

APPENDIX T
RECAP STANDARDS AND CALCULATIONS

	A	B	C	D	E	F	G	H	I	J	K	L
1	UCL Statistics for Uncensored Full Data Sets											
2												
3	User Selected Options											
4	Date/Time of Computation			ProUCL 5.2 5/26/2025 1:21:37 PM								
5	From File			WorkSheet.xls								
6	Full Precision			OFF								
7	Confidence Coefficient			95%								
8	Number of Bootstrap Operations			2000								
9												
10												
11	C1											
12												
13	General Statistics											
14	Total Number of Observations				18		Number of Distinct Observations				18	
15							Number of Missing Observations				0	
16	Minimum				5		Mean				35.96	
17	Maximum				119		Median				17.15	
18	SD				36.67		Std. Error of Mean				8.643	
19	Coefficient of Variation				1.02		Skewness				1.119	
20												
21	Normal GOF Test											
22	Shapiro Wilk Test Statistic				0.789		Shapiro Wilk GOF Test					
23	1% Shapiro Wilk Critical Value				0.858		Data Not Normal at 1% Significance Level					
24	Lilliefors Test Statistic				0.314		Lilliefors GOF Test					
25	1% Lilliefors Critical Value				0.235		Data Not Normal at 1% Significance Level					
26	Data Not Normal at 1% Significance Level											
27												
28	Assuming Normal Distribution											
29	95% Normal UCL					95% UCLs (Adjusted for Skewness)						
30	95% Student's-t UCL				51		95% Adjusted-CLT UCL (Chen-1995)				52.61	
31							95% Modified-t UCL (Johnson-1978)				51.38	
32												
33	Gamma GOF Test											
34	A-D Test Statistic				0.932		Anderson-Darling Gamma GOF Test					
35	5% A-D Critical Value				0.764		Data Not Gamma Distributed at 5% Significance Level					
36	K-S Test Statistic				0.225		Kolmogorov-Smirnov Gamma GOF Test					
37	5% K-S Critical Value				0.209		Data Not Gamma Distributed at 5% Significance Level					
38	Data Not Gamma Distributed at 5% Significance Level											
39												
40	Gamma Statistics											
41	k hat (MLE)				1.115		k star (bias corrected MLE)				0.967	
42	Theta hat (MLE)				32.24		Theta star (bias corrected MLE)				37.2	
43	nu hat (MLE)				40.16		nu star (bias corrected)				34.8	
44	MLE Mean (bias corrected)				35.96		MLE Sd (bias corrected)				36.58	
45						Approximate Chi Square Value (0.05)				22.3		
46	Adjusted Level of Significance				0.0357		Adjusted Chi Square Value				21.34	
47												
48	Assuming Gamma Distribution											
49	95% Approximate Gamma UCL				56.1		95% Adjusted Gamma UCL				58.62	
50												
51	Lognormal GOF Test											
52	Shapiro Wilk Test Statistic				0.914		Shapiro Wilk Lognormal GOF Test					

	A	B	C	D	E	F	G	H	I	J	K	L
53	10% Shapiro Wilk Critical Value					0.914	Data appear Lognormal at 10% Significance Level					
54	Lilliefors Test Statistic					0.157	Lilliefors Lognormal GOF Test					
55	10% Lilliefors Critical Value					0.185	Data appear Lognormal at 10% Significance Level					
56	Data appear Lognormal at 10% Significance Level											
57												
58	Lognormal Statistics											
59	Minimum of Logged Data					1.609	Mean of logged Data					3.071
60	Maximum of Logged Data					4.779	SD of logged Data					1.05
61												
62	Assuming Lognormal Distribution											
63	95% H-UCL					74.66	90% Chebyshev (MVUE) UCL					65.54
64	95% Chebyshev (MVUE) UCL					79	97.5% Chebyshev (MVUE) UCL					97.69
65	99% Chebyshev (MVUE) UCL					134.4						
66												
67	Nonparametric Distribution Free UCL Statistics											
68	Data appear to follow a Discernible Distribution											
69												
70	Nonparametric Distribution Free UCLs											
71	95% CLT UCL					50.18	95% BCA Bootstrap UCL					53.23
72	95% Standard Bootstrap UCL					50.09	95% Bootstrap-t UCL					54.91
73	95% Hall's Bootstrap UCL					50.54	95% Percentile Bootstrap UCL					50.66
74	90% Chebyshev(Mean, Sd) UCL					61.89	95% Chebyshev(Mean, Sd) UCL					73.64
75	97.5% Chebyshev(Mean, Sd) UCL					89.94	99% Chebyshev(Mean, Sd) UCL					122
76												
77	Suggested UCL to Use											
78	95% H-UCL					74.66						
79												
80	The calculated UCLs are based on assumptions that the data were collected in a random and unbiased manner.											
81	Please verify the data were collected from random locations.											
82	If the data were collected using judgmental or other non-random methods,											
83	then contact a statistician to correctly calculate UCLs.											
84												
85	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
86	Recommendations are based upon data size, data distribution, and skewness using results from simulation studies.											
87	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
88												

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

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
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

NOTE: See end of Table for designation of letter symbols

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
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

NOTE: See end of Table for designation of letter symbols

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
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

NOTE: See end of Table for designation of letter symbols

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

		SOIL_SSni		SOIL_SSi		SOIL_SSGW		GW_SS	
COMPOUND	CAS #	(mg/kg)	NOTE	(mg/kg)	NOTE	(mg/kg)	NOTE	(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

LDEQ RECAP TABLE 2
MANAGEMENT OPTION 1
STANDARDS FOR SOIL
(mg/kg)

COMPOUND	CAS #	SOILni	NOTE	SOILi	NOTE	SOILGW1	NOTE	SOILGW2	NOTE	SOILGW3DW	NOTE	SOILGW3NDW	NOTE	SOILsat	SOILesni*	SOILesi*
Acenaphthene	83-32-9	3.7E+03	N	6.1E+04	N	2.2E+02	A	2.2E+02	X DF 2	2.5E+02	X DF3	3.2E+02	X DF 3	NA	7.3E+04	2.5E+05
Acenaphthylene	208-96-8	3.5E+03	N	5.1E+04	N	8.8E+01	A	8.8E+01	X DF 2	1.4E+02	X DF3	1.9E+02	X DF 3	NA	3.8E+04	1.3E+05
Acetone	67-64-1	1.7E+03	N	1.4E+04	N	1.5E+00	A	1.5E+00	X DF 2	8.5E+00	X DF3	1.8E+02	X DF 3	1.3E+05	6.6E+02	2.3E+03
Aldrin	309-00-2	2.8E-02	C	1.3E-01	C	1.1E+01	A	1.1E+01	F	1.1E+01	H	1.1E+01	H	NA		
Aniline	62-53-3	2.4E+01	N	1.7E+02	N	6.5E-02	A	6.5E-02	X DF 2	3.2E-02	X DF3	4.4E-01	X DF 3	1.0E+04		
Anthracene	120-12-7	2.2E+04	N	4.8E+05	N	1.2E+02	A	1.2E+02	X DF 2	1.2E+02	X DF3	1.2E+02	X DF 3	NA	1.0E+06	1.0E+06
Antimony	7440-36-0	3.1E+01	N	8.2E+02	N	1.2E+01	L1	1.2E+01	L1	1.2E+01	L1	1.2E+01	L1	NA		
Arsenic	7440-38-2	1.2E+01	D	1.2E+01	D	1.0E+02	L	1.0E+02	L	1.0E+02	L	1.0E+02	L	NA		
Barium	7440-39-3	5.5E+03	N	1.4E+05	N	2.0E+03	L	2.0E+03	L	2.0E+03	L	2.0E+03	L	NA		
Benzene	71-43-2	1.5E+00	C	3.1E+00	C	5.1E-02	A	5.1E-02	X DF 2	1.1E-02	X DF3	1.3E-01	X DF 3	9.0E+02	1.0E+00	2.5E+00
Benz(a)anthracene	56-55-3	6.2E-01	C	2.9E+00	C	3.3E+02	A	3.9E+00	X DF 2	1.6E-02	X DF3	1.6E-02	X DF 3	NA		
Benzo(a)pyrene	50-32-8	3.3E-01	Q	3.3E-01	Q	2.3E+01	A	2.3E+01	X DF 2	2.3E+01	X DF3	2.3E+01	X DF 3	NA		
Benzo(b)fluoranthene	205-99-2	6.2E-01	C	2.9E+00	C	2.2E+02	A	1.3E+01	X DF 2	1.3E+01	G	1.3E+01	G	NA		
Benzo(k)fluoranthene	207-08-9	6.2E+00	C	2.9E+01	C	1.2E+02	A	1.2E+02	X DF 2	1.2E+02	G	1.2E+02	G	NA		
Beryllium	7440-41-7	1.6E+02	N	4.1E+03	N	8.0E+00	L1	8.0E+00	L1	8.0E+00	L1	8.0E+00	L1	NA		
Biphenyl,1,1'-	92-52-4	2.9E+03	N	4.4E+04	N	1.9E+02	A	1.9E+02	X DF 2	1.4E+02	X DF3	1.7E+02	X DF 3	2.3E+02	4.6E+03	1.1E+04
Bis(2-chloroethyl)ether	111-44-4	3.3E-01	Q	1.1E+00	C	3.3E-01	Q	6.6E-02	F	3.3E-01	Q	2.4E-03	X DF 3	9.8E+03	7.6E+00	1.9E+01
Bis(2-chloroisopropyl)ether	108-60-1	4.9E+00	C	1.7E+01	C	8.0E-01	Q	2.7E-03	X DF 2	3.1E-03	X DF3	8.2E-03	X DF 3	8.4E+02	1.0E+00	5.5E+00
Bis(2-ethyl-hexyl)phthalate	117-81-7	3.5E+01	C	1.7E+02	C	7.9E+01	A	7.9E+01	X DF 2	7.9E+01	X DF3	7.9E+01	X DF 3	2.2E+02		
Bromodichloromethane	75-27-4	1.8E+00	C	4.2E+00	C	9.2E-01	A	9.2E-01	X DF 2	9.2E-01	G	3.0E-02	X DF 3	3.1E+03	8.2E-02	4.3E-01
Bromoform	75-25-2	4.8E+01	C	1.8E+02	C	1.8E+00	A	1.8E+00	X DF 2	6.9E-02	X DF3	6.1E-01	X DF 3	2.7E+03	1.4E+01	7.4E+01
Bromomethane	74-83-9	4.3E+00	N	3.0E+01	N	4.0E-02	A	3.5E-02	X DF 2	1.8E-01	X DF3	2.1E+00	X DF 3	3.0E+03	1.9E-01	6.4E-01
Butyl benzyl phthalate	85-68-7	1.2E+04	N	1.7E+05	N	4.4E+03	A	4.4E+03	X DF 2	1.5E+03	X DF3	1.7E+03	X DF 3	2.2E+02		
Cadmium	7440-43-9	3.9E+01	N	1.0E+03	N	2.0E+01	L	2.0E+01	L	2.0E+01	L	2.0E+01	L	NA		
Carbon Disulfide	75-15-0	3.6E+02	N	2.5E+03	N	1.1E+01	A	1.1E+01	X DF 2	2.9E+01	X DF3	1.5E+02	X DF 3	6.0E+02	9.2E-01	2.3E+00
Carbon Tetrachloride	56-23-5	5.3E-01	C	1.1E+00	C	1.1E-01	A	1.1E-01	X DF 2	5.0E-03	X DF3	2.7E-02	X DF 3	9.1E+02	2.6E-01	6.4E-01
Chlordane	57-74-9	1.6E+00	C	1.0E+01	C	1.2E+01	A	1.2E+01	X DF 2	1.2E+01	G	1.2E+01	G	NA		
Chloroaniline,p-	106-47-8	1.6E+02	N	1.7E+03	N	1.5E+00	A	1.5E+00	X DF 2	1.2E+00	X DF3	7.0E+00	X DF 3	NA		
Chlorobenzene	108-90-7	1.7E+02	N	1.2E+03	N	3.0E+00	A	3.0E+00	X DF 2	3.0E+00	X DF3	2.1E+01	X DF 3	7.0E+02	4.8E+02	1.2E+03
Chlorodibromomethane	124-48-1	2.2E+00	C	5.4E+00	C	1.0E+00	A	1.0E+00	X DF 2	3.9E-03	X DF3	5.1E-02	X DF 3	1.3E+03	2.0E-01	1.1E+00
Chloroethane (Ethylchloride)	75-00-3	4.1E+00	C	8.2E+00	C	3.5E-02	A	1.3E-02	X DF 2	4.4E+01	X DF3	4.3E+02	X DF 3	9.9E+02	3.7E+02	9.1E+02
Chloroform	67-66-3	4.4E-01	N	1.2E+00	C	9.0E-01	A	9.0E-01	X DF 2	4.8E-02	X DF3	6.3E-01	X DF 3	3.6E+03	4.1E-01	1.0E+00
Chloromethane	74-87-3	3.5E+00	C	7.3E+00	C	1.0E-01	Q	9.1E-03	X DF 2	1.5E-02	X DF3	2.2E-01	X DF 3	1.6E+03	1.2E+00	3.0E+00
Chloronaphthalene,2-	91-58-7	5.0E+03	N	8.3E+04	N	5.0E+02	A	5.0E+02	X DF 2	3.3E+02	X DF3	3.7E+02	X DF 3	NA	1.1E+05	3.6E+05
Chlorophenol,2-	95-57-8	1.5E+02	N	1.4E+03	N	1.4E+00	A	1.4E+00	X DF 2	4.6E-03	X DF3	5.8E+00	X DF 3	5.1E+04	1.7E+02	5.7E+02

NOTE: See end of Table for designation of letter symbols and footnotes.

LDEQ RECAP TABLE 2
MANAGEMENT OPTION 1
STANDARDS FOR SOIL
(mg/kg)

COMPOUND	CAS #	SOILni	NOTE	SOILi	NOTE	SOILGW1	NOTE	SOILGW2	NOTE	SOILGW3DW	NOTE	SOILGW3NDW	NOTE	SOILsat	SOILesni*	SOILesi*
Chromium(III)	16065-83-1	1.2E+05	N	1.0E+06	O	1.0E+02	L	1.0E+02	L	1.0E+02	L	1.0E+02	L	NA		
Chromium(VI)	18540-29-97	2.3E+02	N	6.1E+03	N	1.0E+02	L	1.0E+02	L	1.0E+02	L	1.0E+02	L	NA		
Chrysene	218-01-9	6.2E+01	C	2.9E+02	C	7.6E+01	A	7.6E+01	X DF 2	1.8E+00	X DF3	1.8E+00	X DF 3	NA		
Cobalt	7440-48-4	4.7E+03	N	1.2E+05	N	4.4E+03	L1	4.4E+03	L1	4.4E+03	L1	4.4E+03	L1	NA		
Copper	7440-50-8	3.1E+03	N	8.2E+04	N	1.5E+03	S	1.5E+03	S	1.5E+03	S	1.5E+03	S	NA		
Cyanide (free)	57-12-5	1.5E+03	N	3.6E+04	N	4.0E+02	L1	4.0E+02	L1	4.0E+02	L1	4.0E+02	L1	NA		
DDD	72-54-8	2.4E+00	C	1.6E+01	C	1.5E+00	A	1.5E+00	X DF 2	1.5E+00	G	1.5E+00	G	NA		
DDE	72-55-9	1.7E+00	C	1.1E+01	C	2.0E+00	A	2.0E+00	X DF 2	2.0E+00	G	2.0E+00	G	NA		
DDT	50-29-3	1.7E+00	C	1.2E+01	C	2.4E+01	A	1.6E+01	X DF 2	1.6E+01	G	1.6E+01	G	NA		
Dibenz(a,h)anthracene	53-70-3	3.3E-01	Q	3.3E-01	Q	5.4E+02	A	2.0E+00	X DF 2	2.0E+00	G	2.0E+00	G	NA		
Dibenzofuran	132-64-9	2.9E+02	N	6.5E+03	N	2.4E+01	A	2.4E+01	X DF 2	1.3E+01	X DF3	1.5E+01	X DF 3	1.5E+02	7.1E+04	2.4E+05
Dibromo-3-chloropropane,1,2-	96-12-8	3.5E-01	C	1.8E+00	C	1.0E-02	Q	2.6E-03	X DF 2	2.6E-03	X DF3	2.6E-03	X DF 3	7.8E+02		
Dichlorobenzene,1,2-	95-50-1	9.9E+02	N	7.4E+03	N	2.9E+01	A	2.9E+01	X DF 2	2.9E+01	X DF3	1.6E+02	X DF 3	3.8E+02	3.1E+02	1.1E+03
Dichlorobenzene,1,3-	541-73-1	2.1E+01	N	1.8E+02	N	2.1E+00	A	1.1E+00	X DF 2	3.8E+00	X DF3	9.2E+00	X DF 3	1.3E+03	1.3E+01	4.4E+01
Dichlorobenzene,1,4-	106-46-7	6.7E+00	C	1.6E+01	C	5.7E+00	A	5.7E+00	X DF 2	5.7E+00	X DF3	5.7E+00	X DF 3	NA	2.6E+03	6.5E+03
Dichlorobenzidine,3,3'-	91-94-1	9.7E-01	C	4.2E+00	C	1.8E+00	A	1.3E-02	X DF 2	1.1E-03	X DF3	1.4E-03	X DF 3	NA		
Dichloroethane,1,1-	75-34-3	6.6E+02	N	4.7E+03	N	7.5E+00	A	7.5E+00	X DF 2	2.7E+01	X DF3	1.8E+02	X DF 3	2.3E+03	4.7E+01	1.6E+02
Dichloroethane,1,2-	107-06-2	8.2E-01	C	1.8E+00	C	3.5E-02	A	3.5E-02	X DF 2	2.6E-03	X DF3	4.8E-02	X DF 3	3.0E+03	1.1E+00	2.6E+00
Dichloroethene,1,1-	75-35-4	1.3E+02	N	9.1E+02	N	8.5E-02	A	8.5E-02	X DF 2	6.1E-04	X DF3	7.0E-03	X DF 3	1.4E+03	4.3E+00	1.5E+01
Dichloroethene,cis,1,2-	156-59-2	4.8E+01	N	3.4E+02	N	4.9E-01	A	4.9E-01	X DF 2	4.9E-01	X DF3	1.2E+01	X DF 3	1.2E+03	3.4E+00	1.2E+01
Dichloroethene,trans,1,2-	156-60-5	6.9E+01	N	4.8E+02	N	7.7E-01	A	7.7E-01	X DF 2	7.7E-01	X DF3	1.9E+01	X DF 3	2.4E+03	3.4E+00	1.2E+01
Dichlorophenol,2,4-	120-83-2	1.6E+02	N	2.0E+03	N	1.2E+01	A	1.2E+01	X DF 2	3.2E-02	X DF3	2.5E+01	X DF 3	NA		
Dichloropropane,1,2-	78-87-5	8.3E-01	C	1.8E+00	C	4.2E-02	A	4.2E-02	X DF 2	4.2E-02	X DF3	4.2E-02	X DF 3	1.2E+03	1.3E+03	3.1E+03
Dichloropropene,1,3-	542-75-6	3.1E+00	C	1.0E+01	C	4.0E-02	A	3.2E-03	X DF 2	8.0E-02	X DF3	1.3E+00	X DF 3	1.1E+03	3.1E+01	7.7E+01
Dieldrin	60-57-1	3.0E-02	C	1.5E-01	C	7.6E+00	A	7.6E+00	F	7.6E+00	H	7.6E+00	H	NA		
Diethylphthalate	84-66-2	3.6E+04	N	3.9E+05	N	3.6E+02	A	3.6E+02	X DF 2	1.6E+02	X DF3	2.8E+02	X DF 3	6.7E+02		
Dimethylphenol,2,4-	105-67-9	9.3E+02	N	1.1E+04	N	2.0E+01	A	2.0E+01	X DF 2	7.6E+00	X DF3	1.2E+01	X DF 3	NA		
Dimethylphthalate	131-11-3	4.2E+05	N	1.0E+06	O	2.8E+03	A	2.8E+03	X DF 2	1.6E+03	X DF3	4.3E+03	X DF 3	1.5E+03		
Di-n-octylphthalate	117-84-0	2.4E+03	N	3.5E+04	N	2.0E+05	A	2.0E+05	X DF 2	2.0E+05	X DF3	2.0E+05	X DF 3	1.0E+04		
Dinitrobenzene,1,3-	99-65-0	4.5E+00	N	5.0E+01	N	2.5E-01	Q	7.5E-02	X DF 2	6.4E-02	X DF3	5.7E-01	X DF 3	5.5E+02		
Dinitrophenol,2,4-	51-28-5	7.1E+01	N	6.9E+02	N	1.7E+00	Q	3.4E-01	X DF 2	2.8E-01	X DF3	2.3E+00	X DF 3	NA		
Dinitrotoluene,2,6-	606-20-2	4.3E+01	N	4.6E+02	N	3.9E-01	A	3.9E-01	X DF 2	3.1E-01	X DF3	1.8E+00	X DF 3	NA		
Dinitrotoluene,2,4-	121-14-2	8.9E+01	N	9.8E+02	N	1.0E+00	A	1.0E+00	X DF 2	7.9E-01	X DF3	4.1E+00	X DF 3	NA		
Dinoseb	88-85-7	4.7E+01	N	5.4E+02	N	1.4E-01	Q	1.2E-01	X DF 2	1.2E-01	X DF3	4.4E-01	X DF 3	NA		
Endosulfan	115-29-7	3.4E+02	N	4.5E+03	N	5.4E+01	A	5.4E+01	X DF 2	5.4E+01	G	1.6E-01	X DF 3	NA		

NOTE: See end of Table for designation of letter symbols and footnotes.

LDEQ RECAP TABLE 2
MANAGEMENT OPTION 1
STANDARDS FOR SOIL
(mg/kg)

COMPOUND	CAS #	SOILni	NOTE	SOILi	NOTE	SOILGW1	NOTE	SOILGW2	NOTE	SOILGW3DW	NOTE	SOILGW3NDW	NOTE	SOILsat	SOILesni*	SOILesi*
Endrin	72-20-8	1.8E+01	N	2.5E+02	N	2.6E+00	A	2.6E+00	X DF 2	3.4E-01	X DF3	3.4E-01	X DF 3	NA		
Ethyl benzene	100-41-4	1.6E+03	N	1.3E+04	N	1.9E+01	A	1.9E+01	X DF 2	6.6E+01	X DF3	2.2E+02	X DF 3	2.3E+02	1.9E+03	4.8E+03
Fluoranthene	206-44-0	2.2E+03	N	2.9E+04	N	1.2E+03	A	1.2E+03	X DF 2	1.8E+02	X DF3	1.9E+02	X DF 3	NA		
Fluorene	86-73-7	2.8E+03	N	5.4E+04	N	2.3E+02	A	2.3E+02	X DF 2	6.8E+01	X DF3	7.2E+01	X DF 3	NA	1.9E+05	6.4E+05
Heptachlor	76-44-8	1.6E-02	C	3.5E-02	C	5.0E-01	A	5.0E-01	X DF 2	5.0E-01	G	5.0E-01	G	NA		
Heptachlor epoxide	1024-57-3	5.3E-02	C	2.6E-01	C	2.0E+00	A	2.0E+00	X DF 2	2.0E+00	X DF3	2.0E+00	X DF 3	NA		
Hexachlorobenzene	118-74-1	3.4E-01	C	2.0E+00	C	9.6E+00	A	9.6E+00	X DF 2	9.6E+00	G	9.6E+00	G	NA	1.1E+02	2.6E+02
Hexachlorobutadiene	87-68-3	4.5E+00	C	1.6E+01	C	5.5E+00	A	5.5E+00	X DF 2	5.8E-01	X DF3	7.1E-01	X DF 3	1.0E+03		
Hexachlorocyclohexane, alpha	319-84-6	8.2E-02	C	4.4E-01	C	6.4E-03	A	2.2E-03	X DF 2	3.7E-04	X DF3	5.5E-04	X DF 3	NA		
Hexachlorocyclohexane, beta	319-85-7	2.9E-01	C	1.6E+00	C	1.6E-02	A	9.5E-03	X DF 2	1.3E-03	X DF3	1.7E-03	X DF 3	NA		
Hexachlorocyclohexane, gamma	58-89-9	3.9E-01	C	2.0E+00	C	3.3E-02	A	3.3E-02	X DF 2	1.8E-02	X DF3	3.3E-02	X DF 3	NA		
Hexachlorocyclopentadiene	77-47-4	1.4E+01	N	9.4E+01	N	1.2E+03	A	1.2E+03	X DF 2	1.2E+03	X DF3	1.2E+03	X DF 3	2.2E+03	4.6E+01	1.6E+02
Hexachloroethane	67-72-1	3.2E+01	C	1.4E+02	C	2.2E+00	A	1.7E-01	X DF 2	2.2E-01	X DF3	3.8E-01	X DF 3	NA	2.1E+03	5.2E+03
Indeno(1,2,3-cd)pyrene	193-39-5	6.2E-01	C	2.9E+00	C	9.2E+00	A	9.2E+00	X DF 2	9.2E+00	G	9.2E+00	G	NA		
Isobutyl alcohol	78-83-1	7.3E+03	N	6.2E+04	N	3.0E+01	A	3.0E+01	X DF 2	2.7E+01	X DF3	4.3E+02	X DF 3	1.2E+04		
Isophorone	78-59-1	3.4E+02	C	1.1E+03	C	5.6E-01	A	5.6E-01	X DF 2	2.7E-01	X DF3	2.6E+00	X DF 3	4.9E+03		
Lead (inorganic)	7439-92-1	4.0E+02	B	1.4E+03	B	1.0E+02	L	1.0E+02	L	1.0E+02	L	1.0E+02	L	NA		
Mercury (inorganic)	7487-94-7	2.3E+01	N	6.1E+02	N	4.0E+00	L	4.0E+00	L	4.0E+00	L	4.0E+00	L	NA		
Methoxychlor	72-43-5	3.0E+02	N	4.3E+03	N	3.8E+02	A	3.8E+02	X DF 2	3.8E+02	X DF3	3.8E+02	X DF 3	NA		
Methylene chloride	75-09-2	1.9E+01	C	4.4E+01	C	1.7E-02	A	1.7E-02	X DF 2	1.5E-02	X DF3	2.9E-01	X DF 3	2.2E+03	1.3E+01	3.2E+01
Methyl ethyl ketone	78-93-3	5.9E+03	N	4.4E+04	N	5.0E+00	A	5.0E+00	X DF 2	5.2E+01	X DF3	1.0E+03	X DF 3	2.9E+04	2.8E+04	6.9E+04
Methyl isobutyl ketone	108-10-1	4.5E+03	N	6.3E+04	N	6.4E+00	A	6.4E+00	X DF 2	8.3E+00	X DF3	9.7E+01	X DF 3	3.1E+03	5.7E+03	1.4E+04
Methylnaphthalene, 2-	91-57-6	2.2E+02	N	1.7E+03	N	1.7E+00	A	1.7E+00	X DF 2	7.0E+00	X DF3	7.3E+00	X DF 3	NA	1.0E+03	3.5E+03
MTBE (methyl tert-butyl ether)	1634-04-4	6.5E+03	N	4.7E+04	N	7.7E-02	A	7.7E-02	X DF 2	7.7E-02	X DF3	2.1E+03	X DF 3	9.8E+03	8.0E+02	2.8E+03
Naphthalene	91-20-3	6.2E+01	N	4.3E+02	N	1.5E+00	A	9.0E-01	X DF 2	2.5E+01	X DF3	3.2E+01	X DF 3	NA	6.3E+01	2.2E+02
Nickel	7440-02-0	1.6E+03	N	4.1E+04	N	1.5E+03	L1	1.5E+03	L1	1.5E+03	L1	1.5E+03	L1	NA		
Nitrate	14797-55-8	1.3E+05	N	1.0E+06	O	2.0E+04	L1	2.0E+04	L1	2.0E+04	L1	2.0E+04	L1	NA		
Nitrite	14797-65-0	7.8E+03	N	2.0E+05	N	2.0E+03	L1	2.0E+03	L1	2.0E+03	L1	2.0E+03	L1	NA		
Nitroaniline, 2-	88-74-4	1.7E+00	Q	5.2E+00	N	1.7E+00	Q	1.7E+00	Q	3.9E-01	X DF3	2.3E+00	X DF 3	2.8E+02	2.8E-01	9.5E-01
Nitroaniline, 3-	99-09-2	1.3E+02	N	1.4E+03	N	1.7E+00	Q	8.5E-02	X DF 2	4.4E-01	X DF3	4.3E+00	X DF 3	2.8E+02	3.5E+02	1.2E+03
Nitroaniline, 4-	100-01-6	1.0E+02	N	1.0E+03	N	1.7E+00	Q	4.3E-01	X DF 2	3.7E-01	X DF3	3.6E+00	X DF 3	1.4E+02		
Nitrobenzene	98-95-3	2.2E+01	N	2.5E+02	N	3.3E-01	Q	5.7E-02	X DF 2	2.5E-01	X DF3	1.6E+00	X DF 3	1.8E+03	3.2E+03	7.9E+03
Nitrophenol, 4-	100-02-7	3.2E+02	N	3.3E+03	N	2.6E+00	A	2.6E+00	X DF 2	2.1E+00	X DF3	1.2E+01	X DF 3	5.4E+03		
Nitrosodi-n-propylamine, n-	621-64-7	3.3E-01	Q	3.3E-01	Q	3.3E-01	Q	5.3E-02	F	5.3E-02	H	3.3E-01	Q	NA		
N-nitrosodiphenylamine	86-30-6	9.0E+01	C	4.0E+02	C	2.1E+00	A	2.1E+00	X DF 2	3.5E-01	X DF3	5.1E-01	X DF 3	NA		

NOTE: See end of Table for designation of letter symbols and footnotes.

LDEQ RECAP TABLE 2
MANAGEMENT OPTION 1
STANDARDS FOR SOIL
(mg/kg)

COMPOUND	CAS #	SOILni	NOTE	SOILi	NOTE	SOILGW1	NOTE	SOILGW2	NOTE	SOILGW3DW	NOTE	SOILGW3NDW	NOTE	SOILsat	SOILesni*	SOILesi*
Pentachlorophenol	87-86-5	2.8E+00	C	9.7E+00	C	1.7E+00	Q	1.1E-01	X DF 2	1.1E-01	X DF3	1.1E-01	X DF 3	NA		
Phenanthrene	85-01-8	2.1E+04	N	4.3E+05	N	6.6E+02	A	6.6E+02	X DF 2	1.2E+02	X DF3	1.2E+02	X DF 3	NA	1.0E+06	1.0E+06
Phenol	108-95-2	1.3E+04	N	1.5E+05	N	1.1E+01	A	1.1E+01	X DF 2	5.5E+01	X DF3	4.9E+02	X DF 3	NA	3.5E+04	1.2E+05
Polychlorinated biphenyls	1336-36-3	2.1E-01	C	9.0E-01	C	1.9E+01	A	1.9E+01	X DF 2	1.9E+01	G	1.9E+01	G	5.7E+01		
Pyrene	129-00-0	2.3E+03	N	5.6E+04	N	1.1E+03	A	1.1E+03	X DF 2	1.1E+03	X DF3	1.1E+03	X DF 3	NA	1.0E+06	1.0E+06
Selenium	7782-49-2	3.9E+02	N	1.0E+04	N	2.0E+01	L	2.0E+01	L	2.0E+01	L	2.0E+01	L	NA		
Silver	7440-22-4	3.9E+02	N	1.0E+04	N	1.0E+02	L	1.0E+02	L	1.0E+02	L	1.0E+02	L	NA		
Styrene	100-42-5	5.0E+03	N	4.3E+04	N	1.1E+01	A	1.1E+01	X DF 2	1.1E+01	X DF3	7.9E+02	X DF 3	1.7E+03	2.3E+03	5.7E+03
Tetrachlorobenzene,1,2,4,5-	95-94-3	1.2E+01	N	1.2E+02	N	6.9E+00	A	6.9E+00	X DF 2	3.4E-01	X DF3	3.6E-01	X DF 3	1.9E+01		
Tetrachloroethane,1,1,1,2-	630-20-6	2.7E+00	C	5.9E+00	C	4.6E-02	A	3.9E-03	X DF 2	7.7E-03	X DF3	2.0E-02	X DF 3	5.0E+02	2.5E-02	6.3E-02
Tetrachloroethane,1,1,2,2-	79-34-5	8.1E-01	C	2.0E+00	C	6.0E-03	A	6.5E-04	X DF 2	1.9E-03	X DF3	2.2E-02	X DF 3	1.8E+03	3.3E+00	8.0E+00
Tetrachloroethylene	127-18-4	8.3E+00	C	3.5E+01	C	1.8E-01	A	1.8E-01	X DF 2	2.3E-02	X DF3	8.9E-02	X DF 3	3.6E+02	1.2E+01	2.9E+01
Tetrachlorophenol,2,3,4,6-	58-90-2	1.4E+03	N	1.7E+04	N	3.1E+01	A	3.1E+01	X DF 2	4.2E+00	X DF3	5.0E+00	X DF 3	1.4E+03		
Thallium	7440-28-0	5.5E+00	N	1.4E+02	N	4.0E+00	L1	4.0E+00	L1	4.0E+00	L1	4.0E+00	L1	NA		
Toluene	108-88-3	6.8E+02	N	4.7E+03	N	2.0E+01	A	2.0E+01	X DF 2	1.2E+02	X DF3	9.1E+02	X DF 3	5.2E+02	5.5E+01	1.4E+02
Toxaphene	8001-35-2	4.4E-01	C	2.2E+00	C	3.4E+01	A	3.4E+01	X DF 2	3.4E+01	G	3.4E+01	G	NA		
Trichlorobenzene,1,2,4-	120-82-1	6.6E+02	N	1.2E+04	N	1.4E+01	A	1.4E+01	X DF 2	1.4E+01	X DF3	3.8E+01	X DF 3	NA	3.9E+03	1.3E+04
Trichloroethane,1,1,1-	71-55-6	8.2E+02	N	7.0E+03	N	4.0E+00	A	4.0E+00	X DF 2	4.0E+00	X DF3	1.8E+02	X DF 3	1.3E+03	6.2E+01	2.1E+02
Trichloroethane,1,1,2-	79-00-5	1.9E+00	C	4.3E+00	C	5.8E-02	A	5.8E-02	X DF 2	6.5E-03	X DF3	8.0E-02	X DF 3	2.5E+03	4.1E+00	1.0E+01
Trichloroethene	79-01-6	1.0E-01	C	2.1E-01	C	7.3E-02	A	7.3E-02	X DF 2	4.1E-02	X DF3	3.0E-01	X DF 3	8.0E+02	4.2E+00	1.0E+01
Trichlorofluoromethane	75-69-4	3.8E+02	N	2.6E+03	N	3.7E+01	A	3.7E+01	X DF 2	2.0E+02	X DF3	5.8E+02	X DF 3	1.6E+03	9.9E+00	3.4E+01
Trichlorophenol,2,4,5-	95-95-4	5.3E+03	N	6.6E+04	N	3.2E+02	A	3.2E+02	X DF 2	4.7E+01	X DF3	5.6E+01	X DF 3	NA		
Trichlorophenol,2,4,6-	88-06-2	4.0E+01	C	1.7E+02	C	1.3E+00	A	7.9E-01	X DF 2	8.6E-02	X DF3	1.1E-01	X DF 3	NA		
Vanadium	7440-62-2	5.5E+02	N	1.4E+04	N	5.2E+02	L1	5.2E+02	L1	5.2E+02	L1	5.2E+02	L1	NA		
Vinyl chloride	75-01-4	2.4E-01	C	7.9E-01	C	1.3E-02	A	1.3E-02	X DF 2	1.3E-02	X DF3	2.4E-01	X DF 3	9.2E+02	1.1E-02	2.8E-02
Xylene(mixed)	1330-20-7	1.8E+02	N	1.2E+03	N	1.8E+02	A	1.8E+02	X DF 2	1.8E+02	X DF3	1.8E+02	X DF 3	1.5E+02	1.5E+01	5.1E+01
Zinc	7440-66-6	2.3E+04	N	6.1E+05	N	2.8E+03	S	2.8E+03	S	2.8E+03	S	2.8E+03	S	NA		
Aliphatics C6-C8	NA	1.0E+04	O,T	1.0E+04	O,T	1.0E+04	O,T	1.0E+04	O,T	1.0E+04	O,T	1.0E+04	O,T	NA	3.6E+02	8.9E+02
Aliphatics >C8-C10	NA	1.2E+03	N	8.8E+03	N	5.3E+03	A	5.3E+03	X DF2	1.0E+04	O,T	1.0E+04	O,T	NA	8.6E+01	2.1E+02
Aliphatics >C10-C12	NA	2.3E+03	N	1.0E+04	O,T	1.0E+04	O,T	1.0E+04	O,T	1.0E+04	O,T	1.0E+04	O,T	NA	4.6E+02	1.1E+03
Aliphatics >C12-C16	NA	3.7E+03	N	1.0E+04	O,T	1.0E+04	O,T	1.0E+04	O,T	1.0E+04	O,T	1.0E+04	O,T	NA	2.1E+03	5.2E+03
Aliphatics >C16-C35	NA	1.0E+04	O,T	1.0E+04	O,T	1.0E+04	O,T	1.0E+04	O,T	1.0E+04	O,T	1.0E+04	O,T	NA		
Aromatics >C8-C10	NA	6.5E+02	N	5.1E+03	N	6.5E+01	A	6.5E+01	X DF2	2.6E+02	X DF3	6.1E+03	X DF3	NA	1.5E+02	3.6E+02
Aromatics >C10-C12	NA	1.2E+03	N	1.0E+04	O,T	1.0E+02	A	1.0E+02	X DF2	4.1E+02	X DF3	9.6E+03	X DF3	NA	7.8E+02	1.9E+03
Aromatics >C12-C16	NA	1.8E+03	N	1.0E+04	O,T	2.0E+02	A	2.0E+02	X DF2	8.1E+02	X DF3	1.0E+04	O,T	NA	4.1E+03	1.0E+04

NOTE: See end of Table for designation of letter symbols and footnotes.

LDEQ RECAP TABLE 2
MANAGEMENT OPTION 1
STANDARDS FOR SOIL
(mg/kg)

COMPOUND	CAS #	SOILni	NOTE	SOILi	NOTE	SOILGW1	NOTE	SOILGW2	NOTE	SOILGW3DW	NOTE	SOILGW3NDW	NOTE	SOILsat	SOILesni*	SOILesi*
Aromatics >C16-C21	NA	1.5E+03	N	1.0E+04	O,T	2.1E+03	A	2.1E+03	X DF2	1.9E+03	X DF3	1.0E+04	O,T	NA		
Aromatics >C21-C35	NA	1.8E+03	N	1.0E+04	O,T	1.0E+04	O,T	1.0E+04	O,T	1.0E+04	O,T	1.0E+04	O,T	NA		
TPH-GRO	NA	6.5E+02	N,I	5.1E+03	N,I	6.5E+01	A	6.5E+01	X DF2	2.6E+02	X DF3	6.1E+03	X DF3	NA	8.6E+01	2.1E+02
TPH-DRO	NA	6.5E+02	N,I	5.1E+03	N,I	6.5E+01	A	6.5E+01	X DF2	2.6E+02	X DF3	6.1E+03	X DF3	NA		
TPH-ORO	NA	1.8E+03	N,I	1.0E+04	O,T	1.0E+04	O,T	1.0E+04	O,T	1.0E+04	O,T	1.0E+04	O,T	NA		
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																
F - GW 2 soil water partition equation multiplied by maximum DF is less than SoilGW1 thus default to SoilGW 1																
G - GW 3 soil water partition equation multiplied by maximum DF is less than SoilGW2 thus default to SoilGW 2 and multiply by X DF 2																
H - GW 3 soil water partition equation multiplied by maximum DF is less than SoilGW2 thus default to GW 2 and do not multiply by DF 2																
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 (TCLP listed)																
L1 - Soil level protective of groundwater for inorganic constituents based on GW 1 because TCLP value not listed																
N - Based on non-carcinogenic health effects																
NA - Not applicable																
O - Ceiling value based on aesthetic considerations																
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																
X DF 2 - Multiply SOILGW2 by the appropriate site specific DF from the chart																
X DF 3 - Multiply SOILGW3DW or SOILGW3NDW by the appropriate site specific DF from the chart																
* The MO-1 SOILes is presented for screening purposes only; if the soil AOIC exceeds the MO-1 SOILes, then further assessment maybe warranted under MO-2 or MO-3.																

NOTE: See end of Table for designation of letter symbols and footnotes.

LDEQ RECAP TABLE 3
MANAGEMENT OPTION 1, 2, AND 3
STANDARDS FOR GROUNDWATER
(mg/l)

COMPOUND	CAS #	GW 1	NOTE	GW 2	NOTE	GW 3 DW	NOTE	GW 3 NDW	NOTE	S	Gwesni*	Gwesi*	Gwairni*	Gwairi*
Acenaphthene	83-32-9	3.7E-01	N	3.7E-01	X DF 2	4.3E-01	X DF 3	5.4E-01	X DF 3	4.2E+00	2.8E+03	9.6E+03	1.7E+05	2.4E+05
Acenaphthylene	208-96-8	3.7E-01	N	3.7E-01	X DF 2	5.6E-01	X DF 3	7.7E-01	X DF 3	1.6E+01	3.6E+03	1.2E+04	2.1E+05	3.0E+05
Acetone	67-64-1	6.1E-01	N	6.1E-01	X DF 2	3.3E+00	X DF 3	7.2E+01	X DF 3	1.0E+06	5.8E+03	2.0E+04	3.5E+05	4.8E+05
Aldrin	309-00-2	1.9E-03	Q	1.9E-03	F	1.9E-03	G	1.9E-03	G	1.8E-01				
Aniline	62-53-3	1.2E-02	C	1.2E-02	X DF 2	5.7E-03	X DF 3	8.0E-02	X DF 3	3.6E+04				
Anthracene	120-12-7	1.8E+00	N	1.8E+00	X DF 2	1.1E-01	X DF 3	1.1E-01	X DF 3	4.3E-02	3.7E+04	1.3E+05	1.0E+06	1.0E+06
Antimony	7440-36-0	6.0E-03	MCL	6.0E-03	X DF 2	6.0E-03	X DF 3	2.6E-01	X DF 3	NA				
Arsenic	7440-38-2	1.0E-02	MCL	1.0E-02	X DF 2	5.0E-02	X DF 3	5.0E-02	X DF 3	NA				
Barium	7440-39-3	2.0E+00	MCL	2.0E+00	X DF 2	2.0E+00	X DF 3	4.5E+01	X DF 3	NA				
Benzene	71-43-2	5.0E-03	MCL	5.0E-03	X DF 2	1.1E-03	X DF 3	1.3E-02	X DF 3	1.8E+03	2.9E+00	7.2E+00	3.9E+02	3.9E+02
Benz(a)anthracene	56-55-3	7.8E-03	Q	9.1E-05	X DF 2	3.8E-07	X DF 3	3.8E-07	X DF 3	9.4E-03				
Benzo(a)pyrene	50-32-8	2.0E-04	MCL	2.0E-04	X DF 2	2.0E-04	X DF 3	2.0E-04	X DF 3	1.6E-03				
Benzo(b)fluoranthene	205-99-2	4.8E-03	Q	9.1E-05	X DF 2	9.1E-05	H	9.1E-05	H	1.5E-03				
Benzo(k)fluoranthene	207-08-9	2.5E-03	Q	9.1E-04	X DF 2	9.1E-04	H	9.1E-04	H	8.0E-04				
Beryllium	7440-41-7	4.0E-03	MCL	4.0E-03	X DF 2	4.0E-03	X DF 3	3.0E-01	X DF 3	NA				
Biphenyl, 1,1'-	92-52-4	3.0E-01	N	3.0E-01	X DF 2	2.3E-01	X DF 3	2.7E-01	X DF 3	7.5E+00	1.7E+02	4.2E+02	1.1E+04	1.1E+04
Bis(2-chloroethyl)ether	111-44-4	5.7E-03	Q	5.7E-03	F	2.8E-05	X DF 3	2.1E-04	X DF 3	1.7E+04	1.5E+01	3.7E+01	8.8E+02	8.8E+02
Bis(2-chloroisopropyl)ether	108-60-1	5.7E-03	Q	2.7E-04	X DF 2	3.1E-04	X DF 3	8.3E-04	X DF 3	1.7E+03	2.4E+00	1.3E+01	1.4E+02	3.1E+02
Bis(2-ethyl-hexyl)phthalate	117-81-7	6.0E-03	MCL	6.0E-03	X DF 2	6.0E-03	X DF 3	6.0E-03	X DF 3	3.4E-01				
Bromodichloromethane	75-27-4	1.0E-01	MCL	1.0E-01	X DF 2	1.0E-01	H	3.3E-03	X DF 3	6.7E+03	2.1E-01	1.1E+00	1.4E+01	3.0E+01
Bromoform	75-25-2	1.0E-01	MCL	1.0E-01	X DF 2	3.9E-03	X DF 3	3.5E-02	X DF 3	3.1E+03	1.8E+01	9.5E+01	1.1E+03	2.3E+03
Bromomethane	74-83-9	1.0E-02	Q	8.7E-03	X DF 2	4.5E-02	X DF 3	5.3E-01	X DF 3	1.5E+04	1.3E+00	4.5E+00	1.5E+02	2.1E+02
Butyl benzyl phthalate	85-68-7	7.3E+00	N	7.3E+00	X DF 2	9.1E-01	X DF 3	1.0E+00	X DF 3	2.7E+00				
Cadmium	7440-43-9	5.0E-03	MCL	5.0E-03	X DF 2	1.0E-02	X DF 3	1.0E-02	X DF 3	NA				
Carbon Disulfide	75-15-0	1.0E+00	N	1.0E+00	X DF 2	2.8E+00	X DF 3	1.5E+01	X DF 3	1.2E+03	5.3E+00	1.3E+01	1.3E+03	1.3E+03
Carbon Tetrachloride	56-23-5	5.0E-03	MCL	5.0E-03	X DF 2	2.2E-04	X DF 3	1.2E-03	X DF 3	7.9E+02	6.1E-01	1.5E+00	1.4E+02	1.4E+02
Chlordane	57-74-9	2.0E-03	MCL	2.0E-03	X DF 2	2.0E-03	H	2.0E-03	H	5.6E-02				
Chloroaniline, p-	106-47-8	1.5E-01	N	1.5E-01	X DF 2	1.2E-01	X DF 3	6.7E-01	X DF 3	5.3E+03				
Chlorobenzene	108-90-7	1.0E-01	MCL	1.0E-01	X DF 2	1.0E-01	X DF 3	7.1E-01	X DF 3	4.7E+02	4.4E+02	1.1E+03	4.9E+04	4.9E+04
Chlorodibromomethane	124-48-1	1.0E-01	MCL	1.0E-01	X DF 2	3.9E-04	X DF 3	5.1E-03	X DF 3	2.6E+03	4.5E-01	2.4E+00	2.8E+01	5.9E+01
Chloroethane (Ethylchloride)	75-00-3	1.0E-02	Q	3.8E-03	X DF 2	1.3E+01	X DF 3	1.2E+02	X DF 3	5.7E+03	5.1E+03	1.3E+04	1.1E+06	1.1E+06
Chloroform	67-66-3	1.0E-01	MCL	1.0E-01	X DF 2	5.3E-03	X DF 3	7.0E-02	X DF 3	7.9E+03	1.3E+00	3.1E+00	1.5E+02	1.5E+02
Chloromethane	74-87-3	1.0E-02	Q	1.5E-03	X DF 2	2.5E-03	X DF 3	3.7E-02	X DF 3	5.3E+03	9.0E+00	2.2E+01	1.9E+03	1.9E+03
Chloronaphthalene, 2-	91-58-7	4.9E-01	N	4.9E-01	X DF 2	3.2E-01	X DF 3	3.6E-01	X DF 3	1.2E+01	2.3E+03	8.0E+03	1.4E+05	2.0E+05
Chlorophenol, 2-	95-57-8	3.0E-02	N	3.0E-02	X DF 2	1.0E-04	X DF 3	1.3E-01	X DF 3	2.2E+04	8.2E+01	2.8E+02	5.2E+03	7.2E+03

NOTE: See end of Table for designation of letter symbols and footnotes.

LDEQ RECAP TABLE 3
MANAGEMENT OPTION 1, 2, AND 3
STANDARDS FOR GROUNDWATER
(mg/l)

COMPOUND	CAS #	GW 1	NOTE	GW 2	NOTE	GW 3 DW	NOTE	GW 3 NDW	NOTE	S	Gwesni*	Gwesi*	Gwairni*	Gwairi*
Chromium(III)	16065-83-1	1.0E-01	MCL	1.0E-01	X DF 2	5.0E-02	X DF 3	9.6E+02	X DF 3	NA				
Chromium(VI)	18540-29-97	1.0E-01	MCL	1.0E-01	X DF 2	5.0E-02	X DF 3	1.9E+00	X DF 3	NA				
Chrysene	218-01-9	9.1E-03	C	9.1E-03	X DF 2	3.8E-05	X DF 3	3.8E-05	X DF 3	1.6E-03				
Cobalt	7440-48-4	2.2E+00	N	2.2E+00	X DF 2	2.0E+00	X DF 3	3.9E+01	X DF 3	NA				
Copper	7440-50-8	1.3E+00	MCL	1.3E+00	X DF 2	1.0E+00	X DF 3	1.3E+00	X DF 3	NA				
Cyanide (free)	57-12-5	2.0E-01	MCL	2.0E-01	X DF 2	6.6E-01	X DF 3	1.3E+01	X DF 3	NA				
DDD	72-54-8	2.8E-04	C	2.8E-04	X DF 2	2.8E-04	H	2.8E-04	H	9.0E-02				
DDE	72-55-9	2.0E-04	C	2.0E-04	X DF 2	2.0E-04	H	2.0E-04	H	1.2E-01				
DDT	50-29-3	3.0E-04	Q	2.0E-04	X DF 2	2.0E-04	H	2.0E-04	H	2.5E-02				
Dibenz(a,h)anthracene	53-70-3	2.5E-03	Q	9.1E-06	X DF 2	9.1E-06	H	9.1E-06	H	2.5E-03				
Dibenzofuran	132-64-9	2.4E-02	N	2.4E-02	X DF 2	1.4E-02	X DF 3	1.5E-02	X DF 3	3.1E+00	1.6E+03	5.6E+03	9.6E+04	1.3E+05
Dibromo-3-chloropropane,1,2-	96-12-8	2.0E-04	MCL	2.0E-04	X DF 2	2.0E-04	X DF 3	2.0E-04	X DF 3	1.2E+03				
Dichlorobenzene,1,2-	95-50-1	6.0E-01	MCL	6.0E-01	X DF 2	6.0E-01	X DF 3	3.4E+00	X DF 3	1.6E+02	1.6E+02	5.5E+02	1.4E+04	2.0E+04
Dichlorobenzene,1,3-	541-73-1	1.0E-02	Q	5.5E-03	X DF 2	1.8E-02	X DF 3	4.5E-02	X DF 3	1.3E+02	1.7E+00	5.8E+00	1.8E+02	2.5E+02
Dichlorobenzene,1,4-	106-46-7	7.5E-02	MCL	7.5E-02	X DF 2	7.5E-02	X DF 3	7.5E-02	X DF 3	7.4E+01	8.8E+02	2.2E+03	8.4E+04	8.4E+04
Dichlorobenzidine,3,3'-	91-94-1	2.0E-02	Q	1.5E-04	X DF 2	1.3E-05	X DF 3	1.5E-05	X DF 3	3.1E+00				
Dichloroethane,1,1-	75-34-3	8.1E-01	N	8.1E-01	X DF 2	3.0E+00	X DF 3	1.9E+01	X DF 3	5.1E+03	1.4E+02	4.9E+02	1.7E+04	2.4E+04
Dichloroethane,1,2-	107-06-2	5.0E-03	MCL	5.0E-03	X DF 2	3.6E-04	X DF 3	6.8E-03	X DF 3	8.5E+03	3.6E+00	8.9E+00	2.8E+02	2.8E+02
Dichloroethene,1,1-	75-35-4	7.0E-03	MCL	7.0E-03	X DF 2	5.0E-05	X DF 3	5.8E-04	X DF 3	2.3E+03	1.8E+01	6.2E+01	4.0E+03	5.6E+03
Dichloroethene,cis,1,2-	156-59-2	7.0E-02	MCL	7.0E-02	X DF 2	7.0E-02	X DF 3	1.7E+00	X DF 3	3.5E+03	1.3E+01	4.5E+01	1.3E+03	1.9E+03
Dichloroethene,trans,1,2-	156-60-5	1.0E-01	MCL	1.0E-01	X DF 2	1.0E-01	X DF 3	2.5E+00	X DF 3	6.3E+03	1.4E+01	4.7E+01	1.9E+03	2.6E+03
Dichlorophenol,2,4-	120-83-2	1.1E-01	N	1.1E-01	X DF 2	3.0E-04	X DF 3	2.3E-01	X DF 3	4.5E+03				
Dichloropropane,1,2-	78-87-5	5.0E-03	MCL	5.0E-03	X DF 2	5.0E-03	X DF 3	5.0E-03	X DF 3	2.8E+03	4.0E+03	9.8E+03	4.0E+05	4.0E+05
Dichloropropene,1,3-	542-75-6	5.0E-03	Q	3.9E-04	X DF 2	9.9E-03	X DF 3	1.6E-01	X DF 3	2.8E+03	9.3E+01	2.3E+02	7.4E+03	7.4E+03
Dieldrin	60-57-1	2.5E-03	Q	2.5E-03	F	2.5E-03	G	2.5E-03	G	2.0E-01				
Diethylphthalate	84-66-2	2.9E+01	N	2.9E+01	X DF 2	1.3E+01	X DF 3	2.3E+01	X DF 3	1.1E+03				
Dimethylphenol,2,4-	105-67-9	7.3E-01	N	7.3E-01	X DF 2	2.8E-01	X DF 3	4.5E-01	X DF 3	7.9E+03				
Dimethylphthalate	131-11-3	3.7E+02	N	3.7E+02	X DF 2	2.2E+02	X DF 3	5.7E+02	X DF 3	4.0E+03				
Di-n-octylphthalate	117-84-0	1.5E+00	N	1.5E+00	X DF 2	6.4E-01	X DF 3	1.2E+00	X DF 3	2.0E-02				
Dinitrobenzene,1,3-	99-65-0	1.0E-02	Q	3.7E-03	X DF 2	3.1E-03	X DF 3	2.8E-02	X DF 3	5.3E+02				
Dinitrophenol,2,4-	51-28-5	7.3E-02	N	7.3E-02	X DF 2	6.1E-02	X DF 3	5.0E-01	X DF 3	2.8E+03				
Dinitrotoluene,2,6-	606-20-2	3.7E-02	N	3.7E-02	X DF 2	2.9E-02	X DF 3	1.7E-01	X DF 3	1.8E+02				
Dinitrotoluene,2,4-	121-14-2	7.3E-02	N	7.3E-02	X DF 2	5.6E-02	X DF 3	2.9E-01	X DF 3	2.7E+02				
Dinoseb	88-85-7	7.0E-03	MCL	7.0E-03	X DF 2	7.0E-03	X DF 3	2.5E-02	X DF 3	5.2E+01				
Endosulfan	115-29-7	2.2E-01	N	2.2E-01	X DF 2	2.2E-01	H	6.4E-04	X DF 3	5.1E-01				

NOTE: See end of Table for designation of letter symbols and footnotes.

LDEQ RECAP TABLE 3
MANAGEMENT OPTION 1, 2, AND 3
STANDARDS FOR GROUNDWATER
(mg/l)

COMPOUND	CAS #	GW 1	NOTE	GW 2	NOTE	GW 3 DW	NOTE	GW 3 NDW	NOTE	S	Gwesni*	Gwesi*	Gwairni*	Gwairi*
Endrin	72-20-8	2.0E-03	MCL	2.0E-03	X DF 2	2.6E-04	X DF 3	2.6E-04	X DF 3	2.5E-01				
Ethyl benzene	100-41-4	7.0E-01	MCL	7.0E-01	X DF 2	2.4E+00	X DF 3	8.1E+00	X DF 3	1.7E+02	2.3E+03	5.7E+03	3.6E+05	3.6E+05
Fluoranthene	206-44-0	1.5E+00	N	1.5E+00	X DF 2	3.1E-02	X DF 3	3.2E-02	X DF 3	2.1E-01				
Fluorene	86-73-7	2.4E-01	N	2.4E-01	X DF 2	7.4E-02	X DF 3	7.8E-02	X DF 3	2.0E+00	4.5E+03	1.6E+04	2.7E+05	3.8E+05
Heptachlor	76-44-8	4.0E-04	MCL	4.0E-04	X DF 2	4.0E-04	H	4.0E-04	H	1.8E-01				
Heptachlor epoxide	1024-57-3	2.0E-04	MCL	2.0E-04	X DF 2	2.0E-04	X DF 3	2.0E-04	X DF 3	2.0E-01				
Hexachlorobenzene	118-74-1	1.0E-03	MCL	1.0E-03	X DF 2	1.0E-03	H	1.0E-03	H	6.2E+00	2.7E-01	6.7E-01	2.2E+01	2.2E+01
Hexachlorobutadiene	87-68-3	8.5E-04	C	8.5E-04	X DF 2	9.0E-05	X DF 3	1.1E-04	X DF 3	3.2E+00				
Hexachlorocyclohexane, alpha	319-84-6	3.0E-05	Q	1.1E-05	X DF 2	1.8E-06	X DF 3	2.6E-06	X DF 3	2.0E+00				
Hexachlorocyclohexane, beta	319-85-7	6.0E-05	Q	3.7E-05	X DF 2	4.9E-06	X DF 3	6.5E-06	X DF 3	2.4E-01				
Hexachlorocyclohexane, gamma	58-89-9	2.0E-04	MCL	2.0E-04	X DF 2	1.1E-04	X DF 3	2.0E-04	X DF 3	6.8E+00				
Hexachlorocyclopentadiene	77-47-4	5.0E-02	MCL	5.0E-02	X DF 2	5.0E-02	X DF 3	5.0E-02	X DF 3	1.8E+00	6.0E-02	2.1E-01	8.5E+00	1.2E+01
Hexachloroethane	67-72-1	1.0E-02	Q	7.9E-04	X DF 2	1.0E-03	X DF 3	1.7E-03	X DF 3	5.0E+00	2.2E+02	5.5E+02	1.4E+04	1.4E+04
Indeno(1,2,3-cd)pyrene	193-39-5	3.7E-03	Q	9.1E-05	X DF 2	9.1E-05	H	9.1E-05	H	2.2E-05				
Isobutyl alcohol	78-83-1	1.1E+01	N	1.1E+01	X DF 2	9.8E+00	X DF 3	1.6E+02	X DF 3	8.5E+04				
Isophorone	78-59-1	7.0E-02	C	7.0E-02	X DF 2	3.3E-02	X DF 3	3.2E-01	X DF 3	1.2E+04				
Lead (inorganic)	7439-92-1	1.5E-02	MCL	1.5E-02	X DF 2	5.0E-02	X DF 3	5.0E-02	X DF 3	NA				
Mercury (inorganic)	7487-94-7	2.0E-03	MCL	2.0E-03	X DF 2	2.0E-03	X DF 3	2.0E-03	X DF 3	NA				
Methoxychlor	72-43-5	4.0E-02	MCL	4.0E-02	X DF 2	4.0E-02	X DF 3	4.0E-02	X DF 3	4.5E-02				
Methylene chloride	75-09-2	5.0E-03	MCL	5.0E-03	X DF 2	4.4E-03	X DF 3	8.7E-02	X DF 3	1.3E+04	9.8E+01	2.4E+02	9.0E+03	9.0E+03
Methyl ethyl ketone	78-93-3	1.9E+00	N	1.9E+00	X DF 2	2.0E+01	X DF 3	3.9E+02	X DF 3	2.2E+05	2.4E+05	5.9E+05	1.0E+06	1.0E+06
Methyl isobutyl ketone	108-10-1	2.0E+00	N	2.0E+00	X DF 2	2.6E+00	X DF 3	3.0E+01	X DF 3	1.9E+04	4.0E+04	9.9E+04	1.0E+06	1.0E+06
Methylnaphthalene, 2-	91-57-6	6.2E-03	N	6.2E-03	X DF 2	2.6E-02	X DF 3	2.7E-02	X DF 3	2.5E+01	8.4E+01	2.9E+02	5.0E+03	7.0E+03
MTBE (methyl tert-butyl ether)	1634-04-4	2.0E-02	T/O	2.0E-02	X DF 2	2.0E-02	X DF 3	5.5E+02	X DF 3	5.1E+04	4.8E+03	1.7E+04	3.4E+05	4.7E+05
Naphthalene	91-20-3	1.0E-02	Q	6.2E-03	X DF 2	1.7E-01	X DF 3	2.2E-01	X DF 3	3.1E+01	1.0E+01	3.5E+01	6.6E+02	9.3E+02
Nickel	7440-02-0	7.3E-01	N	7.3E-01	X DF 2	6.7E-01	X DF 3	1.3E+01	X DF 3	NA				
Nitrate	14797-55-8	1.0E+01	MCL	1.0E+01	X DF 2	1.0E+01	X DF 3	1.0E+03	X DF 3	NA				
Nitrite	14797-65-0	1.0E+00	MCL	1.0E+00	X DF 2	1.0E+00	X DF 3	6.4E+01	X DF 3	NA				
Nitroaniline, 2-	88-74-4	5.0E-02	Q	2.1E-04	X DF 2	8.7E-02	X DF 3	5.0E-01	X DF 3	1.3E+03	1.4E+00	4.7E+00	8.3E+01	1.2E+02
Nitroaniline, 3-	99-09-2	5.0E-02	Q	1.8E-02	X DF 2	9.4E-02	X DF 3	9.3E-01	X DF 3	1.2E+03	1.7E+03	5.9E+03	1.0E+05	1.4E+05
Nitroaniline, 4-	100-01-6	1.1E-01	N	1.1E-01	X DF 2	9.4E-02	X DF 3	9.3E-01	X DF 3	7.3E+02				
Nitrobenzene	98-95-3	3.4E-03	N	3.4E-03	X DF 2	1.5E-02	X DF 3	9.6E-02	X DF 3	2.1E+03	4.3E+03	1.1E+04	2.6E+05	2.6E+05
Nitrophenol, 4-	100-02-7	2.9E-01	N	2.9E-01	X DF 2	2.3E-01	X DF 3	1.3E+00	X DF 3	1.2E+04				
Nitrosodi-n-propylamine, n-	621-64-7	1.0E-02	Q	1.0E-02	F	1.0E-02	G	4.4E-05	X DF 3	9.9E+03				
N-nitrosodiphenylamine	86-30-6	1.4E-02	C	1.4E-02	X DF 2	2.2E-03	X DF 3	3.2E-03	X DF 3	3.5E+01				

NOTE: See end of Table for designation of letter symbols and footnotes.

LDEQ RECAP TABLE 3
MANAGEMENT OPTION 1, 2, AND 3
STANDARDS FOR GROUNDWATER
(mg/l)

COMPOUND	CAS #	GW 1	NOTE	GW 2	NOTE	GW 3 DW	NOTE	GW 3 NDW	NOTE	S	Gwesni*	Gwesi*	Gwairni*	Gwairi*
Pentachlorophenol	87-86-5	1.0E-03	MCL	1.0E-03	X DF 2	1.0E-03	X DF 3	1.0E-03	X DF 3	2.0E+03				
Phenanthrene	85-01-8	1.8E+00	N	1.8E+00	X DF 2	2.0E-01	X DF 3	2.1E-01	X DF 3	1.2E+00	7.3E+04	2.5E+05	1.0E+06	1.0E+06
Phenol	108-95-2	1.8E+00	N	1.8E+00	X DF 2	9.3E+00	X DF 3	8.3E+01	X DF 3	8.3E+04	1.3E+05	1.0E+06	1.0E+06	1.0E+06
Polychlorinated biphenyls	1336-36-3	5.0E-04	MCL	5.0E-04	X DF 2	5.0E-04	H	5.0E-04	H	3.1E-02				
Pyrene	129-00-0	1.8E-01	N	1.8E-01	X DF 2	6.1E-01	X DF 3	1.4E+00	X DF 3	1.4E-01	1.2E+04	4.0E+04	6.8E+05	9.5E+05
Selenium	7782-49-2	5.0E-02	MCL	5.0E-02	X DF 2	5.0E-02	X DF 3	5.0E-02	X DF 3	NA				
Silver	7440-22-4	1.8E-01	N	1.8E-01	X DF 2	1.3E-01	X DF 3	5.4E-01	X DF 3	NA				
Styrene	100-42-5	1.0E-01	MCL	1.0E-01	X DF 2	1.0E-01	X DF 3	7.1E+00	X DF 3	3.1E+02	5.4E+02	1.3E+03	5.4E+04	5.4E+04
Tetrachlorobenzene,1,2,4,5-	95-94-3	1.1E-02	N	1.1E-02	X DF 2	5.4E-04	X DF 3	5.7E-04	X DF 3	6.0E-01				
Tetrachloroethane,1,1,1,2-	630-20-6	5.0E-03	Q	4.3E-04	X DF 2	8.4E-04	X DF 3	2.2E-03	X DF 3	1.1E+03	7.2E-02	1.8E-01	6.9E+00	6.9E+00
Tetrachloroethane,1,1,2,2-	79-34-5	5.0E-04	Q	5.5E-05	X DF 2	1.6E-04	X DF 3	1.8E-03	X DF 3	3.0E+03	6.2E+00	1.5E+01	4.1E+02	4.1E+02
Tetrachloroethylene	127-18-4	5.0E-03	MCL	5.0E-03	X DF 2	6.5E-04	X DF 3	2.5E-03	X DF 3	2.0E+02	1.5E+01	3.6E+01	3.0E+03	3.0E+03
Tetrachlorophenol,2,3,4,6-	58-90-2	1.1E+00	N	1.1E+00	X DF 2	1.5E-01	X DF 3	1.8E-01	X DF 3	1.0E+03				
Thallium	7440-28-0	2.0E-03	MCL	2.0E-03	X DF 2	2.0E-03	X DF 3	2.0E-03	X DF 3	NA				
Toluene	108-88-3	1.0E+00	MCL	1.0E+00	X DF 2	6.1E+00	X DF 3	4.6E+01	X DF 3	5.3E+02	8.9E+01	2.2E+02	1.3E+04	1.3E+04
Toxaphene	8001-35-2	3.0E-03	MCL	3.0E-03	X DF 2	3.0E-03	H	3.0E-03	H	7.4E-01				
Trichlorobenzene,1,2,4-	120-82-1	7.0E-02	MCL	7.0E-02	X DF 2	7.0E-02	X DF 3	1.9E-01	X DF 3	3.0E+02	4.5E+02	1.6E+03	3.1E+04	4.3E+04
Trichloroethane,1,1,1,1-	71-55-6	2.0E-01	MCL	2.0E-01	X DF 2	2.0E-01	X DF 3	9.1E+00	X DF 3	1.3E+03	1.3E+02	4.6E+02	2.7E+04	3.7E+04
Trichloroethane,1,1,1,2-	79-00-5	5.0E-03	MCL	5.0E-03	X DF 2	5.6E-04	X DF 3	6.9E-03	X DF 3	4.4E+03	8.4E+00	2.1E+01	6.2E+02	6.2E+02
Trichloroethene	79-01-6	5.0E-03	MCL	5.0E-03	X DF 2	2.8E-03	X DF 3	2.1E-02	X DF 3	1.1E+03	1.0E+01	2.5E+01	1.7E+03	1.7E+03
Trichlorofluoromethane	75-69-4	1.3E+00	N	1.3E+00	X DF 2	6.9E+00	X DF 3	2.0E+01	X DF 3	1.1E+03	3.1E+01	1.1E+02	8.7E+03	1.2E+04
Trichlorophenol,2,4,5-	95-95-4	3.7E+00	N	3.7E+00	X DF 2	5.4E-01	X DF 3	6.4E-01	X DF 3	1.2E+03				
Trichlorophenol,2,4,6-	88-06-2	1.0E-02	Q	6.0E-03	X DF 2	6.5E-04	X DF 3	8.2E-04	X DF 3	8.0E+02				
Vanadium	7440-62-2	2.6E-01	N	2.6E-01	X DF 2	2.3E-01	X DF 3	4.5E+00	X DF 3	NA				
Vinyl chloride	75-01-4	2.0E-03	MCL	2.0E-03	X DF 2	1.9E-03	X DF 3	3.6E-02	X DF 3	2.8E+03	2.0E-01	4.9E-01	6.0E+01	6.0E+01
Xylene(mixed)	1330-20-7	1.0E+01	MCL	1.0E+01	X DF 2	1.0E+01	X DF 3	1.0E+01	X DF 3	1.6E+02	2.6E+01	8.9E+01	3.9E+03	5.4E+03
Zinc	7440-66-6	1.1E+01	N	1.1E+01	X DF 2	5.0E+00	X DF 3	8.0E+00	X DF 3	NA				
Aliphatics C6-C8	NA	3.2E+01	N	3.2E+01	X DF 2	1.7E+02	X DF 3	3.9E+03	X DF 3	NA	9.2E+01	2.3E+02	2.9E+04	2.9E+04
Aliphatics >C8-C10	NA	1.3E+00	N	1.3E+00	X DF 2	3.4E+00	X DF 3	7.9E+01	X DF 3	NA	3.2E+00	7.9E+00	1.0E+03	1.0E+03
Aliphatics >C10-C12	NA	1.4E+00	N	1.4E+00	X DF 2	3.4E+00	X DF 3	7.9E+01	X DF 3	NA	2.2E+00	5.5E+00	7.0E+02	7.0E+02
Aliphatics >C12-C16	NA	1.4E+00	N	1.4E+00	X DF 2	3.4E+00	X DF 3	7.9E+01	X DF 3	NA	5.3E-01	1.3E+00	1.6E+02	1.6E+02
Aliphatics >C16-C35	NA	7.3E+01	N	7.3E+01	X DF 2	6.7E+01	X DF 3	1.6E+03	X DF 3	NA				
Aromatics >C8-C10	NA	3.4E-01	N	3.4E-01	X DF 2	1.3E+00	X DF 3	3.1E+01	X DF 3	NA	2.9E+01	7.1E+01	5.3E+03	5.3E+03
Aromatics >C10-C12	NA	3.4E-01	N	3.4E-01	X DF 2	1.3E+00	X DF 3	3.1E+01	X DF 3	NA	7.1E+01	1.8E+02	8.1E+03	8.1E+03
Aromatics >C12-C16	NA	3.4E-01	N	3.4E-01	X DF 2	1.3E+00	X DF 3	3.1E+01	X DF 3	NA	1.7E+02	4.1E+02	1.4E+04	1.4E+04

NOTE: See end of Table for designation of letter symbols and footnotes.

LDEQ RECAP TABLE 3
MANAGEMENT OPTION 1, 2, AND 3
STANDARDS FOR GROUNDWATER
(mg/l)

COMPOUND	CAS #	GW 1	NOTE	GW 2	NOTE	GW 3 DW	NOTE	GW 3 NDW	NOTE	S	Gwesni*	Gwesi*	Gwairni*	Gwairi*
Aromatics >C16-C21	NA	1.1E+00	N	1.1E+00	X DF 2	1.0E+00	X DF 3	2.4E+01	X DF 3	NA				
Aromatics >C21-C35	NA	1.1E+00	N	1.1E+00	X DF 2	1.0E+00	X DF 3	2.4E+01	X DF 3	NA				
TPH-GRO	NA	3.4E-01	N,I	3.4E-01	X DF2	1.3E+00	X DF3	3.1E+01	X DF3	NA	3.2E+00	7.9E+00	1.0E+03	1.0E+03
TPH-DRO	NA	3.4E-01	N,I	3.4E-01	X DF2	1.0E+00	X DF3	2.4E+01	X DF3	NA				
TPH-ORO	NA	1.1E+00	N,I	1.1E+00	X DF2	1.0E+00	X DF3	2.4E+01	X DF3	NA				
C - Based on carcinogenic health effects														
F - GW 2 multiplied by maximum DF is less than GW 1 thus default to GW 1														
G - GW 3 multiplied by maximum DF is less than GW 2 thus default to GW 2 and do not multiply by DF 2														
H - GW 3 multiplied by maximum DF is less than GW 2 thus default to GW 2 and multiply by DF 2														
I - TPH Standards are only applicable when used in conjunction with Standards for indicator compounds														
MCL - Based on EPA's Maximum Contaminant Level (MCL) for drinking water														
N - Based on non-carcinogenic health effects														
NA - Not applicable														
Q - Based on analytical quantitation limit														
X DF 2 - Multiply GW 2 by the appropriate site specific dilution factor from the chart														
X DF 3 - Multiply GW 3 DW or GW 3 NDW by the appropriate site specific dilution factor from the chart														
T/O - EPA taste/odor advisory value														
* The MO-1 GWes and MO-1 GWair are presented for screening purposes only; if the CC exceeds the MO-1 GWes and/or MO-1 GWair, then further assessment maybe warranted under MO-2 or MO-3.														

NOTE: See end of Table for designation of letter symbols and footnotes.