

APPENDIX A

Water Quality Analysis Table

APPENDIX A
WATER QUALITY ANALYSIS TABLE

	GROUND AND SURFACE WATER		LEACHATE
	Baseline Parameters	Routine Parameters	All Samples
FIELD PARAMETERS			
Dissolved Oxygen (DO) ¹	X	X	X
Floater or Sinkers ²	X		X
Odor ³	X	X	X
pH	X	X	X
Specific Conductance	X	X	X
Static Water Level	X	X	X
Temperature	X	X	X
LEACHATE INDICATORS			
Alkalinity	X	X	X
Ammonia	X	X	X
Bicarbonate	X	X	X
Biochemical Oxygen Demand (BOD)	X		X
Carbonate ⁴	X	X	X
Chemical Oxygen Demand (COD)	X	X	X
Chloride	X	X	X
Nitrate	X	X	X
Phenols	X		X
Sulfate	X	X	X
Total Dissolved Solids (TDS)	X	X	X
Total Kjeldahl Nitrogen (TKN)	X		X
Total Organic Carbon (TOC)	X	X	X
Total Organic Halogen (TOH)	X	X	X
Turbidity	X		X
METALS ⁵			
Aluminum	X		X
Antimony	X		X
Arsenic	X	X	X
Barium	X	X	X
Beryllium	X	X	X
Boron	X		X
Cadmium	X	X	X
Calcium	X		X
Chromium (total & hexavalent)	X	X	X
Cobalt	X	X	X
Copper	X	X	X
Cyanide	X		X
Iron	X	X	X
Lead	X	X	X
Magnesium	X	X	X
Manganese, dissolved	X	X	X
Mercury	X	X	X
Nickel	X		X
Potassium	X		X
Selenium	X	X	X
Silver	X	X	X
Sodium	X	X	X
Thallium	X	X	X
Vanadium	X	X	X
Zinc	X	X	X

APPENDIX A (cont)

	GROUND AND SURFACE WATER		LEACHATE
	Baseline Parameters	Routine Parameters	All Samples
ORGANIC CONSTITUENTS			
Volatile Organics ⁶ (as listed below)	X	X	X
Acetone		cis-1,3-Dichloropropene	
Acrolein		trans-1,3-Dichloropropene	
Acrylonitrile		Ethylbenzene	
Benzene		2-Hexanone (Methyl butyl ketone)	
Bromochloromethane		Methyl bromide (Bromomethane)	
Bromodichloromethane		Methyl chloride (Chloromethane)	
Bromoform (Tribromomethane)		Methylene bromide (Dibromomethane)	
Carbon disulfide		Methylene chloride (Dichloromethane)	
Carbon tetrachloride		Methyl ethyl ketone (2-Butanone)	
Chlorobenzene		Methyl iodide (Iodomethane)	
Chloroethane (Ethyl chloride)		4-Methyl-2-pentanone (MIBK)	
Chloroform (Trichloromethane)		Styrene	
Dibromochloromethane		1,1,1,2-Tetrachloroethane	
1,2-Dibromo-3-chloropropane		1,1,2,2-Tetrachloroethane	
1,2-Dibromoethane (EDB)		Tetrachloroethylene (PCE)	
1,2-Dichlorobenzene (ortho)		Toluene	
1,4-Dichlorobenzene (para)		1,1,1-Trichloroethane (Methyl chloroform)	
trans-1,4-Dichloro-2-butene		1,1,2-Trichloroethane	
1,1-Dichloroethane		Trichloroethylene (TCE)	
1,2-Dichloroethane		Trichlorofluoromethane (Freon II)	
1,1-Dichloroethylene		1,2,3-Trichloropropane	
cis-1,2-Dichloroethylene		Vinyl acetate	
trans-1,2-Dichloroethylene		Vinyl chloride	
1,2-Dichloropropane		Xylenes	

Notes

¹ Surface water and leachate only.

² Any floaters or sinkers found shall be analyzed separately for baseline parameters.

³ Any odors noticed during well development, purging, or sampling must be noted and reported.

⁴ Carbonate must be calculated unless the pH is above 8.2.

⁵ Standard analytical procedures for the heavy metals are provided in EPA Report SW-846 "Test Methods for Evaluating Solid Waste" third edition, November 1986, as revised December 1987, includes either Method 6010 or a method from the 7000 series of methods, or other approved methods.

⁶ Standard analytical procedures for the organic constituents are provided in SW-846 as Method 8260.

APPENDIX B

**Utah Solid Waste Permitting and Management Rules
R315-301 Through 320
Appendix D**

Appendix B - List of Hazardous Inorganic and Organic Constituents ¹

Common Name ²	CAS RN ³	Chemical abstracts service index name ⁴	Suggested methods ⁵	PQL (µg/L) ⁶
Acenaphthene.....	83 - 32 - 9	Acenaphthylene, 1,2-dihydro-.....	8100	200
			8270	10
Acenaphthylene.....	208 - 96 - 8	Acenaphthylene.....	8100	200
			8270	10
Acetone.....	67 - 64 - 1	2-Propanone.....	8260	100
Acetonitrile; Methyl cyanide.....	75 - 05 - 8	Acetonitrile.....	8015	100
Acetophenone.....	98 - 86 - 2	Ethanone, 1-phenyl-.....	8270	10
2-Acetylaminofluorene; 2-AAF.....	53 - 96 - 3	Acetamide, N-9H-fluoren-2-yl-.....	8270	20
Acrolein.....	107 - 02 - 8	2-Propenal.....	8030	5
			8260	100
Acrylonitrile.....	107 - 13 - 1	2-Propenenitrile.....	8030	5
			8260	200
Aldrin.....	309 - 00 - 2	1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro- 1,4,4a,5,8,8a-hexahydro- (1,4],4a[5],8],8a]-	8080	0.05
			8270	10
Allyl chloride.....	107 - 05 - 1	1-Propene, 3-chloro-.....	8010	5
			8260	10
4-Aminobiphenyl.....	92 - 67 - 1	[1,1 ¹ -Biphenyl]-4-amine.....	8270	20
Anthracene.....	120 - 12 - 7	Anthracene.....	8100	200
			8270	10
Antimony.....	(Total)	Antimony.....	6010	300
			7040	2000
			7041	30
Arsenic.....	(Total)	Arsenic.....	6010	500
			7060	10
			7061	20
Barium.....	(Total)	Barium.....	6010	20
			7080	1000
Benzene.....	71 - 43 - 2	Benzene.....	8020	2
			8021	0.1
			8260	5
Benzo[a]anthracene; Benzanthracene...	56 - 55 - 3	Benz[a]anthracene.....	8100	200
			8270	10
Benzo[b]fluoranthene.....	205 - 99 - 2	Benz[e]acephenanthrylene.....	8100	200
			8270	10
Benzo[k]fluoranthene.....	207 - 08 - 9	Benzo[k]fluoranthene.....	8100	200
			8270	10
Benzo[ghi]perylene.....	191 - 24 - 2	Benzo[ghi]perylene.....	8100	200
			8270	10
Benzo[a]pyrene.....	50 - 32 - 8	Benzo[a]pyrene.....	8100	200
			8270	10
Benzyl alcohol.....	100 - 51 - 6	Benzenemethanol.....	8270	20
Beryllium.....	(Total)	Beryllium.....	6010	3
			7090	50

Common Name ²	CAS RN ³	Chemical abstracts service index name ⁴	Suggested PQL methods ⁵ (µg/L) ⁶
alpha-BHC.....	319 - 84 - 6	Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1,2),3[4],5[6]-.	7091 2 8080 0.05 8270 10
beta-BHC.....	319 - 85 - 7	Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1),2[3],4[5],6[6]-.	8080 0.05 8270 20
delta-BHC.....	319 - 86 - 8	Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1),2,3,4[5],6[6]-.	8080 0.1 8270 20
gamma-BHC; Lindane.....	58 - 89 - 9	Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1),2,3[4],5[6]-.	8080 0.05 8270 20
Bis(2-chloroethoxy)methane.....	111 - 91 - 1	Ethane, 1,1 ¹ -[methylenebis(oxy)]bis[2-chloro-.	8110 5 8270 10
Bis(2-chloroethyl) ether; Dichloroethyl ether.	111-44-4	Ethane, 1,1 ¹ -oxybis[2-chloro-....	8110 3 8270 10
Bis-(2-chloro-1-methylethyl) ether; 2,2 ¹ -Dichlorodiisopropyl ether; DCIP, See note 7	108 - 60 - 1	Propane, 2,2 ¹ -oxybis[1-chloro-....	8110 10 8270 10
Bis(2-ethylhexyl) phthalate.....	117 - 81 - 7	1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester.	8060 20
Bromochloromethane; Chlorobromomethane.	74 - 97 - 5	Methane, bromochloro-.....	8021 0.1 8260 5
Bromodichloromethane; Dibromochloromethane.	75 - 27 - 4	Methane, bromodichloro-.....	8010 1 8021 0.2 8260 5
Bromoform; Tribromomethane.....	75 - 25 - 2	Methane, tribromo-.....	8010 2 8021 15 8260 5
4-Bromophenyl phenyl ether.....	101 - 55 - 3	Benzene, 1-bromo-4-phenoxy-.....	8110 25 8270 10
Butyl benzyl phthalate; Benzyl butyl phthalate.	85 - 68 - 7	1,2-Benzenedicarboxylic acid, butyl phenylmethyl ester.	8060 5 8270 10
Cadmium.....	(Total)	Cadmium.....	6010 40 7130 50 7131 1
Carbon disulfide.....	75 - 15 - 0	Carbon disulfide.....	8260 100
Carbon tetrachloride.....	56 - 23 - 5	Methane, tetrachloro-.....	8010 1 8021 0.1 8260 10
Chlordane.....	See Note 8	4,7-Methano-1H-indene, 1,2,4,5,6,7,8,8-octachloro-2,3,3a,4,7,7a-hexahydro-.	8080 0.1 8270 50
p-Chloroaniline.....	106 - 47 - 8	Benzenamine, 4-chloro-.....	8270 20
Chlorobenzene.....	108 - 90 - 7	Benzene, chloro-.....	8010 2 8020 2 8021 0.1 8260 5
Chlorobenzilate.....	510 - 15 - 6	Benzeneacetic acid, 4-chloro-]-(4-chlorophenyl)-]-hydroxy-, ethyl	8270 10

Common Name ²	CAS RN ³	Chemical abstracts service index name ⁴	Suggested PQL methods ⁵ (µg/L) ⁶	
		ester.		
p-Chloro-m-cresol; 4-Chloro-3-methylphenol.	59 - 50 - 7	Phenol, 4-chloro-3-methyl-.....	8040	5
Chloroethane; Ethyl chloride.....	75 - 00 - 3	Ethane, chloro-.....	8270	20
			8010	5
			8021	1
			8260	10
Chloroform; Trichloromethane.....	67 - 66 - 3	Methane, trichloro-.....	8010	0.5
			8021	0.2
			8260	5
2-Chloronaphthalene.....	91 - 58 - 7	Naphthalene, 2-chloro-.....	8120	10
			8270	10
2-Chlorophenol.....	95 - 57 - 8	Phenol, 2-chloro-.....	8040	5
			8270	10
4-Chlorophenyl phenyl ether.....	7005-72-3	Benzene, 1-chloro-4-phenoxy-.....	8110	40
			8270	10
Chloroprene.....	126 - 99 - 8	1,3-Butadiene, 2-chloro-.....	8010	50
			8260	20
Chromium.....	(Total) Chromium.....		6010	70
			7190	500
			7191	10
Chrysene.....	218 - 01 - 9	Chrysene.....	8100	200
			8270	10
Cobalt.....	(Total) Cobalt.....		6010	70
			7200	500
			7201	10
Copper.....	(Total) Copper.....		6010	60
			7210	200
			7211	10
m-Cresol; 3-methylphenol.....	108 - 39 - 4	Phenol, 3-methyl-.....	8270	10
o-Cresol; 2-methylphenol.....	95 - 48 - 7	Phenol, 2-methyl-.....	8270	10
p-Cresol; 4-methylphenol.....	106 - 44 - 5	Phenol, 4-methyl-.....	8270	10
Cyanide.....	57 - 12 - 5	Cyanide.....	9010	200
2,4-D; 2,4-Dichlorophenoxyacetic acid	94 - 75 - 7	Acetic acid, (2,4-dichlorophenoxy)-.	8150	10
4,4 ¹ -DDD.....	72 - 54 - 8	Benzene 1,1 ¹ -(2,2-dichloroethylidene)bis[4-chloro-.	8080	0.1
			8270	10
4,4 ¹ -DDE.....	72 - 55 - 9	Benzene, 1,1 ¹ -(dichloroethylenylidene)bis[4-chloro-.	8080	0.05
			8270	10
4,4 ¹ -DDT.....	50 - 29 - 3	Benzene, 1,1 ¹ -(2,2,2-trichloroethylidene)bis[4-chloro-.	8080	0.1
			8270	10
Diallate.....	2303-16-4	Carbamothioic acid, bis(1-methylethyl)-,S-(2,3-dichloro-2-propenyl) ester.	8270	10
Dibenz[a,h]anthracene.....	53 - 70 - 3	Dibenz[a,h]anthracene.....	8100	200
			8270	10
Dibenzofuran.....	132 - 64 - 9	Dibenzofuran.....	8270	10
Dibromochloromethane; Chlorodibromomethane.	124 - 48 - 1	Methane, dibromochloro-.....	8010	1
			8021	0.3

Common Name ²	CAS RN ³	Chemical abstracts service index name ⁴	Suggested PQL methods ⁵ (µg/L) ⁶
			8260 5
1,2-Dibromo-3-chloropropane; DBCP..	96 - 12 - 8	Propane, 1,2-dibromo-3-chloro-.....	8011 0.1
			8021 30
			8260 25
1,2-Dibromoethane; Ethylene dibromide; EDB.	106 - 93 - 4	Ethane, 1,2-dibromo-.....	8011 0.1
			8021 10
			8260 5
Di-n-butyl phthalate.....	84 - 74 - 2	1,2-Benzenedicarboxylic acid, dibutyl ester.	8060 5
			8270 10
o-Dichlorobenzene; 1,2-Dichlorobenzene.	95 - 50 - 1	Benzene, 1,2-dichloro-.....	8010 2
			8020 5
			8021 0.5
			8120 10
			8260 5
			8270 10
m-Dichlorobenzene; 1,3-Dichlorobenzene.	541 - 73 - 1	Benzene, 1,3-Dichloro-.....	8010 5
			8020 5
			8021 0.2
			8120 10
			8260 5
			8270 10
p-Dichlorobenzene; 1,4-Dichlorobenzene.	106 - 46 - 7	Benzene, 1,4-dichloro-.....	8010 2
			8020 5
			8021 0.1
			8120 15
			8260 5
			8270 10
3,3 ¹ -Dichlorobenzidine.....	91 - 94 - 1	[1,1 ¹ -Biphenyl]-4,4 ¹ -diamine, 3,3 ¹ -dichloro-.	8270 20
trans-1,4-Dichloro-2-butene.....	110-57-6	2-Butene, 1,4-dichloro-, (E)-.....	8260 100
Dichlorodifluoromethane; CFC 12;.....	75 - 71 - 8	Methane, dichlorodifluoro-.....	8021 0.5
			8260 5
1,1-Dichloroethane; Ethyldidene chloride.	75 - 34 - 3	Ethane, 1,1-dichloro-.....	8010 1
			8021 0.5
			8260 5
1,2-Dichloroethane; Ethylene dichloride.	107 - 06 - 2	Ethane, 1,1-dichloro-.....	8010 0.5
			8021 0.3
			8260 5
1,1-Dichloroethylene; 1,1-Dichloroethene; Vinylidene chloride.	75 - 35 - 4	Ethene, 1,1-dichloro-.....	8010 1
			8021 0.5
			8260 5
cis-1,2-Dichloroethylene; cis-1,2-Dichloroethene.	156 - 59 - 2	Ethene, 1,2-dichloro-, (Z)-.....	8021 0.2
			8260 5
trans-1,2-Dichloroethylene trans-1,2-Dichloroethene.	156 - 60 - 5	Ethene, 1,2-dichloro-, (E)-.....	8010 1
			8021 0.5
			8260 5
2,4-Dichlorophenol.....	120 - 83 - 2	Phenol, 2,4-dichloro-.....	8040 5

Common Name ²	CAS RN ³	Chemical abstracts service index name ⁴	Suggested PQL methods ⁵ (µg/L) ⁶
			8270 10
2,6-Dichlorophenol.....	87 - 65 - 0	Phenol, 2,6-dichloro-.....	8270 10
1,2-Dichloropropane; Propylene dichloride.	78 - 87 - 5	Propane, 1,2-dichloro-.....	8010 0.5 8021 0.05 8260 5
1,3-Dichloropropane; Trimethylene dichloride.	142 - 28 - 9	Propane, 1,3-dichloro-.....	8021 0.3 8260 5
2,2-Dichloropropane; Isopropylidene chloride.	594 - 20 - 7	Propane, 2,2-dichloro-.....	8021 0.5 8260 15
1,1-Dichloropropene.....	563 - 58 - 6	1-Propene, 1,1-dichloro-.....	8021 0.2 8260 5
cis-1,3-Dichloropropene.....	10061-01-5	1-Propene, 1,3-dichloro-, (Z)-.....	8010 20 8260 10
trans-1,3-Dichloropropene.....	10061-02-6	1-Propene, 1,3-dichloro-, (E)-.....	8010 5 8260 10
Dieldrin.....	60 - 57 - 1	2,7:3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexa, chloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1a),2[,2a],3[,6[,6a],7[,7a])-	8080 0.05 8270 10
Diethyl phthalate.....	84 - 66 - 2	1,2-Benzenedicarboxylic acid, diethyl ester.	8060 5 8270 10
0,0-Diethyl 0-2-pyrazinyl phosphorothioate; Thionazin. Dimethoate.....	297 - 97 - 2 60 - 51 - 5	Phosphorothioic acid, 0,0-diethyl 0-pyrazinyl ester. Phosphorodithioic acid, 0,0-dimethyl S-[2-(methylamino)-2-oxoethyl] ester.	8141 5 8270 20 8141 3 8270 20
p-(Dimethylamino)azobenzene.....	60 - 11 - 7	Benzenamine, N,N-dimethyl-4-(phenylazo)-.	8270 10
7,12-Dimethylbenz[a]anthracene.....	57 - 97 - 6	Benz[a]anthracene, 7,12-dimethyl-...	8270 10
3,3 ¹ -Dimethylbenzidine.....	119 - 93 - 7	[1,1 ¹ -Biphenyl]-4,4 ¹ -diamine, 3,3 ¹ -dimethyl-.	8270 10
2,4-Dimethylphenol; m-Xylenol.....	105 - 67 - 9	Phenol, 2,4-dimethyl-.....	8040 5 8270 10
Dimethyl phthalate.....	131 - 11 - 3	1,2-Benzenedicarboxylic acid, dimethyl ester.	8060 5 8270 10
m-Dinitrobenzene.....	99 - 65 - 0	Benzene, 1,3-dinitro-.....	8270 20
4,6-Dinitro-o-cresol 4,6-Dinitro-2-methylphenol.	534 - 52 - 1	Phenol, 2-methyl-4,6-dinitro.....	8040 150 8270 50
2,4-Dinitrophenol;.....	51 - 28 - 5	Phenol, 2,4-dinitro-.....	8040 150 8270 50
2,4-Dinitrotoluene.....	121 - 14 - 2	Benzene, 1-methyl-2,4-dinitro-.....	8090 0.2 8270 10
2,6-Dinitrotoluene.....	606 - 20 - 2	Benzene, 2-methyl-1,3-dinitro-.....	8090 0.1 8270 10
Dinoseb; DNBP; 2-sec-Butyl-4,6-dinitrophenol.	88 - 85 - 7	Phenol, 2-(1-methylpropyl)-4,6-dinitro-.	8150 1 8270 20
Di-n-octyl phthalate.....	117 - 84 - 0	1,2-Benzenedicarboxylic acid,	8060 30

Common Name ²	CAS RN ³	Chemical abstracts service index name ⁴	Suggested PQL methods ⁵ (µg/L) ⁶
		dioctyl ester.	8270 10
Diphenylamine.....	122 - 39 - 4	Benzenamine, N-phenyl-.....	8270 10
Disulfoton.....	298 - 04 - 4	Phosphorodithioic acid, 0,0-diethyl S-[2-(ethylthio)ethyl] ester.	8140 2 8141 0.5
Endosulfan I.....	959 - 98 - 8	6,9-Methano-2,4,3-benzodioxathiepin, 6,7,8,9,10,10-hexa- chloro- 1,5,5a,6,9,9a-hexahydro-, 3-oxide,	8270 10 8080 0.1
Endosulfan II.....	33213-65-9	6,9-Methano-2,4,3-benzodioxathiepin, 6,7,8,9,10,10-hexa- chloro- 1,5,5a,6,9,9a-hexahydro-, 3-oxide, (3),5a],6[,9[,9a)]-.	8080 0.05 8270 20
Endosulfan sulfate.....	1031-07-8	6,9-Methano-2,4,3-benzodioxathiepin, 6,7,8,9,10,10-hexa- chloro- 1,5,5a,6,9,9a-hexahydro-,3-3-dioxide.	8080 0.5 8270 10
Endrin.....	72 - 20 - 8	2,7:3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexachloro- 1a,2,2a,3,6,6a,7,7a-octahydro-, (1a), 2[,2a[,3[,6[,6a[,7[,7a)]-.	8080 0.1 8270 20
Endrin aldehyde.....	7421-93-4	1,2,4-Methenocyclopenta[cd] pentalene-5-carboxaldehyde, 2,2a,3,3,4,7-hexachlorodecahydro-, (1),2[,2a[,4[,4a[,5[,6a[,6b[,7R*)-.	8080 0.2 8270 10
Ethylbenzene.....	100 - 41 - 4	Benzene, ethyl-.....	8020 2 8221 0.05 8260 5
Ethyl methacrylate.....	97 - 63 - 2	2-Propenoic acid, 2-methyl-, ethyl ester.	8015 5 8260 10 8270 10
Ethyl methanesulfonate.....	62 - 50 - 0	Methanesulfonic acid, ethyl ester....	8270 20
Famphur.....	52 - 85 - 7	Phosphorothioic acid, 0-[4- [(dimethylamino)sulfonyl]phenyl] 0,0-dimethyl ester.	8270 20
Fluoranthene.....	206 - 44 - 0	Fluoranthene.....	8100 200 8270 10
Fluorene.....	86 - 73 - 7	9H-Fluorene.....	8100 200 8270 10
Heptachlor.....	76 - 44 - 8	4,7-Methano-1H-indene, 1,4,5,6,7,8,8- heptachloro-3a,4,7,7a-tetrahydro-.	8080 0.05 8270 10
Heptachlor epoxide.....	1024-57-3	2,5-Methano-2H-indeno[1,2-b] oxirene, 2,3,4,5,6,7,7-heptachloro- 1a,1b,5,5a,6,6a-hexahydro-, (1a), 1b[, 2[, 5[, 5a[, 6[, 6a)]).	8080 1 8270 10
Hexachlorobenzene.....	118 - 74 - 1	Benzene, hexachloro-.....	8120 0.5 8270 10
Hexachlorobutadiene.....	87 - 68 - 3	1,3-Butadiene, 1,1,2,3,4,4-	8021 0.5

Common Name ²	CAS RN ³	Chemical abstracts service index name ⁴	Suggested PQL methods ⁵ (µg/L) ⁶
		hexachloro-	8120 5
			8260 10
			8270 10
Hexachlorocyclopentadiene.....	77 - 47 - 4	1,3-Cyclopentadiene, 1,2,3,4,5,5-hexachloro-	8120 5
		hexachloro-	8270 10
Hexachloroethane.....	67 - 72 - 1	Ethane, hexachloro-.....	8120 0.5
			8260 10
			8270 10
Hexachloropropene.....	1888-71-7	1-Propene, 1,1,2,3,3,3-hexachloro-..	8270 10
2-Hexanone; Methyl butyl ketone.....	591 - 78 - 6	2-Hexanone.....	8260 50
Indeno(1,2,3-cd)pyrene.....	193 - 39 - 5	Indeno(1,2,3-cd)pyrene.....	8100 200
			8270 10
Isobutyl alcohol.....	78 - 83 - 1	1-Propanol, 2-methyl-.....	8015 50
			8240 100
Isodrin.....	465 - 73 - 6	1,4,5,8-Dimethanonaphthalene,1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a hexahydro-(1),4],4a[,5[,8[,8a]-.	8270 20
			8260 10
Isophorone.....	78 - 59 - 1	2-Cyclohexen-1-one, 3,5,5-trimethyl-	8090 60
			8270 10
Isosafrole.....	120 - 58 - 1	1,3-Benzodioxole, 5-(1-propenyl)-....	8270 10
Kepone.....	143 - 50 - 0	1,3,4-Metheno-2H-cyclobuta[cd]pentalen-2-one, 1,1a,3,3a,4,5,5,5a,5b,6-decachlorooctahydro-	8270 20
Lead.....	(Total) Lead.....		6010 400
			7420 1000
			7421 10
Mercury.....	(Total) Mercury.....		7470 2
Methacrylonitrile.....	126 - 98 - 7	2-Propenenitrile, 2-methyl-.....	8015 5
			8260 100
Methapyrilene.....	91 - 80 - 5	1,2-Ethanediamine, N.N-dimethyl-N\1\2-pyridinyl-N1/2-thienylmethyl)-.	8270 100
Methoxychlor.....	72 - 43 - 5	Benzene,1,1 ¹ -(2,2,2,trichloroethylidene)bis[4-methoxy-.	8080 2
			8270 10
Methyl bromide; Bromomethane.....	74 - 83 - 9	Methane, bromo-.....	8010 20
			8021 10
Methyl chloride; Chloromethane.....	74 - 87 - 3	Methane, chloro-.....	8010 1
			8021 0.3
3-Methylcholanthrene.....	56 - 49 - 5	Benz[j]aceanthrylene, 1,2-dihydro-3-methyl-.	8270 10
Methyl ethyl ketone; MEK; 2-Butanone	78 - 93 - 3	2-Butanone.....	8015 10
			8260 100
Methyl iodide; Iodomethane.....	74 - 88 - 4	Methane, iodo-.....	8010 40
			8260 10
Methyl methacrylate.....	80 - 62 - 6	2-Propenoic acid, 2-methyl-, methyl	8015 2

Common Name ²	CAS RN ³	Chemical abstracts service index name ⁴	Suggested PQL methods ⁵ (µg/L) ⁶
		ester.	8260 30
Methyl methanesulfonate.....	66 - 27 - 3	Methanesulfonic acid, methyl ester..	8270 10
2-Methylnaphthalene.....	91 - 57 - 6	Naphthalene, 2-methyl-.....	8270 10
Methyl parathion; Parathion methyl...	298 - 00 - 0	Phosphorothioic acid, 0,0-dimethyl..	8140 0.5
			8141 1
			8270 10
4-Methyl-2-pentanone; Methyl isobutyl ketone.	108 - 10 - 1	2-Pentanone, 4-methyl-.....	8015 5
			8260 100
Methylene bromide; Dibromomethane..	74 - 95 - 3	Methane, dibromo-.....	8010 15
			8021 20
			8260 10
Methylene chloride; Dichloromethane..	75 - 09 - 2	Methane, dichloro-.....	8010 5
			8021 0.2
			8260 10
Naphthalene.....	91 - 20 - 3	Naphthalene.....	8021 0.5
			8100 200
			8260 5
			8270 10
1,4-Naphthoquinone.....	130 - 15 - 4	1,4-Naphthalenedione.....	8270 10
1-Naphthylamine.....	134 - 32 - 7	1-Naphthalenamine.....	8270 10
2-Naphthylamine.....	91 - 59 - 8	2-Naphthalenamine.....	8270 10
Nickel.....	(Total) Nickel.....		6010 150
			7520 400
o-Nitroaniline; 2-Nitroaniline.....	88 - 74 - 4	Benzenamine, 2-nitro-.....	8270 50
m-Nitroaniline; 3-Nitroaniline.....	99 - 09 - 2	Benzenamine, 3-nitro-.....	8270 50
p-Nitroaniline; 4-Nitroaniline.....	100 - 01 - 6	Benzenamine, 4-nitro-.....	8270 20
Nitrobenzene.....	98 - 95 - 3	Benzene, nitro-.....	8090 40
			8270 10
o-Nitrophenol; 2-Nitrophenol.....	88 - 75 - 5	Phenol, 2-nitro-.....	8040 5
			8270 10
p-Nitrophenol; 4-Nitrophenol.....	100 - 02 - 7	Phenol, 4-nitro-.....	8040 10
			8270 50
N-Nitrosodi-n-butylamine.....	924 - 16 - 3	1-Butanamine, N-butyl-N-nitroso-....	8270 10
N-Nitrosodiethylamine.....	55 - 18 - 5	Ethanamine, N-ethyl-N-nitroso-.....	8270 20
N-Nitrosodimethylamine.....	62 - 75 - 9	Methanamine, N-methyl-N-nitroso-...	8070 2
N-Nitrosodiphenylamine.....	86 - 30 - 6	Benzenamine, N-nitroso-N-phenyl-....	8070 5
N-Nitrosodipropylamine; N-Nitroso-N-dipropylamine; Di-n-propylnitrosamine.	621 - 64 - 7	1-Propanamine, N-nitroso-N-propyl..	8070 10
N-Nitrosomethylethylamine.....	10595-95-6	Ethanamine, N-methyl-N-nitroso-.....	8270 10
N-Nitrosopiperidine.....	100 - 75 - 4	Piperidine, 1-nitroso-.....	8270 20
N-Nitrosopyrrolidine.....	930 - 55 - 2	Pyrrolidine, 1-nitroso-.....	8270 40
5-Nitro-o-toluidine.....	99 - 55 - 8	Benzenamine, 2-methyl-5-nitro-.....	8270 10
Parathion.....	56 - 38 - 2	Phosphorothioic acid, 0,0-diethyl 0-(4-nitrophenyl) ester.	8141 0.5
			8270 10
Pentachlorobenzene.....	608 - 93 - 5	Benzene, pentachloro-.....	8270 10
Pentachloronitrobenzene.....	82 - 68 - 8	Benzene, pentachloronitro-.....	8270 20

Common Name ²	CAS RN ³	Chemical abstracts service index name ⁴	Suggested PQL methods ⁵ (µg/L) ⁶
Pentachlorophenol.....	87 - 86 - 5	Phenol, pentachloro-.....	8040 5 8270 50
Phenacetin.....	62 - 44 - 2	Acetamide, N-(4-ethoxyphenyl).....	8270 20
Phenanthrene.....	85 - 01 - 8	Phenanthrene.....	8100 200 8270 10
Phenol.....	108 - 95 - 2	Phenol.....	8040 1
p-Phenylenediamine.....	106 - 50 - 3	1,4-Benzenediamine.....	8270 10
Phorate.....	298 - 02 - 2	Phosphorodithioic acid, 0,0-diethyl S-[(ethylthio)methyl] ester.	8140 2 8141 0.5 8270 10
Polychlorinated biphenyls; PCBs; Aroclors.	See Note 9	1,1'-Biphenyl, chloro derivatives...	8080 50 8270 200
Pronamide.....	23950-58-5	Benzamide, 3,5-dichloro-N-(1,1-dimethyl-2-propynyl)-.	8270 10
Propionitrile; Ethyl cyanide.....	107 - 12 - 0	Propanenitrile.....	8015 60 8260 150
Pyrene.....	129 - 00 - 0	Pyrene.....	8100 200 8270 10
Safrole.....	94 - 59 - 7	1,3-Benzodioxole, 5-(2-propenyl)-...	8270 10
Selenium.....	(Total)	Selenium.....	6010 750 7740 20 7741 20
Silver.....	(Total)	Silver.....	6010 70 7760 100 7761 10
Silvex; 2,4,5-TP.....	93 - 72 - 1	Propanoic acid, 2-(2,4,5-trichlorophenoxy)-.	8150 2
Styrene.....	100 - 42 - 5	Benzene, ethenyl-.....	8020 1 8021 0.1 8260 10
Sulfide.....	18496-25-8	Sulfide.....	9030 4000
2,4,5-T; 2,4,5-Trichlorophenoxyacetic acid.	93 - 76 - 5	Acetic acid, (2,4,5-trichlorophenoxy)-.	8150 2
1,2,4,5-Tetrachlorobenzene.....	95 - 94 - 3	Benzene, 1,2,4,5-tetrachloro-.....	8270 10
1,1,1,2-Tetrachloroethane.....	630 - 20 - 6	Ethane, 1,1,1,2-tetrachloro-.....	8010 5 8021 0.05 8260 5
1,1,2,2-Tetrachloroethane.....	79 - 34 - 5	Ethane, 1,1,2,2-tetrachloro-.....	8010 0.5 8021 0.1 8260 5
Tetrachloroethylene; Tetrachloroethene; Perchloroethylene.	127 - 18 - 4	Ethene, tetrachloro-.....	8010 0.5 8021 0.5 8260 5
2,3,4,6-Tetrachlorophenol.....	58 - 90 - 2	Phenol, 2,3,4,6-tetrachloro-.....	8270 10
Thallium.....	(Total)	Thallium.....	6010 400 7840 1000 7841 10

Common Name ²	CAS RN ³	Chemical abstracts service index name ⁴	Suggested PQL methods ⁵ (µg/L) ⁶
Tin.....	(Total) Tin.....		6010 40
Toluene.....	108 - 88 - 3	Benzene, methyl-.....	8020 2
			8021 0.1
			8260 5
o-Toluidine.....	95 - 53 - 4	Benzenamine, 2-methyl-.....	8270 10
Toxaphene.....	See Note 10	Toxaphene.....	8080 2
1,2,4-Trichlorobenzene.....	120 - 82 - 1	Benzene, 1,2,4-trichloro-.....	8021 0.3
			8120 0.5
			8260 10
			8270 10
1,1,1-Trichloroethane; Methylchloroform.	71 - 55 - 6	Ethane, 1,1,1-trichloro-.....	8010 0.3
			8021 0.3
			8260 5
1,1,2-Trichloroethane.....	79 - 00 - 5	Ethane, 1,1,2-trichloro-.....	8010 0.2
			8260 5
Trichloroethylene; Trichloroethene...	79 - 01 - 6	Ethene, trichloro-.....	8010 1
			8021 0.2
			8260 5
Trichlorofluoromethane; CFC - 11.....	75 - 69 - 4	Methane, trichlorofluoro-.....	8010 10
			8021 0.3
			8260 5
2,4,5-Trichlorophenol.....	95 - 95 - 4	Phenol, 2,4,5-trichloro-.....	8270 10
2,4,6-Trichlorophenol.....	88 - 06 - 2	Phenol, 2,4,6-trichloro-.....	8040 5
			8270 10
1,2,3-Trichloropropane.....	96 - 18 - 4	Propane, 1,2,3-trichloro-.....	8010 10
			8021 5
			8260 15
0,0,0-Triethyl phosphorothioate.....	126 - 68 - 1	Phosphorothioic acid, 0,0,0- triethylester.	8270 10
sym-Trinitrobenzene.....	99 - 35 - 4	Benzene, 1,3,5-trinitro-.....	8270 10
Vanadium.....	(Total)	Vanadium.....	6010 80
			7910 2000
			7911 40
Vinyl acetate.....	108 - 05 - 4	Acetic acid, ethenyl ester.....	8260 50
Vinyl chloride; Chloroethene.....	75 - 01 - 4	Ethene, chloro-.....	8010 2
			8021 0.4
			8260 10
Xylene (total).....	See Note 11	Benzene, dimethyl-.....	8020 5
			8021 0.2
			8260 5
Zinc.....	(Total) Zinc.....		6010 20
			7950 50
			7951 0.5

Notes

¹The regulatory requirements pertain only to the list of substances; the right hand columns (Methods and PQL) are given for informational purposes only. See also footnotes 5 and 6.

²Common names are those widely used in government regulations, scientific publications, and commerce; synonyms exist for many chemicals.

³Chemical Abstracts Service registry number. Where "Total" is entered, all species in the ground water that contain this element are included.

⁴CAS index are those used in the 9th Collective Index.

⁵Suggested Methods refer to analytical procedure numbers used in EPA Report SW - 846 "Test Methods for Evaluating Solid Waste", third edition, November 1986, as revised, December 1987. Analytical details can be found in SW - 846 and in documentation on file at the agency. CAUTION: The methods listed are representative SW - 846 procedures and may not always be the most suitable method(s) for monitoring an analyte under the regulations.

⁶Practical Quantitation Limits (PQLs) are the lowest concentrations of analytes in groundwaters that can be reliably determined within specified limits of precision and accuracy by the indicated methods under routine laboratory operating conditions. The PQLs listed are generally stated to one significant figure. PQLs are based on 5 mL samples for volatile organics and 1 L samples for semivolatile organics. CAUTION: The PQL values in many cases are based only on a general estimate for the method and not on a determination for individual compounds; PQLs are not a part of the regulation.

⁷This substance is often called Bis(2-chloroisopropyl) ether, the name Chemical Abstracts Service applies to its noncommercial isomer, Propane, 2,2"-oxybis[2-chloro- (CAS RN 39638 - 32 - 9).

⁸Chlordane: This entry includes alpha-chlordane (CAS RN 5103 - 71 - 9), beta-chlordane (CAS RN 5103 - 74 - 2), gamma-chlordane (CAS RN 5566 - 34 - 7), and constituents of chlordane (CAS RN 57 - 74 - 9 and CAS RN 12789 - 03 - 6). PQL shown is for technical chlordane. PQLs of specific isomers are about 20 ug/L by method 8270.

⁹Polychlorinated biphenyls (CAS RN 1336 - 36 - 3); this category contains congener chemicals, including constituents of Aroclor 1016 (CAS RN 12674 - 11 - 2), Aroclor 1221 (CAS RN 11104 - 28 - 2), Aroclor 1232 (CAS RN 11141 - 16 - 5), Aroclor 1242 (CAS RN 53469 - 21 - 9), Aroclor 1248 (CAS RN 12672 - 29 - 6), Aroclor 1254 (CAS RN 11097 - 69 - 1), and Aroclor 1260 (CAS RN 11096 - 82 - 5). The PQL shown is an average value for PCB congeners.

¹⁰Toxaphene: This entry includes congener chemicals contained in technical toxaphene (CAS RN 8001 - 35 - 2), i.e., chlorinated camphene.

¹¹Xylene (total): This entry includes o-xylene (CAS RN 96 - 47 - 6), m-xylene (CAS RN 108 - 38 - 3), p-xylene (CAS RN 106 - 42 - 3), and unspecified xylenes (dimethylbenzenes) (CAS RN 1330 - 20 - 7). PQLs for method 8021 are 0.2 for o-xylene and 0.1 for m- or p-xylene. The PQL for m-xylene is 2.0 ug/L by method 8020 or 8260.