	49.7	14.7 U
Potassium	ug/L	5910	7980	9750	7210	1270 J	6230	2760 J
Selenium	ug/L	1 U	1 U	1 U	1 U	0.99 UJ	1.3 U	1 U
Silver	ug/L	9.1 U	4.3 R	9.1 U	3.4 U	5.5 U	3.4 U	3.4 U
Sodium	ug/L	24900 J	31200	36500 J	25100	18200	130000	110000
Thallium	ug/L	3.2 U	3.2 U	3.2 U	3.2 U	2.6 U	3.2 U	3.2 U
Vanadium	ug/L	30.5 U	9.4 U	30.5 U	9.5 U	6.8 UJ	32.7 J	9.4 U
Zinc	ug/L	51.9	8.4 U	47.6 R	8.5 U	13.1 R	72.7 R	8.5 U
Cyanide	ug/L	10 U J	NS	10 U J	NS	10 UJ	10 U	NS

SENECA ARMY DEPOT, ASH LANDFILL
GROUNDWATER ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

	MATRIX	PHASE II WATER	PHASE I WATER	PHASE I WATER	PHASE I WATER	PHASE II WATER	PHASE I WATER	PHASE I WATER
	LOCATION	MW35D	MW-36	MW-36	MW-36	MW36	MW-37	MW-37
	DATE	07/03/93	01/14/92	01/14/92	01/14/92	07/03/93	01/10/92	01/10/92
	ES ID	MW35D	MW-36	MW-36RE(4)	MW-36Filte	MW36	MW-37	MW-37
	LAB ID	188257	152504	152504	152509	188256	152646	152258
COMPOUND	UNITS							
Chloromethane	ug/L	NS	10 U	NS	NS	NS	10 U	NS
Bromomethane	ug/L	NS	10 U	NS	NS	NS	10 U	NS
Vinyl Chloride	ug/L	NS	10 U	NS	NS	NS	10 U	NS
Chloroethane	ug/L	NS	10 U	NS	NS	NS	10 U	NS
Methylene Chloride	ug/L	NS	5 U	NS	NS	NS	5 U	NS
Acetone	ug/L	NS	10 U	NS	NS	NS	10 U	NS
Carbon Disulfide	ug/L	NS	5 U	NS	NS	NS	5 U	NS
1,1-Dichloroethene	ug/L	NS	5 U	NS	NS	NS	5 U	NS
1,1-Dichloroethane	ug/L	NS	5 U	NS	NS	NS	5 U	NS
1,2-Dichloroethene (total)	ug/L	NS	5 U	NS	NS	NS	5 U	NS
Chloroform	ug/L	NS	5 U	NS	NS	NS	5 U	NS
1,2-Dichloroethane	ug/L	NS	5 U	NS	NS	NS	5 U	NS
2-Butanone	ug/L	NS	10 U	NS	NS	NS	10 U	NS
1,1,1-Trichloroethane	ug/L	NS	5 U	NS	NS	NS	5 U	NS
Carbon Tetrachloride	ug/L	NS	5 U	NS	NS	NS	5 U	NS
Vinyl Acetate	ug/L	NS	10 U	NS	NS	NS	10 U	NS
Bromodichloromethane	ug/L	NS	5 U	NS	NS	NS	5 U	NS
1,2-Dichloropropane	ug/L	NS	5 U	NS	NS	NS	5 U	NS
cis-1,3-Dichloropropene	ug/L	NS	5 U	NS	NS	NS	5 U	NS
Trichloroethene	ug/L	NS	5 U	NS	NS	NS	5 U	NS
Dibromochloromethane	ug/L	NS	5 U	NS	NS	NS	5 U	NS
1,1,2-Trichloroethane	ug/L	NS	5 U	NS	NS	NS	5 U	NS
Benzene	ug/L	NS	5 U	NS	NS	NS	5 U	NS
trans-1,3-Dichloropropene	ug/L	NS	5 U	NS	NS	NS	5 U	NS
Bromoform	ug/L	NS	5 U	NS	NS	NS	5 U	NS
4-Methyl-2-Pentanone	ug/L	NS	10 U	NS	NS	NS	10 U	NS
2-Hexanone	ug/L	NS	10 U	NS	NS	NS	10 U	NS
Tetrachloroethene	ug/L	NS	5 U	NS	NS	NS	5 U	NS
1,1,2,2-Tetrachloroethane	ug/L	NS	5 U	NS	NS	NS	5 U	NS
Toluene	ug/L	NS	5 U	NS	NS	NS	5 U	NS
Chlorobenzene	ug/L	NS	5 U	NS	NS	NS	5 U	NS
Ethylbenzene	ug/L	NS	5 U	NS	NS	NS	5 U	NS
Styrene	ug/L	NS	5 U	NS	NS	NS	5 U	NS
Xylene (total)	ug/L	NS	5 U	NS	NS	NS	5 U	NS

SENECA ARMY DEPOT, ASH LANDFILL
GROUNDWATER ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

COMPOUND	MATRIX LOCATION DATE ES ID LAB ID UNITS	PHASE II WATER MW35D 07/03/93 MW35D 188257	PHASE I WATER MW-36 01/14/92 MW-36 152504	PHASE I WATER MW-36 01/14/92 MW-36RE(4) 152504	PHASE I WATER MW-36 01/14/92 MW-36Filte 152509	PHASE II WATER MW36 07/03/93 MW36 188258	PHASE I WATER MW-37 01/10/92 MW-37 152646	PHASE I WATER MW-37 01/10/92 MW-37 152258
VOC's (524.2)								
Dichlorodifluoromethane	ug/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
Chloromethane	ug/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
Vinyl Chloride	ug/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
Bromomethane	ug/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
Chloroethane	ug/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
Trichlorofluoromethane	ug/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
1,1-Dichloroethene	ug/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
Acetone	ug/L	5 U	NS	NS	NS	5 U	NS	NS
Carbon Disulfide	ug/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
Methylene Chloride	ug/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
trans-1,2-Dichloroethene	ug/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
1,1-Dichloroethane	ug/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
2,2-Dichloropropane	ug/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
cis-1,2-Dichloroethene	ug/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
2-Butanone	ug/L	5 U	NS	NS	NS	5 U	NS	NS
Bromochloromethane	ug/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
Chloroform	ug/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
1,1,1-Trichloroethane	ug/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
Carbon Tetrachloride	ug/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
1,1-Dichloropropene	ug/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
Benzene	ug/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
1,2-Dichloroethane	ug/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
Trichloroethene	ug/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
1,2-Dichloropropane	ug/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
Dibromomethane	ug/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
Bromodichloromethane	ug/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
cis-1,3-Dichloropropene	ug/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
4-Methyl-2-Pentanone	ug/L	5 U	NS	NS	NS	5 U	NS	NS
Toluene	ug/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
trans-1,3-Dichloropropene	ug/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
1,1,2-Trichloroethane	ug/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
Tetrachloroethene	ug/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
1,3-Dichloropropane	ug/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
2-Hexanone	ug/L	5 U	NS	NS	NS	5 U	NS	NS
Dibromochloromethane	ug/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
1,2-Dibromoethane	ug/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
Chlorobenzene	ug/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
1,1,1,2-Tetrachloroethane	ug/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
Ethylbenzene	ug/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
Styrene	ug/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
Bromoform	ug/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
Isopropylbenzene	ug/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
Bromobenzene	ug/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
1,1,2,2-Tetrachloroethane	ug/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
1,2,3-Trichloropropane	ug/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
n-Propylbenzene	ug/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
2-Chlorotoluene	ug/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
4-Chlorotoluene	ug/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
1,3,5-Trimethylbenzene	ug/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
tert-Butylbenzene	ug/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
1,2,4-Trimethylbenzene	ug/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
sec-Butylbenzene	ug/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
1,3-Dichlorobenzene	ug/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
1,4-Dichlorobenzene	ug/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
p-Isopropyltoluene	ug/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
1,2-Dichlorobenzene	ug/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
n-Butylbenzene	ug/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
1,2-Dibromo-3-Chloropropane	ug/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
1,2,4-Trichlorobenzene	ug/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
Hexachlorobutadiene	ug/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
Naphthalene	ug/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
1,2,3-Trichlorobenzene	ug/L	0.5 U	NS	NS	NS	0.5 U	NS	NS
Xylene (total)	ug/L	0.5 U	NS	NS	NS	0.5 U	NS	NS

SENECA ARMY DEPOT, ASH LANDFILL
GROUNDWATER ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

COMPOUND	UNITS	PHASE II WATER MW35D 07/03/93 MW35D 188257	PHASE I WATER MW-36 01/14/92 MW-36 152504	PHASE I WATER MW-36 01/14/92 MW-36RE(4) 152504	PHASE I WATER MW-36 01/14/92 MW-36Filte 152509	PHASE II WATER MW36 07/03/93 MW36 188258	PHASE I WATER MW-37 01/10/92 MW-37 152646	PHASE I WATER MW-37 01/10/92 MW-37 152258
SEMIVOLATILES								
Phenol	ug/L	10 U	12 U	NS	NS	10 U	NS	11 U
bis(2-Chloroethyl) ether	ug/L	10 U	12 U	NS	NS	10 U	NS	11 U
2-Chlorophenol	ug/L	10 U	12 U	NS	NS	10 U	NS	11 U
1,3-Dichlorobenzene	ug/L	10 U	12 U	NS	NS	10 U	NS	11 U
1,4-Dichlorobenzene	ug/L	10 U	12 U	NS	NS	10 U	NS	11 U
Benzyl Alcohol	ug/L	NS	12 U	NS	NS	NS	NS	11 U
1,2-Dichlorobenzene	ug/L	10 U	12 U	NS	NS	10 U	NS	11 U
2-Methylphenol	ug/L	10 U	12 U	NS	NS	10 U	NS	11 U
bis(2-Chloroisopropyl) ether	ug/L	10 U	12 U	NS	NS	10 U	NS	11 U
4-Methylphenol	ug/L	10 U	12 U	NS	NS	10 U	NS	11 U
N-Nitroso-di-n-propylamine	ug/L	10 U	12 U	NS	NS	10 U	NS	11 U
Hexachloroethane	ug/L	10 U	12 U	NS	NS	10 U	NS	11 U
Nitrobenzene	ug/L	10 U	12 U	NS	NS	10 U	NS	11 U
Isophorone	ug/L	10 U	12 U	NS	NS	10 U	NS	11 U
2-Nitrophenol	ug/L	10 U	12 U	NS	NS	10 U	NS	11 U
2,4-Dimethylphenol	ug/L	10 U	12 U	NS	NS	10 U	NS	11 U
Benzoic acid	ug/L	NS	60 U	NS	NS	NS	NS	55 U
bis(2-Chloroethoxy) methane	ug/L	10 U	12 U	NS	NS	10 U	NS	11 U
2,4-Dichlorophenol	ug/L	10 U	12 U	NS	NS	10 U	NS	11 U
1,2,4-Trichlorobenzene	ug/L	10 U	12 U	NS	NS	10 U	NS	11 U
Naphthalene	ug/L	10 U	12 U	NS	NS	10 U	NS	11 U
4-Chloroaniline	ug/L	10 U	12 U	NS	NS	10 U	NS	11 U
Hexachlorobutadiene	ug/L	10 U	12 U	NS	NS	10 U	NS	11 U
4-Chloro-3-methylphenol	ug/L	10 U	12 U	NS	NS	10 U	NS	11 U
2-Methylnaphthalene	ug/L	10 U	12 U	NS	NS	10 U	NS	11 U
Hexachlorocyclopentadiene	ug/L	10 U	12 U	NS	NS	10 U	NS	11 U
2,4,6-Trichlorophenol	ug/L	10 U	12 U	NS	NS	10 U	NS	11 U
2,4,5-Trichlorophenol	ug/L	25 U	60 U	NS	NS	25 U	NS	55 U
2-Chloronaphthalene	ug/L	10 U	12 U	NS	NS	10 U	NS	11 U
2-Nitroaniline	ug/L	25 U	60 U	NS	NS	25 U	NS	55 U
Dimethylphthalate	ug/L	10 U	12 U	NS	NS	10 U	NS	11 U
Acenaphthylene	ug/L	10 U	12 U	NS	NS	10 U	NS	11 U
2,6-Dinitrotoluene	ug/L	10 U	12 U	NS	NS	10 U	NS	11 U
3-Nitroaniline	ug/L	25 U	60 U	NS	NS	25 U	NS	55 U
Acenaphthene	ug/L	10 U	12 U	NS	NS	10 U	NS	11 U
2,4-Dinitrophenol	ug/L	25 U	60 U	NS	NS	25 U	NS	55 U
4-Nitrophenol	ug/L	25 U	60 U	NS	NS	25 U	NS	55 U
Dibenzofuran	ug/L	10 U	12 U	NS	NS	10 U	NS	11 U
2,4-Dinitrotoluene	ug/L	10 U	12 U	NS	NS	10 U	NS	11 U
Diethylphthalate	ug/L	10 U	12 U	NS	NS	10 U	NS	11 U
4-Chlorophenyl-phenylether	ug/L	10 U	12 U	NS	NS	10 U	NS	11 U
Fluorene	ug/L	10 U	12 U	NS	NS	10 U	NS	11 U
4-Nitroaniline	ug/L	25 U	60 U	NS	NS	25 U	NS	55 U
4,6-Dinitro-2-methylphenol	ug/L	25 U	60 U	NS	NS	25 U	NS	55 U
N-Nitrosodiphenylamine (1)	ug/L	10 U	12 U	NS	NS	10 U	NS	11 U
4-Bromophenyl-phenylether	ug/L	10 U	12 U	NS	NS	10 U	NS	11 U
Hexachlorobenzene	ug/L	10 U	12 U	NS	NS	10 U	NS	11 U
Pentachlorophenol	ug/L	25 U	60 U	NS	NS	25 U	NS	55 U
Phenanthrene	ug/L	10 U	12 U	NS	NS	10 U	NS	11 U
Anthracene	ug/L	10 U	12 U	NS	NS	10 U	NS	11 U
Carbazole	ug/L	10 U	NS	NS	NS	10 U	NS	NS
Di-n-butylphthalate	ug/L	10 U	12 U	NS	NS	10 U	NS	11 U
Fluoranthene	ug/L	10 U	12 U	NS	NS	10 U	NS	11 U
Pyrene	ug/L	10 U	12 U	NS	NS	10 U	NS	11 U
Butylbenzylphthalate	ug/L	10 U	12 U	NS	NS	10 U	NS	11 U
3,3'-Dichlorobenzidine	ug/L	10 U	24 U	NS	NS	10 U	NS	22 U
Benzo(a)anthracene	ug/L	10 U	12 U	NS	NS	10 U	NS	11 U
Chrysene	ug/L	10 U	12 U	NS	NS	10 U	NS	11 U
bis(2-Ethylhexyl)phthalate	ug/L	71 B	12 U	NS	NS	10 U	NS	11 U
Di-n-octylphthalate	ug/L	10 U	12 U	NS	NS	10 U	NS	11 U
Benzo(b)fluoranthene	ug/L	10 U	12 U	NS	NS	10 U	NS	11 U
Benzo(k)fluoranthene	ug/L	10 U	12 U	NS	NS	10 U	NS	11 U
Benzo(a)pyrene	ug/L	10 U	12 U	NS	NS	10 U	NS	11 U
Indeno(1,2,3-cd)pyrene	ug/L	10 U	12 U	NS	NS	10 U	NS	11 U
Dibenz(a,h)anthracene	ug/L	10 U	12 U	NS	NS	10 U	NS	11 U
Benzo(g,h,i)perylene	ug/L	10 U	12 U	NS	NS	10 U	NS	11 U

SENECA ARMY DEPOT, ASH LANDFILL
GROUNDWATER ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

COMPOUND	MATRIX LOCATION DATE ES ID LAB ID UNITS	PHASE II WATER MW35D 07/03/93 MW35D 168257	PHASE I WATER MW-36 01/14/92 MW-36 152504	PHASE I WATER MW-36 01/14/92 MW-36RE(4) 152504	PHASE I WATER MW-36 01/14/92 MW-36Filte 152509	PHASE II WATER MW36 07/03/93 MW36 168258	PHASE I WATER MW-37 01/10/92 MW-37 152646	PHASE I WATER MW-37 01/10/92 MW-37 152258
PESTICIDES/PCBS								
alpha-BHC	ug/L	0.05 U	0.054 U J	0.052 U	NS	0.053 U	NS	0.061 U
beta-BHC	ug/L	0.05 U	0.054 U J	0.052 U	NS	0.053 U	NS	0.061 U
delta-BHC	ug/L	0.05 U	0.054 U J	0.052 U	NS	0.053 U	NS	0.061 U
gamma-BHC (Lindane)	ug/L	0.05 U	0.054 U J	0.052 U	NS	0.053 U	NS	0.061 U
Heptachlor	ug/L	0.05 U	0.054 U J	0.052 U	NS	0.053 U	NS	0.061 U
Aldrin	ug/L	0.05 U	0.054 U J	0.052 U	NS	0.053 U	NS	0.061 U
Heptachlor epoxide	ug/L	0.05 U	0.054 U J	0.052 U	NS	0.053 U	NS	0.061 U
Endosulfan I	ug/L	0.05 U	0.054 U J	0.052 U	NS	0.053 U	NS	0.061 U
Dieldrin	ug/L	0.1 U	0.11 U J	0.1 U	NS	0.11 U	NS	0.12 U
4,4'-DDE	ug/L	0.1 U	0.11 U J	0.1 U	NS	0.11 U	NS	0.12 U
Endrin	ug/L	0.1 U	0.11 U J	0.1 U	NS	0.11 U	NS	0.12 U
Endosulfan II	ug/L	0.1 U	0.11 U J	0.1 U	NS	0.11 U	NS	0.12 U
4,4'-DDD	ug/L	0.1 U	0.11 U J	0.1 U	NS	0.11 U	NS	0.12 U
Endosulfan sulfate	ug/L	0.1 U	0.11 U J	0.1 U	NS	0.11 U	NS	0.12 U
4,4'-DDT	ug/L	0.1 U	0.11 U J	0.1 U	NS	0.11 U	NS	0.12 U
Methoxychlor	ug/L	0.5 U	0.54 U J	0.52 U	NS	0.53 U	NS	0.61 U
Endrin ketone	ug/L	0.1 U	0.11 U J	0.1 U	NS	0.11 U	NS	0.12 U
Endrin aldehyde	ug/L	0.1 U	NS	NS	NS	0.11 U	NS	NS
alpha-Chlordane	ug/L	0.05 U	0.54 U J	0.52 U	NS	0.053 U	NS	0.61 U
gamma-Chlordane	ug/L	0.05 U	0.54 U J	0.52 U	NS	0.053 U	NS	0.61 U
Toxaphene	ug/L	5 U	1.1 U J	1 U	NS	5.3 U	NS	1.2 U
Aroclor-1016	ug/L	1 U	0.54 U J	0.52 U	NS	1.1 U	NS	0.61 U
Aroclor-1221	ug/L	2 U	0.54 U J	0.52 U	NS	2.1 U	NS	0.61 U
Aroclor-1232	ug/L	1 U	0.54 U J	0.52 U	NS	1.1 U	NS	0.61 U
Aroclor-1242	ug/L	1 U	0.54 U J	0.52 U	NS	1.1 U	NS	0.61 U
Aroclor-1248	ug/L	1 U	0.54 U J	0.52 U	NS	1.1 U	NS	0.61 U
Aroclor-1254	ug/L	1 U	1.1 U J	1 U	NS	1.1 U	NS	1.2 U
Aroclor-1260	ug/L	1 U	1.1 U J	1 U	NS	1.1 U	NS	1.2 U
HERBICIDES								
2,4-D	ug/L	1 U	1 U	NS	NS	1 U	NS	1 U
2,4-DB	ug/L	1 U	1 U	NS	NS	1 U	NS	1 U
2,4,5-T	ug/L	0.1 U	0.1 U	NS	NS	0.1 U	NS	0.1 U
2,4,5-TP (Silvex)	ug/L	0.1 U	0.1 U	NS	NS	0.1 U	NS	0.1 U
Dalapon	ug/L	2.3 U	2.4 U	NS	NS	2.3 U	NS	2.4 U
Dicamba	ug/L	0.1 U	0.1 U	NS	NS	0.1 U	NS	0.1 U
Dichloroprop	ug/L	1 U	1 U	NS	NS	1 U	NS	1 U
Dinoseb	ug/L	0.5 U	0.5 U	NS	NS	0.5 U	NS	0.5 U
MCPA	ug/L	100 U	100 U	NS	NS	100 U	NS	100 U
MCPP	ug/L	100 U	100 U	NS	NS	100 U	NS	100 U
METALS								
Aluminum	ug/L	72.2 U	15900	NS	24.4 U	1090	NS	19100
Antimony	ug/L	49.7 UJ	53.1 U	NS	52.9 U	49.7 UJ	NS	55.9 U J
Arsenic	ug/L	1.4 UJ	3.5 U	NS	3.5 U	1.4 UJ	NS	3.5 U
Barium	ug/L	108 J	167 J	NS	59.2 R	78.6 J	NS	329
Beryllium	ug/L	0.89 U	2.6 R	NS	1.4 R	0.9 U	NS	3.8 R
Cadmium	ug/L	2.8 U	3.6 J	NS	3 U	2.8 U	NS	2.9 U
Calcium	ug/L	28900	182000	NS	117000	135000	NS	279000 J
Chromium	ug/L	2.7 UJ	27.1	NS	6.1 U	2.7 UJ	NS	29.8
Cobalt	ug/L	5.5 U	20.4 U	NS	20.3 U	5.5 U	NS	28 J
Copper	ug/L	4.7 U	19.8 J	NS	10.1 U	4.7 U	NS	25.3
Iron	ug/L	40.9 J	29000	NS	6.9 U	1260	NS	27800
Lead	ug/L	0.8 U	5	NS	1.2 U	0.8 U	NS	8
Magnesium	ug/L	9220	31000	NS	17400	19300	NS	28600
Manganese	ug/L	61.8	658	NS	44.9	139	NS	2190
Mercury	ug/L	0.14 J	0.1 R	NS	0.11 R	0.09 UJ	NS	0.15 R
Nickel	ug/L	7.5 UJ	39.1 J	NS	14.7 U	7.5 UJ	NS	36.9 J
Potassium	ug/L	2590 J	3310 J	NS	1620 J	2110 J	NS	4470 J
Selenium	ug/L	1.5 UJ	1.3 U	NS	1 U	1.8 J	NS	1 U
Silver	ug/L	5.5 U	3.4 U	NS	3.4 U	5.5 U	NS	9.1 U
Sodium	ug/L	61500	21300	NS	19600	21300	NS	11900 J
Thallium	ug/L	2.8 U	3.2 U	NS	3.2 U	2.8 U	NS	3.2 U
Vanadium	ug/L	6.8 UJ	23.2 J	NS	9.4 U	6.8 UJ	NS	30.6 U
Zinc	ug/L	3.1 J	120	NS	8.4 U	9.3 J	NS	58.8
Cyanide	ug/L	10 UJ	10 U	NS	NS	10 UJ	NS	10 U J

SENECA ARMY DEPOT, ASH LANDFILL
GROUNDWATER ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

	MATRIX	PHASE I WATER	PHASE II WATER	PHASE I WATER	PHASE I WATER	PHASE II WATER	PHASE I WATER	PHASE I WATER
	LOCATION	MW-37	MW37	MW-38D	MW-38D	MW38D	MW-39	MW-39
	DATE	01/10/92	06/24/93	01/06/92	01/06/92	07/03/93	01/14/92	01/14/92
	ES ID	MW-37Filte	MW37	MW-38D	MW-38DFI	MW38D	MW-39	MW-39Filte
	LAB ID	152291	187342	152154	152197	188259	152505	152510
COMPOUND	UNITS							
Chloromethane	ug/L	NS	NS	10 U	NS	NS	10 U	NS
Bromomethane	ug/L	NS	NS	10 U	NS	NS	10 U	NS
Vinyl Chloride	ug/L	NS	NS	10 U	NS	NS	10 U	NS
Chloroethane	ug/L	NS	NS	10 U	NS	NS	10 U	NS
Methylene Chloride	ug/L	NS	NS	5 U	NS	NS	5 U	NS
Acetone	ug/L	NS	NS	10 U	NS	NS	10 U	NS
Carbon Disulfide	ug/L	NS	NS	5 U	NS	NS	5 U	NS
1,1-Dichloroethene	ug/L	NS	NS	5 U	NS	NS	5 U	NS
1,1-Dichloroethane	ug/L	NS	NS	5 U	NS	NS	5 U	NS
1,2-Dichloroethene (total)	ug/L	NS	NS	5 U	NS	NS	5 U	NS
Chloroform	ug/L	NS	NS	5 U	NS	NS	5 U	NS
1,2-Dichloroethane	ug/L	NS	NS	5 U	NS	NS	5 U	NS
2-Butanone	ug/L	NS	NS	10 U	NS	NS	10 U	NS
1,1,1-Trichloroethane	ug/L	NS	NS	5 U	NS	NS	5 U	NS
Carbon Tetrachloride	ug/L	NS	NS	5 U	NS	NS	5 U	NS
Vinyl Acetate	ug/L	NS	NS	10 U	NS	NS	10 U	NS
Bromodichloromethane	ug/L	NS	NS	5 U	NS	NS	5 U	NS
1,2-Dichloropropane	ug/L	NS	NS	5 U	NS	NS	5 U	NS
cis-1,3-Dichloropropene	ug/L	NS	NS	5 U	NS	NS	5 U	NS
Trichloroethene	ug/L	NS	NS	5 U	NS	NS	5 U	NS
Dibromochloromethane	ug/L	NS	NS	5 U	NS	NS	5 U	NS
1,1,2-Trichloroethane	ug/L	NS	NS	5 U	NS	NS	5 U	NS
Benzene	ug/L	NS	NS	5 U	NS	NS	5 U	NS
trans-1,3-Dichloropropene	ug/L	NS	NS	5 U	NS	NS	5 U	NS
Bromoform	ug/L	NS	NS	5 U	NS	NS	5 U	NS
4-Methyl-2-Pentanone	ug/L	NS	NS	10 U	NS	NS	10 U	NS
2-Hexanone	ug/L	NS	NS	10 U	NS	NS	10 U	NS
Tetrachloroethene	ug/L	NS	NS	5 U	NS	NS	5 U	NS
1,1,2,2-Tetrachloroethane	ug/L	NS	NS	5 U	NS	NS	5 U	NS
Toluene	ug/L	NS	NS	5 U	NS	NS	5 U	NS
Chlorobenzene	ug/L	NS	NS	5 U	NS	NS	5 U	NS
Ethylbenzene	ug/L	NS	NS	5 U	NS	NS	5 U	NS
Styrene	ug/L	NS	NS	5 U	NS	NS	5 U	NS
Xylene (total)	ug/L	NS	NS	5 U	NS	NS	5 U	NS

SENECA ARMY DEPOT, ASH LANDFILL
GROUNDWATER ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

COMPOUND	MATRIX LOCATION DATE ES ID LAB ID UNITS	PHASE I WATER MW-37 01/10/92 MW-37Filte 152291	PHASE II WATER MW37 08/24/93 MW37 187342	PHASE I WATER MW-38D 01/08/92 MW-38D 152154	PHASE I WATER MW-38D 01/08/92 MW-38DFil 152197	PHASE II WATER MW38D 07/03/93 MW38D 188259	PHASE I WATER MW-39 01/14/92 MW-39 152505	PHASE I WATER MW-39 01/14/92 MW-39Filte 152510
VOC's (524.2)								
Dichlorodifluoromethane	ug/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
Chloromethane	ug/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
Vinyl Chloride	ug/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
Bromomethane	ug/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
Chloroethane	ug/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
Trichlorofluoromethane	ug/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
1,1-Dichloroethene	ug/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
Acetone	ug/L	NS	5 U	NS	NS	5 U	NS	NS
Carbon Disulfide	ug/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
Methylene Chloride	ug/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
trans-1,2-Dichloroethene	ug/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
1,1-Dichloroethane	ug/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
2,2-Dichloropropane	ug/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
cis-1,2-Dichloroethene	ug/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
2-Butanone	ug/L	NS	5 U	NS	NS	5 U	NS	NS
Bromochloromethane	ug/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
Chloroform	ug/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
1,1,1-Trichloroethane	ug/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
Carbon Tetrachloride	ug/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
1,1-Dichloropropene	ug/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
Benzene	ug/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
1,2-Dichloroethane	ug/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
Trichloroethene	ug/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
1,2-Dichloropropane	ug/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
Dibromomethane	ug/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
Bromodichloromethane	ug/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
cis-1,3-Dichloropropene	ug/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
4-Methyl-2-Pentanone	ug/L	NS	5 U	NS	NS	5 U	NS	NS
Toluene	ug/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
trans-1,3-Dichloropropene	ug/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
1,1,2-Trichloroethane	ug/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
Tetrachloroethene	ug/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
1,3-Dichloropropane	ug/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
2-Hexanone	ug/L	NS	5 U	NS	NS	5 U	NS	NS
Dibromochloromethane	ug/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
1,2-Dibromoethane	ug/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
Chlorobenzene	ug/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
1,1,1,2-Tetrachloroethane	ug/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
Ethylbenzene	ug/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
Styrene	ug/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
Bromoform	ug/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
Isopropylbenzene	ug/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
Bromobenzene	ug/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
1,1,2,2-Tetrachloroethane	ug/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
1,2,3-Trichloropropane	ug/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
n-Propylbenzene	ug/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
2-Chlorotoluene	ug/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
4-Chlorotoluene	ug/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
1,3,5-Trimethylbenzene	ug/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
tert-Butylbenzene	ug/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
1,2,4-Trimethylbenzene	ug/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
sec-Butylbenzene	ug/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
1,3-Dichlorobenzene	ug/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
1,4-Dichlorobenzene	ug/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
p-Isopropyltoluene	ug/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
1,2-Dichlorobenzene	ug/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
n-Butylbenzene	ug/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
1,2-Dibromo-3-Chloropropane	ug/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
1,2,4-Trichlorobenzene	ug/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
Hexachlorobutadiene	ug/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
Naphthalene	ug/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
1,2,3-Trichlorobenzene	ug/L	NS	0.5 U	NS	NS	0.5 U	NS	NS
Xylene (total)	ug/L	NS	0.5 U	NS	NS	0.5 U	NS	NS

SENECA ARMY DEPOT, ASH LANDFILL
GROUNDWATER ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

	MATRIX	PHASE I WATER	PHASE II WATER	PHASE I WATER	PHASE I WATER	PHASE II WATER	PHASE I WATER	PHASE I WATER
	LOCATION	MW-37	MW37	MW-38D	MW-38D	MW38D	MW-39	MW-39
	DATE	01/10/92	08/24/93	01/06/92	01/06/92	07/03/93	01/14/92	01/14/92
	ES ID	MW-37Filte	MW37	MW-38D	MW-38DFil	MW38D	MW-39	MW-39Filte
	LAB ID	152291	187342	152154	152197	188259	152505	152510
COMPOUND	UNITS							
SEMIVOLATILES								
Phenol	ug/L	NS	10 U	12 U	NS	10 U	11 U	NS
bis(2-Chloroethyl) ether	ug/L	NS	10 U	12 U	NS	10 U	11 U	NS
2-Chlorophenol	ug/L	NS	10 U	12 U	NS	10 U	11 U	NS
1,3-Dichlorobenzene	ug/L	NS	10 U	12 U	NS	10 U	11 U	NS
1,4-Dichlorobenzene	ug/L	NS	10 U	12 U	NS	10 U	11 U	NS
Benzyl Alcohol	ug/L	NS	NS	12 U	NS	NS	11 U	NS
1,2-Dichlorobenzene	ug/L	NS	10 U	12 U	NS	10 U	11 U	NS
2-Methylphenol	ug/L	NS	10 U	12 U	NS	10 U	11 U	NS
bis(2-Chloroisopropyl) ether	ug/L	NS	10 U	12 U	NS	10 U	11 U	NS
4-Methylphenol	ug/L	NS	10 U	12 U	NS	10 U	11 U	NS
N-Nitroso-di-n-propylamine	ug/L	NS	10 U	12 U	NS	10 U	11 U	NS
Hexachloroethane	ug/L	NS	10 U	12 U	NS	10 U	11 U	NS
Nitrobenzene	ug/L	NS	10 U	12 U	NS	10 U	11 U	NS
Isophorone	ug/L	NS	10 U	12 U	NS	10 U	11 U	NS
2-Nitrophenol	ug/L	NS	10 U	12 U	NS	10 U	11 U	NS
2,4-Dimethylphenol	ug/L	NS	10 U	12 U	NS	10 U	11 U	NS
Benzoic acid	ug/L	NS	NS	60 U	NS	NS	56 U	NS
bis(2-Chloroethoxy) methane	ug/L	NS	10 U	12 U	NS	10 U	11 U	NS
2,4-Dichlorophenol	ug/L	NS	10 U	12 U	NS	10 U	11 U	NS
1,2,4-Trichlorobenzene	ug/L	NS	10 U	12 U	NS	10 U	11 U	NS
Naphthalene	ug/L	NS	10 U	12 U	NS	10 U	11 U	NS
4-Chloroaniline	ug/L	NS	10 U	12 U	NS	10 U	11 U	NS
Hexachlorobutadiene	ug/L	NS	10 U	12 U	NS	10 U	11 U	NS
4-Chloro-3-methylphenol	ug/L	NS	10 U	12 U	NS	10 U	11 U	NS
2-Methylnaphthalene	ug/L	NS	10 U	12 U	NS	10 U	11 U	NS
Hexachlorocyclopentadiene	ug/L	NS	10 U	12 U	NS	10 U	11 U	NS
2,4,6-Trichlorophenol	ug/L	NS	10 U	12 U	NS	10 U	11 U	NS
2,4,5-Trichlorophenol	ug/L	NS	25 U	60 U	NS	25 U	56 U	NS
2-Chloronaphthalene	ug/L	NS	10 U	12 U	NS	10 U	11 U	NS
2-Nitroaniline	ug/L	NS	25 U	60 U	NS	25 U	56 U	NS
Dimethylphthalate	ug/L	NS	10 U	12 U	NS	10 U	11 U	NS
Acenaphthylene	ug/L	NS	10 U	12 U	NS	10 U	11 U	NS
2,6-Dinitrotoluene	ug/L	NS	10 U	12 U	NS	10 U	11 U	NS
3-Nitroaniline	ug/L	NS	25 U	60 U	NS	25 U	56 U	NS
Acenaphthene	ug/L	NS	10 U	12 U	NS	10 U	11 U	NS
2,4-Dinitrophenol	ug/L	NS	25 U	60 U	NS	25 U	56 U	NS
4-Nitrophenol	ug/L	NS	25 U	60 U	NS	25 U	56 U	NS
Dibenzofuran	ug/L	NS	10 U	12 U	NS	10 U	11 U	NS
2,4-Dinitrotoluene	ug/L	NS	10 U	12 U	NS	10 U	11 U	NS
Diethylphthalate	ug/L	NS	10 U	12 U	NS	10 U	11 U	NS
4-Chlorophenyl-phenylether	ug/L	NS	10 U	12 U	NS	10 U	11 U	NS
Fluorene	ug/L	NS	10 U	12 U	NS	10 U	11 U	NS
4-Nitroaniline	ug/L	NS	25 U	60 U	NS	25 U	56 U	NS
4,6-Dinitro-2-methylphenol	ug/L	NS	25 U	60 U	NS	25 U	56 U	NS
N-Nitrosodiphenylamine (1)	ug/L	NS	10 U	12 U	NS	10 U	11 U	NS
4-Bromophenyl-phenylether	ug/L	NS	10 U	12 U	NS	10 U	11 U	NS
Hexachlorobenzene	ug/L	NS	10 U	12 U	NS	10 U	11 U	NS
Pentachlorophenol	ug/L	NS	25 U	60 U	NS	25 U	56 U	NS
Phenanthrene	ug/L	NS	10 U	12 U	NS	10 U	11 U	NS
Anthracene	ug/L	NS	10 U	12 U	NS	10 U	11 U	NS
Carbazole	ug/L	NS	10 U	NS	NS	10 U	NS	NS
Di-n-butylphthalate	ug/L	NS	10 U	12 U	NS	10 U	11 U	NS
Fluoranthene	ug/L	NS	10 U	12 U	NS	10 U	11 U	NS
Pyrene	ug/L	NS	10 U	12 U	NS	10 U	11 U	NS
Butylbenzylphthalate	ug/L	NS	10 U	12 U	NS	10 U	11 U	NS
3,3'-Dichlorobenzidine	ug/L	NS	10 U	24 U	NS	10 U	22 U	NS
Benzo(a)anthracene	ug/L	NS	10 U	12 U	NS	10 U	11 U	NS
Chrysene	ug/L	NS	10 U	12 U	NS	10 U	11 U	NS
bis(2-Ethylhexyl)phthalate	ug/L	NS	10 U	12 U	NS	10 U	11 U	NS
Di-n-octylphthalate	ug/L	NS	10 U	12 U	NS	10 U	11 U	NS
Benzo(b)fluoranthene	ug/L	NS	10 U	12 U	NS	10 U	11 U	NS
Benzo(k)fluoranthene	ug/L	NS	10 U	12 U	NS	10 U	11 U	NS
Benzo(a)pyrene	ug/L	NS	10 U	12 U	NS	10 U	11 U	NS
Indeno(1,2,3-cd)pyrene	ug/L	NS	10 U	12 U	NS	10 U	11 U	NS
Dibenz(a,h)anthracene	ug/L	NS	10 U	12 U	NS	10 U	11 U	NS
Benzo(g,h,i)perylene	ug/L	NS	10 U	12 U	NS	10 U	11 U	NS

SENECA ARMY DEPOT, ASH LANDFILL
GROUNDWATER ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

| COMPOUND | MATRIX | LOCATION | DATE | ES ID | LAB ID | UNITS | | |

SENECA ARMY DEPOT, ASH LANDFILL
GROUNDWATER ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

	MATRIX	PHASE II WATER	PHASE I WATER	PHASE I WATER	PHASE II WATER	PHASE I WATER	PHASE I WATER	PHASE II WATER
	LOCATION	MW39	MW-40	MW-40	MW40	MW-41D	MW-41D	MW41D
	DATE	06/23/93	01/09/92	01/09/92	07/01/93	01/13/92	01/13/92	06/22/93
	ES ID	MW39	MW-40	MW-40Filte	MW40	MW-41D	MW-41DRI	MW41D
	LAB ID	167232	152155	152198	168126	152409	152409	167084
COMPOUND	UNITS							
Chloromethane	ug/L	NS	10 U	NS	NS	10 U	NS	NS
Bromomethane	ug/L	NS	10 U	NS	NS	10 U	NS	NS
Vinyl Chloride	ug/L	NS	10 U	NS	NS	10 U	NS	NS
Chloroethane	ug/L	NS	10 U	NS	NS	10 U	NS	NS
Methylene Chloride	ug/L	NS	5 U	NS	NS	5 U	NS	NS
Acetone	ug/L	NS	10 U	NS	NS	10 U	NS	NS
Carbon Disulfide	ug/L	NS	5 U	NS	NS	5 U	NS	NS
1,1-Dichloroethene	ug/L	NS	5 U	NS	NS	5 U	NS	NS
1,1-Dichloroethane	ug/L	NS	5 U	NS	NS	5 U	NS	NS
1,2-Dichloroethene (total)	ug/L	NS	5 U	NS	NS	5 U	NS	NS
Chloroform	ug/L	NS	5 U	NS	NS	5 U	NS	NS
1,2-Dichloroethane	ug/L	NS	5 U	NS	NS	5 U	NS	NS
2-Butanone	ug/L	NS	10 U	NS	NS	10 U	NS	NS
1,1,1-Trichloroethane	ug/L	NS	5 U	NS	NS	5 U	NS	NS
Carbon Tetrachloride	ug/L	NS	5 U	NS	NS	5 U	NS	NS
Vinyl Acetate	ug/L	NS	10 U	NS	NS	10 U	NS	NS
Bromodichloromethane	ug/L	NS	5 U	NS	NS	5 U	NS	NS
1,2-Dichloropropane	ug/L	NS	5 U	NS	NS	5 U	NS	NS
cis-1,3-Dichloropropene	ug/L	NS	5 U	NS	NS	5 U	NS	NS
Trichloroethene	ug/L	NS	5 U	NS	NS	5 U	NS	NS
Dibromochloromethane	ug/L	NS	5 U	NS	NS	5 U	NS	NS
1,1,2-Trichloroethane	ug/L	NS	5 U	NS	NS	5 U	NS	NS
Benzene	ug/L	NS	5 U	NS	NS	5 U	NS	NS
trans-1,3-Dichloropropene	ug/L	NS	5 U	NS	NS	5 U	NS	NS
Bromoform	ug/L	NS	5 U	NS	NS	5 U	NS	NS
4-Methyl-2-Pentanone	ug/L	NS	10 U	NS	NS	10 U	NS	NS
2-Hexanone	ug/L	NS	10 U	NS	NS	10 U	NS	NS
Tetrachloroethene	ug/L	NS	5 U	NS	NS	5 U	NS	NS
1,1,2,2-Tetrachloroethane	ug/L	NS	5 U	NS	NS	5 U	NS	NS
Toluene	ug/L	NS	5 U	NS	NS	5 U	NS	NS
Chlorobenzene	ug/L	NS	5 U	NS	NS	5 U	NS	NS
Ethylbenzene	ug/L	NS	5 U	NS	NS	5 U	NS	NS
Styrene	ug/L	NS	5 U	NS	NS	5 U	NS	NS
Xylene (total)	ug/L	NS	5 U	NS	NS	5 U	NS	NS

SENECA ARMY DEPOT, ASH LANDFILL
GROUNDWATER ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

COMPOUND	MATRIX LOCATION DATE ES ID LAB ID UNITS	PHASE II WATER MW39 06/23/93 MW39 167232	PHASE I WATER MW-40 01/09/92 MW-40 152155	PHASE I WATER MW-40 01/09/92 MW-40Filte 152196	PHASE II WATER MW40 07/01/93 MW40 166126	PHASE I WATER MW-41D 01/13/92 MW-41D 152409	PHASE I WATER MW-41D 01/13/92 MW- 41DRI 152409	PHASE II WATER MW41D 06/22/93 MW41D 167084
VOC's (524.2)								
Dichlorodifluoromethane	ug/L	0.5 U	NS	NS	0.5 U	NS	NS	0.5 U
Chloromethane	ug/L	0.5 U	NS	NS	0.5 U	NS	NS	0.5 U
Vinyl Chloride	ug/L	0.5 U	NS	NS	0.5 U	NS	NS	0.5 U
Bromomethane	ug/L	0.5 U	NS	NS	0.5 U	NS	NS	0.5 U
Chloroethane	ug/L	0.5 U	NS	NS	0.5 U	NS	NS	0.5 U
Trichlorofluoromethane	ug/L	0.5 U	NS	NS	0.5 U	NS	NS	0.5 U
1,1-Dichloroethene	ug/L	0.5 U	NS	NS	0.5 U	NS	NS	0.5 U
Acetone	ug/L	5 U	NS	NS	5 U	NS	NS	5 U
Carbon Disulfide	ug/L	0.5 U	NS	NS	0.5 U	NS	NS	0.5 U
Methylene Chloride	ug/L	0.5 U	NS	NS	0.5 U	NS	NS	0.5 U
trans-1,2-Dichloroethene	ug/L	0.5 U	NS	NS	0.5 U	NS	NS	0.5 U
1,1-Dichloroethane	ug/L	0.5 U	NS	NS	0.5 U	NS	NS	0.5 U
2,2-Dichloropropane	ug/L	0.5 U	NS	NS	0.5 U	NS	NS	0.5 U
cis-1,2-Dichloroethene	ug/L	0.5 U	NS	NS	0.5 U	NS	NS	0.5 U
2-Butanone	ug/L	5 U	NS	NS	5 U	NS	NS	5 U
Bromochloromethane	ug/L	0.5 U	NS	NS	0.5 U	NS	NS	0.5 U
Chloroform	ug/L	0.5 U	NS	NS	0.5 U	NS	NS	0.5 U
1,1,1-Trichloroethane	ug/L	0.5 U	NS	NS	0.5 U	NS	NS	0.5 U
Carbon Tetrachloride	ug/L	0.5 U	NS	NS	0.5 U	NS	NS	0.5 U
1,1-Dichloropropene	ug/L	0.5 U	NS	NS	0.5 U	NS	NS	0.5 U
Benzene	ug/L	0.5 U	NS	NS	0.5 U	NS	NS	0.5 U
1,2-Dichloroethane	ug/L	0.5 U	NS	NS	0.5 U	NS	NS	0.5 U
Trichloroethene	ug/L	0.5 U	NS	NS	0.5 U	NS	NS	0.5 U
1,2-Dichloropropane	ug/L	0.5 U	NS	NS	0.5 U	NS	NS	0.5 U
Dibromomethane	ug/L	0.5 U	NS	NS	0.5 U	NS	NS	0.5 U
Bromodichloromethane	ug/L	0.5 U	NS	NS	0.5 U	NS	NS	0.5 U
cis-1,3-Dichloropropene	ug/L	0.5 U	NS	NS	0.5 U	NS	NS	0.5 U
4-Methyl-2-Pentanone	ug/L	5 U	NS	NS	5 U	NS	NS	5 U
Toluene	ug/L	0.5 U	NS	NS	0.5 U	NS	NS	0.5 U
trans-1,3-Dichloropropene	ug/L	0.5 U	NS	NS	0.5 U	NS	NS	0.5 U
1,1,2-Trichloroethane	ug/L	0.5 U	NS	NS	0.5 U	NS	NS	0.5 U
Tetrachloroethene	ug/L	0.5 U	NS	NS	0.5 U	NS	NS	0.5 U
1,3-Dichloropropane	ug/L	0.5 U	NS	NS	0.5 U	NS	NS	0.5 U
2-Hexanone	ug/L	5 U	NS	NS	5 U	NS	NS	5 U
Dibromochloromethane	ug/L	0.5 U	NS	NS	0.5 U	NS	NS	0.5 U
1,2-Dibromoethane	ug/L	0.5 U	NS	NS	0.5 U	NS	NS	0.5 U
Chlorobenzene	ug/L	0.5 U	NS	NS	0.5 U	NS	NS	0.5 U
1,1,1,2-Tetrachloroethane	ug/L	0.5 U	NS	NS	0.5 U	NS	NS	0.5 U
Ethylbenzene	ug/L	0.5 U	NS	NS	0.5 U	NS	NS	0.5 U
Styrene	ug/L	0.5 U	NS	NS	0.5 U	NS	NS	0.5 U
Bromoform	ug/L	0.5 U	NS	NS	0.5 U	NS	NS	0.5 U
Isopropylbenzene	ug/L	0.5 U	NS	NS	0.5 U	NS	NS	0.5 U
Bromobenzene	ug/L	0.5 U	NS	NS	0.5 U	NS	NS	0.5 U
1,1,2,2-Tetrachloroethane	ug/L	0.5 U	NS	NS	0.5 U	NS	NS	0.5 U
1,2,3-Trichloropropane	ug/L	0.5 U	NS	NS	0.5 U	NS	NS	0.5 U
n-Propylbenzene	ug/L	0.5 U	NS	NS	0.5 U	NS	NS	0.5 U
2-Chlorotoluene	ug/L	0.5 U	NS	NS	0.5 U	NS	NS	0.5 U
4-Chlorotoluene	ug/L	0.5 U	NS	NS	0.5 U	NS	NS	0.5 U
1,3,5-Trimethylbenzene	ug/L	0.5 U	NS	NS	0.5 U	NS	NS	0.5 U
tert-Butylbenzene	ug/L	0.5 U	NS	NS	0.5 U	NS	NS	0.5 U
1,2,4-Trimethylbenzene	ug/L	0.5 U	NS	NS	0.5 U	NS	NS	0.5 U
sec-Butylbenzene	ug/L	0.5 U	NS	NS	0.5 U	NS	NS	0.5 U
1,3-Dichlorobenzene	ug/L	0.5 U	NS	NS	0.5 U	NS	NS	0.5 U
1,4-Dichlorobenzene	ug/L	0.5 U	NS	NS	0.5 U	NS	NS	0.5 U
p-Isopropyltoluene	ug/L	0.5 U	NS	NS	0.5 U	NS	NS	0.5 U
1,2-Dichlorobenzene	ug/L	0.5 U	NS	NS	0.5 U	NS	NS	0.5 U
n-Butylbenzene	ug/L	0.5 U	NS	NS	0.5 U	NS	NS	0.5 U
1,2-Dibromo-3-Chloropropane	ug/L	0.5 U	NS	NS	0.5 U	NS	NS	0.5 U
1,2,4-Trichlorobenzene	ug/L	0.5 U	NS	NS	0.5 U	NS	NS	0.5 U
Hexachlorobutadiene	ug/L	0.5 U	NS	NS	0.5 U	NS	NS	0.5 U
Naphthalene	ug/L	0.5 U	NS	NS	0.5 U	NS	NS	0.5 U
1,2,3-Trichlorobenzene	ug/L	0.5 U	NS	NS	0.5 U	NS	NS	0.5 U
Xylene (total)	ug/L	0.5 U	NS	NS	0.5 U	NS	NS	0.5 U

SENECA ARMY DEPOT, ASH LANDFILL
GROUNDWATER ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

	MATRIX	PHASE II	PHASE I	PHASE I	PHASE II	PHASE I	PHASE I	PHASE II
	LOCATION	WATER MW39	WATER MW-40	WATER MW-40	WATER MW40	WATER MW-41D	WATER MW-41D	WATER MW41D
	DATE	06/23/93	01/09/92	01/09/92	07/01/93	01/13/92	01/13/92	06/22/93
	ES ID	MW39	MW-40	MW-40FRe	MW40	MW-41D	MW- 41DRI	MW41D
	LAB ID	167232	152155	152198	168126	152409	152409	167064
COMPOUND	UNITS							
SEMIVOLATILES								
Phenol	ug/L	10 U	11 U	NS	10 U	10 U	NS	10 U
bis(2-Chloroethyl) ether	ug/L	10 U	11 U	NS	10 U	10 U	NS	10 U
2-Chlorophenol	ug/L	10 U	11 U	NS	10 U	10 U	NS	10 U
1,3-Dichlorobenzene	ug/L	10 U	11 U	NS	10 U	10 U	NS	10 U
1,4-Dichlorobenzene	ug/L	10 U	11 U	NS	10 U	10 U	NS	10 U
Benzyl Alcohol	ug/L	NS	11 U	NS	NS	10 U	NS	NS
1,2-Dichlorobenzene	ug/L	10 U	11 U	NS	10 U	10 U	NS	10 U
2-Methylphenol	ug/L	10 U	11 U	NS	10 U	10 U	NS	10 U
bis(2-Chloroisopropyl) ether	ug/L	10 U	11 U	NS	10 U	10 U	NS	10 U
4-Methylphenol	ug/L	10 U	11 U	NS	10 U	10 U	NS	10 U
N-Nitroso-di-n-propylamine	ug/L	10 U	11 U	NS	10 U	10 U	NS	10 U
Hexachloroethane	ug/L	10 U	11 U	NS	10 U	10 U	NS	10 U
Nitrobenzene	ug/L	10 U	11 U	NS	10 U	10 U	NS	10 U
Isophorone	ug/L	10 U	11 U	NS	10 U	10 U	NS	10 U
2-Nitrophenol	ug/L	10 U	11 U	NS	10 U	10 U	NS	10 U
2,4-Dimethylphenol	ug/L	10 U	11 U	NS	10 U	10 U	NS	10 U
Benzoic acid	ug/L	NS	56 U	NS	NS	52 U	NS	NS
bis(2-Chloroethoxy) methane	ug/L	10 U	11 U	NS	10 U	10 U	NS	10 U
2,4-Dichlorophenol	ug/L	10 U	11 U	NS	10 U	10 U	NS	10 U
1,2,4-Trichlorobenzene	ug/L	10 U	11 U	NS	10 U	10 U	NS	10 U
Naphthalene	ug/L	10 U	11 U	NS	10 U	10 U	NS	10 U
4-Chloroaniline	ug/L	10 U	11 U	NS	10 U	10 U	NS	10 U
Hexachlorobutadiene	ug/L	10 U	11 U	NS	10 U	10 U	NS	10 U
4-Chloro-3-methylphenol	ug/L	10 U	11 U	NS	10 U	10 U	NS	10 U
2-Methylnaphthalene	ug/L	10 U	11 U	NS	10 U	10 U	NS	10 U
Hexachlorocyclopentadiene	ug/L	10 U	11 U	NS	10 U	10 U	NS	10 U
2,4,6-Trichlorophenol	ug/L	10 U	11 U	NS	10 U	10 U	NS	10 U
2,4,5-Trichlorophenol	ug/L	25 U	56 U	NS	25 U	52 U	NS	25 U
2-Chloronaphthalene	ug/L	10 U	11 U	NS	10 U	10 U	NS	10 U
2-Nitroaniline	ug/L	25 U	56 U	NS	25 U	52 U	NS	25 U
Dimethylphthalate	ug/L	10 U	11 U	NS	10 U	10 U	NS	10 U
Acenaphthylene	ug/L	10 U	11 U	NS	10 U	10 U	NS	10 U
2,6-Dinitrotoluene	ug/L	10 U	11 U	NS	10 U	10 U	NS	10 U
3-Nitroaniline	ug/L	25 U	56 U	NS	25 U	52 U	NS	25 U
Acenaphthene	ug/L	10 U	11 U	NS	10 U	10 U	NS	10 U
2,4-Dinitrophenol	ug/L	25 U	56 U	NS	25 U	52 U	NS	25 U
4-Nitrophenol	ug/L	25 U	56 U	NS	25 U	52 U	NS	25 U
Dibenzofuran	ug/L	10 U	11 U	NS	10 U	10 U	NS	10 U
2,4-Dinitrotoluene	ug/L	10 U	11 U	NS	10 U	10 U	NS	10 U
Diethylphthalate	ug/L	10 U	11 U	NS	10 U	10 U	NS	10 U
4-Chlorophenyl-phenylether	ug/L	10 U	11 U	NS	10 U	10 U	NS	10 U
Fluorene	ug/L	10 U	11 U	NS	10 U	10 U	NS	10 U
4-Nitroaniline	ug/L	25 U	56 U	NS	25 U	52 U	NS	25 U
4,6-Dinitro-2-methylphenol	ug/L	25 U	56 U	NS	25 U	52 U	NS	25 U
N-Nitrosodiphenylamine (1)	ug/L	10 U	11 U	NS	10 U	10 U	NS	10 U
4-Bromophenyl-phenylether	ug/L	10 U	11 U	NS	10 U	10 U	NS	10 U
Hexachlorobenzene	ug/L	10 U	11 U	NS	10 U	10 U	NS	10 U
Pentachlorophenol	ug/L	25 U	56 U	NS	25 U	52 U	NS	25 U
Phenanthrene	ug/L	10 U	11 U	NS	10 U	10 U	NS	10 U
Anthracene	ug/L	10 U	11 U	NS	10 U	10 U	NS	10 U
Carbazole	ug/L	10 U	NS	NS	10 U	NS	NS	10 U
Di-n-butylphthalate	ug/L	6 J	11 U	NS	10 U	10 U	NS	4 J
Fluoranthene	ug/L	10 U	11 U	NS	10 U	10 U	NS	10 U
Pyrene	ug/L	10 U	11 U	NS	10 U	10 U	NS	10 U
Butylbenzylphthalate	ug/L	10 U	11 U	NS	10 U	10 U	NS	10 U
3,3'-Dichlorobenzidine	ug/L	10 U	22 U	NS	10 U	21 U	NS	10 U
Benzo(a)anthracene	ug/L	10 U	11 U	NS	10 U	10 U	NS	10 U
Chrysene	ug/L	10 U	11 U	NS	10 U	10 U	NS	10 U
bis(2-Ethylhexyl)phthalate	ug/L	10 U	11 U	NS	11 U	10 U	NS	10 U
Di-n-octylphthalate	ug/L	10 U	11 U	NS	10 U	10 U	NS	10 U
Benzo(b)fluoranthene	ug/L	10 U	11 U	NS	10 U	10 U	NS	10 U
Benzo(k)fluoranthene	ug/L	10 U	11 U	NS	10 U	10 U	NS	10 U
Benzo(a)pyrene	ug/L	10 U	11 U	NS	10 U	10 U	NS	10 U
Indeno(1,2,3-cd)pyrene	ug/L	10 U	11 U	NS	10 U	10 U	NS	10 U
Dibenz(a,h)anthracene	ug/L	10 U	11 U	NS	10 U	10 U	NS	10 U
Benzo(g,h,i)perylene	ug/L	10 U	11 U	NS	10 U	10 U	NS	10 U

SENECA ARMY DEPOT, ASH LANDFILL
GROUNDWATER ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

COMPOUND	MATRIX LOCATION DATE ES ID LAB ID UNITS	PHASE II WATER MW39 05/23/93 MW39 167232	PHASE I WATER MW-40 01/09/92 MW-40 152158	PHASE I WATER MW-40 01/09/92 MW-40FRte 152196	PHASE II WATER MW40 07/01/93 MW40 168126	PHASE I WATER MW-41D 01/13/92 MW-41D 152409	PHASE I WATER MW-41D 01/13/92 MW-41DRI 152409	PHASE II WATER MW41D 05/22/93 MW41D 167084
PESTICIDES/PCBS								
alpha-BHC	ug/L	0.05 U	0.05 U	NS	0.05 U	0.057 U R	0.071 U J	0.05 U
beta-BHC	ug/L	0.05 U	0.05 U	NS	0.05 U	0.057 U R	0.071 U J	0.05 U
delta-BHC	ug/L	0.05 U	0.05 U	NS	0.05 U	0.057 U R	0.071 U J	0.05 U
gamma-BHC (Lindane)	ug/L	0.05 U	0.05 U	NS	0.05 U	0.057 U R	0.071 U J	0.05 U
Heptachlor	ug/L	0.05 U	0.05 U	NS	0.05 U	0.057 U R	0.071 U J	0.05 U
Aldrin	ug/L	0.05 U	0.05 U	NS	0.05 U	0.057 U R	0.071 U J	0.05 U
Heptachlor epoxide	ug/L	0.05 U	0.05 U	NS	0.05 U	0.057 U R	0.071 U J	0.05 U
Endosulfan I	ug/L	0.05 U	0.05 U	NS	0.05 U	0.057 U R	0.071 U J	0.05 U
Dieldrin	ug/L	0.1 U	0.1 U	NS	0.1 U	0.11 U R	0.14 U J	0.1 U
4,4'-DDE	ug/L	0.1 U	0.1 U	NS	0.1 U	0.11 U R	0.14 U J	0.1 U
Endrin	ug/L	0.1 U	0.1 U	NS	0.1 U	0.11 U R	0.14 U J	0.1 U
Endosulfan II	ug/L	0.1 U	0.1 U	NS	0.1 U	0.11 U R	0.14 U J	0.1 U
4,4'-DDD	ug/L	0.1 U	0.1 U	NS	0.1 U	0.11 U R	0.14 U J	0.1 U
Endosulfan sulfate	ug/L	0.1 U	0.1 U	NS	0.1 U	0.11 U R	0.14 U J	0.1 U
4,4'-DDT	ug/L	0.1 U	0.1 U	NS	0.1 U	0.11 U R	0.14 U J	0.1 U
Methoxychlor	ug/L	0.5 U	0.5 U	NS	0.5 U	0.57 U R	0.71 U J	0.5 U
Endrin ketone	ug/L	0.1 U	0.1 U	NS	0.1 U	0.11 U R	0.14 U J	0.1 U
Endrin aldehyde	ug/L	0.1 U	NS	NS	0.1 U	NS	NS	0.1 U
alpha-Chlordane	ug/L	0.05 U	0.5 U	NS	0.05 U	0.57 U R	0.71 U J	0.05 U
gamma-Chlordane	ug/L	0.05 U	0.5 U	NS	0.05 U	0.57 U R	0.71 U J	0.05 U
Toxaphene	ug/L	5 U	1 U	NS	5 U	1.1 U R	1.4 U J	5 U
Aroclor-1016	ug/L	1 U	0.5 U	NS	1 U	0.57 U R	0.71 U J	1 U
Aroclor-1221	ug/L	2 U	0.5 U	NS	2 U	0.57 U R	0.71 U J	2 U
Aroclor-1232	ug/L	1 U	0.5 U	NS	1 U	0.57 U R	0.71 U J	1 U
Aroclor-1242	ug/L	1 U	0.5 U	NS	1 U	0.57 U R	0.71 U J	1 U
Aroclor-1246	ug/L	1 U	0.5 U	NS	1 U	0.57 U R	0.71 U J	1 U
Aroclor-1254	ug/L	1 U	1 U	NS	1 U	1.1 U R	1.4 U J	1 U
Aroclor-1260	ug/L	1 U	1 U	NS	1 U	1.1 U R	1.4 U J	1 U
HERBICIDES								
2,4-D	ug/L	1 U	1 U	NS	1 U	1 U	NS	1 U
2,4-DB	ug/L	1 U	1 U	NS	1 U	1 U	NS	1 U
2,4,5-T	ug/L	0.1 U	0.1 U	NS	0.1 U	0.1 U	NS	0.1 U
2,4,5-TP (Silvex)	ug/L	0.1 U	0.1 U	NS	0.1 U	0.1 U	NS	0.1 U
Dalapon	ug/L	2.3 U	2.3 U	NS	2.3 U	2.4 U	NS	2.3 U
Dicamba	ug/L	0.1 U	0.1 U	NS	0.1 U	0.1 U	NS	0.1 U
Dichloroprop	ug/L	1 U	1 U	NS	1 U	1 U	NS	1 U
Dinoseb	ug/L	0.5 U	0.5 U	NS	0.5 U	0.5 U	NS	0.5 U
MCPA	ug/L	100 U	100 U	NS	100 U	100 U	NS	100 U
MCPP	ug/L	100 U	100 U	NS	100 U	100 U	NS	100 U
METALS								
Aluminum	ug/L	72.6 U	2730	24.6 U	972	146 J	NS	72 U
Antimony	ug/L	49.9 UJ	58 U J	53.4 U	49.9 UJ	77.3 R	NS	49.5 UJ
Arsenic	ug/L	1.4 UJ	3.5 U	3.5 U	1.4 UJ	3.5 U	NS	1.4 UJ
Barium	ug/L	40 J	77.8 J	32.4 R	68 J	97 J	NS	67.9 J
Beryllium	ug/L	0.9 U	2.1 R	2.6 R	0.9 U	1.9 R	NS	0.89 U
Cadmium	ug/L	2.8 U	2.9 U	3 U	3.3 J	2.9 U	NS	2.8 U
Calcium	ug/L	102000	154000 J	101000	115000	45800 J	NS	39200
Chromium	ug/L	2.7 UJ	19.7	6.2 U	4.2 J	6.2 U	NS	2.7 UJ
Cobalt	ug/L	5.5 U	20 U	20.5 U	5.5 U	19.9 U	NS	5.4 U
Copper	ug/L	4.7 U	14.5 U	10.2 U	4.7 U	14.4 U	NS	4.7 U
Iron	ug/L	26.2 U	6040	7 U	1390	398 R	NS	128
Lead	ug/L	0.8 U	2.1 J	1.2 U	0.8 U	1.2 U	NS	0.8 U
Magnesium	ug/L	14100	14300	13800	13000	17300 R	NS	14700
Manganese	ug/L	29.6	931	454	77.9	113	NS	43.7
Mercury	ug/L	0.09 UJ	0.14 R	0.1 R	0.09 UJ	0.12 R	NS	0.09 UJ
Nickel	ug/L	7.5 UJ	16 U	14.6 U	7.5 UJ	15.9 U	NS	7.4 UJ
Potassium	ug/L	2420 J	2810 J	2810 J	2250 J	2530 J	NS	2210 J
Selenium	ug/L	1 UJ	1 U	1 U	1.6 J	1 U	NS	1 UJ
Silver	ug/L	5.5 U	9.1 U	3.4 U	5.5 U	9.1 U	NS	5.4 U
Sodium	ug/L	10600	7540 J	7270	15600	77500 J	NS	91000
Thallium	ug/L	2.6 U	3.2 U	3.2 U	2.6 U	3.2 U	NS	2.6 U
Vanadium	ug/L	6.8 UJ	30.5 U	9.5 U	6.8 UJ	30.5 U	NS	6.7 UJ
Zinc	ug/L	7 J	34.1 R	8.5 U	15.7 J	13.4 U	NS	13.9 J
Cyanide	ug/L	10 UJ	10 U J	NS	10 UJ	10 U J	NS	10 UJ

SENECA ARMY DEPOT, ASH LANDFILL
GROUNDWATER ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

	MATRIX	PHASE I WATER	PHASE I WATER	PHASE I WATER	PHASE II WATER	PHASE II WATER	PHASE II WATER	PHASE II WATER
	LOCATION	MW-42D	MW-42D	MW-42D	MW42D	MW-43	MW44	MW45
	DATE	01/13/92	01/13/92	01/13/92	06/23/93	06/30/93	07/15/93	07/15/93
	ES ID	MW-42D	MW-42DRE(4)	MW-42DFII	MW42D	MW-43	MW44	MW45
	LAB ID	152410	152410	152430	187233	187932	189106	189108
COMPOUND	UNITS							
Chloromethane	ug/L	10 U	NS	NS	NS	10 U	710 U	10 U
Bromomethane	ug/L	10 U	NS	NS	NS	10 U	710 U	10 U
Vinyl Chloride	ug/L	10 U	NS	NS	NS	10 U	22000	10 U
Chloroethane	ug/L	10 U	NS	NS	NS	10 U	710 U	10 U
Methylene Chloride	ug/L	5 U	NS	NS	NS	10 U	710 U	10 U
Acetone	ug/L	10 U	NS	NS	NS	10 U	710 U	10 U
Carbon Disulfide	ug/L	5 U	NS	NS	NS	10 U	710 U	10 U
1,1-Dichloroethene	ug/L	5 U	NS	NS	NS	10 U	200 J	10 U
1,1-Dichloroethane	ug/L	5 U	NS	NS	NS	10 U	160 J	10 U
1,2-Dichloroethene (total)	ug/L	5 U	NS	NS	NS	10 U	73000	10 U
Chloroform	ug/L	5 U	NS	NS	NS	10 U	710 U	10 U
1,2-Dichloroethane	ug/L	5 U	NS	NS	NS	10 U	710 U	10 U
2-Butanone	ug/L	10 U	NS	NS	NS	10 U	710 U	10 U
1,1,1-Trichloroethane	ug/L	5 U	NS	NS	NS	10 U	710 U	10 U
Carbon Tetrachloride	ug/L	5 U	NS	NS	NS	10 U	710 U	10 U
Vinyl Acetate	ug/L	10 U	NS	NS	NS	NS	NS	NS
Bromodichloromethane	ug/L	5 U	NS	NS	NS	10 U	710 U	10 U
1,2-Dichloropropane	ug/L	5 U	NS	NS	NS	10 U	710 U	10 U
cis-1,3-Dichloropropene	ug/L	5 U	NS	NS	NS	10 U	710 U	10 U
Trichloroethene	ug/L	5 U	NS	NS	NS	10 U	37000	10 U
Dibromochloromethane	ug/L	5 U	NS	NS	NS	10 U	710 U	10 U
1,1,2-Trichloroethane	ug/L	5 U	NS	NS	NS	10 U	710 U	10 U
Benzene	ug/L	5 U	NS	NS	NS	10 U	170 J	10 U
trans-1,3-Dichloropropene	ug/L	5 U	NS	NS	NS	10 U	710 U	10 U
Bromoform	ug/L	5 U	NS	NS	NS	10 U	710 U	10 U
4-Methyl-2-Pentanone	ug/L	10 U	NS	NS	NS	10 U	710 U	10 U
2-Hexanone	ug/L	10 U	NS	NS	NS	10 U	710 U	10 U
Tetrachloroethene	ug/L	5 U	NS	NS	NS	10 U	710 U	10 U
1,1,2,2-Tetrachloroethane	ug/L	5 U	NS	NS	NS	10 U	710 U	10 U
Toluene	ug/L	5 U	NS	NS	NS	10 U	880	10 U
Chlorobenzene	ug/L	5 U	NS	NS	NS	10 U	710 U	10 U
Ethylbenzene	ug/L	5 U	NS	NS	NS	10 U	130 J	10 U
Styrene	ug/L	5 U	NS	NS	NS	10 U	710 U	10 U
Xylene (total)	ug/L	5 U	NS	NS	NS	10 U	590 J	10 U

SENECA ARMY DEPOT, ASH LANDFILL
GROUNDWATER ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

	MATRIX	PHASE I	PHASE I	PHASE I	PHASE II	PHASE II	PHASE II	PHASE II
	LOCATION	WATER	WATER	WATER	WATER	WATER	WATER	WATER
	DATE	MW-42D	MW-42D	MW-42D	MW42D	MW-43	MW44	MW45
	ES ID	01/13/92	01/13/92	01/13/92	06/23/93	06/30/93	07/15/93	07/15/93
	LAB ID	MW-42D	MW-42DRE(4)	MW-42DFII	MW42D	MW-43	MW44	MW45
COMPOUND	UNITS	152410	152410	152430	187233	187932	189106	189106
VOC's (524.2)								
Dichlorodifluoromethane	ug/L	NS	NS	NS	0.5 U	NS	NS	NS
Chloromethane	ug/L	NS	NS	NS	0.5 U	NS	NS	NS
Vinyl Chloride	ug/L	NS	NS	NS	0.5 U	NS	NS	NS
Bromomethane	ug/L	NS	NS	NS	0.5 U	NS	NS	NS
Chloroethane	ug/L	NS	NS	NS	0.5 U	NS	NS	NS
Trichlorofluoromethane	ug/L	NS	NS	NS	0.5 U	NS	NS	NS
1,1-Dichloroethene	ug/L	NS	NS	NS	0.5 U	NS	NS	NS
Acetone	ug/L	NS	NS	NS	5 U	NS	NS	NS
Carbon Disulfide	ug/L	NS	NS	NS	0.5 U	NS	NS	NS
Methylene Chloride	ug/L	NS	NS	NS	0.5 U	NS	NS	NS
trans-1,2-Dichloroethene	ug/L	NS	NS	NS	0.5 U	NS	NS	NS
1,1-Dichloroethane	ug/L	NS	NS	NS	0.5 U	NS	NS	NS
2,2-Dichloropropane	ug/L	NS	NS	NS	0.5 U	NS	NS	NS
cis-1,2-Dichloroethene	ug/L	NS	NS	NS	0.5 U	NS	NS	NS
2-Butanone	ug/L	NS	NS	NS	5 U	NS	NS	NS
Bromochloromethane	ug/L	NS	NS	NS	0.5 U	NS	NS	NS
Chloroform	ug/L	NS	NS	NS	0.5 U	NS	NS	NS
1,1,1-Trichloroethane	ug/L	NS	NS	NS	0.5 U	NS	NS	NS
Carbon Tetrachloride	ug/L	NS	NS	NS	0.5 U	NS	NS	NS
1,1-Dichloropropene	ug/L	NS	NS	NS	0.5 U	NS	NS	NS
Benzene	ug/L	NS	NS	NS	0.5 U	NS	NS	NS
1,2-Dichloroethane	ug/L	NS	NS	NS	0.5 U	NS	NS	NS
Trichloroethene	ug/L	NS	NS	NS	0.5 U	NS	NS	NS
1,2-Dichloropropane	ug/L	NS	NS	NS	0.5 U	NS	NS	NS
Dibromomethane	ug/L	NS	NS	NS	0.5 U	NS	NS	NS
Bromodichloromethane	ug/L	NS	NS	NS	0.5 U	NS	NS	NS
cis-1,3-Dichloropropene	ug/L	NS	NS	NS	0.5 U	NS	NS	NS
4-Methyl-2-Pentanone	ug/L	NS	NS	NS	5 U	NS	NS	NS
Toluene	ug/L	NS	NS	NS	0.5 U	NS	NS	NS
trans-1,3-Dichloropropene	ug/L	NS	NS	NS	0.5 U	NS	NS	NS
1,1,2-Trichloroethane	ug/L	NS	NS	NS	0.5 U	NS	NS	NS
Tetrachloroethene	ug/L	NS	NS	NS	0.5 U	NS	NS	NS
1,3-Dichloropropane	ug/L	NS	NS	NS	0.5 U	NS	NS	NS
2-Hexanone	ug/L	NS	NS	NS	5 U	NS	NS	NS
Dibromochloromethane	ug/L	NS	NS	NS	0.5 U	NS	NS	NS
1,2-Dibromoethane	ug/L	NS	NS	NS	0.5 U	NS	NS	NS
Chlorobenzene	ug/L	NS	NS	NS	0.5 U	NS	NS	NS
1,1,1,2-Tetrachloroethane	ug/L	NS	NS	NS	0.5 U	NS	NS	NS
Ethylbenzene	ug/L	NS	NS	NS	0.5 U	NS	NS	NS
Styrene	ug/L	NS	NS	NS	0.5 U	NS	NS	NS
Bromoform	ug/L	NS	NS	NS	0.5 U	NS	NS	NS
Isopropylbenzene	ug/L	NS	NS	NS	0.5 U	NS	NS	NS
Bromobenzene	ug/L	NS	NS	NS	0.5 U	NS	NS	NS
1,1,2,2-Tetrachloroethane	ug/L	NS	NS	NS	0.5 U	NS	NS	NS
1,2,3-Trichloropropane	ug/L	NS	NS	NS	0.5 U	NS	NS	NS
n-Propylbenzene	ug/L	NS	NS	NS	0.5 U	NS	NS	NS
2-Chlorotoluene	ug/L	NS	NS	NS	0.5 U	NS	NS	NS
4-Chlorotoluene	ug/L	NS	NS	NS	0.5 U	NS	NS	NS
1,3,5-Trimethylbenzene	ug/L	NS	NS	NS	0.5 U	NS	NS	NS
tert-Butylbenzene	ug/L	NS	NS	NS	0.5 U	NS	NS	NS
1,2,4-Trimethylbenzene	ug/L	NS	NS	NS	0.5 U	NS	NS	NS
sec-Butylbenzene	ug/L	NS	NS	NS	0.5 U	NS	NS	NS
1,3-Dichlorobenzene	ug/L	NS	NS	NS	0.5 U	NS	NS	NS
1,4-Dichlorobenzene	ug/L	NS	NS	NS	0.5 U	NS	NS	NS
p-Isopropyltoluene	ug/L	NS	NS	NS	0.5 U	NS	NS	NS
1,2-Dichlorobenzene	ug/L	NS	NS	NS	0.5 U	NS	NS	NS
n-Butylbenzene	ug/L	NS	NS	NS	0.5 U	NS	NS	NS
1,2-Dibromo-3-Chloropropane	ug/L	NS	NS	NS	0.5 U	NS	NS	NS
1,2,4-Trichlorobenzene	ug/L	NS	NS	NS	0.5 U	NS	NS	NS
Hexachlorobutadiene	ug/L	NS	NS	NS	0.5 U	NS	NS	NS
Naphthalene	ug/L	NS	NS	NS	0.5 U	NS	NS	NS
1,2,3-Trichlorobenzene	ug/L	NS	NS	NS	0.5 U	NS	NS	NS
Xylene (total)	ug/L	NS	NS	NS	0.5 U	NS	NS	NS

SENECA ARMY DEPOT, ASH LANDFILL
GROUNDWATER ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

COMPOUND	MATRIX LOCATION DATE ES ID LAB ID UNITS	PHASE I WATER MW-42D 01/13/92 MW-42D 152410	PHASE I WATER MW-42D 01/13/92 MW-42DRE(4) 152410	PHASE I WATER MW-42D 01/13/92 MW-42DFII 152430	PHASE II WATER MW42D 08/23/93 MW42D 167233	PHASE II WATER MW-43 08/30/93 MW-43 167932	PHASE II WATER MW44 07/15/93 MW44 169106	PHASE II WATER MW45 07/15/93 MW45 169108
SEMIVOLATILES								
Phenol	ug/L	10 U	NS	NS	10 U	10 U	5 J	10 U
bis(2-Chloroethyl) ether	ug/L	10 U	NS	NS	10 U	10 U	10 U	10 U
2-Chlorophenol	ug/L	10 U	NS	NS	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene	ug/L	10 U	NS	NS	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene	ug/L	10 U	NS	NS	10 U	10 U	10 U	10 U
Benzyl Alcohol	ug/L	10 U	NS	NS	NS	NS	NS	NS
1,2-Dichlorobenzene	ug/L	10 U	NS	NS	10 U	10 U	10 U	10 U
2-Methylphenol	ug/L	10 U	NS	NS	10 U	10 U	10 U	10 U
bis(2-Chloroisopropyl) ether	ug/L	10 U	NS	NS	10 U	10 U	10 U	10 U
4-Methylphenol	ug/L	10 U	NS	NS	10 U	10 U	4 J	10 U
N-Nitroso-di-n-propylamine	ug/L	10 U	NS	NS	10 U	10 U	10 U	10 U
Hexachloroethane	ug/L	10 U	NS	NS	10 U	10 U	10 U	10 U
Nitrobenzene	ug/L	10 U	NS	NS	10 U	10 U	10 U	10 U
Isophorone	ug/L	10 U	NS	NS	10 U	10 U	10 U	10 U
2-Nitrophenol	ug/L	10 U	NS	NS	10 U	10 U	10 U	10 U
2,4-Dimethylphenol	ug/L	10 U	NS	NS	10 U	10 U	10 U	10 U
Benzoic acid	ug/L	52 U	NS	NS	NS	NS	NS	NS
bis(2-Chloroethoxy) methane	ug/L	10 U	NS	NS	10 U	10 U	10 U	10 U
2,4-Dichlorophenol	ug/L	10 U	NS	NS	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	ug/L	10 U	NS	NS	10 U	10 U	10 U	10 U
Naphthalene	ug/L	10 U	NS	NS	10 U	10 U	68 J	10 U
4-Chloroaniline	ug/L	10 U	NS	NS	10 U	10 U	10 U	10 U
Hexachlorobutadiene	ug/L	10 U	NS	NS	10 U	10 U	10 U	10 U
4-Chloro-3-methylphenol	ug/L	10 U	NS	NS	10 U	10 U	10 U	10 U
2-Methylnaphthalene	ug/L	10 U	NS	NS	10 U	10 U	12 J	10 U
Hexachlorocyclopentadiene	ug/L	10 U	NS	NS	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol	ug/L	10 U	NS	NS	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol	ug/L	52 U	NS	NS	25 U	25 U	25 U	25 U
2-Chloronaphthalene	ug/L	10 U	NS	NS	10 U	10 U	10 U	10 U
2-Nitroaniline	ug/L	52 U	NS	NS	25 U	25 U	25 U	25 U
Dimethylphthalate	ug/L	10 U	NS	NS	10 U	10 U	10 U	10 U
Acenaphthylene	ug/L	10 U	NS	NS	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene	ug/L	10 U	NS	NS	10 U	10 U	10 U	10 U
3-Nitroaniline	ug/L	52 U	NS	NS	25 U	25 U	25 U	25 U
Acenaphthene	ug/L	10 U	NS	NS	10 U	10 U	10 U	10 U
2,4-Dinitrophenol	ug/L	52 U	NS	NS	25 U	25 U	25 U	25 U
4-Nitrophenol	ug/L	52 U	NS	NS	25 U	25 U	25 U	25 U
Dibenzofuran	ug/L	10 U	NS	NS	10 U	10 U	10 U	10 U
2,4-Dinitrotoluene	ug/L	10 U	NS	NS	10 U	10 U	10 U	10 U
Diethylphthalate	ug/L	10 U	NS	NS	10 U	10 U	1 J	10 U
4-Chlorophenyl-phenylether	ug/L	10 U	NS	NS	10 U	10 U	10 U	10 U
Fluorene	ug/L	10 U	NS	NS	10 U	10 U	10 U	10 U
4-Nitroaniline	ug/L	52 U	NS	NS	25 U	25 U	25 U	25 U
4,6-Dinitro-2-methylphenol	ug/L	52 U	NS	NS	25 U	25 U	25 U	25 U
N-Nitrosodiphenylamine (1)	ug/L	10 U	NS	NS	10 U	10 U	10 U	10 U
4-Bromophenyl-phenylether	ug/L	10 U	NS	NS	10 U	10 U	10 U	10 U
Hexachlorobenzene	ug/L	10 U	NS	NS	10 U	10 U	10 U	10 U
Pentachlorophenol	ug/L	52 U	NS	NS	25 U	25 U	54 J	25 U
Phenanthrene	ug/L	10 U	NS	NS	10 U	10 U	10 U	10 U
Anthracene	ug/L	10 U	NS	NS	10 U	10 U	10 U	10 U
Carbazole	ug/L	NS	NS	NS	10 U	10 U	10 U	10 U
Di-n-butylphthalate	ug/L	10 U	NS	NS	10	10 U	2 J	2 J
Fluoranthene	ug/L	10 U	NS	NS	10 U	10 U	10 U	10 U
Pyrene	ug/L	10 U	NS	NS	10 U	10 U	10 U	10 U
Butylbenzylphthalate	ug/L	10 U	NS	NS	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine	ug/L	21 U	NS	NS	10 U	10 U	10 U	10 U
Benzo(a)anthracene	ug/L	10 U	NS	NS	10 U	10 U	10 U	10 U
Chrysene	ug/L	10 U	NS	NS	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate	ug/L	10 U	NS	NS	14 U	13 U	10 U	10 U
Di-n-octylphthalate	ug/L	10 U	NS	NS	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	ug/L	10 U	NS	NS	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	ug/L	10 U	NS	NS	10 U	10 U	10 U	10 U
Benzo(a)pyrene	ug/L	10 U	NS	NS	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	ug/L	10 U	NS	NS	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	ug/L	10 U	NS	NS	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	ug/L	10 U	NS	NS	10 U	10 U	10 U	10 U

SENECA ARMY DEPOT, ASH LANDFILL
GROUNDWATER ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

COMPOUND	MATRIX LOCATION DATE ES ID LAB ID UNITS	PHASE I WATER MW-42D 01/13/92 MW-42D 152410	PHASE I WATER MW-42D 01/13/92 MW-42DRE(4) 152410	PHASE I WATER MW-42D 01/13/92 MW-42DFII 152430	PHASE II WATER MW42D 06/23/93 MW42D 187233	PHASE II WATER MW-43 06/30/93 MW-43 187932	PHASE II WATER MW44 07/15/93 MW44 189106	PHASE II WATER MW45 07/15/93 MW45 189108
PESTICIDES/PCBS								
alpha-BHC	ug/L	0.053 U R	0.052 U J	NS	0.05 U	0.05 U	0.056 U	0.05 U
beta-BHC	ug/L	0.053 U R	0.052 U J	NS	0.05 U	0.05 U	0.056 U	0.05 U
delta-BHC	ug/L	0.053 U R	0.052 U J	NS	0.05 U	0.05 U	0.056 U	0.05 U
gamma-BHC (Lindane)	ug/L	0.053 U R	0.052 U J	NS	0.05 U	0.05 U	0.056 U	0.05 U
Heptachlor	ug/L	0.053 U R	0.052 U J	NS	0.05 U	0.05 U	0.056 U	0.05 U
Aldrin	ug/L	0.053 U R	0.052 U J	NS	0.05 U	0.05 U	0.056 U	0.05 U
Heptachlor epoxide	ug/L	0.053 U R	0.052 U J	NS	0.05 U	0.05 U	0.056 U	0.05 U
Endosulfan I	ug/L	0.053 U R	0.052 U J	NS	0.05 U	0.05 U	0.056 U	0.05 U
Dieldrin	ug/L	0.11 U R	0.1 U J	NS	0.1 U	0.1 U	0.11 U	0.1 U
4,4'-DDE	ug/L	0.11 U R	0.1 U J	NS	0.1 U	0.1 U	0.11 U	0.1 U
Endrin	ug/L	0.11 U R	0.1 U J	NS	0.1 U	0.1 U	0.11 U	0.1 U
Endosulfan II	ug/L	0.11 U R	0.1 U J	NS	0.1 U	0.1 U	0.11 U	0.1 U
4,4'-DDD	ug/L	0.11 U R	0.1 U J	NS	0.1 U	0.1 U	0.11 U	0.1 U
Endosulfan sulfate	ug/L	0.11 U R	0.1 U J	NS	0.1 U	0.1 U	0.11 U	0.1 U
4,4'-DDT	ug/L	0.11 U R	0.1 U J	NS	0.1 U	0.1 U	0.11 U	0.1 U
Methoxychlor	ug/L	0.53 U R	0.52 U J	NS	0.5 U	0.5 U	0.56 U	0.5 U
Endrin ketone	ug/L	0.11 U R	0.1 U J	NS	0.1 U	0.1 U	0.11 U	0.1 U
Endrin aldehyde	ug/L	NS	NS	NS	0.1 U	0.1 U	0.11 U	0.1 U
alpha-Chlordane	ug/L	0.53 U R	0.52 U J	NS	0.05 U	0.05 U	0.056 U	0.05 U
gamma-Chlordane	ug/L	0.53 U R	0.52 U J	NS	0.05 U	0.05 U	0.056 U	0.05 U
Toxaphene	ug/L	1.1 U R	1 U J	NS	5 U	5 U	5.6 U	5 U
Aroclor-1016	ug/L	0.53 U R	0.52 U J	NS	1 U	1 U	1.1 U	1 U
Aroclor-1221	ug/L	0.53 U R	0.52 U J	NS	2 U	2 U	2.3 U	2 U
Aroclor-1232	ug/L	0.53 U R	0.52 U J	NS	1 U	1 U	1.1 U	1 U
Aroclor-1242	ug/L	0.53 U R	0.52 U J	NS	1 U	1 U	1.1 U	1 U
Aroclor-1248	ug/L	0.53 U R	0.52 U J	NS	1 U	1 U	1.1 U	1 U
Aroclor-1254	ug/L	1.1 U R	1 U J	NS	1 U	1 U	1.1 U	1 U
Aroclor-1260	ug/L	1.1 U R	1 U J	NS	1 U	1 U	1.1 U	1 U
HERBICIDES								
2,4-D	ug/L	1.2 U	NS	NS	1 U	1 U	1.2 U	1.1 U
2,4-DB	ug/L	1.2 U	NS	NS	1 U	1 U	1.2 U	1.1 U
2,4,5-T	ug/L	0.1 U	NS	NS	0.1 U	0.1 U	0.12 U	0.11 U
2,4,5-TP (Silvex)	ug/L	0.1 U	NS	NS	0.1 U	0.1 U	0.12 U	0.11 U
Dalapon	ug/L	2.7 U	NS	NS	2.3 U	2.3 U	2.7 U	2.4 U
Dicamba	ug/L	0.1 U	NS	NS	0.1 U	0.1 U	0.12 U	0.11 U
Dichloroprop	ug/L	1.2 U	NS	NS	1 U	1 U	1.2 U	1.1 U
Dinoseb	ug/L	0.6 U	NS	NS	0.5 U	0.5 U	0.58 U	0.51 U
MCPA	ug/L	120 U	NS	NS	100 U	100 U	120 U	110 U
MCPP	ug/L	120 U	NS	NS	100 U	100 U	120 U	110 U
METALS								
Aluminum	ug/L	209	NS	24.5 U	72.5 U	52700	12300 J	21300 J
Antimony	ug/L	55.5 U J	NS	53.2 U	49.9 UJ	49.8 UJ	49.7 U	49.6 U
Arsenic	ug/L	3.5 U	NS	3.5 U	1.4 UJ	1.4 UJ	7.8 J	2.7 J
Barium	ug/L	112 J	NS	98.3 J	98 J	358	317	243
Beryllium	ug/L	2.1 R	NS	2.5 R	0.9 U	2.5 J	1.5 J	1.6 J
Cadmium	ug/L	2.9 U	NS	3 U	2.8 U	2.8 U	2.8 U	2.8 U
Calcium	ug/L	67300 J	NS	58000	59200	403000	370000	181000
Chromium	ug/L	8.7 J	NS	6.2 U	2.7 UJ	85.2 J	18.2 J	29.1 J
Cobalt	ug/L	19.8 U	NS	20.4 U	5.5 U	36.1 J	22.5 J	28.3 J
Copper	ug/L	14.4 U	NS	10.2 U	4.7 U	61.4	12.9 J	8.7 J
Iron	ug/L	683 R	NS	7 U	105	86500	18500 J	30100 J
Lead	ug/L	1.2 U	NS	1.2 U	0.79 U	21.9	147	5.8
Magnesium	ug/L	28200 J	NS	32600	30100	36100	41100	22100
Manganese	ug/L	169	NS	112	55	2260	7120	1010
Mercury	ug/L	0.15 R	NS	0.12 R	0.09 UJ	0.35 J	0.38	0.18 J
Nickel	ug/L	15.8 U	NS	14.8 U	7.5 UJ	107 J	30.5 J	45.3 J
Potassium	ug/L	9470	NS	11200	2950 J	10300	6680	6220
Selenium	ug/L	1 U	NS	1 U	0.99 UJ	5 UJ	10 UJ	0.99 UJ
Silver	ug/L	9 U	NS	4.4 R	5.5 U	5.5 U	5.5 U	5.5 U
Sodium	ug/L	18700 J	NS	19700	17200	11900	37600	8420
Thallium	ug/L	3.2 U	NS	3.2 U	2.6 U	2.6 U	25.9 U	2.6 U
Vanadium	ug/L	30.3 U	NS	9.5 U	6.8 UJ	73.4 J	13.3 J	26.2 J
Zinc	ug/L	13.4 U	NS	8.5 U	4.9 J	223	117 J	116 J
Cyanide	ug/L	10 U J	NS	NS	10 UJ	10 UJ	4.3 J	1.3 J

SENECA ARMY DEPOT, ASH LANDFILL
GROUNDWATER ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

	MATRIX	PHASE II	PHASE II	PHASE II	PHASE II	PHASE II	PHASE II	PHASE II
	LOCATION	WATER MW48	WATER MW47	WATER MW47RE	WATER MW48	WATER MW49D	WATER MW50D	WATER MW51D
	DATE	07/14/93	07/10/93	07/10/93	07/15/93	07/14/93	07/14/93	07/10/93
	ES ID	MW48	MW47	MW47RE	MW48	MW49D	MW50D	MW51D
	LAB ID	189023	188722	188722	189109	189025	189026	188723
COMPOUND	UNITS							
Chloromethane	ug/L	10 U	10 U	NS	10 U	10 U	10 U	10 U
Bromomethane	ug/L	10 U	10 U	NS	10 U	10 U	10 U	10 U
Vinyl Chloride	ug/L	10 U	10 U	NS	10 U	10 U	10 U	10 U
Chloroethane	ug/L	10 U	10 U	NS	10 U	10 U	10 U	10 U
Methylene Chloride	ug/L	10 U	10 U	NS	10 U	10 U	10 U	10 U
Acetone	ug/L	10 U	10 U	NS	10 U	10 U	10 U	10 U
Carbon Disulfide	ug/L	10 U	10 U	NS	10 U	10 U	10 U	10 U
1,1-Dichloroethene	ug/L	10 U	10 U	NS	10 U	10 U	10 U	10 U
1,1-Dichloroethane	ug/L	10 U	10 U	NS	10 U	10 U	10 U	10 U
1,2-Dichloroethene (total)	ug/L	120	10 U	NS	10 U	10 U	10 U	10 U
Chloroform	ug/L	10 U	10 U	NS	10 U	10 U	10 U	10 U
1,2-Dichloroethane	ug/L	10 U	10 U	NS	10 U	10 U	10 U	10 U
2-Butanone	ug/L	10 U	10 U	NS	10 U	10 U	10 U	10 U
1,1,1-Trichloroethane	ug/L	10 U	10 U	NS	10 U	10 U	10 U	10 U
Carbon Tetrachloride	ug/L	10 U	10 U	NS	10 U	10 U	10 U	10 U
Vinyl Acetate	ug/L	NS	NS	NS	NS	NS	NS	NS
Bromodichloromethane	ug/L	10 U	10 U	NS	10 U	10 U	10 U	10 U
1,2-Dichloropropane	ug/L	10 U	10 U	NS	10 U	10 U	10 U	10 U
cis-1,3-Dichloropropene	ug/L	10 U	10 U	NS	10 U	10 U	10 U	10 U
Trichloroethene	ug/L	47	10 U	NS	10 U	10 U	10 U	10 U
Dibromochloromethane	ug/L	10 U	10 U	NS	10 U	10 U	10 U	10 U
1,1,2-Trichloroethane	ug/L	10 U	10 U	NS	10 U	10 U	10 U	10 U
Benzene	ug/L	10 U	10 U	NS	10 U	10 U	10 U	5 J
trans-1,3-Dichloropropene	ug/L	10 U	10 U	NS	10 U	10 U	10 U	10 U
Bromoform	ug/L	10 U	10 U	NS	10 U	10 U	10 U	10 U
4-Methyl-2-Pentanone	ug/L	10 U	10 U	NS	10 U	10 U	10 U	10 U
2-Hexanone	ug/L	10 U	10 U	NS	10 U	10 U	10 U	10 U
Tetrachloroethene	ug/L	10 U	10 U	NS	10 U	10 U	10 U	10 U
1,1,2,2-Tetrachloroethane	ug/L	10 U	10 U	NS	10 U	10 U	10 U	10 U
Toluene	ug/L	10 U	10 U	NS	10 U	10 U	10 U	10 U
Chlorobenzene	ug/L	10 U	10 U	NS	10 U	10 U	10 U	10 U
Ethylbenzene	ug/L	10 U	10 U	NS	10 U	10 U	10 U	10 U
Styrene	ug/L	10 U	10 U	NS	10 U	10 U	10 U	10 U
Xylene (total)	ug/L	10 U	10 U	NS	10 U	10 U	10 U	10 U

SENECA ARMY DEPOT, ASH LANDFILL
GROUNDWATER ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

COMPOUND	MATRIX LOCATION DATE ES ID LAB ID UNITS	PHASE II WATER MW46 07/14/93 MW46 169023	PHASE II WATER MW47 07/10/93 MW47 168722	PHASE II WATER MW47RE 07/10/93 MW47RE 168722	PHASE II WATER MW48 07/15/93 MW48 169109	PHASE II WATER MW49D 07/14/93 MW49D 169025	PHASE II WATER MW50D 07/14/93 MW50D 169026	PHASE II WATER MW51D 07/10/93 MW51D 168723
VOC's (524.2)								
Dichlorodifluoromethane	ug/L	NS	NS	NS	NS	NS	NS	NS
Chloromethane	ug/L	NS	NS	NS	NS	NS	NS	NS
Vinyl Chloride	ug/L	NS	NS	NS	NS	NS	NS	NS
Bromomethane	ug/L	NS	NS	NS	NS	NS	NS	NS
Chloroethane	ug/L	NS	NS	NS	NS	NS	NS	NS
Trichlorofluoromethane	ug/L	NS	NS	NS	NS	NS	NS	NS
1,1-Dichloroethene	ug/L	NS	NS	NS	NS	NS	NS	NS
Acetone	ug/L	NS	NS	NS	NS	NS	NS	NS
Carbon Disulfide	ug/L	NS	NS	NS	NS	NS	NS	NS
Methylene Chloride	ug/L	NS	NS	NS	NS	NS	NS	NS
trans-1,2-Dichloroethene	ug/L	NS	NS	NS	NS	NS	NS	NS
1,1-Dichloroethane	ug/L	NS	NS	NS	NS	NS	NS	NS
2,2-Dichloropropane	ug/L	NS	NS	NS	NS	NS	NS	NS
cis-1,2-Dichloroethene	ug/L	NS	NS	NS	NS	NS	NS	NS
2-Butanone	ug/L	NS	NS	NS	NS	NS	NS	NS
Bromochloromethane	ug/L	NS	NS	NS	NS	NS	NS	NS
Chloroform	ug/L	NS	NS	NS	NS	NS	NS	NS
1,1,1-Trichloroethane	ug/L	NS	NS	NS	NS	NS	NS	NS
Carbon Tetrachloride	ug/L	NS	NS	NS	NS	NS	NS	NS
1,1-Dichloropropene	ug/L	NS	NS	NS	NS	NS	NS	NS
Benzene	ug/L	NS	NS	NS	NS	NS	NS	NS
1,2-Dichloroethane	ug/L	NS	NS	NS	NS	NS	NS	NS
Trichloroethene	ug/L	NS	NS	NS	NS	NS	NS	NS
1,2-Dichloropropane	ug/L	NS	NS	NS	NS	NS	NS	NS
Dibromomethane	ug/L	NS	NS	NS	NS	NS	NS	NS
Bromodichloromethane	ug/L	NS	NS	NS	NS	NS	NS	NS
cis-1,3-Dichloropropene	ug/L	NS	NS	NS	NS	NS	NS	NS
4-Methyl-2-Pentanone	ug/L	NS	NS	NS	NS	NS	NS	NS
Toluene	ug/L	NS	NS	NS	NS	NS	NS	NS
trans-1,3-Dichloropropene	ug/L	NS	NS	NS	NS	NS	NS	NS
1,1,2-Trichloroethane	ug/L	NS	NS	NS	NS	NS	NS	NS
Tetrachloroethene	ug/L	NS	NS	NS	NS	NS	NS	NS
1,3-Dichloropropane	ug/L	NS	NS	NS	NS	NS	NS	NS
2-Hexanone	ug/L	NS	NS	NS	NS	NS	NS	NS
Dibromochloromethane	ug/L	NS	NS	NS	NS	NS	NS	NS
1,2-Dibromoethane	ug/L	NS	NS	NS	NS	NS	NS	NS
Chlorobenzene	ug/L	NS	NS	NS	NS	NS	NS	NS
1,1,1,2-Tetrachloroethane	ug/L	NS	NS	NS	NS	NS	NS	NS
Ethylbenzene	ug/L	NS	NS	NS	NS	NS	NS	NS
Styrene	ug/L	NS	NS	NS	NS	NS	NS	NS
Bromoform	ug/L	NS	NS	NS	NS	NS	NS	NS
Isopropylbenzene	ug/L	NS	NS	NS	NS	NS	NS	NS
Bromobenzene	ug/L	NS	NS	NS	NS	NS	NS	NS
1,1,2,2-Tetrachloroethane	ug/L	NS	NS	NS	NS	NS	NS	NS
1,2,3-Trichloropropane	ug/L	NS	NS	NS	NS	NS	NS	NS
n-Propylbenzene	ug/L	NS	NS	NS	NS	NS	NS	NS
2-Chlorotoluene	ug/L	NS	NS	NS	NS	NS	NS	NS
4-Chlorotoluene	ug/L	NS	NS	NS	NS	NS	NS	NS
1,3,5-Trimethylbenzene	ug/L	NS	NS	NS	NS	NS	NS	NS
tert-Butylbenzene	ug/L	NS	NS	NS	NS	NS	NS	NS
1,2,4-Trimethylbenzene	ug/L	NS	NS	NS	NS	NS	NS	NS
sec-Butylbenzene	ug/L	NS	NS	NS	NS	NS	NS	NS
1,3-Dichlorobenzene	ug/L	NS	NS	NS	NS	NS	NS	NS
1,4-Dichlorobenzene	ug/L	NS	NS	NS	NS	NS	NS	NS
p-Isopropyltoluene	ug/L	NS	NS	NS	NS	NS	NS	NS
1,2-Dichlorobenzene	ug/L	NS	NS	NS	NS	NS	NS	NS
n-Butylbenzene	ug/L	NS	NS	NS	NS	NS	NS	NS
1,2-Dibromo-3-Chloropropane	ug/L	NS	NS	NS	NS	NS	NS	NS
1,2,4-Trichlorobenzene	ug/L	NS	NS	NS	NS	NS	NS	NS
Hexachlorobutadiene	ug/L	NS	NS	NS	NS	NS	NS	NS
Naphthalene	ug/L	NS	NS	NS	NS	NS	NS	NS
1,2,3-Trichlorobenzene	ug/L	NS	NS	NS	NS	NS	NS	NS
Xylene (total)	ug/L	NS	NS	NS	NS	NS	NS	NS

SENECA ARMY DEPOT, ASH LANDFILL
GROUNDWATER ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

COMPOUND	MATRIX	PHASE II	PHASE II	PHASE II	PHASE II	PHASE II	PHASE II	PHASE II
	LOCATION	WATER	WATER	WATER	WATER	WATER	WATER	WATER
	DATE	MW46	MW47	MW47RE	MW48	MW49D	MW50D	MW51D
	ES ID	07/14/93	07/10/93	07/10/93	07/15/93	07/14/93	07/14/93	07/10/93
	LAB ID	MW46	MW47	MW47RE	MW48	MW49D	MW50D	MW51D
	UNITS	169023	166722	166722	169109	169025	169026	166723
SEMIVOLATILES								
Phenol	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethyl) ether	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzyl Alcohol	ug/L	NS	NS	NS	NS	NS	NS	NS
1,2-Dichlorobenzene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylphenol	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroisopropyl) ether	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methylphenol	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachloroethane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Nitrobenzene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Isophorone	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Nitrophenol	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dimethylphenol	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzoic acid	ug/L	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroethoxy) methane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dichlorophenol	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloro-3-methylphenol	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol	ug/L	25 U	25 U	25 U	25 U	25 U	25 U	25 U
2-Chloronaphthalene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline	ug/L	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Dimethylphthalate	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
3-Nitroaniline	ug/L	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Acenaphthene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrophenol	ug/L	25 U	25 U	25 U	25 U	25 U	25 U	25 U
4-Nitrophenol	ug/L	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Dibenzofuran	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrotoluene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Diethylphthalate	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chlorophenyl-phenylether	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Nitroaniline	ug/L	25 U	25 U	25 U	25 U	25 U	25 U	25 U
4,6-Dinitro-2-methylphenol	ug/L	25 U	25 U	25 U	25 U	25 U	25 U	25 U
N-Nitrosodiphenylamine (1)	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Bromophenyl-phenylether	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobenzene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pentachlorophenol	ug/L	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Phenanthrene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Carbazole	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-butylphthalate	ug/L	0.5 J	10 U	10 U	2 J	1 J	10	10 U
Fluoranthene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Butylbenzylphthalate	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate	ug/L	10 U	10 U	10 U	10 U	10 U	15 U	15 U
Di-n-octylphthalate	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U

SENECA ARMY DEPOT, ASH LANDFILL
GROUNDWATER ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

COMPOUND	MATRIX LOCATION DATE ES ID LAB ID UNITS	PHASE II WATER MW48 07/14/93 MW48 189023	PHASE II WATER MW47 07/10/93 MW47 188722	PHASE II WATER MW47RE 07/10/93 MW47RE 188722	PHASE II WATER MW48 07/15/93 MW48 189109	PHASE II WATER MW49D 07/14/93 MW49D 189025	PHASE II WATER MW50D 07/14/93 MW50D 189026	PHASE II WATER MW51D 07/10/93 MW51D 188723
PESTICIDES/PCBS								
alpha-BHC	ug/L	0.05 U	0.052 U	NS	0.05 U	0.05 U	0.05 U	0.05 U
beta-BHC	ug/L	0.05 U	0.052 U	NS	0.05 U	0.05 U	0.05 U	0.05 U
delta-BHC	ug/L	0.05 U	0.026 JP	NS	0.05 U	0.05 U	0.05 U	0.05 U
gamma-BHC (Lindane)	ug/L	0.05 U	0.052 U	NS	0.05 U	0.05 U	0.05 U	0.05 U
Heptachlor	ug/L	0.05 U	0.052 U	NS	0.05 U	0.05 U	0.05 U	0.05 U
Aldrin	ug/L	0.05 U	0.052 U	NS	0.05 U	0.05 U	0.05 U	0.05 U
Heptachlor epoxide	ug/L	0.05 U	0.052 U	NS	0.05 U	0.05 U	0.05 U	0.05 U
Endosulfan I	ug/L	0.05 U	0.052 U	NS	0.05 U	0.05 U	0.05 U	0.05 U
Dieldrin	ug/L	0.1 U	0.1 U	NS	0.1 U	0.1 U	0.1 U	0.1 U
4,4'-DDE	ug/L	0.1 U	0.1 U	NS	0.1 U	0.1 U	0.1 U	0.1 U
Endrin	ug/L	0.1 U	0.1 U	NS	0.1 U	0.1 U	0.1 U	0.1 U
Endosulfan II	ug/L	0.1 U	0.1 U	NS	0.1 U	0.1 U	0.1 U	0.1 U
4,4'-DDD	ug/L	0.1 U	0.1 U	NS	0.1 U	0.1 U	0.1 U	0.1 U
Endosulfan sulfate	ug/L	0.1 U	0.1 U	NS	0.1 U	0.1 U	0.1 U	0.1 U
4,4'-DDT	ug/L	0.1 U	0.1 U	NS	0.1 U	0.1 U	0.1 U	0.1 U
Methoxychlor	ug/L	0.5 U	0.52 U	NS	0.5 U	0.5 U	0.5 U	0.5 U
Endrin ketone	ug/L	0.1 U	0.1 U	NS	0.1 U	0.1 U	0.1 U	0.1 U
Endrin aldehyde	ug/L	0.1 U	0.1 U	NS	0.1 U	0.1 U	0.1 U	0.1 U
alpha-Chlordane	ug/L	0.05 U	0.052 U	NS	0.05 U	0.05 U	0.05 U	0.05 U
gamma-Chlordane	ug/L	0.05 U	0.052 U	NS	0.05 U	0.05 U	0.05 U	0.05 U
Toxaphene	ug/L	5 U	5.2 U	NS	5 U	5 U	5 U	5 U
Aroclor-1016	ug/L	1 U	1 U	NS	1 U	1 U	1 U	1 U
Aroclor-1221	ug/L	2 U	2.1 U	NS	2 U	2 U	2 U	2 U
Aroclor-1232	ug/L	1 U	1 U	NS	1 U	1 U	1 U	1 U
Aroclor-1242	ug/L	1 U	1 U	NS	1 U	1 U	1 U	1 U
Aroclor-1248	ug/L	1 U	1 U	NS	1 U	1 U	1 U	1 U
Aroclor-1254	ug/L	1 U	1 U	NS	1 U	1 U	1 U	1 U
Aroclor-1260	ug/L	1 U	1 U	NS	1 U	1 U	1 U	1 U
HERBICIDES								
2,4-D	ug/L	1 U	1 U	NS	1 U	1 U	1 U	1 U
2,4-DB	ug/L	1 U	1 U	NS	1 U	1 U	1 U	1 U
2,4,5-T	ug/L	0.1 U	0.1 U	NS	0.1 U	0.1 U	0.1 U	0.1 U
2,4,5-TP (Silvex)	ug/L	0.1 U	0.1 U	NS	0.1 U	0.1 U	0.1 U	0.1 U
Dalapon	ug/L	2.3 U	2.3 U	NS	2.3 U	2.3 U	2.3 U	2.3 U
Dicamba	ug/L	0.1 U	0.1 U	NS	0.1 U	0.1 U	0.1 U	0.1 U
Dichloroprop	ug/L	1 U	1 U	NS	1 U	1 U	1 U	1 U
Dinoseb	ug/L	0.5 U	0.5 U	NS	0.5 U	0.5 U	0.5 U	0.5 U
MCPA	ug/L	100 U	100 U	NS	100 U	100 U	100 U	100 U
MCPP	ug/L	100 U	100 U	NS	100 U	100 U	100 U	100 U
METALS								
Aluminum	ug/L	55300	17900	NS	22700 J	82.9 J	81.6 J	113 J
Antimony	ug/L	49.7 U	49.6 UJ	NS	49.5 U	53.6 R	49.7 R	49.8 UJ
Arsenic	ug/L	3.1 J	1.7 J	NS	3.9 J	1.4 U	1.4 U	1.4 UJ
Barium	ug/L	613	214	NS	259	95 J	65.9 J	81.2 J
Beryllium	ug/L	2.5 J	0.89 U	NS	1.8 J	0.9 U	0.89 U	0.9 U
Cadmium	ug/L	2.8 U	2.8 U	NS	2.8 U	2.8 U	2.8 U	2.8 U
Calcium	ug/L	459000	153000	NS	202000	86600	45900	103000
Chromium	ug/L	88.4	27.5 J	NS	36.2 J	2.7 U	2.7 U	2.7 UJ
Cobalt	ug/L	36.7 J	11.2 J	NS	27.8 J	5.5 U	5.5 U	5.5 U
Copper	ug/L	49.6	18 J	NS	14.4 J	5 J	7 J	4.7 U
Iron	ug/L	85600 J	23400	NS	34700 J	719 J	112 J	121
Lead	ug/L	23	8.3	NS	22	0.59 U	0.6 U	0.59 U
Magnesium	ug/L	43600	18700	NS	25800	20500	20800	15400
Manganese	ug/L	2770	814	NS	1230	96.9	72.2	81.7
Mercury	ug/L	0.41 J	0.09 UJ	NS	2.3	0.09 UJ	0.09 UJ	0.09 UJ
Nickel	ug/L	101	30 J	NS	50 J	7.5 U	7.4 U	7.5 UJ
Potassium	ug/L	11600	4730 J	NS	5520	2520 J	2800 J	774 J
Selenium	ug/L	2.9 J	1.5 UJ	NS	10 UJ	1.5 U	1.5 U	1.5 UJ
Silver	ug/L	7.2 J	5.5 U	NS	5.5 U	5.5 U	5.6 J	5.5 U
Sodium	ug/L	11700	11000	NS	10400	12200	21100	12100
Thallium	ug/L	2.6 U	2.6 U	NS	2.6 U	2.6 U	2.6 U	2.6 U
Vanadium	ug/L	81.9	27.3 J	NS	29.4 J	6.8 U	6.7 U	6.8 UJ
Zinc	ug/L	240	59.2 R	NS	149 J	22.3	23.4	14.4 R
Cyanide	ug/L	1.2 U	4.4 UJ	NS	1.2 U	1.7 J	1.4 J	5.3 UJ

SENECA ARMY DEPOT, ASH LANDFILL
GROUNDWATER ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

	MATRIX	PHASE II	PHASE II	PHASE II	PHASE II	PHASE II	PHASE II	PHASE II
	LOCATION	WATER	WATER	WATER	WATER	WATER	WATER	WATER
	DATE	MW51DRE	MW52D	MW53	MW53 RE	MW54D	MW55D	MW56
	ES ID	07/10/93	07/02/93	07/13/93	07/11/93	07/13/93	07/15/93	07/02/93
	LAB ID	MW51DRE	MW52D	MW53	MW53 RE	MW54D	MW55D	MW56
COMPOUND	UNITS	188723	188152	188602	188602R1	188603	189110	188153
Chloromethane	ug/L	NS	10 U	10 U	NS	10 U	10 U	10 U
Bromomethane	ug/L	NS	10 U	10 U	NS	10 U	10 U	10 U
Vinyl Chloride	ug/L	NS	10 U	10 U	NS	10 U	10 U	10 U
Chloroethane	ug/L	NS	10 U	10 U	NS	10 U	10 U	10 U
Methylene Chloride	ug/L	NS	10 U	10 U	NS	10 U	10 U	10 U
Acetone	ug/L	NS	10 U	10 U	NS	10 U	10 U	10 U
Carbon Disulfide	ug/L	NS	10 U	10 U	NS	10 U	10 U	10 U
1,1-Dichloroethene	ug/L	NS	10 U	10 U	NS	10 U	10 U	10 U
1,1-Dichloroethane	ug/L	NS	10 U	10 U	NS	10 U	10 U	10 U
1,2-Dichloroethene (total)	ug/L	NS	10 U	61	NS	10 U	10 U	10 U
Chloroform	ug/L	NS	10 U	10 U	NS	10 U	10 U	10 U
1,2-Dichloroethane	ug/L	NS	10 U	10 U	NS	10 U	10 U	10 U
2-Butanone	ug/L	NS	10 U	10 U	NS	10 U	10 U	10 U
1,1,1-Trichloroethane	ug/L	NS	10 U	10 U	NS	10 U	10 U	10 U
Carbon Tetrachloride	ug/L	NS	10 U	10 U	NS	10 U	10 U	10 U
Vinyl Acetate	ug/L	NS	NS	NS	NS	NS	NS	NS
Bromodichloromethane	ug/L	NS	10 U	10 U	NS	10 U	10 U	10 U
1,2-Dichloropropane	ug/L	NS	10 U	10 U	NS	10 U	10 U	10 U
cis-1,3-Dichloropropene	ug/L	NS	10 U	10 U	NS	10 U	10 U	10 U
Trichloroethene	ug/L	NS	10 U	4 J	NS	10 U	10 U	10 U
Dibromochloromethane	ug/L	NS	10 U	10 U	NS	10 U	10 U	10 U
1,1,2-Trichloroethane	ug/L	NS	10 U	10 U	NS	10 U	10 U	10 U
Benzene	ug/L	NS	10 U	10 U	NS	10 U	10 U	10 U
trans-1,3-Dichloropropene	ug/L	NS	10 U	10 U	NS	10 U	10 U	10 U
Bromoform	ug/L	NS	10 U	10 U	NS	10 U	10 U	10 U
4-Methyl-2-Pentanone	ug/L	NS	10 U	10 U	NS	10 U	10 U	10 U
2-Hexanone	ug/L	NS	10 U	10 U	NS	10 U	10 U	10 U
Tetrachloroethene	ug/L	NS	10 U	10 U	NS	10 U	10 U	10 U
1,1,2,2-Tetrachloroethane	ug/L	NS	10 U	10 U	NS	10 U	10 U	10 U
Toluene	ug/L	NS	10 U	10 U	NS	10 U	10 U	10 U
Chlorobenzene	ug/L	NS	10 U	10 U	NS	10 U	10 U	10 U
Ethylbenzene	ug/L	NS	10 U	10 U	NS	10 U	10 U	10 U
Styrene	ug/L	NS	10 U	10 U	NS	10 U	10 U	10 U
Xylene (total)	ug/L	NS	10 U	10 U	NS	10 U	10 U	10 U

SENECA ARMY DEPOT, ASH LANDFILL
GROUNDWATER ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

COMPOUND	MATRIX LOCATION DATE ES ID LAB ID UNITS	PHASE II WATER MW51DRE 07/10/93 MW51DRE 188723	PHASE II WATER MW52D 07/02/93 MW52D 188152	PHASE II WATER MW53 07/13/93 MW53 188602	PHASE II WATER MW53 RE 07/11/93 MW53 RE 188602R1	PHASE II WATER MW54D 07/13/93 MW54D 188603	PHASE II WATER MW55D 07/15/93 MW55D 189110	PHASE II WATER MW56 07/02/93 MW56 188153
VOC's (524.2)								
Dichlorodifluoromethane	ug/L	NS	NS	NS	NS	NS	NS	NS
Chloromethane	ug/L	NS	NS	NS	NS	NS	NS	NS
Vinyl Chloride	ug/L	NS	NS	NS	NS	NS	NS	NS
Bromomethane	ug/L	NS	NS	NS	NS	NS	NS	NS
Chloroethane	ug/L	NS	NS	NS	NS	NS	NS	NS
Trichlorofluoromethane	ug/L	NS	NS	NS	NS	NS	NS	NS
1,1-Dichloroethene	ug/L	NS	NS	NS	NS	NS	NS	NS
Acetone	ug/L	NS	NS	NS	NS	NS	NS	NS
Carbon Disulfide	ug/L	NS	NS	NS	NS	NS	NS	NS
Methylene Chloride	ug/L	NS	NS	NS	NS	NS	NS	NS
trans-1,2-Dichloroethene	ug/L	NS	NS	NS	NS	NS	NS	NS
1,1-Dichloroethane	ug/L	NS	NS	NS	NS	NS	NS	NS
2,2-Dichloropropane	ug/L	NS	NS	NS	NS	NS	NS	NS
cis-1,2-Dichloroethene	ug/L	NS	NS	NS	NS	NS	NS	NS
2-Butanone	ug/L	NS	NS	NS	NS	NS	NS	NS
Bromochloromethane	ug/L	NS	NS	NS	NS	NS	NS	NS
Chloroform	ug/L	NS	NS	NS	NS	NS	NS	NS
1,1,1-Trichloroethane	ug/L	NS	NS	NS	NS	NS	NS	NS
Carbon Tetrachloride	ug/L	NS	NS	NS	NS	NS	NS	NS
1,1-Dichloropropene	ug/L	NS	NS	NS	NS	NS	NS	NS
Benzene	ug/L	NS	NS	NS	NS	NS	NS	NS
1,2-Dichloroethane	ug/L	NS	NS	NS	NS	NS	NS	NS
Trichloroethene	ug/L	NS	NS	NS	NS	NS	NS	NS
1,2-Dichloropropane	ug/L	NS	NS	NS	NS	NS	NS	NS
Dibromomethane	ug/L	NS	NS	NS	NS	NS	NS	NS
Bromodichloromethane	ug/L	NS	NS	NS	NS	NS	NS	NS
cis-1,3-Dichloropropene	ug/L	NS	NS	NS	NS	NS	NS	NS
4-Methyl-2-Pentanone	ug/L	NS	NS	NS	NS	NS	NS	NS
Toluene	ug/L	NS	NS	NS	NS	NS	NS	NS
trans-1,3-Dichloropropene	ug/L	NS	NS	NS	NS	NS	NS	NS
1,1,2-Trichloroethane	ug/L	NS	NS	NS	NS	NS	NS	NS
Tetrachloroethene	ug/L	NS	NS	NS	NS	NS	NS	NS
1,3-Dichloropropane	ug/L	NS	NS	NS	NS	NS	NS	NS
2-Hexanone	ug/L	NS	NS	NS	NS	NS	NS	NS
Dibromochloromethane	ug/L	NS	NS	NS	NS	NS	NS	NS
1,2-Dibromoethane	ug/L	NS	NS	NS	NS	NS	NS	NS
Chlorobenzene	ug/L	NS	NS	NS	NS	NS	NS	NS
1,1,1,2-Tetrachloroethane	ug/L	NS	NS	NS	NS	NS	NS	NS
Ethylbenzene	ug/L	NS	NS	NS	NS	NS	NS	NS
Styrene	ug/L	NS	NS	NS	NS	NS	NS	NS
Bromoform	ug/L	NS	NS	NS	NS	NS	NS	NS
Isopropylbenzene	ug/L	NS	NS	NS	NS	NS	NS	NS
Bromobenzene	ug/L	NS	NS	NS	NS	NS	NS	NS
1,1,2,2-Tetrachloroethane	ug/L	NS	NS	NS	NS	NS	NS	NS
1,2,3-Trichloropropane	ug/L	NS	NS	NS	NS	NS	NS	NS
n-Propylbenzene	ug/L	NS	NS	NS	NS	NS	NS	NS
2-Chlorotoluene	ug/L	NS	NS	NS	NS	NS	NS	NS
4-Chlorotoluene	ug/L	NS	NS	NS	NS	NS	NS	NS
1,3,5-Trimethylbenzene	ug/L	NS	NS	NS	NS	NS	NS	NS
tert-Butylbenzene	ug/L	NS	NS	NS	NS	NS	NS	NS
1,2,4-Trimethylbenzene	ug/L	NS	NS	NS	NS	NS	NS	NS
sec-Butylbenzene	ug/L	NS	NS	NS	NS	NS	NS	NS
1,3-Dichlorobenzene	ug/L	NS	NS	NS	NS	NS	NS	NS
1,4-Dichlorobenzene	ug/L	NS	NS	NS	NS	NS	NS	NS
p-Isopropyltoluene	ug/L	NS	NS	NS	NS	NS	NS	NS
1,2-Dichlorobenzene	ug/L	NS	NS	NS	NS	NS	NS	NS
n-Butylbenzene	ug/L	NS	NS	NS	NS	NS	NS	NS
1,2-Dibromo-3-Chloropropane	ug/L	NS	NS	NS	NS	NS	NS	NS
1,2,4-Trichlorobenzene	ug/L	NS	NS	NS	NS	NS	NS	NS
Hexachlorobutadiene	ug/L	NS	NS	NS	NS	NS	NS	NS
Naphthalene	ug/L	NS	NS	NS	NS	NS	NS	NS
1,2,3-Trichlorobenzene	ug/L	NS	NS	NS	NS	NS	NS	NS
Xylene (total)	ug/L	NS	NS	NS	NS	NS	NS	NS

SENECA ARMY DEPOT, ASH LANDFILL
GROUNDWATER ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

	MATRIX	PHASE II WATER	PHASE II WATER	PHASE II WATER	PHASE II WATER	PHASE II WATER	PHASE II WATER	PHASE II WATER
	LOCATION	MW51DRE	MW52D	MW53	MW53 RE	MW54D	MW55D	MW56
	DATE	07/10/93	07/02/93	07/13/93	07/11/93	07/13/93	07/15/93	07/02/93
	ES ID	MW51DRE	MW52D	MW53	MW53 RE	MW54D	MW55D	MW56
	LAB ID	188723	188152	188802	188802R1	188803	189110	188153
COMPOUND	UNITS							
SEMIVOLATILES								
Phenol	ug/L	10 U	11 U	10 U	NS	10 U	10 U	13 U
bis(2-Chloroethyl) ether	ug/L	10 U	11 U	10 U	NS	10 U	10 U	13 U
2-Chlorophenol	ug/L	10 U	11 U	10 U	NS	10 U	10 U	13 U
1,3-Dichlorobenzene	ug/L	10 U	11 U	10 U	NS	10 U	10 U	13 U
1,4-Dichlorobenzene	ug/L	10 U	11 U	10 U	NS	10 U	10 U	13 U
Benzyl Alcohol	ug/L	NS	NS	NS	NS	NS	NS	NS
1,2-Dichlorobenzene	ug/L	10 U	11 U	10 U	NS	10 U	10 U	13 U
2-Methylphenol	ug/L	10 U	11 U	10 U	NS	10 U	10 U	13 U
bis(2-Chloroisopropyl) ether	ug/L	10 U	11 U	10 U	NS	10 U	10 U	13 U
4-Methylphenol	ug/L	10 U	11 U	10 U	NS	10 U	10 U	13 U
N-Nitroso-di-n-propylamine	ug/L	10 U	11 U	10 U	NS	10 U	10 U	13 U
Hexachloroethane	ug/L	10 U	11 U	10 U	NS	10 U	10 U	13 U
Nitrobenzene	ug/L	10 U	11 U	10 U	NS	10 U	10 U	13 U
Isophorone	ug/L	10 U	11 U	10 U	NS	10 U	10 U	13 U
2-Nitrophenol	ug/L	10 U	11 U	10 U	NS	10 U	10 U	13 U
2,4-Dimethylphenol	ug/L	10 U	11 U	10 U	NS	10 U	10 U	13 U
Benzoic acid	ug/L	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroethoxy) methane	ug/L	10 U	11 U	10 U	NS	10 U	10 U	13 U
2,4-Dichlorophenol	ug/L	10 U	11 U	10 U	NS	10 U	10 U	13 U
1,2,4-Trichlorobenzene	ug/L	10 U	11 U	10 U	NS	10 U	10 U	13 U
Naphthalene	ug/L	10 U	11 U	10 U	NS	10 U	10 U	13 U
4-Chloroaniline	ug/L	10 U	11 U	10 U	NS	10 U	10 U	13 U
Hexachlorobutadiene	ug/L	10 U	11 U	10 U	NS	10 U	10 U	13 U
4-Chloro-3-methylphenol	ug/L	10 U	11 U	10 U	NS	10 U	10 U	13 U
2-Methylnaphthalene	ug/L	10 U	11 U	10 U	NS	10 U	10 U	13 U
Hexachlorocyclopentadiene	ug/L	10 U	11 U	10 U	NS	10 U	10 U	13 U
2,4,6-Trichlorophenol	ug/L	10 U	11 U	10 U	NS	10 U	10 U	13 U
2,4,5-Trichlorophenol	ug/L	25 U	27 U	25 U	NS	25 U	25 U	33 U
2-Chloronaphthalene	ug/L	10 U	11 U	10 U	NS	10 U	10 U	13 U
2-Nitroaniline	ug/L	25 U	27 U	25 U	NS	25 U	25 U	33 U
Dimethylphthalate	ug/L	10 U	11 U	10 U	NS	10 U	10 U	13 U
Acenaphthylene	ug/L	10 U	11 U	10 U	NS	10 U	10 U	13 U
2,6-Dinitrotoluene	ug/L	10 U	11 U	10 U	NS	10 U	10 U	13 U
3-Nitroaniline	ug/L	25 U	27 U	25 U	NS	25 U	25 U	33 U
Acenaphthene	ug/L	10 U	11 U	10 U	NS	10 U	10 U	13 U
2,4-Dinitrophenol	ug/L	25 U	27 U	25 U	NS	25 U	25 U	33 U
4-Nitrophenol	ug/L	25 U	27 U	25 U	NS	25 U	25 U	33 U
Dibenzofuran	ug/L	10 U	11 U	10 U	NS	10 U	10 U	13 U
2,4-Dinitrotoluene	ug/L	10 U	11 U	10 U	NS	10 U	10 U	13 U
Diethylphthalate	ug/L	10 U	11 U	10 U	NS	10 U	10 U	13 U
4-Chlorophenyl-phenylether	ug/L	10 U	11 U	10 U	NS	10 U	10 U	13 U
Fluorene	ug/L	10 U	11 U	10 U	NS	10 U	10 U	13 U
4-Nitroaniline	ug/L	25 U	27 U	25 U	NS	25 U	25 U	33 U
4,6-Dinitro-2-methylphenol	ug/L	25 U	27 U	25 U	NS	25 U	25 U	33 U
N-Nitrosodiphenylamine (1)	ug/L	10 U	11 U	10 U	NS	10 U	10 U	13 U
4-Bromophenyl-phenylether	ug/L	10 U	11 U	10 U	NS	10 U	10 U	13 U
Hexachlorobenzene	ug/L	10 U	11 U	10 U	NS	10 U	10 U	13 U
Pentachlorophenol	ug/L	25 U	27 U	25 U	NS	25 U	25 U	33 U
Phenanthrene	ug/L	10 U	11 U	10 U	NS	10 U	10 U	13 U
Anthracene	ug/L	10 U	11 U	10 U	NS	10 U	10 U	13 U
Carbazole	ug/L	10 U	11 U	10 U	NS	10 U	10 U	13 U
Di-n-butylphthalate	ug/L	10 U	9 J	1 J	NS	1 J	9 J	13 U
Fluoranthene	ug/L	10 U	11 U	10 U	NS	10 U	10 U	13 U
Pyrene	ug/L	10 U	11 U	10 U	NS	10 U	10 U	13 U
Butylbenzylphthalate	ug/L	10 U	11 U	10 U	NS	10 U	10 U	13 U
3,3'-Dichlorobenzidine	ug/L	10 U	11 U	10 U	NS	10 U	10 U	13 U
Benzo(a)anthracene	ug/L	10 U	11 U	10 U	NS	10 U	10 U	13 U
Chrysene	ug/L	10 U	11 U	10 U	NS	10 U	10 U	13 U
bis(2-Ethylhexyl)phthalate	ug/L	10 U	17 U	10 U	NS	10 U	13 U	78 U
Di-n-octylphthalate	ug/L	10 U	11 U	10 U	NS	10 U	10 U	13 U
Benzo(b)fluoranthene	ug/L	10 U	11 U	10 U	NS	10 U	10 U	13 U
Benzo(k)fluoranthene	ug/L	10 U	11 U	10 U	NS	10 U	10 U	13 U
Benzo(a)pyrene	ug/L	10 U	11 U	10 U	NS	10 U	10 U	13 U
Indeno(1,2,3-cd)pyrene	ug/L	10 U	11 U	10 U	NS	10 U	10 U	13 U
Dibenz(a,h)anthracene	ug/L	10 U	11 U	10 U	NS	10 U	10 U	13 U
Benzo(g,h,i)perylene	ug/L	10 U	11 U	10 U	NS	10 U	10 U	13 U

SENECA ARMY DEPOT, ASH LANDFILL
GROUNDWATER ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

COMPOUND	MATRIX LOCATION DATE ES ID LAB ID UNITS		PHASE II WATER MW51DRE 07/10/93 MW51DRE 188723	PHASE II WATER MW52D 07/02/93 MW52D 188152	PHASE II WATER MW53 07/13/93 MW53 188602	PHASE II WATER MW53 RE 07/11/93 MW53 RE 188602R1	PHASE II WATER MW54D 07/13/93 MW54D 188803	PHASE II WATER MW55D 07/15/93 MW55D 189110	PHASE II WATER MW56 07/02/93 MW56 188153
PESTICIDES/PCBS									
alpha-BHC	ug/L	NS	0.05 UJ	0.05 U	NS	0.05 U	0.05 UJ	0.051 U	
beta-BHC	ug/L	NS	0.05 UJ	0.05 U	NS	0.05 U	0.05 UJ	0.051 U	
delta-BHC	ug/L	NS	0.05 UJ	0.05 U	NS	0.05 U	0.05 UJ	0.051 U	
gamma-BHC (Lindane)	ug/L	NS	0.05 UJ	0.05 U	NS	0.05 U	0.05 UJ	0.051 U	
Heptachlor	ug/L	NS	0.05 UJ	0.05 U	NS	0.05 U	0.05 UJ	0.051 U	
Aldrin	ug/L	NS	0.05 UJ	0.05 U	NS	0.05 U	0.05 UJ	0.051 U	
Heptachlor epoxide	ug/L	NS	0.05 UJ	0.05 U	NS	0.05 U	0.05 UJ	0.051 U	
Endosulfan I	ug/L	NS	0.05 UJ	0.05 U	NS	0.05 U	0.05 UJ	0.051 U	
Dieldrin	ug/L	NS	0.1 UJ	0.1 U	NS	0.1 U	0.1 UJ	0.1 U	
4,4'-DDE	ug/L	NS	0.1 UJ	0.1 U	NS	0.1 U	0.1 UJ	0.1 U	
Endrin	ug/L	NS	0.1 UJ	0.1 U	NS	0.1 U	0.1 UJ	0.1 U	
Endosulfan II	ug/L	NS	0.1 UJ	0.1 U	NS	0.1 U	0.1 UJ	0.1 U	
4,4'-DDD	ug/L	NS	0.1 UJ	0.1 U	NS	0.1 U	0.1 UJ	0.1 U	
Endosulfan sulfate	ug/L	NS	0.1 UJ	0.1 U	NS	0.1 U	0.1 UJ	0.1 U	
4,4'-DDT	ug/L	NS	0.1 UJ	0.1 U	NS	0.1 U	0.1 UJ	0.1 U	
Methoxychlor	ug/L	NS	0.5 UJ	0.5 U	NS	0.5 U	0.5 UJ	0.51 U	
Endrin ketone	ug/L	NS	0.1 UJ	0.1 U	NS	0.1 U	0.1 UJ	0.1 U	
Endrin aldehyde	ug/L	NS	0.1 UJ	0.1 U	NS	0.1 U	0.1 UJ	0.1 U	
alpha-Chlordane	ug/L	NS	0.05 UJ	0.05 U	NS	0.05 U	0.05 UJ	0.051 U	
gamma-Chlordane	ug/L	NS	0.05 UJ	0.05 U	NS	0.05 U	0.05 UJ	0.051 U	
Toxaphene	ug/L	NS	5 UJ	5 U	NS	5 U	5 UJ	5.1 U	
Aroclor-1016	ug/L	NS	1 UJ	1 U	NS	1 U	1 UJ	1 U	
Aroclor-1221	ug/L	NS	2 UJ	2 U	NS	2 U	2 UJ	2 U	
Aroclor-1232	ug/L	NS	1 UJ	1 U	NS	1 U	1 UJ	1 U	
Aroclor-1242	ug/L	NS	1 UJ	1 U	NS	1 U	1 UJ	1 U	
Aroclor-1248	ug/L	NS	1 UJ	1 U	NS	1 U	1 UJ	1 U	
Aroclor-1254	ug/L	NS	1 UJ	1 U	NS	1 U	1 UJ	1 U	
Aroclor-1260	ug/L	NS	1 UJ	1 U	NS	1 U	1 UJ	1 U	
HERBICIDES									
2,4-D	ug/L	NS	1 U	1 R	1 R	1 U	1 U	1 U	
2,4-DB	ug/L	NS	1 U	1 R	1 R	1 U	1 U	1 U	
2,4,5-T	ug/L	NS	0.1 U	0.1 R	0.1 R	0.1 U	0.1 U	0.1 U	
2,4,5-TP (Silvex)	ug/L	NS	0.1 U	0.1 R	0.1 R	0.1 U	0.1 U	0.1 U	
Dalapon	ug/L	NS	2.3 U	2.3 R	2.7 J	2.3 U	2.3 U	2.3 U	
Dicamba	ug/L	NS	0.1 U	0.1 R	0.1 R	0.1 U	0.1 U	0.1 U	
Dichloroprop	ug/L	NS	1 U	1 R	1 R	1 U	1 U	1 U	
Dinoseb	ug/L	NS	0.5 U	0.5 R	0.51 R	0.5 U	0.5 U	0.51 U	
MCPA	ug/L	NS	100 U	100 R	100 R	100 U	100 U	100 U	
MCPP	ug/L	NS	100 U	100 R	100 R	100 U	100 U	100 U	
METALS									
Aluminum	ug/L	NS	31200	47700	NS	246	4140 J	228000	
Antimony	ug/L	NS	49.7 UJ	56.1 R	NS	54.2 R	49.5 U	191 J	
Arsenic	ug/L	NS	2.8 J	5.3 J	NS	1.4 U	1.9 U	1.4 UJ	
Barium	ug/L	NS	271	325	NS	151 J	117 J	1460	
Beryllium	ug/L	NS	2.2 J	2.5 J	NS	0.9 U	0.89 U	11.7	
Cadmium	ug/L	NS	2.8 U	2.8 U	NS	2.8 U	2.8 U	2.8 U	
Calcium	ug/L	NS	23700 R	166000	NS	64600	8580	287000	
Chromium	ug/L	NS	23.8 J	76.2	NS	2.7 U	7.1 J	351 J	
Cobalt	ug/L	NS	8.3 J	54.5	NS	5.5 U	5.4 U	201	
Copper	ug/L	NS	13.9 J	70.5	NS	5.5 J	4.7 UJ	272	
Iron	ug/L	NS	24800	80900 J	NS	507 J	5310 J	379000	
Lead	ug/L	NS	14	25.8	NS	0.59 U	1.3 J	44.3	
Magnesium	ug/L	NS	11700	34400	NS	20700	2950 J	100000	
Manganese	ug/L	NS	340	2930	NS	145	86.2	10600	
Mercury	ug/L	NS	0.09 UJ	0.09 UJ	NS	0.09 UJ	0.09 U	0.13 J	
Nickel	ug/L	NS	33.4 J	107	NS	7.5 U	7.4 UJ	533 J	
Potassium	ug/L	NS	5020	9280	NS	2910 J	2670 J	24800	
Selenium	ug/L	NS	1.5 UJ	1.5 U	NS	1.5 U	1 UJ	1.5 UJ	
Silver	ug/L	NS	5.5 U	5.5 U	NS	5.5 U	5.4 U	5.4 U	
Sodium	ug/L	NS	126000	33000	NS	29500	114000	19500	
Thallium	ug/L	NS	2.6 U	2.6 U	NS	2.6 U	2.6 U	2.6 U	
Vanadium	ug/L	NS	28.1 J	71.2	NS	6.8 U	6.7 UJ	317 J	
Zinc	ug/L	NS	111	284	NS	8 J	57.9 R	1100	
Cyanide	ug/L	NS	10 UJ	1.8 J	NS	2.1 J	1.2 U	10 UJ	

SENECA ARMY DEPOT, ASH LANDFILL
GROUNDWATER ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

	MATRIX	PHASE II WATER	PHASE II WATER	PHASE II WATER	PHASE II WATER	PHASE II WATER	PHASE II WATER	PHASE II WATER
	LOCATION	MW57D	MW58D	MW60	MW62	MW64	MW66	MW68
	DATE	07/02/93	07/10/93	07/13/93	07/10/93	07/15/93	07/14/93	07/10/93
	ES ID	MW57D	MW58D	MW60	MW62	MW64	MW66	MW68
	LAB ID	186154	186724	186804	186726	189111	189027	186727
COMPOUND	UNITS							
Chloromethane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromomethane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl Chloride	ug/L	10 U	10 U	10 U	10 U	23000	10 U	10 U
Chloroethane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylene Chloride	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Carbon Disulfide	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1-Dichloroethene	ug/L	10 U	10 U	10 U	10 U	170	10 U	10 U
1,1-Dichloroethane	ug/L	10 U	10 U	10 U	10 U	150	10 U	10 U
1,2-Dichloroethene (total)	ug/L	10 U	10 U	47	80	74000	120	10 U
Chloroform	ug/L	10 U	10 U	10 U	10 U	5 J	10 U	10 U
1,2-Dichloroethane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Butanone	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,1-Trichloroethane	ug/L	10 U	10 U	10 U	10 U	72	10 U	10 U
Carbon Tetrachloride	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Vinyl Acetate	ug/L	NS	NS	NS	NS	NS	NS	NS
Bromodichloromethane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2-Dichloropropane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
cis-1,3-Dichloropropene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trichloroethene	ug/L	10 U	10 U	200	5 J	37000	46	10 U
Dibromochloromethane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,2-Trichloroethane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzene	ug/L	10 U	10 U	10 U	10 U	150	10 U	10 U
trans-1,3-Dichloropropene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bromoform	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-Pentanone	ug/L	10 U	10 U	10 U	10 U	77	10 U	10 U
2-Hexanone	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene	ug/L	10 U	10 U	10 U	10 U	2 J	10 U	10 U
1,1,2,2-Tetrachloroethane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Toluene	ug/L	10 U	10 U	10 U	10 U	900 J	10 U	10 U
Chlorobenzene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Ethylbenzene	ug/L	10 U	10 U	10 U	10 U	100	10 U	10 U
Styrene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Xylene (total)	ug/L	10 U	10 U	10 U	10 U	540	10 U	10 U

SENECA ARMY DEPOT, ASH LANDFILL
GROUNDWATER ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

COMPOUND	MATRIX LOCATION DATE ES ID LAB ID UNITS	PHASE II WATER MW57D 07/02/93 MW57D 188154	PHASE II WATER MW58D 07/10/93 MW58D 188724	PHASE II WATER MW80 07/13/93 MW80 188804	PHASE II WATER MW82 07/10/93 MW82 188726	PHASE II WATER MW84 07/15/93 MW84 189111	PHASE II WATER MW86 07/14/93 MW86 189027	PHASE II WATER MW88 07/10/93 MW88 188727
VOC's (524.2)								
Dichlorodifluoromethane	ug/L	NS	NS	NS	NS	NS	NS	NS
Chloromethane	ug/L	NS	NS	NS	NS	NS	NS	NS
Vinyl Chloride	ug/L	NS	NS	NS	NS	NS	NS	NS
Bromomethane	ug/L	NS	NS	NS	NS	NS	NS	NS
Chloroethane	ug/L	NS	NS	NS	NS	NS	NS	NS
Trichlorofluoromethane	ug/L	NS	NS	NS	NS	NS	NS	NS
1,1-Dichloroethene	ug/L	NS	NS	NS	NS	NS	NS	NS
Acetone	ug/L	NS	NS	NS	NS	NS	NS	NS
Carbon Disulfide	ug/L	NS	NS	NS	NS	NS	NS	NS
Methylene Chloride	ug/L	NS	NS	NS	NS	NS	NS	NS
trans-1,2-Dichloroethene	ug/L	NS	NS	NS	NS	NS	NS	NS
1,1-Dichloroethane	ug/L	NS	NS	NS	NS	NS	NS	NS
2,2-Dichloropropane	ug/L	NS	NS	NS	NS	NS	NS	NS
cis-1,2-Dichloroethene	ug/L	NS	NS	NS	NS	NS	NS	NS
2-Butanone	ug/L	NS	NS	NS	NS	NS	NS	NS
Bromochloromethane	ug/L	NS	NS	NS	NS	NS	NS	NS
Chloroform	ug/L	NS	NS	NS	NS	NS	NS	NS
1,1,1-Trichloroethane	ug/L	NS	NS	NS	NS	NS	NS	NS
Carbon Tetrachloride	ug/L	NS	NS	NS	NS	NS	NS	NS
1,1-Dichloropropene	ug/L	NS	NS	NS	NS	NS	NS	NS
Benzene	ug/L	NS	NS	NS	NS	NS	NS	NS
1,2-Dichloroethane	ug/L	NS	NS	NS	NS	NS	NS	NS
Trichloroethene	ug/L	NS	NS	NS	NS	NS	NS	NS
1,2-Dichloropropane	ug/L	NS	NS	NS	NS	NS	NS	NS
Dibromomethane	ug/L	NS	NS	NS	NS	NS	NS	NS
Bromodichloromethane	ug/L	NS	NS	NS	NS	NS	NS	NS
cis-1,3-Dichloropropene	ug/L	NS	NS	NS	NS	NS	NS	NS
4-Methyl-2-Pentanone	ug/L	NS	NS	NS	NS	NS	NS	NS
Toluene	ug/L	NS	NS	NS	NS	NS	NS	NS
trans-1,3-Dichloropropene	ug/L	NS	NS	NS	NS	NS	NS	NS
1,1,2-Trichloroethane	ug/L	NS	NS	NS	NS	NS	NS	NS
Tetrachloroethene	ug/L	NS	NS	NS	NS	NS	NS	NS
1,3-Dichloropropane	ug/L	NS	NS	NS	NS	NS	NS	NS
2-Hexanone	ug/L	NS	NS	NS	NS	NS	NS	NS
Dibromochloromethane	ug/L	NS	NS	NS	NS	NS	NS	NS
1,2-Dibromoethane	ug/L	NS	NS	NS	NS	NS	NS	NS
Chlorobenzene	ug/L	NS	NS	NS	NS	NS	NS	NS
1,1,1,2-Tetrachloroethane	ug/L	NS	NS	NS	NS	NS	NS	NS
Ethylbenzene	ug/L	NS	NS	NS	NS	NS	NS	NS
Styrene	ug/L	NS	NS	NS	NS	NS	NS	NS
Bromoform	ug/L	NS	NS	NS	NS	NS	NS	NS
Isopropylbenzene	ug/L	NS	NS	NS	NS	NS	NS	NS
Bromobenzene	ug/L	NS	NS	NS	NS	NS	NS	NS
1,1,2,2-Tetrachloroethane	ug/L	NS	NS	NS	NS	NS	NS	NS
1,2,3-Trichloropropane	ug/L	NS	NS	NS	NS	NS	NS	NS
n-Propylbenzene	ug/L	NS	NS	NS	NS	NS	NS	NS
2-Chlorotoluene	ug/L	NS	NS	NS	NS	NS	NS	NS
4-Chlorotoluene	ug/L	NS	NS	NS	NS	NS	NS	NS
1,3,5-Trimethylbenzene	ug/L	NS	NS	NS	NS	NS	NS	NS
tert-Butylbenzene	ug/L	NS	NS	NS	NS	NS	NS	NS
1,2,4-Trimethylbenzene	ug/L	NS	NS	NS	NS	NS	NS	NS
sec-Butylbenzene	ug/L	NS	NS	NS	NS	NS	NS	NS
1,3-Dichlorobenzene	ug/L	NS	NS	NS	NS	NS	NS	NS
1,4-Dichlorobenzene	ug/L	NS	NS	NS	NS	NS	NS	NS
p-Isopropyltoluene	ug/L	NS	NS	NS	NS	NS	NS	NS
1,2-Dichlorobenzene	ug/L	NS	NS	NS	NS	NS	NS	NS
n-Butylbenzene	ug/L	NS	NS	NS	NS	NS	NS	NS
1,2-Dibromo-3-Chloropropane	ug/L	NS	NS	NS	NS	NS	NS	NS
1,2,4-Trichlorobenzene	ug/L	NS	NS	NS	NS	NS	NS	NS
Hexachlorobutadiene	ug/L	NS	NS	NS	NS	NS	NS	NS
Naphthalene	ug/L	NS	NS	NS	NS	NS	NS	NS
1,2,3-Trichlorobenzene	ug/L	NS	NS	NS	NS	NS	NS	NS
Xylene (total)	ug/L	NS	NS	NS	NS	NS	NS	NS

SENECA ARMY DEPOT, ASH LANDFILL
GROUNDWATER ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

COMPOUND	MATRIX	PHASE II	PHASE II	PHASE II	PHASE II	PHASE II	PHASE II	PHASE II
	LOCATION	WATER	WATER	WATER	WATER	WATER	WATER	WATER
	DATE	MW57D	MW58D	MW60	MW62	MW64	MW66	MW68
	ES ID	07/02/93	07/10/93	07/13/93	07/10/93	07/15/93	07/14/93	07/10/93
	LAB ID	MW57D	MW58D	MW60	MW62	MW64	MW66	MW68
	UNITS	186154	186724	186804	186726	189111	189027	186727
SEMIVOLATILES								
Phenol	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethyl) ether	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,3-Dichlorobenzene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,4-Dichlorobenzene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzyl Alcohol	ug/L	NS	NS	NS	NS	NS	NS	NS
1,2-Dichlorobenzene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylphenol	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroisopropyl) ether	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methylphenol	ug/L	10 U	10 U	10 U	10 U	6 J	10 U	10 U
N-Nitroso-di-n-propylamine	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachloroethane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Nitrobenzene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Isophorone	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Nitrophenol	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dimethylphenol	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzoic acid	ug/L	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroethoxy) methane	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dichlorophenol	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	ug/L	10 U	10 U	10 U	10 U	85 J	10 U	10 U
4-Chloroaniline	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloro-3-methylphenol	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	ug/L	10 U	10 U	10 U	10 U	13 J	10 U	10 U
Hexachlorocyclopentadiene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol	ug/L	25 U	25 U	25 U	25 U	25 U	25 U	25 U
2-Chloronaphthalene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline	ug/L	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Dimethylphthalate	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
3-Nitroaniline	ug/L	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Acenaphthene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrophenol	ug/L	25 U	25 U	25 U	25 U	25 U	25 U	25 U
4-Nitrophenol	ug/L	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Dibenzofuran	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrotoluene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Diethylphthalate	ug/L	10 U	10 U	10 U	10 U	2 J	10 U	10 U
4-Chlorophenyl-phenylether	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Nitroaniline	ug/L	25 U	25 U	25 U	25 U	25 U	25 U	25 U
4,6-Dinitro-2-methylphenol	ug/L	25 U	25 U	25 U	25 U	25 U	25 U	25 U
N-Nitrosodiphenylamine (1)	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Bromophenyl-phenylether	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobenzene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pentachlorophenol	ug/L	25 U	25 U	25 U	25 U	74 J	25 U	25 U
Phenanthrene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Carbazole	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Di-n-butylphthalate	ug/L	10 U	10 U	2 J	10 U	2 J	0.6 J	9 J
Fluoranthene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Butylbenzylphthalate	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate	ug/L	44 U	10 U	10 U	12 U	10 U	10 U	10 U
Di-n-octylphthalate	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U

SENECA ARMY DEPOT, ASH LANDFILL
GROUNDWATER ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

COMPOUND	MATRIX LOCATION DATE ES ID LAB ID	UNITS	PHASE II WATER MW57D 07/02/93 MW57D 188154	PHASE II WATER MW58D 07/10/93 MW58D 188724	PHASE II WATER MW80 07/13/93 MW80 188804	PHASE II WATER MW82 07/10/93 MW82 188726	PHASE II WATER MW84 07/15/93 MW84 189111	PHASE II WATER MW86 07/14/93 MW86 189027	PHASE II WATER MW88 07/10/93 MW88 188727
PESTICIDES/PCBS									
alpha-BHC		ug/L	0.052 UJ	0.05 UJ	0.05 U	0.05 U	0.055 U	0.052 U	0.05 UJ
beta-BHC		ug/L	0.052 UJ	0.05 UJ	0.05 U	0.05 U	0.055 U	0.052 U	0.05 UJ
delta-BHC		ug/L	0.052 UJ	0.05 UJ	0.05 U	0.05 U	0.055 U	0.052 U	0.05 UJ
gamma-BHC (Lindane)		ug/L	0.052 UJ	0.05 UJ	0.05 U	0.05 U	0.055 U	0.052 U	0.05 UJ
Heptachlor		ug/L	0.052 UJ	0.05 UJ	0.05 U	0.05 U	0.055 U	0.052 U	0.05 UJ
Aldrin		ug/L	0.052 UJ	0.05 UJ	0.05 U	0.05 U	0.055 U	0.052 U	0.05 UJ
Heptachlor epoxide		ug/L	0.052 UJ	0.05 UJ	0.05 U	0.05 U	0.055 U	0.052 U	0.05 UJ
Endosulfan I		ug/L	0.052 UJ	0.05 UJ	0.05 U	0.05 U	0.055 U	0.052 U	0.05 UJ
Dieldrin		ug/L	0.1 UJ	0.1 UJ	0.1 U	0.1 U	0.11 U	0.1 U	0.1 UJ
4,4'-DDE		ug/L	0.1 UJ	0.1 UJ	0.1 U	0.1 U	0.11 U	0.1 U	0.1 UJ
Endrin		ug/L	0.1 UJ	0.1 UJ	0.1 U	0.1 U	0.11 U	0.1 U	0.1 UJ
Endosulfan II		ug/L	0.1 UJ	0.1 UJ	0.1 U	0.1 U	0.11 U	0.1 U	0.1 UJ
4,4'-DDD		ug/L	0.1 UJ	0.1 UJ	0.1 U	0.1 U	0.11 U	0.1 U	0.1 UJ
Endosulfan sulfate		ug/L	0.1 UJ	0.1 UJ	0.1 U	0.1 U	0.11 U	0.1 U	0.1 UJ
4,4'-DDT		ug/L	0.1 UJ	0.1 UJ	0.1 U	0.1 U	0.11 U	0.1 U	0.1 UJ
Methoxychlor		ug/L	0.52 UJ	0.5 UJ	0.5 U	0.5 U	0.55 U	0.52 U	0.5 UJ
Endrin ketone		ug/L	0.1 UJ	0.1 UJ	0.1 U	0.1 U	0.11 U	0.1 U	0.1 UJ
Endrin aldehyde		ug/L	0.1 UJ	0.1 UJ	0.1 U	0.1 U	0.11 U	0.1 U	0.1 UJ
alpha-Chlordane		ug/L	0.052 UJ	0.05 UJ	0.05 U	0.05 U	0.055 U	0.052 U	0.05 UJ
gamma-Chlordane		ug/L	0.052 UJ	0.05 UJ	0.05 U	0.05 U	0.055 U	0.052 U	0.05 UJ
Toxaphene		ug/L	5.2 UJ	5 UJ	5 U	5 U	5.5 U	5.2 U	5 UJ
Aroclor-1016		ug/L	1 UJ	1 UJ	1 U	1 U	1.1 U	1 U	1 UJ
Aroclor-1221		ug/L	2.1 UJ	2 UJ	2 U	2 U	2.2 U	2.1 U	2 UJ
Aroclor-1232		ug/L	1 UJ	1 UJ	1 U	1 U	1.1 U	1 U	1 UJ
Aroclor-1242		ug/L	1 UJ	1 UJ	1 U	1 U	1.1 U	1 U	1 UJ
Aroclor-1248		ug/L	1 UJ	1 UJ	1 U	1 U	1.1 U	1 U	1 UJ
Aroclor-1254		ug/L	1 UJ	1 UJ	1 U	1 U	1.1 U	1 U	1 UJ
Aroclor-1260		ug/L	1 UJ	1 UJ	1 U	1 U	1.1 U	1 U	1 UJ
HERBICIDES									
2,4-D		ug/L	1 U	1 U	1 U	1 U	1.2 U	1 U	1 U
2,4-DB		ug/L	1 U	1 U	1 U	1 U	1.2 U	1 U	1 U
2,4,5-T		ug/L	0.1 U	0.1 U	0.1 U	0.1 U	0.12 U	0.1 U	0.1 U
2,4,5-TP (Silvex)		ug/L	0.1 U	0.1 U	0.1 U	0.1 U	0.12 U	0.1 U	0.1 U
Dalapon		ug/L	2.3 U	2.3 U	2.3 U	2.3 U	2.7 U	2.3 U	2.3 U
Dicamba		ug/L	0.1 U	0.1 U	0.1 U	0.1 U	0.18	0.1 U	0.1 U
Dichloroprop		ug/L	1 U	1 U	1 U	1 U	1.2 U	1 U	1 U
Dinoseb		ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.58 U	0.5 U	0.5 U
MCPA		ug/L	100 U	100 U	100 U	100 U	120 U	100 U	100 U
MCPP		ug/L	100 U	100 U	100 U	100 U	120 U	100 U	100 U
METALS									
Aluminum		ug/L	18500	40100	84.7 J	142 J	45600 J	91200	76500
Antimony		ug/L	49.6 UJ	49.6 UJ	77.2 R	50 UJ	77.7	84.6 R	50 UJ
Arsenic		ug/L	2.8 J	3.3 J	1.4 U	1.4 UJ	6.3 J	2.3 J	4.3 J
Barium		ug/L	617	705	54.2 J	46.8 J	408	1190	1060
Beryllium		ug/L	1.2 J	3.5 J	0.89 U	0.9 U	2.4 J	4 J	5.4
Cadmium		ug/L	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U
Calcium		ug/L	61800	71400	116000	113000	365000	481000	75100
Chromium		ug/L	32.2 J	59.2 J	2.7 U	2.7 UJ	77.8 J	143	111 J
Cobalt		ug/L	11.3 J	19.8 J	5.5 U	5.5 U	40.3 J	57.4	36.7 J
Copper		ug/L	18.1 J	32.3	5.8 J	4.7 U	49.2 J	75.4	53.2
Iron		ug/L	31000	50200	93.8 J	162	75700 J	141000 J	91100
Lead		ug/L	6.7	13.5	0.6 U	0.6 U	132	20.1	16.3
Magnesium		ug/L	12300	19100	11400	12700	54700	57800	31300
Manganese		ug/L	791	1100	6.4 J	32.3	7560	3290	1410
Mercury		ug/L	0.09 UJ	0.09 UJ	0.09 UJ	0.09 UJ	0.18 J	0.25 J	0.09 UJ
Nickel		ug/L	37.3 J	65.8 J	7.4 U	7.5 UJ	99 J	169	118 J
Potassium		ug/L	4830 J	11200	1560 J	1260 J	11600	16400	21700
Selenium		ug/L	1.5 UJ	1.5 UJ	1.5 U	1.5 UJ	9.9 UJ	1.5 U	1.5 UJ
Silver		ug/L	5.5 U	5.5 U	5.5 U	5.5 U	5.5 U	5.5 U	5.5 U
Sodium		ug/L	148000	147000	28600	14800	38400	11900	149000
Thallium		ug/L	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
Vanadium		ug/L	28.8 J	67.1 J	6.8 U	6.8 UJ	64.6 J	128	123 J
Zinc		ug/L	67.2	122	3.1 J	7.2 R	257 J	383	186
Cyanide		ug/L	10 UJ	3.8 UJ	4 J	1.2 UJ	3.4 J	1.2 U	3.5 UJ

SENECA ARMY DEPOT, ASH LANDFILL
GROUNDWATER ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

		PHASE II
	MATRIX	WATER
	LOCATION	MW88RE
	DATE	07/10/93
	ES ID	MW88RE
	LAB ID	186727
COMPOUND	UNITS	
Chloromethane	ug/L	NS
Bromomethane	ug/L	NS
Vinyl Chloride	ug/L	NS
Chloroethane	ug/L	NS
Methylene Chloride	ug/L	NS
Acetone	ug/L	NS
Carbon Disulfide	ug/L	NS
1,1-Dichloroethene	ug/L	NS
1,1-Dichloroethane	ug/L	NS
1,2-Dichloroethene (total)	ug/L	NS
Chloroform	ug/L	NS
1,2-Dichloroethane	ug/L	NS
2-Butanone	ug/L	NS
1,1,1-Trichloroethane	ug/L	NS
Carbon Tetrachloride	ug/L	NS
Vinyl Acetate	ug/L	NS
Bromodichloromethane	ug/L	NS
1,2-Dichloropropane	ug/L	NS
cis-1,3-Dichloropropene	ug/L	NS
Trichloroethene	ug/L	NS
Dibromochloromethane	ug/L	NS
1,1,2-Trichloroethane	ug/L	NS
Benzene	ug/L	NS
trans-1,3-Dichloropropene	ug/L	NS
Bromoform	ug/L	NS
4-Methyl-2-Pentanone	ug/L	NS
2-Hexanone	ug/L	NS
Tetrachloroethene	ug/L	NS
1,1,2,2-Tetrachloroethane	ug/L	NS
Toluene	ug/L	NS
Chlorobenzene	ug/L	NS
Ethylbenzene	ug/L	NS
Styrene	ug/L	NS
Xylene (total)	ug/L	NS

SENECA ARMY DEPOT, ASH LANDFILL
GROUNDWATER ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

		PHASE II
	MATRIX	WATER
	LOCATION	MW88RE
	DATE	07/10/93
	ES ID	MW88RE
	LAB ID	188727
COMPOUND	UNITS	
VOC's (524.2)		
Dichlorodifluoromethane	ug/L	NS
Chloromethane	ug/L	NS
Vinyl Chloride	ug/L	NS
Bromomethane	ug/L	NS
Chloroethane	ug/L	NS
Trichlorofluoromethane	ug/L	NS
1,1-Dichloroethene	ug/L	NS
Acetone	ug/L	NS
Carbon Disulfide	ug/L	NS
Methylene Chloride	ug/L	NS
trans-1,2-Dichloroethene	ug/L	NS
1,1-Dichloroethane	ug/L	NS
2,2-Dichloropropane	ug/L	NS
cis-1,2-Dichloroethene	ug/L	NS
2-Butanone	ug/L	NS
Bromochloromethane	ug/L	NS
Chloroform	ug/L	NS
1,1,1-Trichloroethane	ug/L	NS
Carbon Tetrachloride	ug/L	NS
1,1-Dichloropropene	ug/L	NS
Benzene	ug/L	NS
1,2-Dichloroethane	ug/L	NS
Trichloroethene	ug/L	NS
1,2-Dichloropropane	ug/L	NS
Dibromomethane	ug/L	NS
Bromodichloromethane	ug/L	NS
cis-1,3-Dichloropropene	ug/L	NS
4-Methyl-2-Pentanone	ug/L	NS
Toluene	ug/L	NS
trans-1,3-Dichloropropene	ug/L	NS
1,1,2-Trichloroethane	ug/L	NS
Tetrachloroethene	ug/L	NS
1,3-Dichloropropane	ug/L	NS
2-Hexanone	ug/L	NS
Dibromochloromethane	ug/L	NS
1,2-Dibromoethane	ug/L	NS
Chlorobenzene	ug/L	NS
1,1,1,2-Tetrachloroethane	ug/L	NS
Ethylbenzene	ug/L	NS
Styrene	ug/L	NS
Bromoform	ug/L	NS
Isopropylbenzene	ug/L	NS
Bromobenzene	ug/L	NS
1,1,2,2-Tetrachloroethane	ug/L	NS
1,2,3-Trichloropropane	ug/L	NS
n-Propylbenzene	ug/L	NS
2-Chlorotoluene	ug/L	NS
4-Chlorotoluene	ug/L	NS
1,3,5-Trimethylbenzene	ug/L	NS
tert-Butylbenzene	ug/L	NS
1,2,4-Trimethylbenzene	ug/L	NS
sec-Butylbenzene	ug/L	NS
1,3-Dichlorobenzene	ug/L	NS
1,4-Dichlorobenzene	ug/L	NS
p-Isopropyltoluene	ug/L	NS
1,2-Dichlorobenzene	ug/L	NS
n-Butylbenzene	ug/L	NS
1,2-Dibromo-3-Chloropropane	ug/L	NS
1,2,4-Trichlorobenzene	ug/L	NS
Hexachlorobutadiene	ug/L	NS
Naphthalene	ug/L	NS
1,2,3-Trichlorobenzene	ug/L	NS
Xylene (total)	ug/L	

SENECA ARMY DEPOT, ASH LANDFILL
GROUNDWATER ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

		PHASE II
	MATRIX	WATER
	LOCATION	MW88RE
	DATE	07/10/93
	ES ID	MW88RE
	LAB ID	188727
COMPOUND	UNITS	
SEMIVOLATILES		
Phenol	ug/L	10 U
bis(2-Chloroethyl) ether	ug/L	10 U
2-Chlorophenol	ug/L	10 U
1,3-Dichlorobenzene	ug/L	10 U
1,4-Dichlorobenzene	ug/L	10 U
Benzyl Alcohol	ug/L	NS
1,2-Dichlorobenzene	ug/L	10 U
2-Methylphenol	ug/L	10 U
bis(2-Chloroisopropyl) ether	ug/L	10 U
4-Methylphenol	ug/L	10 U
N-Nitroso-di-n-propylamine	ug/L	10 U
Hexachloroethane	ug/L	10 U
Nitrobenzene	ug/L	10 U
Isophorone	ug/L	10 U
2-Nitrophenol	ug/L	10 U
2,4-Dimethylphenol	ug/L	10 U
Benzoic acid	ug/L	NS
bis(2-Chloroethoxy) methane	ug/L	10 U
2,4-Dichlorophenol	ug/L	10 U
1,2,4-Trichlorobenzene	ug/L	10 U
Naphthalene	ug/L	10 U
4-Chloroaniline	ug/L	10 U
Hexachlorobutadiene	ug/L	10 U
4-Chloro-3-methylphenol	ug/L	10 U
2-Methylnaphthalene	ug/L	10 U
Hexachlorocyclopentadiene	ug/L	10 U
2,4,6-Trichlorophenol	ug/L	10 U
2,4,5-Trichlorophenol	ug/L	25 U
2-Chloronaphthalene	ug/L	10 U
2-Nitroaniline	ug/L	25 U
Dimethylphthalate	ug/L	10 U
Acenaphthylene	ug/L	10 U
2,6-Dinitrotoluene	ug/L	10 U
3-Nitroaniline	ug/L	25 U
Acenaphthene	ug/L	10 U
2,4-Dinitrophenol	ug/L	25 U
4-Nitrophenol	ug/L	25 U
Dibenzofuran	ug/L	10 U
2,4-Dinitrotoluene	ug/L	10 U
Diethylphthalate	ug/L	10 U
4-Chlorophenyl-phenylether	ug/L	10 U
Fluorene	ug/L	10 U
4-Nitroaniline	ug/L	25 U
4,6-Dinitro-2-methylphenol	ug/L	25 U
N-Nitrosodiphenylamine (1)	ug/L	10 U
4-Bromophenyl-phenylether	ug/L	10 U
Hexachlorobenzene	ug/L	10 U
Pentachlorophenol	ug/L	25 U
Phenanthrene	ug/L	10 U
Anthracene	ug/L	10 U
Carbazole	ug/L	10 U
Di-n-butylphthalate	ug/L	10 U
Fluoranthene	ug/L	10 U
Pyrene	ug/L	10 U
Butylbenzylphthalate	ug/L	10 U
3,3'-Dichlorobenzidine	ug/L	10 U
Benzo(a)anthracene	ug/L	10 U
Chrysene	ug/L	10 U
bis(2-Ethylhexyl)phthalate	ug/L	10 U
Di-n-octylphthalate	ug/L	10 U
Benzo(b)fluoranthene	ug/L	10 U
Benzo(k)fluoranthene	ug/L	10 U
Benzo(a)pyrene	ug/L	10 U
Indeno(1,2,3-cd)pyrene	ug/L	10 U
Dibenz(a,h)anthracene	ug/L	10 U
Benzo(g,h,i)perylene	ug/L	10 U

SENECA ARMY DEPOT, ASH LANDFILL
GROUNDWATER ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

COMPOUND	MATRIX LOCATION DATE ES ID LAB ID UNITS	PHASE II WATER MW88RE 07/10/93 MW88RE 188727
PESTICIDES/PCBS		
alpha-BHC	ug/L	NS
beta-BHC	ug/L	NS
delta-BHC	ug/L	NS
gamma-BHC (Lindane)	ug/L	NS
Heptachlor	ug/L	NS
Aldrin	ug/L	NS
Heptachlor epoxide	ug/L	NS
Endosulfan I	ug/L	NS
Dieldrin	ug/L	NS
4,4'-DDE	ug/L	NS
Endrin	ug/L	NS
Endosulfan II	ug/L	NS
4,4'-DDD	ug/L	NS
Endosulfan sulfate	ug/L	NS
4,4'-DDT	ug/L	NS
Methoxychlor	ug/L	NS
Endrin ketone	ug/L	NS
Endrin aldehyde	ug/L	NS
alpha-Chlordane	ug/L	NS
gamma-Chlordane	ug/L	NS
Toxaphene	ug/L	NS
Aroclor-1016	ug/L	NS
Aroclor-1221	ug/L	NS
Aroclor-1232	ug/L	NS
Aroclor-1242	ug/L	NS
Aroclor-1248	ug/L	NS
Aroclor-1254	ug/L	NS
Aroclor-1260	ug/L	NS
HERBICIDES		
2,4-D	ug/L	NS
2,4-DB	ug/L	NS
2,4,5-T	ug/L	NS
2,4,5-TP (Silvex)	ug/L	NS
Dalapon	ug/L	NS
Dicamba	ug/L	NS
Dichloroprop	ug/L	NS
Dinoseb	ug/L	NS
MCPA	ug/L	NS
MCPP	ug/L	NS
METALS		
Aluminum	ug/L	NS
Antimony	ug/L	NS
Arsenic	ug/L	NS
Barium	ug/L	NS
Beryllium	ug/L	NS
Cadmium	ug/L	NS
Calcium	ug/L	NS
Chromium	ug/L	NS
Cobalt	ug/L	NS
Copper	ug/L	NS
Iron	ug/L	NS
Lead	ug/L	NS
Magnesium	ug/L	NS
Manganese	ug/L	NS
Mercury	ug/L	NS
Nickel	ug/L	NS
Potassium	ug/L	NS
Selenium	ug/L	NS
Silver	ug/L	NS
Sodium	ug/L	NS
Thallium	ug/L	NS
Vanadium	ug/L	NS
Zinc	ug/L	NS
Cyanide	ug/L	NS

SENECA ARMY DEPOT, ASH LANDFILL
SURFACE WATER ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

	MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
	LOCATION	SW-100	SW-100	SW-300	SW-400	SW-800	SW-800	SW-800	SW-800	ASH	ASH	ASH
	DEPTH	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
	DATE	12/10/91	12/10/91	11/15/91	11/15/91	11/16/91	11/16/91	11/16/91	11/16/91	12/09/92	12/09/92	12/09/92
	ES ID	W1012119(3)	W1012119RE(4)	W1511-79	W1511-80	W1611-83	W1611-84(1)	W1911-83A(2)	W1911-84A(1)	SW-WD	SW-WE	RBSDSW-2
	LAB ID	150730	150730	149120	149121	149236	149237	149454	149455	175889	175890	175888
COMPOUND	UNITS											
Chloromethane	µg/L	10 U	NS	10 U	10 U	10 U	10 U	NS	NS	10 U	10 U	10 U
Bromomethane	µg/L	10 U	NS	10 U	10 U	10 U	10 U	NS	NS	10 U	10 U	10 U
Vinyl Chloride	µg/L	10 U	NS	10 U	10 U	10 U	10 U	NS	NS	10 U	10 U	10 U
Chloroethane	µg/L	10 U	NS	10 U	10 U	10 U	10 U	NS	NS	10 U	10 U	10 U
Methylene Chloride	µg/L	5 U	NS	5 U	5 U	5 U	5 U	NS	NS	10 U	10 U	10 U
Acetone	µg/L	10 U	NS	10 U	17 U	12 U	10 U	NS	NS	10 U	10 U	10 U
Carbon Disulfide	µg/L	5 U	NS	5 U	5 U	5 U	5 U	NS	NS	10 U	10 U	10 U
1,1-Dichloroethene	µg/L	5 U	NS	5 U	5 U	5 U	5 U	NS	NS	10 U	10 U	10 U
1,1-Dichloroethane	µg/L	5 U	NS	5 U	5 U	5 U	5 U	NS	NS	10 U	10 U	10 U
1,2-Dichloroethene (total)	µg/L	5 U	NS	5 U	5 U	5 U	5 U	NS	NS	10 U	10 U	10 U
Chloroform	µg/L	5 U	NS	5 U	2 J	5 U	5 U	NS	NS	10 U	10 U	10 U
1,2-Dichloroethane	µg/L	5 U	NS	5 U	5 U	5 U	5 U	NS	NS	10 U	10 U	10 U
2-Butanone	µg/L	10 U	NS	10 U	10 U	10 U	10 U	NS	NS	10 U	10 U	10 U
1,1,1-Trichloroethane	µg/L	5 U	NS	5 U	5 U	5 U	5 U	NS	NS	10 U	10 U	10 U
Carbon Tetrachloride	µg/L	5 U	NS	5 U	5 U	5 U	5 U	NS	NS	10 U	10 U	10 U
Vinyl Acetate	µg/L	10 U	NS	10 U	10 U	10 U	10 U	NS	NS	NS	NS	NS
Bromodichloromethane	µg/L	5 U	NS	5 U	5 U	5 U	5 U	NS	NS	10 U	10 U	10 U
1,2-Dichloropropane	µg/L	5 U	NS	5 U	5 U	5 U	5 U	NS	NS	10 U	10 U	10 U
cis-1,3-Dichloropropene	µg/L	5 U	NS	5 U	5 U	5 U	5 U	NS	NS	10 U	10 U	10 U
Trichloroethene	µg/L	5 U	NS	5 U	5 U	5 U	5 U	NS	NS	10 U	10 U	10 U
Dibromochloromethane	µg/L	5 U	NS	5 U	5 U	5 U	5 U	NS	NS	10 U	10 U	10 U
1,1,2-Trichloroethane	µg/L	5 U	NS	5 U	5 U	5 U	5 U	NS	NS	10 U	10 U	10 U
Benzene	µg/L	5 U	NS	5 U	5 U	5 U	5 U	NS	NS	10 U	10 U	10 U
trans-1,3-Dichloropropene	µg/L	5 U	NS	5 U	5 U	5 U	5 U	NS	NS	10 U	10 U	10 U
Bromoform	µg/L	5 U	NS	5 U	5 U	5 U	5 U	NS	NS	10 U	10 U	10 U
4-Methyl-2-Pentanone	µg/L	10 U	NS	10 U	10 U	10 U	10 U	NS	NS	10 U	10 U	10 U
2-Hexanone	µg/L	10 U	NS	10 U	10 U	10 U	10 U	NS	NS	10 U	10 U	10 U
Tetrachloroethene	µg/L	5 U	NS	5 U	5 U	5 U	5 U	NS	NS	10 U	10 U	10 U
1,1,2,2-Tetrachloroethane	µg/L	5 U	NS	5 U	5 U	5 U	5 U	NS	NS	10 U	10 U	10 U
Toluene	µg/L	5 U	NS	5 U	5 U	5 U	5 U	NS	NS	10 U	10 U	10 U
Chlorobenzene	µg/L	5 U	NS	5 U	5 U	5 U	5 U	NS	NS	10 U	10 U	10 U
Ethylbenzene	µg/L	5 U	NS	5 U	5 U	5 U	5 U	NS	NS	10 U	10 U	10 U
Styrene	µg/L	5 U	NS	5 U	5 U	5 U	5 U	NS	NS	10 U	10 U	10 U
Xylene (total)	µg/L	5 U	NS	5 U	5 U	5 U	5 U	NS	NS	10 U	10 U	10 U

NOTE: "NS" = NOT SAMPLED

SENECA ARMY DEPOT, ASH LANDFILL
SURFACE WATER ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

	MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
	LOCATION	SW-100	SW-100	SW-300	SW-400	SW-800	SW-800	SW-800	SW-800	ASH	ASH	ASH
	DEPTH	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
	DATE	12/10/91	12/10/91	11/15/91	11/15/91	11/16/91	11/16/91	11/16/91	11/16/91	12/09/92	12/09/92	12/09/92
	ES ID	W1012119(3)	W1012119RE(4)	W1511-79	W1511-80	W1611-83	W1611-84(1)	W1911-83A(2)	W1911-84A(1)	SW-WD	SW-WE	RBSDSW-2
	LAB ID	150730	150730	149120	149121	149236	149237	149454	149455	175889	175890	175888
COMPOUND	UNITS											
Semivolatiles												
Phenol	µg/L	10 U	NS	10 U	10 U	10 U	10 U	NS	NS	10 U	10 U	10 U
bis(2-Chloroethyl) ether	µg/L	10 U	NS	10 U	10 U	10 U	10 U	NS	NS	10 U	10 U	10 U
2-Chlorophenol	µg/L	10 U	NS	10 U	10 U	10 U	10 U	NS	NS	10 U	10 U	10 U
1,3-Dichlorobenzene	µg/L	10 U	NS	10 U	10 U	10 U	10 U	NS	NS	10 U	10 U	10 U
1,4-Dichlorobenzene	µg/L	10 U	NS	10 U	10 U	10 U	10 U	NS	NS	10 U	10 U	10 U
Benzyl Alcohol	µg/L	10 U	NS	10 U	10 U	10 U	10 U	NS	NS	NS	NS	NS
1,2-Dichlorobenzene	µg/L	10 U	NS	10 U	10 U	10 U	10 U	NS	NS	10 U	10 U	10 U
2-Methylphenol	µg/L	10 U	NS	10 U	10 U	10 U	10 U	NS	NS	10 U	10 U	10 U
bis(2-Chloroisopropyl) ether	µg/L	10 U	NS	10 U	10 U	10 U	10 U	NS	NS	10 U	10 U	10 U
4-Methylphenol	µg/L	10 U	NS	10 U	10 U	10 U	10 U	NS	NS	10 U	10 U	10 U
N-Nitroso-di-n-propylamine	µg/L	10 U	NS	10 U	10 U	10 U	10 U	NS	NS	10 U	10 U	10 U
Hexachloroethane	µg/L	10 U	NS	10 U	10 U	10 U	10 U	NS	NS	10 U	10 U	10 U
Nitrobenzene	µg/L	10 U	NS	10 U	10 U	10 U	10 U	NS	NS	10 U	10 U	10 U
Isophorone	µg/L	10 U	NS	10 U	10 U	10 U	10 U	NS	NS	10 U	10 U	10 U
2-Nitrophenol	µg/L	10 U	NS	10 U	10 U	10 U	10 U	NS	NS	10 U	10 U	10 U
2,4-Dimethylphenol	µg/L	10 U	NS	10 U	10 U	10 U	10 U	NS	NS	10 U	10 U	10 U
Benzoic acid	µg/L	50 U	NS	51 U	50 U	50 U	50 U	NS	NS	NS	NS	NS
bis(2-Chloroethoxy) methane	µg/L	10 U	NS	10 U	10 U	10 U	10 U	NS	NS	10 U	10 U	10 U
2,4-Dichlorophenol	µg/L	10 U	NS	10 U	10 U	10 U	10 U	NS	NS	10 U	10 U	10 U
1,2,4-Trichlorobenzene	µg/L	10 U	NS	10 U	10 U	10 U	10 U	NS	NS	10 U	10 U	10 U
Naphthalene	µg/L	10 U	NS	10 U	10 U	10 U	10 U	NS	NS	10 U	10 U	10 U
4-Chloroaniline	µg/L	10 U	NS	10 U	10 U	10 U	10 U	NS	NS	10 U	10 U	10 U
Hexachlorobutadiene	µg/L	10 U	NS	10 U	10 U	10 U	10 U	NS	NS	10 U	10 U	10 U
4-Chloro-3-methylphenol	µg/L	10 U	NS	10 U	10 U	10 U	10 U	NS	NS	10 U	10 U	10 U
2-Methylnaphthalene	µg/L	10 U	NS	10 U	10 U	10 U	10 U	NS	NS	10 U	10 U	10 U
Hexachlorocyclopentadiene	µg/L	10 U	NS	10 U	10 U	10 U	10 U	NS	NS	10 U	10 U	10 U
2,4,6-Trichlorophenol	µg/L	10 U	NS	10 U	10 U	10 U	10 U	NS	NS	10 U	10 U	10 U
2,4,5-Trichlorophenol	µg/L	50 U	NS	51 U	50 U	50 U	50 U	NS	NS	25 U	25 U	25 U
2-Chloronaphthalene	µg/L	10 U	NS	10 U	10 U	10 U	10 U	NS	NS	10 U	10 U	10 U
2-Nitroaniline	µg/L	50 U	NS	51 U	50 U	50 U	50 U	NS	NS	25 U	25 U	25 U
Dimethylphthalate	µg/L	10 U	NS	10 U	10 U	10 U	10 U	NS	NS	10 U	10 U	10 U
Acenaphthylene	µg/L	10 U	NS	10 U	10 U	10 U	10 U	NS	NS	10 U	10 U	10 U
2,6-Dinitrotoluene	µg/L	10 U	NS	10 U	10 U	10 U	10 U	NS	NS	10 U	10 U	10 U
3-Nitroaniline	µg/L	50 U	NS	51 U	50 U	50 U	50 U	NS	NS	25 U	25 U	25 U
Acenaphthene	µg/L	10 U	NS	10 U	10 U	10 U	10 U	NS	NS	10 U	10 U	10 U
2,4-Dinitrophenol	µg/L	50 U	NS	51 U	50 U	50 U	50 U	NS	NS	25 U	25 U	25 U
4-Nitrophenol	µg/L	50 U	NS	51 U	50 U	50 U	50 U	NS	NS	25 U	25 U	25 U
Dibenzofuran	µg/L	10 U	NS	10 U	10 U	10 U	10 U	NS	NS	10 U	10 U	10 U
2,4-Dinitrotoluene	µg/L	10 U	NS	10 U	10 U	10 U	10 U	NS	NS	10 U	10 U	10 U
Diethylphthalate	µg/L	10 U	NS	10 U	10 U	10 U	10 U	NS	NS	10 U	10 U	10 U
4-Chlorophenyl-phenylether	µg/L	10 U	NS	10 U	10 U	10 U	10 U	NS	NS	10 U	10 U	10 U
Fluorene	µg/L	10 U	NS	10 U	10 U	10 U	10 U	NS	NS	10 U	10 U	10 U
4-Nitroaniline	µg/L	50 U	NS	51 U	50 U	50 U	50 U	NS	NS	25 U	25 U	25 U
4,6-Dinitro-2-methylphenol	µg/L	50 U	NS	51 U	50 U	50 U	50 U	NS	NS	25 U	25 U	25 U
N-Nitrosodiphenylamine (1)	µg/L	10 U	NS	10 U	10 U	10 U	10 U	NS	NS	10 U	10 U	10 U
4-Bromophenyl-phenylether	µg/L	10 U	NS	10 U	10 U	10 U	10 U	NS	NS	10 U	10 U	10 U
Hexachlorobenzene	µg/L	10 U	NS	10 U	10 U	10 U	10 U	NS	NS	10 U	10 U	10 U
Pentachlorophenol	µg/L	50 U	NS	51 U	50 U	50 U	50 U	NS	NS	25 U	25 U	25 U
Phenanthrene	µg/L	10 U	NS	10 U	10 U	10 U	10 U	NS	NS	10 U	10 U	10 U
Anthracene	µg/L	10 U	NS	10 U	10 U	10 U	10 U	NS	NS	10 U	10 U	10 U
Carbazole	µg/L	NS	NS	NS	NS	NS	NS	NS	NS	10 U	10 U	10 U
Di-n-butylphthalate	µg/L	10 U	NS	10 U	10 U	10 U	10 U	NS	NS	10 U	10 U	0.3 J
Fluoranthene	µg/L	10 U	NS	10 U	10 U	10 U	10 U	NS	NS	10 U	10 U	10 U
Pyrene	µg/L	10 U	NS	10 U	10 U	10 U	10 U	NS	NS	10 U	10 U	10 U
Butylbenzylphthalate	µg/L	10 U	NS	10 U	10 U	10 U	10 U	NS	NS	10 U	10 U	10 U
3,3'-Dichlorobenzidine	µg/L	20 U	NS	21 U	20 U	20 U	20 U	NS	NS	10 U	10 U	10 U
Benzo(a)anthracene	µg/L	10 U	NS	10 U	10 U	10 U	10 U	NS	NS	10 U	10 U	10 U
Chrysene	µg/L	10 U	NS	10 U	10 U	10 U	10 U	NS	NS	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate	µg/L	10 U	NS	10 U	10 U	10 U	10 U	NS	NS	10 U	10 U	10 U
Di-n-octylphthalate	µg/L	10 U	NS	10 U	10 U	10 U	10 U	NS	NS	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	10 U	NS	10 U	10 U	10 U	10 U	NS	NS	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	10 U	NS	10 U	10 U	10 U	10 U	NS	NS	10 U	10 U	10 U
Benzo(a)pyrene	µg/L	10 U	NS	10 U	10 U	10 U	10 U	NS	NS	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	µg/L	10 U	NS	10 U	10 U	10 U	10 U	NS	NS	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	10 U	NS	10 U	10 U	10 U	10 U	NS	NS	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	10 U	NS	10 U	10 U	10 U	10 U	NS	NS	10 U	10 U	10 U

SENECA ARMY DEPOT, ASH LANDFILL
SURFACE WATER ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

	MATRIX	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
	LOCATION	SW-100	SW-100	SW-300	SW-400	SW-800	SW-800	SW-800	SW-800	ASH	ASH	ASH
	DEPTH	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
	DATE	12/10/91	12/10/91	11/15/91	11/15/91	11/16/91	11/16/91	11/16/91	11/16/91	12/09/92	12/09/92	12/09/92
	ES ID	W1012119(3)	W1012119RE(4)	W1511-79	W1511-80	W1611-83	W1611-84(1)	W1911-83A(2)	W1911-84A(1)	SW-WD	SW-WE	RBSDSW-2
	LAB ID	150730	150730	149120	149121	149236	149237	149454	149455	175889	175890	175888
COMPOUND	UNITS											
Pesticides/PCBs												
alpha-BHC	µg/L	0.05 U	0.05 U J	0.05 U	0.05 U	0.05 U	0.05 U	NS	NS	0.064 U	0.054 UJ	0.056 U
beta-BHC	µg/L	0.05 U	0.05 U J	0.05 U	0.05 U	0.05 U	0.05 U	NS	NS	0.064 U	0.054 UJ	0.056 U
delta-BHC	µg/L	0.05 U	0.05 U J	0.05 U	0.05 U	0.05 U	0.05 U	NS	NS	0.064 U	0.054 UJ	0.056 U
gamma-BHC (Lindane)	µg/L	0.05 U	0.05 U J	0.05 U	0.05 U	0.05 U	0.05 U	NS	NS	0.064 U	0.054 UJ	0.056 U
Heptachlor	µg/L	0.05 U	0.05 U J	0.05 U	0.05 U	0.05 U	0.05 U	NS	NS	0.064 U	0.054 UJ	0.056 U
Aldrin	µg/L	0.05 U	0.05 U J	0.05 U	0.05 U	0.05 U	0.05 U	NS	NS	0.064 U	0.054 UJ	0.056 U
Heptachlor epoxide	µg/L	0.05 U	0.05 U J	0.05 U	0.05 U	0.05 U	0.05 U	NS	NS	0.064 U	0.054 UJ	0.056 U
Endosulfan I	µg/L	0.05 U	0.05 U J	0.05 U	0.05 U	0.05 U	0.05 U	NS	NS	0.064 U	0.054 UJ	0.056 U
Dieldrin	µg/L	0.1 U	0.1 U J	0.1 U	0.099 U	0.1 U	0.1 U	NS	NS	0.13 U	0.11 UJ	0.11 U
4,4'-DDE	µg/L	0.1 U	0.1 U J	0.1 U	0.099 U	0.1 U	0.1 U	NS	NS	0.13 U	0.11 UJ	0.11 U
Endrin	µg/L	0.1 U	0.1 U J	0.1 U	0.099 U	0.1 U	0.1 U	NS	NS	0.13 U	0.11 UJ	0.11 U
Endosulfan II	µg/L	0.1 U	0.1 U J	0.1 U	0.099 U	0.1 U	0.1 U	NS	NS	0.13 U	0.11 UJ	0.11 U
4,4'-DDD	µg/L	0.1 U	0.1 U J	0.1 U	0.099 U	0.1 U	0.1 U	NS	NS	0.13 U	0.11 UJ	0.11 U
Endosulfan sulfate	µg/L	0.1 U	0.1 U J	0.1 U	0.099 U	0.1 U	0.1 U	NS	NS	0.13 U	0.11 UJ	0.11 U
4,4'-DDT	µg/L	0.1 U	0.1 U J	0.1 U	0.099 U	0.1 U	0.1 U	NS	NS	0.13 U	0.11 UJ	0.11 U
Methoxychlor	µg/L	0.5 U	0.5 U J	0.5 U	0.5 U	0.5 U	0.5 U	NS	NS	0.64 U	0.54 UJ	0.56 U
Endrin ketone	µg/L	0.1 U	0.1 U J	0.1 U	0.099 U	0.1 U	0.1 U	NS	NS	0.13 U	0.11 UJ	0.11 U
Endrin aldehyde	µg/L	NS	NS	NS	NS	NS	NS	NS	NS	0.13 U	0.11 UJ	0.11 U
alpha-Chlordane	µg/L	0.5 U	0.5 U J	0.5 U	0.5 U	0.5 U	0.5 U	NS	NS	0.064 U	0.054 UJ	0.056 U
gamma-Chlordane	µg/L	0.5 U	0.5 U J	0.5 U	0.5 U	0.5 U	0.5 U	NS	NS	0.064 U	0.054 UJ	0.056 U
Toxaphene	µg/L	1 U	1 U J	1 U	0.99 U	1 U	1 U	NS	NS	6.4 U	5.4 UJ	5.6 U
Arodor-1016	µg/L	0.5 U	0.5 U J	0.5 U	0.5 U	0.5 U	0.5 U	NS	NS	1.3 U	1.1 UJ	1.1 U
Arodor-1221	µg/L	0.5 U	0.5 U J	0.5 U	0.5 U	0.5 U	0.5 U	NS	NS	2.5 U	2.2 UJ	2.2 U
Arodor-1232	µg/L	0.5 U	0.5 U J	0.5 U	0.5 U	0.5 U	0.5 U	NS	NS	1.3 U	1.1 UJ	1.1 U
Arodor-1242	µg/L	0.5 U	0.5 U J	0.5 U	0.5 U	0.5 U	0.5 U	NS	NS	1.3 U	1.1 UJ	1.1 U
Arodor-1248	µg/L	0.5 U	0.5 U J	0.5 U	0.5 U	0.5 U	0.5 U	NS	NS	1.3 U	1.1 UJ	1.1 U
Arodor-1254	µg/L	1 U	1 U J	1 U	0.99 U	1 U	1 U	NS	NS	1.3 U	1.1 UJ	1.1 U
Arodor-1260	µg/L	1 U	1 U J	1 U	0.99 U	1 U	1 U	NS	NS	1.3 U	1.1 UJ	1.1 U
Herbicides												
2,4-D	µg/L	1 U	NS	1 U J	1 U J	1 U J	1 U J	NS	NS	1.2 U	1.3 U	1.1 U
2,4-DB	µg/L	1 U	NS	1 U J	1 U J	1 U J	1 U J	NS	NS	1.2 U	1.3 U	1.1 U
2,4,5-T	µg/L	0.1 U	NS	0.1 U J	0.1 U J	0.1 U J	0.1 U J	NS	NS	0.12 U	0.13 U	0.11 U
2,4,5-TP (Silvex)	µg/L	0.1 U	NS	0.1 U J	0.1 U J	0.1 U J	0.1 U J	NS	NS	0.12 U	0.13 U	0.11 U
Dalapon	µg/L	2.3 U	NS	2.4 U J	2.3 U J	2.3 U J	2.4 U J	NS	NS	2.8 U	3 U	2.5 U
Dicamba	µg/L	0.1 U	NS	0.1 U J	0.1 U J	0.1 U J	0.1 U J	NS	NS	0.12 U	0.13 U	0.11 U
Dichloroprop	µg/L	1 U	NS	1 U J	1 U J	1 U J	1 U J	NS	NS	1.2 U	1.3 U	1.1 U
Dinoseb	µg/L	0.5 U	NS	0.5 U J	0.5 U J	0.5 U J	0.5 U J	NS	NS	0.6 U	0.64 U	0.55 U
MCPA	µg/L	100 U	NS	100 U J	99 U J	100 U J	100 U J	NS	NS	120 U	130 U	110 U
MCPP	µg/L	100 U	NS	100 U J	99 U J	100 U J	100 U J	NS	NS	120 U	130 U	110 U
Metals												
Aluminum	µg/L	203 J	NS	2410 J	97.8 U J	97.6 U J	97.4 U J	–	–	599	2370	62.6 U
Antimony	µg/L	53.2 U J	NS	141 J	55.7 U J	55.6 U J	55.5 U J	–	–	54 U	53.9 U	54.1 U
Arsenic	µg/L	2.9 U J	NS	3.7 U J	3.7 U J	3.7 U J	3.7 U J	–	–	2.9 J	1.3 J	1.2 U
Barium	µg/L	35.4 J	NS	84.8 J	24.9 J	44.6 J	46.9 J	–	–	66.2 J	113 J	12 U
Beryllium	µg/L	1.2 J	NS	1.2 U J	1.2 U J	1.2 U J	1.2 U J	–	–	0.3 U	0.3 U	0.3 U
Cadmium	µg/L	3 U J	NS	2.9 U J	2.9 U J	2.9 U J	2.9 U J	–	–	3.1 U	3.1 U	3.1 U
Calcium	µg/L	104000 J	NS	125000 J	45800 J	71700 J	73400 J	–	–	99300	165000	204 U
Chromium	µg/L	6.2 U J	NS	7.6 J	6.2 U J	6.2 J	6.1 U J	–	–	2 U	4.3 J	2 U
Cobalt	µg/L	20.4 U J	NS	19.9 U J	19.9 U J	19.9 U J	19.8 U J	–	–	5 U	6.9 J	5 U
Copper	µg/L	15.7 J	NS	14.5 U J	14.4 U J	14.4 U J	14.4 U J	–	–	4.7 R	21.7 J	3.4 J
Iron	µg/L	218 J	NS	2080 J	17 U J	17 U J	16.9 U J	–	–	8750	3080	21.9 U
Lead	µg/L	1.2 U J	NS	14.4 R	0.7 U J	0.7 U J	0.7 U J	–	–	4.5	42.3	0.9 U
Magnesium	µg/L	13200 J	NS	11800 J	353 U J	9950 J	9960 J	–	–	12600	16700	284 U
Manganese	µg/L	6.3 J	NS	488 J	3.2 U J	3.2 U J	3.2 U J	–	–	941	860	0.7 U
Mercury	µg/L	0.06 U J	NS	0.06 U J	0.06 U J	0.06 U J	0.06 U J	–	–	0.06 U	0.15 J	0.06 U
Nickel	µg/L	14.7 U J	NS	16 U J	15.9 U J	15.9 U J	15.9 U J	–	–	3.5 U	11.2 J	3.5 U
Potassium	µg/L	828 J	NS	3850 J	4690 J	1830 J	1650 J	–	–	751 J	1740 J	446 U
Selenium	µg/L	1 U J	NS	1.7 U J	1.7 U J	1.7 U J	1.7 U J	–	–	1.1 J	3.4 J	1.1 U
Silver	µg/L	3.4 U J	NS	9.1 U J	9.1 U J	9 U J	9 U J	–	–	3.2 U	3.2 U	3.2 U
Sodium	µg/L	9470 J	NS	19400 J	2180000 J	83400 J	84200 J	–	–	8200	13200	299 U
Thallium	µg/L	2.8 U J	NS	2.8 U J	28 U J	2.8 U J	2.8 U J	–	–	2.6 U	2.6 U	2.6 U
Vanadium	µg/L	16.3 J	NS	30.5 U J	30.5 U J	30.4 U J	30.3 U J	–	–	2.1 U	5.2 J	2.1 U
Zinc	µg/L	28.6 U J	NS	187 J	166 U J	13.4 U J	19.6 U J	–	–	36.9 R	133	9.4 J
Cyanide	µg/L	10 U J	NS	10 U J	10 U J	–	–	10 U J	10 U J	10 U	10 U	10 U

SENECA ARMY DEPOT, ASH LANDFILL
SEDIMENT ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	SW-100	SW-100	SW-100	SW-200	SW-300	SW-400	SW-600	SW-600
	DEPTH	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	DATE	11/15/91	11/15/91	12/10/91	11/15/91	11/15/91	11/15/91	11/16/91	11/16/91
	ESID	S1511-78	S1611-83	S1012119	S1511-77	S1511-79	S1511-80	S1611-85	S1611-86(1)
	LAB ID	149231	149232	150727	149115	149116	149117	149233	149234
COMPOUND	UNITS								
VOCs									
Chloromethane	µg/Kg	15 U	13 U	21 U	16 U	18 U	22 U	14 U	13 U
Bromomethane	µg/Kg	15 U	13 U	21 U	16 U	18 U	22 U	14 U	13 U
Vinyl Chloride	µg/Kg	15 U	13 U	21 U	16 U	18 U	22 U	14 U	13 U
Chloroethane	µg/Kg	15 U	13 U	21 U	16 U	18 U	22 U	14 U	13 U
Methylene Chloride	µg/Kg	8 U	6 U	10 U	8 U	9 U	11 U	7 U	7 U
Acetone	µg/Kg	15 U	13 U	21 U	16 U	18 U	22 U	14 U	13 U
Carbon Disulfide	µg/Kg	8 U	6 U	10 U	8 U	9 U	11 U	7 U	7 U
1,1-Dichloroethene	µg/Kg	8 U	6 U	10 U	8 U	9 U	11 U	7 U	7 U
1,1-Dichloroethane	µg/Kg	8 U	6 U	10 U	8 U	9 U	11 U	7 U	7 U
1,2-Dichloroethene (total)	µg/Kg	8 U	6 U	10 U	8 U	9 U	11 U	7 U	7 U
Chloroform	µg/Kg	8 U	6 U	10 U	8 U	9 U	6 J	7 U	7 U
1,2-Dichloroethane	µg/Kg	8 U	6 U	10 U	8 U	9 U	11 U	7 U	7 U
2-Butanone	µg/Kg	15 U	13 U	21 U	16 U	18 U	22 U	14 U	13 U
1,1,1-Trichloroethane	µg/Kg	8 U	6 U	10 U	8 U	9 U	11 U	7 U	7 U
Carbon Tetrachloride	µg/Kg	8 U	6 U	10 U	8 U	9 U	11 U	7 U	7 U
Vinyl Acetate	µg/Kg	15 U	13 U	21 U	16 U	18 U	22 U	14 U	13 U
Bromodichloromethane	µg/Kg	8 U	6 U	10 U	8 U	9 U	11 U	7 U	7 U
1,2-Dichloropropane	µg/Kg	8 U	6 U	10 U	8 U	9 U	11 U	7 U	7 U
cis-1,3-Dichloropropene	µg/Kg	8 U	6 U	10 U	8 U	9 U	11 U	7 U	7 U
Trichloroethene	µg/Kg	8 U	6 U	10 U	8 U	9 U	11 U	7 U	7 U
Dibromochloromethane	µg/Kg	8 U	6 U	10 U	8 U	9 U	11 U	7 U	7 U
1,1,2-Trichloroethane	µg/Kg	8 U	6 U	10 U	8 U	9 U	11 U	7 U	7 U
Benzene	µg/Kg	8 U	6 U	10 U	8 U	9 U	11 U	7 U	7 U
trans-1,3-Dichloropropene	µg/Kg	8 U	6 U	10 U	8 U	9 U	11 U	7 U	7 U
Bromoform	µg/Kg	8 U	6 U	10 U	8 U	9 U	11 U	7 U	7 U
4-Methyl-2-Pentanone	µg/Kg	15 U	13 U	21 U	16 U	18 U	22 U	14 U	13 U
2-Hexanone	µg/Kg	15 U	13 U	21 U	16 U	18 U	22 U	14 U	13 U
Tetrachloroethene	µg/Kg	8 U	6 U	10 U	8 U	9 U	11 U	7 U	7 U
1,1,2,2-Tetrachloroethane	µg/Kg	8 U	6 U	10 U	8 U	9 U	11 U	7 U	7 U
Toluene	µg/Kg	8 U	6 U	10 U	8 U	9 U	11 U	7 U	7 U
Chlorobenzene	µg/Kg	8 U	6 U	10 U	8 U	9 U	11 U	7 U	7 U
Ethylbenzene	µg/Kg	8 U	6 U	10 U	8 U	9 U	11 U	7 U	7 U
Styrene	µg/Kg	8 U	6 U	10 U	8 U	9 U	11 U	7 U	7 U
Xylene (total)	µg/Kg	8 U	6 U	10 U	8 U	9 U	11 U	7 U	7 U

NOTE: "NS" = NOT SAMPLED

SENECA ARMY DEPOT, ASH LANDFILL
SEDIMENT ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	SW-100	SW-100	SW-100	SW-200	SW-300	SW-400	SW-600	SW-600
	DEPTH	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	DATE	11/15/91	11/15/91	12/10/91	11/15/91	11/15/91	11/15/91	11/16/91	11/16/91
	ESID	S1511-78	S1611-83	S1012119	S1511-77	S1511-79	S1511-80	S1611-85	S1611-86(1)
	LAB ID	149231	149232	150727	149115	149116	149117	149233	149234
COMPOUND	UNITS								
Semivolatiles									
Phenol	µg/Kg	1000 U	1200 U	NS	1100 U	1100 U	1200 U	880 U	940 U
bis(2-Chloroethyl) ether	µg/Kg	1000 U	1200 U	NS	1100 U	1100 U	1200 U	880 U	940 U
2-Chlorophenol	µg/Kg	1000 U	1200 U	NS	1100 U	1100 U	1200 U	880 U	940 U
1,3-Dichlorobenzene	µg/Kg	1000 U	1200 U	NS	1100 U	1100 U	1200 U	880 U	940 U
1,4-Dichlorobenzene	µg/Kg	1000 U	1200 U	NS	1100 U	1100 U	1200 U	880 U	940 U
Benzyl Alcohol	µg/Kg	1000 U	1200 U	NS	1100 U	1100 U	1200 U	880 U	940 U
1,2-Dichlorobenzene	µg/Kg	1000 U	1200 U	NS	1100 U	1100 U	1200 U	880 U	940 U
2-Methylphenol	µg/Kg	1000 U	1200 U	NS	1100 U	1100 U	1200 U	880 U	940 U
bis(2-Chloroisopropyl) ether	µg/Kg	1000 U	1200 U	NS	1100 U	1100 U	1200 U	880 U	940 U
4-Methylphenol	µg/Kg	1000 U	1200 U	NS	1100 U	1100 U	1200 U	880 U	940 U
N-Nitroso-di-n-propylamine	µg/Kg	1000 U	1200 U	NS	1100 U	1100 U	1200 U	880 U	940 U
Hexachloroethane	µg/Kg	1000 U	1200 U	NS	1100 U	1100 U	1200 U	880 U	940 U
Nitrobenzene	µg/Kg	1000 U	1200 U	NS	1100 U	1100 U	1200 U	880 U	940 U
Isophorone	µg/Kg	1000 U	1200 U	NS	1100 U	1100 U	1200 U	880 U	940 U
2-Nitrophenol	µg/Kg	1000 U	1200 U	NS	1100 U	1100 U	1200 U	880 U	940 U
2,4-Dimethylphenol	µg/Kg	1000 U	1200 U	NS	1100 U	1100 U	1200 U	880 U	940 U
Benzoic acid	µg/Kg	5000 U	6000 U	NS	5100 U	5100 U	5700 U	4300 U	4500 U
bis(2-Chloroethoxy) methane	µg/Kg	1000 U	1200 U	NS	1100 U	1100 U	1200 U	880 U	940 U
2,4-Dichlorophenol	µg/Kg	1000 U	1200 U	NS	1100 U	1100 U	1200 U	880 U	940 U
1,2,4-Trichlorobenzene	µg/Kg	1000 U	1200 U	NS	1100 U	1100 U	1200 U	880 U	940 U
Naphthalene	µg/Kg	1000 U	1200 U	NS	1100 U	1100 U	1200 U	880 U	940 U
4-Chloroaniline	µg/Kg	1000 U	1200 U	NS	1100 U	1100 U	1200 U	880 U	940 U
Hexachlorobutadiene	µg/Kg	1000 U	1200 U	NS	1100 U	1100 U	1200 U	880 U	940 U
4-Chloro-3-methylphenol	µg/Kg	1000 U	1200 U	NS	1100 U	1100 U	1200 U	880 U	940 U
2-Methylnaphthalene	µg/Kg	1000 U	1200 U	NS	1100 U	1100 U	1200 U	880 U	940 U
Hexachlorocyclopentadiene	µg/Kg	1000 U	1200 U	NS	1100 U	1100 U	1200 U	880 U	940 U
2,4,6-Trichlorophenol	µg/Kg	1000 U	1200 U	NS	1100 U	1100 U	1200 U	880 U	940 U
2,4,5-Trichlorophenol	µg/Kg	5000 U	6000 U	NS	5100 U	5100 U	5700 U	4300 U	4500 U
2-Chloronaphthalene	µg/Kg	1000 U	1200 U	NS	1100 U	1100 U	1200 U	880 U	940 U
2-Nitroaniline	µg/Kg	5000 U	6000 U	NS	5100 U	5100 U	5700 U	4300 U	4500 U
Dimethylphthalate	µg/Kg	1000 U	1200 U	NS	1100 U	1100 U	1200 U	880 U	940 U
Acenaphthylene	µg/Kg	1000 U	1200 U	NS	1100 U	1100 U	1200 U	120 J	170 J
2,6-Dinitrotoluene	µg/Kg	1000 U	1200 U	NS	1100 U	1100 U	1200 U	880 U	940 U
3-Nitroaniline	µg/Kg	5000 U	6000 U	NS	5100 U	5100 U	5700 U	4300 U	4500 U
Acenaphthene	µg/Kg	1000 U	1200 U	NS	1100 U	1100 U	1200 U	880 U	940 U
2,4-Dinitrophenol	µg/Kg	5000 U	6000 U	NS	5100 U	5100 U	5700 U	4300 U	4500 U
4-Nitrophenol	µg/Kg	5000 U	6000 U	NS	5100 U	5100 U	5700 U	4300 U	4500 U
Dibenzofuran	µg/Kg	1000 U	1200 U	NS	1100 U	1100 U	1200 U	880 U	940 U
2,4-Dinitrotoluene	µg/Kg	1000 U	1200 U	NS	1100 U	1100 U	1200 U	880 U	940 U
Diethylphthalate	µg/Kg	1000 U	1200 U	NS	1100 U	1100 U	1200 U	880 U	940 U
4-Chlorophenyl-phenylether	µg/Kg	1000 U	1200 U	NS	1100 U	1100 U	1200 U	880 U	940 U
Fluorene	µg/Kg	1000 U	1200 U	NS	1100 U	1100 U	1200 U	880 U	940 U
4-Nitroaniline	µg/Kg	5000 U	6000 U	NS	5100 U	5100 U	5700 U	4300 U	4500 U
4,6-Dinitro-2-methylphenol	µg/Kg	5000 U	6000 U	NS	5100 U	5100 U	5700 U	4300 U	4500 U
N-Nitrosodiphenylamine (1)	µg/Kg	1000 U	1200 U	NS	1100 U	1100 U	1200 U	880 U	940 U
4-Bromophenyl-phenylether	µg/Kg	1000 U	1200 U	NS	1100 U	1100 U	1200 U	880 U	940 U
Hexachlorobenzene	µg/Kg	1000 U	1200 U	NS	1100 U	1100 U	1200 U	880 U	940 U
Pentachlorophenol	µg/Kg	5000 U	6000 U	NS	5100 U	5100 U	5700 U	4300 U	4500 U
Phenanthrene	µg/Kg	1000 U	1200 U	NS	1100 U	1100 U	270 J	720 J	1200
Anthracene	µg/Kg	1000 U	1200 U	NS	1100 U	1100 U	1200 U	180 J	270 J
Carbazole	µg/Kg	NS	NS	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate	µg/Kg	1000 U	1200 U	NS	1100 U	1100 U	1200 U	880 U	940 U
Fluoranthene	µg/Kg	120 J	1200 U	NS	1100 U	130 J	830 J	5500	7400
Pyrene	µg/Kg	94 J	1200 U	NS	130 J	180 J	740 J	4400	6700
Butylbenzylphthalate	µg/Kg	1000 U	1200 U	NS	1100 U	1100 U	1200 U	880 U	940 U
3,3'-Dichlorobenzidine	µg/Kg	2000 U	2500 U	NS	2100 U	2100 U	2400 U	1800 U	1900 U
Benzo(a)anthracene	µg/Kg	1000 U	1200 U	NS	1100 U	97 J	410 J	3300	4900
Chrysene	µg/Kg	1000 U	1200 U	NS	1100 U	130 J	520 J	3600	5300
bis(2-Ethylhexyl)phthalate	µg/Kg	1000 U	1200 U	NS	100 J	210 J	1200 U	880 U J	4300 J
Di-n-octylphthalate	µg/Kg	1000 U	1200 U	NS	1100 U	1100 U	1200 U	880 U	940 U
Benzo(b)fluoranthene	µg/Kg	1000 U	1200 U	NS	1100 U	1100 U	450 J	3100	4500
Benzo(k)fluoranthene	µg/Kg	1000 U	1200 U	NS	1100 U	97 J	450 J	2400	3700
Benzo(a)pyrene	µg/Kg	1000 U	1200 U	NS	1100 U	110 J	460 J	2600	3900
Indeno(1,2,3-cd)pyrene	µg/Kg	1000 U	1200 U	NS	1100 U	1100 U	340 J	1700	2400
Dibenz(a,h)anthracene	µg/Kg	1000 U	1200 U	NS	1100 U	1100 U	160 J	690 J	1300
Benzo(g,h,i)perylene	µg/Kg	1000 U	1200 U	NS	1100 U	1100 U	340 J	1600	2300

SENECA ARMY DEPOT, ASH LANDFILL
SEDIMENT ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	SW-100	SW-100	SW-100	SW-200	SW-300	SW-400	SW-600	SW-600
	DEPTH	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	DATE	11/15/91	11/15/91	12/10/91	11/15/91	11/15/91	11/15/91	11/16/91	11/16/91
	ES ID	S1511-78	S1611-83	S1012119	S1511-77	S1511-79	S1511-80	S1611-85	S1611-86(1)
	LAB ID	149231	149232	150727	149115	149116	149117	149233	149234
COMPOUND	UNITS								
Pesticides/PCBs									
alpha-BHC	µg/Kg	25 U	30 U	NS	26 U	25 U	29 U	21 U	23 U
beta-BHC	µg/Kg	25 U	30 U	NS	26 U	25 U	29 U	21 U	23 U
delta-BHC	µg/Kg	25 U	30 U	NS	26 U	25 U	29 U	21 U	23 U
gamma-BHC (Lindane)	µg/Kg	25 U	30 U	NS	26 U	25 U	29 U	21 U	23 U
Heptachlor	µg/Kg	25 U	30 U	NS	26 U	25 U	29 U	21 U	23 U
Aldrin	µg/Kg	25 U	30 U	NS	26 U	25 U	29 U	21 U	23 U
Heptachlor epoxide	µg/Kg	25 U	30 U	NS	26 U	25 U	29 U	21 U	23 U
Endosulfan I	µg/Kg	25 U	30 U	NS	26 U	25 U	29 U	21 U	23 U
Dieldrin	µg/Kg	50 U	60 U	NS	51 U	51 U	57 U	43 U	45 U
4,4'-DDE	µg/Kg	50 U	60 U	NS	51 U	51 U	63	43 U	45 U
Endrin	µg/Kg	50 U	60 U	NS	51 U	51 U	57 U	43 U	45 U
Endosulfan II	µg/Kg	50 U	60 U	NS	51 U	51 U	57 U	43 U	45 U
4,4'-DDD	µg/Kg	50 U	60 U	NS	51 U	51 U	57 U	43 U	45 U
Endosulfan sulfate	µg/Kg	50 U	60 U	NS	51 U	51 U	57 U	43 U	45 U
4,4'-DDT	µg/Kg	50 U	60 U	NS	51 U	51 U	57 U	43 U	45 U
Methoxychlor	µg/Kg	250 U	300 U	NS	260 U	250 U	290 U	210 U	230 U
Endrin ketone	µg/Kg	50 U	60 U	NS	51 U	51 U	57 U	43 U	45 U
Endrin aldehyde	µg/Kg	NS	NS	NS	NS	NS	NS	NS	NS
alpha-Chlordane	µg/Kg	250 U	300 U	NS	260 U	250 U	290 U	210 U	230 U
gamma-Chlordane	µg/Kg	250 U	300 U	NS	260 U	250 U	290 U	210 U	230 U
Toxaphene	µg/Kg	500 U	600 U	NS	510 U	510 U	570 U	430 U	450 U
Aroclor-1016	µg/Kg	250 U	300 U	NS	260 U	250 U	290 U	210 U	230 U
Aroclor-1221	µg/Kg	250 U	300 U	NS	260 U	250 U	290 U	210 U	230 U
Aroclor-1232	µg/Kg	250 U	300 U	NS	260 U	250 U	290 U	210 U	230 U
Aroclor-1242	µg/Kg	250 U	300 U	NS	260 U	250 U	290 U	210 U	230 U
Aroclor-1248	µg/Kg	250 U	300 U	NS	260 U	250 U	290 U	210 U	230 U
Aroclor-1254	µg/Kg	500 U	600 U	NS	510 U	510 U	570 U	430 U	450 U
Aroclor-1260		500 U	600 U	NS	510 U	510 U	570 U	430 U	450 U
Herbicides									
2,4-D	µg/Kg	77 U J	94 U	NS	79 U J	79 U J	88 U J	67 U J	71 U J
2,4-DB	µg/Kg	77 U J	94 U	NS	79 U J	79 U J	88 U J	67 U J	71 U J
2,4,5-T	µg/Kg	8 U J	9 U	NS	8 U J	8 U J	9 U J	7 U J	7 U J
2,4,5-TP (Silvex)	µg/Kg	8 U J	9 U	NS	8 U J	8 U J	9 U J	7 U J	7 U J
Dalapon	µg/Kg	190 U J	230 U	NS	190 U J	190 U J	210 U J	160 U J	170 U J
Dicamba	µg/Kg	8 U J	9 U	NS	8 U J	8 U J	9 U J	7 U J	7 U J
Dichloroprop	µg/Kg	77 U J	94 U	NS	79 U J	79 U J	88 U J	67 U J	71 U J
Dinoseb	µg/Kg	39 U J	47 U	NS	40 U J	40 U J	44 U J	33 U J	36 U J
MCPA	µg/Kg	7700 U J	9400 U	NS	7900 U J	7900 U J	8800 U J	6700 U J	7100 U J
MCPP	µg/Kg	7700 U J	9400 U	NS	7900 U J	7900 U J	8800 U J	6700 U J	7100 U J
Metals									
Aluminum	mg/Kg	17400	17400	NS	14200	7340	12100	17400	20900
Antimony	mg/Kg	13.9 U	10.8 J	NS	12.9 U	9.1 U	11.1 U	9.4 U	12.6 U
Arsenic	mg/Kg	3	3.5	NS	7.9	3.4	8.7	8	10.5
Barium	mg/Kg	129	126	NS	110	52.7	79	157	227
Beryllium	mg/Kg	1.1 J	1 R	NS	0.9 J	0.45 J	0.75 J	1.1	1.2
Cadmium	mg/Kg	3.5	3.3	NS	2.3	2	2.3	3	3.9
Calcium	mg/Kg	10600	13600	NS	11400	229000	37300	9860	14200
Chromium	mg/Kg	26	25.4	NS	20.7	13.2	21.8	26.5	33.4
Cobalt	mg/Kg	8.7 J	11.7	NS	7.8 J	6.6 J	9.1 J	11.7	12.9
Copper	mg/Kg	58	58.6	NS	41.2	14.9	31.2	39.2	43
Iron	mg/Kg	26300	27900	NS	23600	16200	22900	33100	36400
Lead	mg/Kg	85.4	100	NS	26.7	23.9	63.7	219	197
Magnesium	mg/Kg	5000	5250	NS	4790	7240	11000	5460	6400
Manganese	mg/Kg	466	511 J	NS	462	1040	383	837	999
Mercury	mg/Kg	0.11 J	0.08	NS	0.1 J	0.08 J	0.12 J	0.12	0.07 J
Nickel	mg/Kg	28.1	28	NS	24.8	22	32	29.6	35.8
Potassium	mg/Kg	2150	1670	NS	2020	750 J	1740	1850	2510
Selenium	mg/Kg	0.66 J	0.52 J	NS	2 U	0.48 U	0.39 U	0.38 U	2.1 U
Silver	mg/Kg	2.1 U	0.69	NS	2.1 U	1.5 U	1.8 U	1.5 U	2 U
Sodium	mg/Kg	106 U	106	NS	74.6 U	140 J	97.9 J	54.4 U	80.2 J
Thallium	mg/Kg	0.71 U	0.52	NS	0.65 U	0.78 U	0.65 U	0.62 U	0.69 U
Vanadium	mg/Kg	26.1	23.6	NS	23.1	10.7	21.8	29	30.7
Zinc	mg/Kg	495	523	NS	144	276	661	448	600
Cyanide	mg/Kg	0.86 U	0.89	NS	0.92 U	0.85 U	1 U	0.7 U	0.82 U

SENECA ARMY DEPOT, ASH LANDFILL
SEDIMENT ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	SW-700	SW-700	SW-800	SW-900	SW-900	SW-901	ASH	ASH
	DEPTH	N/A	N/A	N/A	N/A	N/A	N/A		
	DATE	11/20/91	11/20/91	11/16/91	11/21/91	11/20/91	11/15/91	12/09/92	12/09/92
	ESID	S2011-88	S2011-88RE(4)	S1611-83	S2011-87	S2011-87	S1511-76	SD-WA	SD-WB
	LAB ID	149452	149452	149232	149451	149451	149114	175894	175895
COMPOUND	UNITS								
VOCs									
Chloromethane	µg/Kg	14 U	NS	NS	NS	32 U	NS	16 U	34 U
Bromomethane	µg/Kg	14 U	NS	NS	NS	32 U	NS	16 U	34 U
Vinyl Chloride	µg/Kg	14 U	NS	NS	NS	32 U	NS	16 U	34 U
Chloroethane	µg/Kg	14 U	NS	NS	NS	32 U	NS	16 U	34 U
Methylene Chloride	µg/Kg	7 U	NS	NS	NS	16 U	NS	16 U	34 U
Acetone	µg/Kg	14 U	NS	NS	NS	54 U	NS	16 U	34 U
Carbon Disulfide	µg/Kg	7 U	NS	NS	NS	16 U	NS	16 U	34 U
1,1-Dichloroethene	µg/Kg	7 U	NS	NS	NS	16 U	NS	16 U	15 J
1,1-Dichloroethane	µg/Kg	7 U	NS	NS	NS	16 U	NS	16 U	34 U
1,2-Dichloroethene (total)	µg/Kg	7 U	NS	NS	NS	16 U	NS	16 U	640
Chloroform	µg/Kg	7 U	NS	NS	NS	16 U	NS	4 J	34 U
1,2-Dichloroethane	µg/Kg	7 U	NS	NS	NS	16 U	NS	16 U	34 U
2-Butanone	µg/Kg	14 U	NS	NS	NS	32 U	NS	16 U	34 U
1,1,1-Trichloroethane	µg/Kg	7 U	NS	NS	NS	16 U	NS	16 U	34 U
Carbon Tetrachloride	µg/Kg	7 U	NS	NS	NS	16 U	NS	16 U	34 U
Vinyl Acetate	µg/Kg	14 U	NS	NS	NS	32 U	NS	NS	NS
Bromodichloromethane	µg/Kg	7 U	NS	NS	NS	16 U	NS	16 U	34 U
1,2-Dichloropropane	µg/Kg	7 U	NS	NS	NS	16 U	NS	16 U	34 U
cis-1,3-Dichloropropene	µg/Kg	7 U	NS	NS	NS	16 U	NS	16 U	34 U
Trichloroethene	µg/Kg	7 U	NS	NS	NS	16 U	NS	16 U	11 J
Dibromochloromethane	µg/Kg	7 U	NS	NS	NS	16 U	NS	16 U	34 U
1,1,2-Trichloroethane	µg/Kg	7 U	NS	NS	NS	16 U	NS	16 U	34 U
Benzene	µg/Kg	7 U	NS	NS	NS	16 U	NS	16 U	34 U
trans-1,3-Dichloropropene	µg/Kg	7 U	NS	NS	NS	16 U	NS	16 U	34 U
Bromoform	µg/Kg	7 U	NS	NS	NS	16 U	NS	16 U	34 U
4-Methyl-2-Pentanone	µg/Kg	14 U	NS	NS	NS	32 U	NS	16 U	34 U
2-Hexanone	µg/Kg	14 U	NS	NS	NS	32 U	NS	16 U	34 U
Tetrachloroethene	µg/Kg	7 U	NS	NS	NS	16 U	NS	16 U	34 U
1,1,2,2-Tetrachloroethane	µg/Kg	7 U	NS	NS	NS	16 U	NS	16 U	34 U
Toluene	µg/Kg	7 U	NS	NS	NS	16 U	NS	16 U	34 U
Chlorobenzene	µg/Kg	7 U	NS	NS	NS	16 U	NS	16 U	34 U
Ethylbenzene	µg/Kg	7 U	NS	NS	NS	16 U	NS	16 U	34 U
Styrene	µg/Kg	7 U	NS	NS	NS	16 U	NS	16 U	34 U
Xylene (total)	µg/Kg	7 U	NS	NS	NS	16 U	NS	16 U	34 U

SENECA ARMY DEPOT, ASH LANDFILL
SEDIMENT ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	SW-700	SW-700	SW-800	SW-900	SW-900	SW-901	ASH	ASH
	DEPTH	N/A	N/A	N/A	N/A	N/A	N/A		
	DATE	11/20/91	11/20/91	11/16/91	11/21/91	11/20/91	11/15/91	12/09/92	12/09/92
	ES ID	S2011-88	S2011-88RE(4)	S1611-63	S2011-87	S2011-87	S1511-76	SD-WA	SD-WB
	LAB ID	149452	149452	149232	149451	149451	149114	175894	175895
COMPOUND	UNITS								
Semivolatiles									
Phenol	µg/Kg	940 U	480 U	760 U	2100 U J	1100 U	930 U	440 U	430 UJ
bis(2-Chloroethyl) ether	µg/Kg	940 U	480 U	760 U	2100 U J	1100 U	930 U	440 U	430 UJ
2-Chlorophenol	µg/Kg	940 U	480 U	760 U	2100 U J	1100 U	930 U	440 U	430 UJ
1,3-Dichlorobenzene	µg/Kg	940 U	480 U	760 U	2100 U J	1100 U	930 U	440 U	430 UJ
1,4-Dichlorobenzene	µg/Kg	940 U	480 U	760 U	2100 U J	1100 U	930 U	440 U	430 UJ
Benzyl Alcohol	µg/Kg	940 U	480 U	760 U	2100 U J	1100 U	930 U	NS	NS
1,2-Dichlorobenzene	µg/Kg	940 U	480 U	760 U	2100 U J	1100 U	930 U	440 U	430 UJ
2-Methylphenol	µg/Kg	940 U	480 U	760 U	2100 U J	1100 U	930 U	440 U	430 UJ
bis(2-Chloroisopropyl) ether	µg/Kg	940 U	480 U	760 U	2100 U J	1100 U	930 U	440 U	430 UJ
4-Methylphenol	µg/Kg	940 U	480 U	760 U	2100 U J	100 J	930 U	440 U	430 UJ
N-Nitroso-di-n-propylamine	µg/Kg	940 U	480 U	760 U	2100 U J	1100 U	930 U	440 U	430 UJ
Hexachloroethane	µg/Kg	940 U	480 U	760 U	2100 U J	1100 U	930 U	440 U	430 UJ
Nitrobenzene	µg/Kg	940 U	480 U	760 U	2100 U J	1100 U	930 U	440 U	430 UJ
Isophorone	µg/Kg	940 U	480 U	760 U	2100 U J	1100 U	930 U	440 U	430 UJ
2-Nitrophenol	µg/Kg	940 U	480 U	760 U	2100 U J	1100 U	930 U	440 U	430 UJ
2,4-Dimethylphenol	µg/Kg	940 U	480 U	760 U	2100 U J	1100 U	930 U	440 U	430 UJ
Benzoic acid	µg/Kg	4600 U	2300 U	3700 U	10000 U J	5100 U	4500 U	NS	NS
bis(2-Chloroethoxy) methane	µg/Kg	940 U	480 U	760 U	2100 U J	1100 U	930 U	440 U	430 UJ
2,4-Dichlorophenol	µg/Kg	940 U	480 U	760 U	2100 U J	1100 U	930 U	440 U	430 UJ
1,2,4-Trichlorobenzene	µg/Kg	940 U	480 U	760 U	2100 U J	1100 U	930 U	440 U	430 UJ
Naphthalene	µg/Kg	940 U	480 U	760 U	2100 U J	1100 U	930 U	440 U	430 UJ
4-Chloroaniline	µg/Kg	940 U	480 U	760 U	2100 U J	1100 U	930 U	440 U	430 UJ
Hexachlorobutadiene	µg/Kg	940 U	480 U	760 U	2100 U J	1100 U	930 U	440 U	430 UJ
4-Chloro-3-methylphenol	µg/Kg	940 U	480 U	760 U	2100 U J	1100 U	930 U	440 U	430 UJ
2-Methylnaphthalene	µg/Kg	940 U	480 U	760 U	2100 U J	1100 U	930 U	440 U	430 UJ
Hexachlorocyclopentadiene	µg/Kg	940 U	480 U	760 U	2100 U J	1100 U	930 U	440 U	430 UJ
2,4,6-Trichlorophenol	µg/Kg	940 U	480 U	760 U	2100 U J	1100 U	930 U	440 U	430 UJ
2,4,5-Trichlorophenol	µg/Kg	4600 U	2300 U	3700 U	10000 U J	5100 U	4500 U	1100 U	1000 UJ
2-Chloronaphthalene	µg/Kg	940 U	480 U	760 U	2100 U J	1100 U	930 U	440 U	430 UJ
2-Nitroaniline	µg/Kg	4600 U	2300 U	3700 U	10000 U J	5100 U	4500 U	1100 U	1000 UJ
Dimethylphthalate	µg/Kg	940 U	480 U	760 U	2100 U J	1100 U	930 U	440 U	430 UJ
Acenaphthylene	µg/Kg	940 U	480 U	760 U	2100 U J	1100 U	930 U	440 U	430 UJ
2,6-Dinitrotoluene	µg/Kg	940 U	480 U	760 U	2100 U J	1100 U	930 U	440 U	430 UJ
3-Nitroaniline	µg/Kg	4600 U	2300 U	3700 U	10000 U J	5100 U	4500 U	1100 U	1000 UJ
Acenaphthene	µg/Kg	940 U	480 U	760 U	2100 U J	1100 U	930 U	440 U	430 UJ
2,4-Dinitrophenol	µg/Kg	4600 U	2300 U	3700 U	10000 U J	5100 U	4500 U	1100 U	1000 UJ
4-Nitrophenol	µg/Kg	4600 U	2300 U	3700 U	10000 U J	5100 U	4500 U	1100 U	1000 UJ
Dibenzofuran	µg/Kg	940 U	480 U	760 U	2100 U J	1100 U	930 U	440 U	430 UJ
2,4-Dinitrotoluene	µg/Kg	940 U	480 U	760 U	2100 U J	1100 U	930 U	440 U	430 UJ
Diethylphthalate	µg/Kg	940 U	480 U	760 U	2100 U J	1100 U	930 U	440 U	430 UJ
4-Chlorophenyl-phenylether	µg/Kg	940 U	480 U	760 U	2100 U J	1100 U	930 U	440 U	430 UJ
Fluorene	µg/Kg	940 U	480 U	760 U	2100 U J	1100 U	930 U	440 U	430 UJ
4-Nitroaniline	µg/Kg	4600 U	2300 U	3700 U	10000 U J	5100 U	4500 U	1100 U	1000 UJ
4,6-Dinitro-2-methylphenol	µg/Kg	4600 U	2300 U	3700 U	10000 U J	5100 U	4500 U	1100 U	1000 UJ
N-Nitrosodiphenylamine (1)	µg/Kg	940 U	480 U	760 U	2100 U J	1100 U	930 U	440 U	430 UJ
4-Bromophenyl-phenylether	µg/Kg	940 U	480 U	760 U	2100 U J	1100 U	930 U	440 U	430 UJ
Hexachlorobenzene	µg/Kg	940 U	480 U	760 U	2100 U J	1100 U	930 U	440 U	430 UJ
Pentachlorophenol	µg/Kg	4600 U	2300 U	3700 U	10000 U J	5100 U	4500 U	1100 U	1000 UJ
Phenanthrene	µg/Kg	940 U	480 U	760 U	2100 U J	1100 U	99 J	440 U	64 J
Anthracene	µg/Kg	940 U	480 U	760 U	2100 U J	1100 U	930 U	440 U	430 UJ
Carbazole	µg/Kg	NS	NS	NS	NS	NS	NS	440 U	430 UJ
Di-n-butylphthalate	µg/Kg	940 U	480 U	760 U	2100 U J	1100 U	930 U	440 U	430 UJ
Fluoranthene	µg/Kg	940 U	95 J	78 J	2100 U J	1100 U	130 J	440 U	110 J
Pyrene	µg/Kg	940 U	110 J	760 U	2100 U J	1100 U	140 J	440 U	100 J
Butylbenzylphthalate	µg/Kg	940 U	480 U	760 U	2100 U J	1100 U	930 U	440 U	430 UJ
3,3'-Dichlorobenzidine	µg/Kg	1900 U	960 U	1500 U	4200 U J	2100 U	1900 U	440 U	430 UJ
Benzo(a)anthracene	µg/Kg	940 U	59 J	760 U	2100 U J	1100 U	88 J	440 U	48 J
Chrysene	µg/Kg	940 U	84 J	760 U	2100 U J	1100 U	120 J	440 U	64 J
bis(2-Ethylhexyl)phthalate	µg/Kg	940 U	480 U	760 U	2100 U J	1100 U	100 J	440 U	430 UJ
Di-n-octylphthalate	µg/Kg	940 U	480 U	760 U	2100 U J	1100 U	930 U	440 U	430 UJ
Benzo(b)fluoranthene	µg/Kg	940 U	80 J	760 U	2100 U J	1100 U	96 J	440 U	47 J
Benzo(k)fluoranthene	µg/Kg	940 U	66 J	760 U	2100 U J	1100 U	930 U	440 U	52 J
Benzo(a)pyrene	µg/Kg	940 U	71 J	760 U	2100 U J	1100 U	100 J	440 U	35 J
Indeno(1,2,3-cd)pyrene	µg/Kg	940 U	480 U	760 U	2100 U J	1100 U	930 U	440 U	36 J
Dibenz(a,h)anthracene	µg/Kg	940 U	480 U	760 U	2100 U J	1100 U	930 U	440 U	430 UJ
Benzo(g,h,i)perylene	µg/Kg	940 U	480 U	760 U	2100 U J	1100 U	930 U	440 U	42 J

SENECA ARMY DEPOT, ASH LANDFILL
SEDIMENT ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	SW-700	SW-700	SW-800	SW-900	SW-900	SW-901	ASH	ASH
	DEPTH	N/A	N/A	N/A	N/A	N/A	N/A		
	DATE	11/20/91	11/20/91	11/16/91	11/21/91	11/20/91	11/15/91	12/09/92	12/09/92
	ES ID	S2011-88	S2011-88RE(4)	S1611-83	S2011-87	S2011-87	S1511-76	SD-WA	SD-WB
	LAB ID	149452	149452	149232	149451	149451	149114	175894	175895
COMPOUND	UNITS								
Pesticides/PCBs									
alpha-BHC	µg/Kg	23 U	NS	18 U	51 U	23 U	23 U	2.3 U	2.3 U
beta-BHC	µg/Kg	23 U	NS	18 U	51 U	23 U	23 U	2.3 U	2.3 U
delta-BHC	µg/Kg	23 U	NS	18 U	51 U	23 U	23 U	2.3 U	2.3 U
gamma-BHC (Lindane)	µg/Kg	23 U	NS	18 U	51 U	23 U	23 U	2.3 U	2.3 U
Heptachlor	µg/Kg	23 U	NS	18 U	51 U	23 U	23 U	2.3 U	2.3 U
Aldrin	µg/Kg	23 U	NS	18 U	51 U	23 U	23 U	2.3 U	2.3 U
Heptachlor epoxide	µg/Kg	23 U	NS	18 U	51 U	23 U	23 U	2.3 U	2.3 U
Endosulfan I	µg/Kg	23 U	NS	18 U	51 U	23 U	23 U	2.3 U	2.3 U
Dieldrin	µg/Kg	46 U	NS	37 U	100 U	46 U	45 U	4.5 U	4.4 U
4,4'-DDE	µg/Kg	46 U	NS	37 U	100 U	46 U	45 U	4.5 U	3.5 J
Endrin	µg/Kg	46 U	NS	37 U	100 U	46 U	45 U	4.5 U	4.4 U
Endosulfan II	µg/Kg	46 U	NS	37 U	100 U	46 U	45 U	4.5 U	4.4 U
4,4'-DDD	µg/Kg	46 U	NS	37 U	100 U	46 U	45 U	4.5 U	4.4 U
Endosulfan sulfate	µg/Kg	46 U	NS	37 U	100 U	46 U	45 U	4.5 U	2.1 J
4,4'-DDT	µg/Kg	46 U	NS	37 U	100 U	46 U	45 U	4.5 U	4.4 U
Methoxychlor	µg/Kg	230 U	NS	180 U	510 U	230 U	230 U	23 U	23 U
Endrin ketone	µg/Kg	46 U	NS	37 U	100 U	46 U	45 U	4.5 U	4.4 U
Endrin aldehyde	µg/Kg	NS	NS	NS	NS	NS	NS	4.5 U	4.4 U
alpha-Chlordane	µg/Kg	230 U	NS	180 U	510 U	230 U	230 U	2.3 U	2.3 U
gamma-Chlordane	µg/Kg	230 U	NS	180 U	510 U	230 U	230 U	2.3 U	2.3 U
Toxaphene	µg/Kg	460 U	NS	370 U	1000 U	460 U	450 U	230 U	230 U
Aroclor-1016	µg/Kg	230 U	NS	180 U	510 U	230 U	230 U	45 U	44 U
Aroclor-1221	µg/Kg	230 U	NS	180 U	510 U	230 U	230 U	91 U	89 U
Aroclor-1232	µg/Kg	230 U	NS	180 U	510 U	230 U	230 U	45 U	44 U
Aroclor-1242	µg/Kg	230 U	NS	180 U	510 U	230 U	230 U	45 U	44 U
Aroclor-1248	µg/Kg	230 U	NS	180 U	510 U	230 U	230 U	45 U	44 U
Aroclor-1254	µg/Kg	460 U	NS	370 U	1000 U	460 U	450 U	45 U	44 U
Aroclor-1260		460 U	NS	370 U	1000 U	460 U	450 U	45 U	44 U
Herbicides									
2,4-D	µg/Kg	71 U J	NS	57 U J	160 U J	NS	70 U J	68 U	66 U
2,4-DB	µg/Kg	71 U J	NS	57 U J	160 U J	NS	70 U J	68 U	66 U
2,4,5-T	µg/Kg	7 U J	NS	6 U J	16 U J	NS	7 U J	6.8 U	6.6 U
2,4,5-TP (Silvex)	µg/Kg	7 U J	NS	6 U J	16 U J	NS	7 U J	6.8 U	6.6 U
Dalapon	µg/Kg	170 U J	NS	140 U J	390 U J	NS	170 U J	160 U	160 U
Dicamba	µg/Kg	7 U J	NS	6 U J	16 U J	NS	7 U J	6.8 U	6.6 U
Dichloroprop	µg/Kg	71 U J	NS	57 U J	160 U J	NS	70 U J	68 U	66 U
Dinoseb	µg/Kg	36 U J	NS	29 U J	80 U J	NS	35 U J	34 U	33 U
MCPA	µg/Kg	7100 U J	NS	5700 U J	16000 U J	NS	7000 U J	6800 U	6600 U
MCPP	µg/Kg	7100 U J	NS	5700 U J	16000 U J	NS	7000 U J	6800 U	6600 U
Metals									
Aluminum	mg/Kg	12700 J	NS	13500	13900 J	NS	13000	14600	11900
Antimony	mg/Kg	11.8 U J	NS	11.3 U	35.4 U J	NS	15.4 U	11.6 UJ	8.7 UJ
Arsenic	mg/Kg	7.3 J	NS	5.7	9 J	NS	6.6	4.4 J	12.1 J
Barium	mg/Kg	120 J	NS	81.8	139 J	NS	100	81.5	111
Beryllium	mg/Kg	0.73 J	NS	0.81 J	1.1 J	NS	0.98 J	0.82 J	0.66 J
Cadmium	mg/Kg	2.4 J	NS	4.1	2.5 J	NS	2.8	0.66 U	0.5 U
Calcium	mg/Kg	46900 J	NS	42900	105000 J	NS	24100	4770	12500
Chromium	mg/Kg	21.3 J	NS	22.8	22.6 J	NS	24.1	22.5	22.6
Cobalt	mg/Kg	12.5 J	NS	17	12.7 U J	NS	8.8 J	10 J	9.2
Copper	mg/Kg	22.6 J	NS	16.7	24.3 J	NS	33.9	26.7	43.5
Iron	mg/Kg	28200 J	NS	36800	23900 J	NS	26800	26400	24000
Lead	mg/Kg	37.3 J	NS	8.5	21.5 J	NS	31.3	19.2	91.9
Magnesium	mg/Kg	14900 J	NS	7090	6280 J	NS	4920	4090	5050
Manganese	mg/Kg	913 J	NS	1050	447 J	NS	340	591	429
Mercury	mg/Kg	0.05 U J	NS	0.04 U	0.12 U J	NS	0.05 J	0.02 U	0.1
Nickel	mg/Kg	27.9 J	NS	37.8	22.8 J	NS	28.3	29.4	28.3
Potassium	mg/Kg	1470 J	NS	975 J	1690 J	NS	1710	2110	1260
Selenium	mg/Kg	1.8 U J	NS	0.27 U	0.95 U J	NS	1.8 U	1 J	0.27 J
Silver	mg/Kg	1.9 U J	NS	1.7 U	5.8 U J	NS	2.5 U	0.68 U	0.66 J
Sodium	mg/Kg	68.3 U J	NS	195 J	205 U J	NS	89 U	63.9 U	90.5 J
Thallium	mg/Kg	0.6 U J	NS	0.45 U	1.8 U J	NS	0.58 U	0.61 U	0.51 U
Vanadium	mg/Kg	20.6 J	NS	20.3	29.1 J	NS	21.6	21.6	20
Zinc	mg/Kg	255 J	NS	100	339 J	NS	370	76	834
Cyanide	mg/Kg	0.83 U J	NS	0.65 U	1.9 U J	NS	0.82 U	0.79 U	0.57 U

SENECA ARMY DEPOT, ASH LANDFILL
SEDIMENT ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	ASH	ASH	ASH	ASH	ASH	ASH	ASH	ASH	ASH
	DEPTH									
	DATE	12/09/92	12/09/92	12/09/92	12/09/92	12/09/92	12/09/92	12/09/92	12/09/92	12/09/92
	ES ID	SD-WBRE	SD-WB1	SD-WB1RE	SD-WC	SD-WCRE	SD-WD	SD-WE	SD-WERE	SD-WF
	LAB ID	175895R1	175896	175896R1	175897	175897R1	175898	175899	175899R1	175900
COMPOUND	UNITS		DUP SD-WB							
VOCs										
Chloromethane	µg/Kg	NS	13 U	NS	12 U	NS	16 U	15 U	NS	12 U
Bromomethane	µg/Kg	NS	13 U	NS	12 U	NS	16 U	15 U	NS	12 U
Vinyl Chloride	µg/Kg	NS	13 U	NS	12 U	NS	16 U	15 U	NS	12 U
Chloroethane	µg/Kg	NS	13 U	NS	12 U	NS	16 U	15 U	NS	12 U
Methylene Chloride	µg/Kg	NS	13 U	NS	12 U	NS	16 U	15 U	NS	12 U
Acetone	µg/Kg	NS	9 J	NS	12 U	NS	19	8 J	NS	12 U
Carbon Disulfide	µg/Kg	NS	13 U	NS	12 U	NS	16 U	15 U	NS	12 U
1,1-Dichloroethene	µg/Kg	NS	18	NS	12 U	NS	16 U	15 U	NS	12 U
1,1-Dichloroethane	µg/Kg	NS	13 U	NS	12 U	NS	16 U	15 U	NS	12 U
1,2-Dichloroethane (total)	µg/Kg	NS	590	NS	12 U	NS	16 U	15 U	NS	12 U
Chloroform	µg/Kg	NS	13 U	NS	12 U	NS	16 U	15 U	NS	12 U
1,2-Dichloroethane	µg/Kg	NS	13 U	NS	12 U	NS	16 U	15 U	NS	12 U
2-Butanone	µg/Kg	NS	13 U	NS	12 U	NS	16 U	15 U	NS	12 U
1,1,1-Trichloroethane	µg/Kg	NS	13 U	NS	12 U	NS	16 U	15 U	NS	12 U
Carbon Tetrachloride	µg/Kg	NS	13 U	NS	12 U	NS	16 U	15 U	NS	12 U
Vinyl Acetate	µg/Kg	NS	NS	NS	NS	NS	NS	NS	NS	
Bromodichloromethane	µg/Kg	NS	13 U	NS	12 U	NS	16 U	15 U	NS	12 U
1,2-Dichloropropane	µg/Kg	NS	13 U	NS	12 U	NS	16 U	15 U	NS	12 U
cis-1,3-Dichloropropene	µg/Kg	NS	13 U	NS	12 U	NS	16 U	15 U	NS	12 U
Trichloroethene	µg/Kg	NS	7 J	NS	12 U	NS	16 U	15 U	NS	12 U
Dibromochloromethane	µg/Kg	NS	13 U	NS	12 U	NS	16 U	15 U	NS	12 U
1,1,2-Trichloroethane	µg/Kg	NS	13 U	NS	12 U	NS	16 U	15 U	NS	12 U
Benzene	µg/Kg	NS	13 U	NS	12 U	NS	16 U	15 U	NS	12 U
trans-1,3-Dichloropropene	µg/Kg	NS	13 U	NS	12 U	NS	16 U	15 U	NS	12 U
Bromoform	µg/Kg	NS	13 U	NS	12 U	NS	16 U	15 U	NS	12 U
4-Methyl-2-Pentanone	µg/Kg	NS	13 U	NS	12 U	NS	16 U	15 U	NS	12 U
2-Hexanone	µg/Kg	NS	13 U	NS	12 U	NS	16 U	15 U	NS	12 U
Tetrachloroethene	µg/Kg	NS	13 U	NS	12 U	NS	16 U	15 U	NS	12 U
1,1,2,2-Tetrachloroethane	µg/Kg	NS	13 U	NS	12 U	NS	16 U	15 U	NS	12 U
Toluene	µg/Kg	NS	13 U	NS	12 U	NS	16 U	15 U	NS	12 U
Chlorobenzene	µg/Kg	NS	13 U	NS	12 U	NS	16 U	15 U	NS	12 U
Ethylbenzene	µg/Kg	NS	13 U	NS	12 U	NS	16 U	15 U	NS	12 U
Styrene	µg/Kg	NS	13 U	NS	12 U	NS	16 U	15 U	NS	12 U
Xylene (total)	µg/Kg	NS	13 U	NS	12 U	NS	16 U	15 U	NS	12 U

SENECA ARMY DEPOT, ASH LANDFILL
SEDIMENT ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

COMPOUND	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	ASH	ASH	ASH	ASH	ASH	ASH	ASH	ASH	ASH
	DEPTH									
	DATE	12/09/92	12/09/92	12/09/92	12/09/92	12/09/92	12/09/92	12/09/92	12/09/92	12/09/92
	ES ID	SD-WBRE	SD-WB1	SD-WB1RE	SD-WC	SD-WCRE	SD-WD	SD-WE	SD-WERE	SD-WF
	LAB ID	175895R1	175896	175896R1	175897	175897R1	175898	175899	175899R1	175900
	UNITS		DUP SD-WB							
Semivolatiles										
Phenol	µg/Kg	440 UJ	470 UJ	470 UJ	380 UJ	380 UJ	670 U	500 UJ	500 UJ	380 U
bis(2-Chloroethyl) ether	µg/Kg	440 UJ	470 UJ	470 UJ	380 UJ	380 UJ	670 U	500 UJ	500 UJ	380 U
2-Chlorophenol	µg/Kg	440 UJ	470 UJ	470 UJ	380 UJ	380 UJ	670 U	500 UJ	500 UJ	380 U
1,3-Dichlorobenzene	µg/Kg	440 UJ	470 UJ	470 UJ	380 UJ	380 UJ	670 U	500 UJ	500 UJ	380 U
1,4-Dichlorobenzene	µg/Kg	440 UJ	470 UJ	470 UJ	380 UJ	380 UJ	670 U	500 UJ	500 UJ	380 U
Benzyl Alcohol	µg/Kg	NS	NS	NS	NS	NS	NS	NS	NS	NS
1,2-Dichlorobenzene	µg/Kg	440 UJ	470 UJ	470 UJ	380 UJ	380 UJ	670 U	500 UJ	500 UJ	380 U
2-Methylphenol	µg/Kg	440 UJ	470 UJ	470 UJ	380 UJ	380 UJ	670 U	500 UJ	500 UJ	380 U
bis(2-Chloroisopropyl) ether	µg/Kg	440 UJ	470 UJ	470 UJ	380 UJ	380 UJ	670 U	500 UJ	500 UJ	380 U
4-Methylphenol	µg/Kg	440 UJ	470 UJ	470 UJ	380 UJ	380 UJ	670 U	500 UJ	500 UJ	380 U
N-Nitroso-di-n-propylamine	µg/Kg	440 UJ	470 UJ	470 UJ	380 UJ	380 UJ	670 U	500 UJ	500 UJ	380 U
Hexachloroethane	µg/Kg	440 UJ	470 UJ	470 UJ	380 UJ	380 UJ	670 U	500 UJ	500 UJ	380 U
Nitrobenzene	µg/Kg	440 UJ	470 UJ	470 UJ	380 UJ	380 UJ	670 U	500 UJ	500 UJ	380 U
Isophorone	µg/Kg	440 UJ	470 UJ	470 UJ	380 UJ	380 UJ	670 U	500 UJ	500 UJ	380 U
2-Nitrophenol	µg/Kg	440 UJ	470 UJ	470 UJ	380 UJ	380 UJ	670 U	500 UJ	500 UJ	380 U
2,4-Dimethylphenol	µg/Kg	440 UJ	470 UJ	470 UJ	380 UJ	380 UJ	670 U	500 UJ	500 UJ	380 U
Benzoic acid	µg/Kg	NS	NS	NS	NS	NS	NS	NS	NS	NS
bis(2-Chloroethoxy) methane	µg/Kg	440 UJ	470 UJ	470 UJ	380 UJ	380 UJ	670 U	500 UJ	500 UJ	380 U
2,4-Dichlorophenol	µg/Kg	440 UJ	470 UJ	470 UJ	380 UJ	380 UJ	670 U	500 UJ	500 UJ	380 U
1,2,4-Trichlorobenzene	µg/Kg	440 UJ	470 UJ	470 UJ	380 UJ	380 UJ	670 U	500 UJ	500 UJ	380 U
Naphthalene	µg/Kg	440 UJ	470 UJ	22 J	380 UJ	380 UJ	670 U	500 UJ	500 UJ	380 U
4-Chloroaniline	µg/Kg	440 UJ	470 UJ	470 UJ	380 UJ	380 UJ	670 U	500 UJ	500 UJ	380 U
Hexachlorobutadiene	µg/Kg	440 UJ	470 UJ	470 UJ	380 UJ	380 UJ	670 U	500 UJ	500 UJ	380 U
4-Chloro-3-methylphenol	µg/Kg	440 UJ	470 UJ	470 UJ	380 UJ	380 UJ	670 U	500 UJ	500 UJ	380 U
2-Methylnaphthalene	µg/Kg	440 UJ	30 J	470 UJ	380 UJ	380 UJ	670 U	500 UJ	500 UJ	380 U
Hexachlorocyclopentadiene	µg/Kg	440 UJ	470 UJ	470 UJ	380 UJ	380 UJ	670 U	500 UJ	500 UJ	380 U
2,4,6-Trichlorophenol	µg/Kg	440 UJ	470 UJ	470 UJ	380 UJ	380 UJ	670 U	500 UJ	500 UJ	380 U
2,4,5-Trichlorophenol	µg/Kg	1000 UJ	1100 UJ	1100 UJ	910 UJ	930 UJ	1600 U	1200 UJ	1200 UJ	930 U
2-Chloronaphthalene	µg/Kg	440 UJ	470 UJ	470 UJ	380 UJ	380 UJ	670 U	500 UJ	500 UJ	380 U
2-Nitroaniline	µg/Kg	1000 UJ	1100 UJ	1100 UJ	910 UJ	930 UJ	1600 U	1200 UJ	1200 UJ	930 U
Dimethylphthalate	µg/Kg	440 UJ	470 UJ	470 UJ	380 UJ	380 UJ	670 U	500 UJ	500 UJ	380 U
Acenaphthylene	µg/Kg	18 J	72 J	30 J	380 UJ	380 UJ	670 U	500 UJ	500 UJ	380 U
2,6-Dinitrotoluene	µg/Kg	440 UJ	470 UJ	470 UJ	380 UJ	380 UJ	670 U	500 UJ	500 UJ	380 U
3-Nitroaniline	µg/Kg	1000 UJ	1100 UJ	1100 UJ	910 UJ	930 UJ	1600 U	1200 UJ	1200 UJ	930 U
Acenaphthene	µg/Kg	440 UJ	470 UJ	470 UJ	380 UJ	380 UJ	670 U	500 UJ	500 UJ	380 U
2,4-Dinitrophenol	µg/Kg	1000 UJ	1100 UJ	1100 UJ	910 UJ	930 UJ	1600 U	1200 UJ	1200 UJ	930 U
4-Nitrophenol	µg/Kg	1000 UJ	1100 UJ	1100 UJ	910 UJ	930 UJ	1600 U	1200 UJ	1200 UJ	930 U
Dibenzofuran	µg/Kg	440 UJ	470 UJ	470 UJ	380 UJ	380 UJ	670 U	500 UJ	500 UJ	380 U
2,4-Dinitrotoluene	µg/Kg	440 UJ	470 UJ	470 UJ	380 UJ	380 UJ	670 U	500 UJ	100 J	380 U
Diethylphthalate	µg/Kg	440 UJ	470 UJ	470 UJ	380 UJ	380 UJ	670 U	500 UJ	500 UJ	380 U
4-Chlorophenyl-phenylether	µg/Kg	440 UJ	470 UJ	470 UJ	380 UJ	380 UJ	670 U	500 UJ	500 UJ	380 U
Fluorene	µg/Kg	440 UJ	470 UJ	470 UJ	20 J	380 UJ	670 U	500 UJ	500 UJ	380 U
4-Nitroaniline	µg/Kg	1000 UJ	1100 UJ	1100 UJ	910 UJ	930 UJ	1600 U	1200 UJ	1200 UJ	930 U
4,6-Dinitro-2-methylphenol	µg/Kg	1000 UJ	1100 UJ	1100 UJ	910 UJ	930 UJ	1600 U	1200 UJ	1200 UJ	930 U
N-Nitrosodiphenylamine (1)	µg/Kg	440 UJ	470 UJ	470 UJ	380 UJ	380 UJ	670 U	500 UJ	55 J	380 U
4-Bromophenyl-phenylether	µg/Kg	440 UJ	470 UJ	470 UJ	380 UJ	380 UJ	670 U	500 UJ	500 UJ	380 U
Hexachlorobenzene	µg/Kg	440 UJ	470 UJ	470 UJ	380 UJ	380 UJ	670 U	500 UJ	500 UJ	380 U
Pentachlorophenol	µg/Kg	1000 UJ	1100 UJ	1100 UJ	910 UJ	930 UJ	1600 U	1200 UJ	1200 UJ	930 U
Phenanthrene	µg/Kg	86 J	220 J	180 J	170 J	28 J	670 U	68 J	260 J	68 J
Anthracene	µg/Kg	19 J	62 J	37 J	30 J	380 UJ	670 U	500 UJ	65 J	12 J
Carbazole	µg/Kg	440 UJ	45 J	48 J	32 J	380 UJ	670 U	500 UJ	97 J	380 U
Di-n-butylphthalate	µg/Kg	440 UJ	470 UJ	470 UJ	380 UJ	380 UJ	21 J	500 UJ	500 UJ	16 J
Fluoranthene	µg/Kg	140 J	440 J	290 J	300 J	49 J	30 J	120 J	370 J	140 J
Pyrene	µg/Kg	160 J	420 J	300 J	240 J	56 J	25 J	98 J	410 J	110 J
Butylbenzylphthalate	µg/Kg	440 UJ	470 UJ	470 UJ	380 UJ	380 UJ	670 U	500 UJ	500 UJ	380 U
3,3'-Dichlorobenzidine	µg/Kg	440 UJ	470 UJ	470 UJ	380 UJ	380 UJ	670 U	500 UJ	500 UJ	380 U
Benzo(a)anthracene	µg/Kg	84 J	230 J	160 J	130 J	30 J	670 U	53 J	250 J	59 J
Chrysene	µg/Kg	100 J	300 J	190 J	150 J	38 J	670 U	69 J	250 J	84 J
bis(2-Ethylhexyl)phthalate	µg/Kg	440 UJ	470 UJ	470 UJ	380 UJ	380 UJ	670 U	500 UJ	500 UJ	200 J
Di-n-octylphthalate	µg/Kg	440 UJ	470 UJ	470 UJ	380 UJ	380 UJ	670 U	500 UJ	500 UJ	380 U
Benzo(b)fluoranthene	µg/Kg	80 J	230 J	150 J	140 J	37 J	670 U	60 J	210 J	78 J
Benzo(k)fluoranthene	µg/Kg	80 J	220 J	150 J	140 J	37 J	670 U	61 J	200 J	70 J
Benzo(a)pyrene	µg/Kg	83 J	190 J	150 J	59 J	34 J	0 J	25 J	220 J	35 J
Indeno(1,2,3-cd)pyrene	µg/Kg	67 J	140 J	120 J	91 J	29 J	670 U	42 J	150 J	53 J
Dibenz(a,h)anthracene	µg/Kg	440 UJ	470 UJ	470 UJ	36 J	380 UJ	670 U	500 UJ	500 UJ	380 U
Benzo(g,h,i)perylene	µg/Kg	77 J	170 J	97 J	95 J	380 UJ	670 U	44 J	110 J	53 J

SENECA ARMY DEPOT, ASH LANDFILL
SEDIMENT ANALYSIS RESULTS
VALIDATED DATA (PHASES I & II)

	MATRIX	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	LOCATION	ASH	ASH	ASH	ASH	ASH	ASH	ASH	ASH	ASH
	DEPTH									
	DATE	12/09/92	12/09/92	12/09/92	12/09/92	12/09/92	12/09/92	12/09/92	12/09/92	12/09/92
	ES ID	SD-WBRE	SD-WB1	SD-WB1RE	SD-WC	SD-WCRE	SD-WD	SD-WE	SD-WERE	SD-WF
	LAB ID	175895R1	175896	175896R1	175897	175897R1	175898	175899	175899R1	175900
COMPOUND	UNITS		DUP SD-WB							
Pesticides/PCBs										
alpha-BHC	µg/Kg	NS	2.4 U	NS	2 U	NS	3.5 U	2.5 U	NS	2 U
beta-BHC	µg/Kg	NS	2.4 U	NS	2 U	NS	3.5 U	2.5 U	NS	2 U
delta-BHC	µg/Kg	NS	2.4 U	NS	2 U	NS	3.5 U	2.5 U	NS	2 U
gamma-BHC (Lindane)	µg/Kg	NS	2.4 U	NS	2 U	NS	3.5 U	2.5 U	NS	2 U
Heptachlor	µg/Kg	NS	2.4 U	NS	2 U	NS	3.5 U	2.5 U	NS	2 U
Aldrin	µg/Kg	NS	2.4 U	NS	2 U	NS	3.5 U	2.5 U	NS	2 U
Heptachlor epoxide	µg/Kg	NS	2.4 U	NS	2 U	NS	3.5 U	2.5 U	NS	2 U
Endosulfan I	µg/Kg	NS	2.4 U	NS	2 U	NS	3.5 U	2.5 U	NS	2 U
Dieldrin	µg/Kg	NS	4.7 U	NS	3.8 U	NS	6.8 U	4.9 U	NS	3.8 U
4,4'-DDE	µg/Kg	NS	2.4 J	NS	4.5	NS	6.8 U	4.5 J	NS	20
Endrin	µg/Kg	NS	2.3 J	NS	3.8 U	NS	6.8 U	4.9 U	NS	3.8 U
Endosulfan II	µg/Kg	NS	4.7 U	NS	3.8 U	NS	6.8 U	4.9 U	NS	3.8 U
4,4'-DDD	µg/Kg	NS	4.7 U	NS	3.8 U	NS	6.8 U	4.9 U	NS	1.7 J
Endosulfan sulfate	µg/Kg	NS	2.7 J	NS	3.8 U	NS	6.8 U	4.9 U	NS	3.8 U
4,4'-DDT	µg/Kg	NS	4.7 UJ	NS	2.4 J	NS	6.8 U	4.9 UJ	NS	3.8 U
Methoxychlor	µg/Kg	NS	24 U	NS	20 U	NS	35 U	25 U	NS	20 U
Endrin ketone	µg/Kg	NS	4.7 U	NS	3.8 U	NS	6.8 U	4.9 U	NS	3.8 U
Endrin aldehyde	µg/Kg	NS	4.7 UJ	NS	3.8 U	NS	6.8 U	4.9 UJ	NS	3.8 U
alpha-Chlordane	µg/Kg	NS	1.8 J	NS	3.8 J	NS	3.5 U	1.8 J	NS	2 U
gamma-Chlordane	µg/Kg	NS	2.4 U	NS	2 U	NS	3.5 U	2.5 U	NS	2 U
Toxaphene	µg/Kg	NS	240 U	NS	200 U	NS	350 U	250 U	NS	200 U
Aroclor-1016	µg/Kg	NS	47 U	NS	38 U	NS	68 U	49 U	NS	38 U
Aroclor-1221	µg/Kg	NS	94 U	NS	76 U	NS	140 U	100 U	NS	77 U
Aroclor-1232	µg/Kg	NS	47 U	NS	38 U	NS	68 U	49 U	NS	38 U
Aroclor-1242	µg/Kg	NS	47 U	NS	38 U	NS	68 U	49 U	NS	38 U
Aroclor-1248	µg/Kg	NS	47 U	NS	38 U	NS	68 U	49 U	NS	38 U
Aroclor-1254	µg/Kg	NS	47 U	NS	38 U	NS	68 U	49 U	NS	38 U
Aroclor-1260		NS	47 U	NS	38 U	NS	68 U	49 U	NS	54
Herbicides										
2,4-D	µg/Kg	NS	71 U	NS	58 U	NS	100 U	76 U	NS	59 U
2,4-DB	µg/Kg	NS	71 U	NS	58 U	NS	100 U	76 U	NS	59 U
2,4,5-T	µg/Kg	NS	7.1 U	NS	5.8 U	NS	10 U	7.6 U	NS	5.9 U
2,4,5-TP (Silvex)	µg/Kg	NS	7.1 U	NS	5.8 U	NS	10 U	7.6 U	NS	5.9 U
Dalapon	µg/Kg	NS	170 U	NS	140 U	NS	250 U	180 U	NS	140 U
Dicamba	µg/Kg	NS	7.1 U	NS	5.8 U	NS	10 U	7.6 U	NS	5.9 U
Dichloroprop	µg/Kg	NS	71 U	NS	58 U	NS	100 U	76 U	NS	59 U
Dinoseb	µg/Kg	NS	36 U	NS	29 U	NS	52 U	38 U	NS	30 U
MCPA	µg/Kg	NS	7100 U	NS	5800 U	NS	10000 U	7600 U	NS	5900 U
MCPP	µg/Kg	NS	7100 U	NS	5800 U	NS	10000 U	7600 U	NS	5900 U
Metals										
Aluminum	mg/Kg	NS	11100	NS	12100	NS	12400	11700	NS	14100
Antimony	mg/Kg	NS	9.5 UJ	NS	9.4 UJ	NS	16.5 UJ	8.3 UJ	NS	12.8 UJ
Arsenic	mg/Kg	NS	7.5 J	NS	3.5 J	NS	2.2 J	3.5 J	NS	5.4 J
Barium	mg/Kg	NS	92.2	NS	55.1	NS	95.8	98.6	NS	51.6
Beryllium	mg/Kg	NS	0.55 J	NS	0.53 J	NS	0.54 J	0.83 J	NS	0.61 J
Cadmium	mg/Kg	NS	0.55 U	NS	0.54 U	NS	0.94 U	0.48 U	NS	0.76 J
Calcium	mg/Kg	NS	7640	NS	34800	NS	13200	8940	NS	18500
Chromium	mg/Kg	NS	19	NS	20.9	NS	17.7	22	NS	26.5
Cobalt	mg/Kg	NS	8.1 J	NS	9.9	NS	7.6 J	10.8	NS	12.8
Copper	mg/Kg	NS	31.4	NS	27.4	NS	25.9	44.1	NS	39.1
Iron	mg/Kg	NS	18700	NS	23400	NS	18900	26700	NS	28300
Lead	mg/Kg	NS	59.4	NS	32.2	NS	23.6	132	NS	96.1
Magnesium	mg/Kg	NS	3370	NS	5870	NS	4290	4390	NS	6680
Manganese	mg/Kg	NS	398	NS	363	NS	228 J	355	NS	323
Mercury	mg/Kg	NS	0.08	NS	0.02 J	NS	0.05 J	0.81	NS	0.2
Nickel	mg/Kg	NS	21.8	NS	33.1	NS	20	33.8	NS	45.9
Potassium	mg/Kg	NS	1390	NS	1370	NS	1420 J	1050	NS	1780
Selenium	mg/Kg	NS	0.98 J	NS	0.83 J	NS	1 J	0.97 J	NS	0.83 J
Silver	mg/Kg	NS	0.56 U	NS	0.56 U	NS	0.98 U	0.83 J	NS	0.76 U
Sodium	mg/Kg	NS	58.7 J	NS	89.5 J	NS	91.1 U	72 J	NS	84.5 J
Thallium	mg/Kg	NS	0.53 U	NS	0.56 U	NS	0.73 U	0.64 U	NS	0.59 U
Vanadium	mg/Kg	NS	18.6	NS	19.4	NS	19.2	18.5	NS	21
Zinc	mg/Kg	NS	582	NS	155	NS	143	200	NS	366
Cyanide	mg/Kg	NS	1	NS	0.67 U	NS	1.2 U	0.81 U	NS	0.67 U