

LDEQ RECAP TABLE 1  
SCREENING OPTION  
SCREENING STANDARDS FOR SOIL AND GROUNDWATER

COMPOUND	CAS #	SOIL_SSni (mg/kg)	NOTE	SOIL_SSi (mg/kg)	NOTE	SOIL_SSGW (mg/kg)	NOTE	GW_SS (mg/L)	NOTE
Acenaphthene	83-32-9	3.7E+02	N	6.1E+03	N	2.2E+02	A	3.7E-02	N
Acenaphthylene	208-96-8	3.5E+02	N	5.1E+03	N	8.8E+01	A	1.0E-01	Q
Acetone	67-64-1	1.7E+02	N	1.4E+03	N	1.5E+00	A	1.0E-01	Q
Aldrin	309-00-2	2.8E-02	C	1.3E-01	C	1.1E+01	A	1.9E-03	Q
Aniline	62-53-3	2.4E+00	N	1.7E+01	N	6.5E-02	A	1.2E-02	C
Anthracene	120-12-7	2.2E+03	N	4.8E+04	N	1.2E+02	A	4.3E-02	W
Antimony	7440-36-0	3.1E+00	N	8.2E+01	N	1.2E+01	L1	6.0E-03	MCL
Arsenic	7440-38-2	1.2E+01	D	1.2E+01	D	1.0E+02	L	1.0E-02	MCL
Barium	7440-39-3	5.5E+02	N	1.4E+04	N	2.0E+03	L	2.0E+00	MCL
Benzene	71-43-2	1.5E+00	C	3.1E+00	C	5.1E-02	A	5.0E-03	MCL
Benz(a)anthracene	56-55-3	6.2E-01	C	2.9E+00	C	3.3E+02	A	7.8E-03	Q
Benzo(a)pyrene	50-32-8	3.3E-01	Q	3.3E-01	Q	2.3E+01	A	2.0E-04	MCL
Benzo(b)fluoranthene	205-99-2	6.2E-01	C	2.9E+00	C	2.2E+02	A	4.8E-03	Q
Benzo(k)fluoranthene	207-08-9	6.2E+00	C	2.9E+01	C	1.2E+02	A	2.5E-03	Q
Beryllium	7440-41-7	1.6E+01	N	4.1E+02	N	8.0E+00	L1	4.0E-03	MCL
Biphenyl, 1,1-	92-52-4	2.3E+02	P	2.3E+02	P	1.9E+02	A	3.0E-02	N
Bis(2-chloroethyl)ether	111-44-4	3.3E-01	Q	1.1E+00	C	3.3E-01	Q	5.7E-03	Q
Bis(2-chloroisopropyl)ether	108-60-1	4.9E+00	C	1.7E+01	C	8.0E-01	Q	5.7E-03	Q
Bis(2-ethyl-hexyl)phthalate	117-81-7	3.5E+01	C	1.7E+02	C	7.9E+01	A	6.0E-03	MCL
Bromodichloromethane	75-27-4	1.8E+00	C	4.2E+00	C	9.2E-01	A	1.0E-01	MCL
Bromoform	75-25-2	4.8E+01	C	1.8E+02	C	1.8E+00	A	1.0E-01	MCL
Bromomethane	74-83-9	4.3E-01	N	3.0E+00	N	4.0E-02	A	1.0E-02	Q
Butyl benzyl phthalate	85-68-7	2.2E+02	P	2.2E+02	P	2.2E+02	P	7.3E-01	N
Cadmium	7440-43-9	3.9E+00	N	1.0E+02	N	2.0E+01	L	5.0E-03	MCL
Carbon Disulfide	75-15-0	3.6E+01	N	2.5E+02	N	1.1E+01	A	1.0E-01	N
Carbon Tetrachloride	56-23-5	1.8E-01	N	1.1E+00	C	1.1E-01	A	5.0E-03	MCL
Chlordane	57-74-9	1.6E+00	C	1.0E+01	C	1.2E+01	A	2.0E-03	MCL
Chloroaniline,p-	106-47-8	1.6E+01	N	1.7E+02	N	1.5E+00	A	2.0E-02	Q
Chlorobenzene	108-90-7	1.7E+01	N	1.2E+02	N	3.0E+00	A	1.0E-01	MCL
Chlorodibromomethane	124-48-1	2.2E+00	C	5.4E+00	C	1.0E+00	A	1.0E-01	MCL
Chloroethane (Ethylchloride)	75-00-3	4.1E+00	C	8.2E+00	C	3.5E-02	A	1.0E-02	Q
Chloroform	67-66-3	4.4E-02	N	3.0E-01	N	9.0E-01	A	1.0E-01	MCL
Chloromethane	74-87-3	3.5E+00	C	7.3E+00	C	1.0E-01	Q	1.0E-02	Q
Chloronaphthalene,2-	91-58-7	5.0E+02	N	8.3E+03	N	5.0E+02	A	4.9E-02	N
Chlorophenol,2-	95-57-8	1.5E+01	N	1.4E+02	N	1.4E+00	A	1.0E-02	Q
Chromium(III)	16065-83-1	1.2E+04	N	3.1E+05	N	1.0E+02	L	1.0E-01	MCL

NOTE: See end of Table for designation of letter symbols

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SCREENING STANDARDS FOR SOIL AND GROUNDWATER

COMPOUND	CAS #	SOIL_SSnI (mg/kg)	NOTE	SOIL_SSi (mg/kg)	NOTE	SOIL_SSGW (mg/kg)	NOTE	GW_SS (mg/L)	NOTE
Chromium(VI)	18540-29-97	2.3E+01	N	6.1E+02	N	1.0E+02	L	1.0E-01	MCL
Chrysene	218-01-9	6.2E+01	C	2.9E+02	C	7.6E+01	A	1.6E-03	W
Cobalt	7440-48-4	4.7E+02	N	1.2E+04	N	4.4E+03	L1	2.2E-01	N
Copper	7440-50-8	3.1E+02	N	8.2E+03	N	1.5E+03	S	1.3E+00	MCL
Cyanide (free)	57-12-5	1.5E+02	N	3.6E+03	N	4.0E+02	L1	2.0E-01	MCL
DDD	72-54-8	2.4E+00	C	1.6E+01	C	1.5E+00	A	2.8E-04	C
DDE	72-55-9	1.7E+00	C	1.1E+01	C	2.0E+00	A	2.0E-04	C
DDT	50-29-3	1.7E+00	C	1.2E+01	C	2.4E+01	A	3.0E-04	Q
Dibenz(a,h)anthracene	53-70-3	3.3E-01	Q	3.3E-01	Q	5.4E+02	A	2.5E-03	Q
Dibenzofuran	132-64-9	2.9E+01	N	1.5E+02	P	2.4E+01	A	1.0E-02	Q
Dibromo-3-chloropropane,1,2-	96-12-8	1.8E-01	N	1.6E+00	N	1.0E-02	Q	2.0E-04	MCL
Dichlorobenzene,1,2-	95-50-1	9.9E+01	N	3.8E+02	P	2.9E+01	A	6.0E-01	MCL
Dichlorobenzene,1,3-	541-73-1	2.1E+00	N	1.8E+01	N	2.1E+00	A	1.0E-02	Q
Dichlorobenzene,1,4-	106-46-7	6.7E+00	C	1.6E+01	C	5.7E+00	A	7.5E-02	MCL
Dichlorobenzidine,3,3'-	91-94-1	9.7E-01	C	4.2E+00	C	1.8E+00	A	2.0E-02	Q
Dichloroethane,1,1-	75-34-3	6.6E+01	N	4.7E+02	N	7.5E+00	A	8.1E-02	N
Dichloroethane,1,2-	107-06-2	8.2E-01	C	1.8E+00	C	3.5E-02	A	5.0E-03	MCL
Dichloroethene,1,1-	75-35-4	1.3E+01	N	9.1E+01	N	8.5E-02	A	7.0E-03	MCL
Dichloroethene,cis,1,2-	156-59-2	4.8E+00	N	3.4E+01	N	4.9E-01	A	7.0E-02	MCL
Dichloroethene,trans,1,2-	156-60-5	6.9E+00	N	4.8E+01	N	7.7E-01	A	1.0E-01	MCL
Dichlorophenol,2,4-	120-83-2	1.6E+01	N	2.0E+02	N	1.2E+01	A	1.1E-02	N
Dichloropropane,1,2-	78-87-5	6.9E-01	N	1.8E+00	C	4.2E-02	A	5.0E-03	MCL
Dichloropropene,1,3-	542-75-6	3.1E+00	C	1.0E+01	C	4.0E-02	A	5.0E-03	Q
Dieldrin	60-57-1	3.0E-02	C	1.5E-01	C	7.6E+00	A	2.5E-03	Q
Diethylphthalate	84-66-2	6.7E+02	P	6.7E+02	P	3.6E+02	A	2.9E+00	N
Dimethylphenol,2,4-	105-67-9	9.3E+01	N	1.1E+03	N	2.0E+01	A	7.3E-02	N
Dimethylphthalate	131-11-3	1.5E+03	P	1.5E+03	P	1.5E+03	P	3.7E+01	N
Di-n-octylphthalate	117-84-0	2.4E+02	N	3.5E+03	N	1.0E+04	P	2.0E-02	W
Dinitrobenzene,1,3-	99-65-0	4.5E-01	N	5.0E+00	N	2.5E-01	Q	1.0E-02	Q
Dinitrophenol,2,4-	51-28-5	7.1E+00	N	6.9E+01	N	1.7E+00	Q	5.0E-02	Q
Dinitrotoluene,2,6-	606-20-2	4.3E+00	N	4.6E+01	N	3.9E-01	A	1.0E-02	Q
Dinitrotoluene,2,4-	121-14-2	8.9E+00	N	9.8E+01	N	1.0E+00	A	1.0E-02	Q
Dinoseb	88-85-7	4.7E+00	N	5.4E+01	N	1.4E-01	Q	7.0E-03	MCL
Endosulfan	115-29-7	3.4E+01	N	4.5E+02	N	5.4E+01	A	2.2E-02	N
Endrin	72-20-8	1.8E+00	N	2.5E+01	N	2.6E+00	A	2.0E-03	MCL
Ethyl benzene	100-41-4	1.6E+02	N	2.3E+02	P	1.9E+01	A	7.0E-01	MCL

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COMPOUND	CAS #	SOIL_SSnI (mg/kg)	NOTE	SOIL_SSi (mg/kg)	NOTE	SOIL_SSGW (mg/kg)	NOTE	GW_SS (mg/L)	NOTE
Fluoranthene	206-44-0	2.2E+02	N	2.9E+03	N	1.2E+03	A	1.5E-01	N
Fluorene	86-73-7	2.8E+02	N	5.4E+03	N	2.3E+02	A	2.4E-02	N
Heptachlor	76-44-8	1.6E-02	C	3.5E-02	C	5.0E-01	A	4.0E-04	MCL
Heptachlor epoxide	1024-57-3	5.3E-02	C	2.6E-01	C	2.0E+00	A	2.0E-04	MCL
Hexachlorobenzene	118-74-1	3.4E-01	C	2.0E+00	C	9.6E+00	A	1.0E-03	MCL
Hexachlorobutadiene	87-68-3	8.2E-01	N	8.6E+00	N	5.5E+00	A	7.3E-04	N
Hexachlorocyclohexane, alpha	319-84-6	8.2E-02	C	4.4E-01	C	6.4E-03	A	3.0E-05	Q
Hexachlorocyclohexane, beta	319-85-7	2.9E-01	C	1.6E+00	C	1.6E-02	A	6.0E-05	Q
Hexachlorocyclohexane, gamma	58-89-9	3.9E-01	C	2.0E+00	C	3.3E-02	A	2.0E-04	MCL
Hexachlorocyclopentadiene	77-47-4	1.4E+00	N	9.4E+00	N	1.2E+03	A	5.0E-02	MCL
Hexachloroethane	67-72-1	5.2E+00	N	6.8E+01	N	2.2E+00	A	1.0E-02	Q
Indeno(1,2,3-cd)pyrene	193-39-5	6.2E-01	C	2.9E+00	C	9.2E+00	A	3.7E-03	Q
Isobutyl alcohol	78-83-1	7.3E+02	N	6.2E+03	N	3.0E+01	A	1.1E+00	N
Isophorone	78-59-1	3.4E+02	C	1.1E+03	C	5.6E-01	A	7.0E-02	C
Lead (inorganic)	7439-92-1	4.0E+02	B	1.4E+03	B	1.0E+02	L	1.5E-02	MCL
Mercury (inorganic)	7487-94-7	2.3E+00	N	6.1E+01	N	4.0E+00	L	2.0E-03	MCL
Methoxychlor	72-43-5	3.0E+01	N	4.3E+02	N	3.8E+02	A	4.0E-02	MCL
Methylene chloride	75-09-2	1.9E+01	C	4.4E+01	C	1.7E-02	A	5.0E-03	MCL
Methyl ethyl ketone	78-93-3	5.9E+02	N	4.4E+03	N	5.0E+00	A	1.9E-01	N
Methyl isobutyl ketone	108-10-1	4.5E+02	N	3.1E+03	P	6.4E+00	A	2.0E-01	N
Methylnaphthalene, 2-	91-57-6	2.2E+01	N	1.7E+02	N	1.7E+00	A	6.2E-04	N
MTBE (methyl tert-butyl ether)	1634-04-4	6.5E+02	N	4.7E+03	N	7.7E-02	A	2.0E-02	T/O
Naphthalene	91-20-3	6.2E+00	N	4.3E+01	N	1.5E+00	A	1.0E-02	Q
Nickel	7440-02-0	1.6E+02	N	4.1E+03	N	1.5E+03	L1	7.3E-02	N
Nitrate	14797-55-8	1.3E+04	N	3.3E+05	N	2.0E+04	L1	1.0E+01	MCL
Nitrite	14797-65-0	7.8E+02	N	2.0E+04	N	2.0E+03	L1	1.0E+00	MCL
Nitroaniline, 2-	88-74-4	1.7E+00	Q	1.7E+00	Q	1.7E+00	Q	5.0E-02	Q
Nitroaniline, 3-	99-09-2	1.3E+01	N	1.4E+02	N	1.7E+00	Q	5.0E-02	Q
Nitroaniline, 4-	100-01-6	1.0E+01	N	1.0E+02	N	1.7E+00	Q	5.0E-02	Q
Nitrobenzene	98-95-3	2.2E+00	N	2.5E+01	N	3.3E-01	Q	1.9E-03	Q
Nitrophenol, 4-	100-02-7	3.2E+01	N	3.3E+02	N	2.6E+00	A	5.0E-02	Q
Nitrosodi-n-propylamine, n-	621-64-7	3.3E-01	Q	3.3E-01	Q	3.3E-01	Q	1.0E-02	Q
N-nitrosodiphenylamine	86-30-6	9.0E+01	C	4.0E+02	C	2.1E+00	A	1.4E-02	C
Pentachlorophenol	87-86-5	2.8E+00	C	9.7E+00	C	1.7E+00	Q	1.0E-03	MCL
Phenanthrene	85-01-8	2.1E+03	N	4.3E+04	N	6.6E+02	A	1.8E-01	N
Phenol	108-95-2	1.3E+03	N	1.5E+04	N	1.1E+01	A	1.8E-01	N

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COMPOUND	CAS #	SOIL_SSnI (mg/kg)	NOTE	SOIL_SSi (mg/kg)	NOTE	SOIL_SSGW (mg/kg)	NOTE	GW_SS (mg/L)	NOTE
Polychlorinated biphenyls	1336-36-3	1.1E-01	N	9.0E-01	C	1.9E+01	A	5.0E-04	MCL
Pyrene	129-00-0	2.3E+02	N	5.6E+03	N	1.1E+03	A	1.8E-02	N
Selenium	7782-49-2	3.9E+01	N	1.0E+03	N	2.0E+01	L	5.0E-02	MCL
Silver	7440-22-4	3.9E+01	N	1.0E+03	N	1.0E+02	L	1.8E-02	N
Styrene	100-42-5	5.0E+02	N	1.7E+03	P	1.1E+01	A	1.0E-01	MCL
Tetrachlorobenzene,1,2,4,5-	95-94-3	1.2E+00	N	1.2E+01	N	6.9E+00	A	1.1E-03	N
Tetrachloroethane,1,1,1,2-	630-20-6	2.7E+00	C	5.9E+00	C	4.6E-02	A	5.0E-03	Q
Tetrachloroethane,1,1,2,2-	79-34-5	8.1E-01	C	2.0E+00	C	6.0E-03	A	5.0E-04	Q
Tetrachloroethylene	127-18-4	8.3E+00	C	3.5E+01	C	1.8E-01	A	5.0E-03	MCL
Tetrachlorophenol,2,3,4,6-	58-90-2	1.4E+02	N	1.4E+03	P	3.1E+01	A	1.1E-01	N
Thallium	7440-28-0	5.5E-01	N	1.4E+01	N	4.0E+00	L1	2.0E-03	MCL
Toluene	108-88-3	6.8E+01	N	4.7E+02	N	2.0E+01	A	1.0E+00	MCL
Toxaphene	8001-35-2	4.4E-01	C	2.2E+00	C	3.4E+01	A	3.0E-03	MCL
Trichlorobenzene,1,2,4-	120-82-1	6.6E+01	N	1.2E+03	N	1.4E+01	A	7.0E-02	MCL
Trichloroethane,1,1,1,-	71-55-6	8.2E+01	N	7.0E+02	N	4.0E+00	A	2.0E-01	MCL
Trichloroethane,1,1,2,-	79-00-5	1.9E+00	C	4.3E+00	C	5.8E-02	A	5.0E-03	MCL
Trichloroethene	79-01-6	1.0E-01	C	2.1E-01	C	7.3E-02	A	5.0E-03	MCL
Trichlorofluoromethane	75-69-4	3.8E+01	N	2.6E+02	N	3.7E+01	A	1.3E-01	N
Trichlorophenol,2,4,5-	95-95-4	5.3E+02	N	6.6E+03	N	3.2E+02	A	3.7E-01	N
Trichlorophenol,2,4,6-	88-06-2	4.0E+01	C	1.7E+02	C	1.3E+00	A	1.0E-02	Q
Vanadium	7440-62-2	5.5E+01	N	1.4E+03	N	5.2E+02	L1	2.6E-02	N
Vinyl chloride	75-01-4	2.4E-01	C	7.9E-01	C	1.3E-02	A	2.0E-03	MCL
Xylene(mixed)	1330-20-7	1.8E+01	N	1.2E+02	N	1.5E+02	P	1.0E+01	MCL
Zinc	7440-66-6	2.3E+03	N	6.1E+04	N	2.8E+03	S	1.1E+00	N
Aliphatics C6-C8	NA	1.2E+03	N	8.0E+03	N	1.0E+04	O,T	3.2E+00	N
Aliphatics >C8-C10	NA	1.2E+02	N	8.8E+02	N	5.3E+03	A	1.5E-01	Q
Aliphatics >C10-C12	NA	2.3E+02	N	2.0E+03	N	1.0E+04	O,T	1.5E-01	Q
Aliphatics >C12-C16	NA	3.7E+02	N	3.8E+03	N	1.0E+04	O,T	1.5E-01	Q
Aliphatics >C16-C35	NA	7.1E+03	N	1.0E+04	O,T	1.0E+04	O,T	7.3E+00	N
Aromatics >C8-C10	NA	6.5E+01	N	5.1E+02	N	6.5E+01	A	1.5E-01	Q
Aromatics >C10-C12	NA	1.2E+02	N	1.1E+03	N	1.0E+02	A	1.5E-01	Q
Aromatics >C12-C16	NA	1.8E+02	N	2.1E+03	N	2.0E+02	A	1.5E-01	Q
Aromatics >C16-C21	NA	1.5E+02	N	1.7E+03	N	2.1E+03	A	1.5E-01	Q
Aromatics >C21-C35	NA	1.8E+02	N	2.5E+03	N	1.0E+04	O,T	1.5E-01	Q

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COMPOUND	CAS #	SOIL_SSnI (mg/kg)	NOTE	SOIL_SSi (mg/kg)	NOTE	SOIL_SSGW (mg/kg)	NOTE	GW_SS (mg/L)	NOTE
TPH-GRO	NA	6.5E+01	N,I	5.1E+02	N,I	6.5E+01	A	1.5E-01	Q
TPH-DRO	NA	6.5E+01	N,I	5.1E+02	N,I	6.5E+01	A	1.5E-01	Q
TPH-ORO	NA	1.8E+02	N,I	2.5E+03	N,I	1.0E+04	O,T	1.5E-01	Q
A - Based on algorithm contained in Appendix H									
B - Based on EPA's biokinetic and adult lead cleanup level models for lead									
C - Based on carcinogenic health effects									
D - DEQ established background level plus one standard deviation = 11.5									
I - TPH Standards are only applicable when used in conjunction with Standards for indicator compounds									
L - Soil level protective of groundwater for inorganic constituents based on leachability									
L1 - Soil level protective of groundwater for inorganic constituents based on GW 1 because TCLP value not listed									
M - Based on EPA's Maximum Contaminant Level (MCL) for drinking water									
N - Based on non-carcinogenic health effects									
O - Ceiling value based on aesthetic considerations									
P - Soil Saturation Limit is less than health based level thus default to soil saturation limit									
Q - Based on analytical quantitation limit									
S - Soil level protective of groundwater for inorganic constituents based on the maximum concentration for the beneficial use of sewage sludge									
T - TPH shall not exceed 10,000									
W - Solubility limit is less than health based limit thus default to solubility limit									
T/O - EPA taste/odor advisory value									

NOTE: See end of Table for designation of letter symbols