

DTSC Chemical Soil Background Study

Results Table

Constituents - Detected Ranges - Reporting Limits

Page 1 of 4

<i>Analytes</i>		<i>2011 Data (detected)</i>		
<i>Dioxins & Furans</i>	<i>Units</i>	<i>Range</i>	<i>RLs</i>	<i>QAPP RL</i>
1,2,3,4,6,7,8-HpCDD	pg/g	0.103 - 6.84	0.1	0.2
1,2,3,4,6,7,8-HpCDF	pg/g	0.0341 - 1.76	0.1	0.2
1,2,3,4,7,8,9-HpCDF	pg/g	0.0177 - 0.167	0.1	0.2
1,2,3,4,7,8-HxCDD	pg/g	0.0169 - 0.2	0.1	0.2
1,2,3,6,7,8-HxCDD	pg/g	0.0281 - 1.34	0.1	0.2
1,2,3,7,8,9-HxCDD	pg/g	0.0284 - 1.95	0.1	0.2
1,2,3,4,7,8-HxCDF	pg/g	0.0139 - 0.348	0.1	0.2
1,2,3,6,7,8-HxCDF	pg/g	0.0205 - 0.882	0.1	0.2
1,2,3,7,8,9-HxCDF	pg/g	0.0155 - 2.11	0.1	0.2
2,3,4,6,7,8-HxCDF	pg/g	0.0213 - 0.576	0.1	0.2
OCDD	pg/g	0.531 - 138	0.2	0.4
OCDF	pg/g	0.0535 - 2.91	0.2	0.4
1,2,3,7,8-PeCDD	pg/g	0.0151 - 0.329	0.1	0.2
1,2,3,7,8-PeCDF	pg/g	0.0309 - 0.291	0.1	0.2
2,3,4,7,8-PeCDF	pg/g	0.0281 - 0.533	0.1	0.2
2,3,7,8-TCDD	pg/g	0.0164 - 0.143	0.02	0.04
2,3,7,8-TCDF	pg/g	0.0125 - 0.621	0.02	0.04
Total HpCDD	pg/g	0.233 - 16.1	-	-
Total HpCDF	pg/g	0.0341 - 3.33	-	-
Total HxCDD	pg/g	0.315 - 7	-	-
Total HxCDF	pg/g	0.0236 - 7.11	-	-
Total PeCDD	pg/g	0.0449 - 3.17	-	-
Total PeCDF	pg/g	0.148 - 13	-	-
Total TCDD	pg/g	0.0483 - 3.08	-	-
Total TCDF	pg/g	0.0315 - 15.8	-	-
<i>Metals</i>				
Aluminum	mg/kg	8910 - 55700	16.3 - 22.2	20
Antimony	mg/kg	0.0793 - 13.8	0.192 - 0.223	0.2
Arsenic	mg/kg	2.48 - 183	0.384 - 0.446	0.4
Barium	mg/kg	53.7 - 363	0.384 - 2.13	0.5
Beryllium	mg/kg	0.315 - 2.45	0.961 - 0.271	0.1
Boron	mg/kg	0.553 - 27.8	0.476 - 5.56	5
Cadmium	mg/kg	0.0499 - 0.686	0.0961 - 0.112	0.1
Calcium	mg/kg	614 - 55000	19.6 - 22.2	20
Chromium	mg/kg	13.1 - 95.2	0.384 - 1.08	0.4
Cobalt	mg/kg	5.7 - 38	0.0961 - 0.112	0.1
Copper	mg/kg	5.85 - 102	0.384 - 0.446	0.4
Hexavalent Chromium by IC	mg/kg	0.211 - 1.88	0.957 - 1.17	1
Iron	mg/kg	16000 - 67500	19.6 - 110	20
Lead	mg/kg	2.67 - 44.6	0.192 - 0.223	0.2
Lithium	mg/kg	9.98 - 78.4	1.63 - 2.22	2
Magnesium	mg/kg	2340 - 21500	8.17 - 11.1	10

DTSC Chemical Soil Background Study
Results Table
Constituents - Detected Ranges - Reporting Limits
Page 2 of 4

<i>Metals</i>	<i>Units</i>	<i>Range</i>	<i>RLs</i>	<i>QAPP RL</i>
Manganese	mg/kg	185 - 1450	0.409 - 2.75	0.5
Mercury	mg/kg	0.00708 - 0.0678	0.0956 - 0.111	0.1
Molybdenum	mg/kg	0.252 - 4.84	0.0961 - 0.112	0.1
Nickel	mg/kg	11.7 - 113	0.384 - 0.446	0.4
Phosphorus	mg/kg	181 - 1160	8.17 - 11.1	10
Potassium	mg/kg	965 - 8520	40.9 - 254	50
Selenium	mg/kg	0.0807 - 1.14	0.384 - 0.446	0.4
Silver	mg/kg	0.0175 - 0.148	0.0961 - 0.112	0.1
Sodium	mg/kg	36.8 - 4660	81.7 - 111	100
Strontium	mg/kg	8.66 - 140	0.409 - 0.556	0.5
Thallium	mg/kg	0.0832 - 0.874	0.0961 - 0.112	0.1
Tin	mg/kg	2.14 - 4.58	0.663 - 11.1	10
Titanium	mg/kg	380 - 2320	0.982 - 5.37	1
Vanadium	mg/kg	25 - 169	0.0961 - 0.264	0.1
Zinc	mg/kg	42.3 - 185	2.83 - 3.35	3
Zirconium	mg/kg	0.52 - 20.2	4.09 - 5.56	5
<i>Perchlorate</i>				
Perchlorate	ug/kg	0.33 - 2.4	0.41 - 0.46	0.5
<i>Organochlorine Pesticides</i>				
Aldrin	ug/kg	0.076 - 0.093	0.17	0.166
Alpha BHC	ug/kg	0.048 - 0.087	0.17 - 0.18	0.166
Beta BHC	ug/kg	0.063 - 0.39	0.17 - 0.18	0.166
Chlordane	ug/kg	0.92 - 7.2	3.4 - 3.9	3.4
p,p-DDD	ug/kg	0.077 - 0.51	0.35 - 0.39	0.34
p,p-DDE	ug/kg	0.078 - 9.9	0.34 - 3.6	0.34
p,p-DDT	ug/kg	0.073 - 17	0.34 - 3.6	0.34
Delta BHC	ug/kg	0.039 - 2.2	0.17 - 0.87	0.166
Dieldrin	ug/kg	0.071 - 0.64	0.34 - 0.38	0.34
Endosulfan I	ug/kg	0.048 - 0.5	0.17 - 0.18	0.166
Endosulfan II	ug/kg	0.07 - 0.71	0.35 - 0.38	0.34
Endosulfan Sulfate	ug/kg	0.072 - 0.47	0.35 - 0.38	0.34
Endrin	ug/kg	0.079 - 0.43	0.34 - 0.39	0.34
Endrin Aldehyde	ug/kg	0.074 - 0.89	0.34 - 0.39	0.34
Endrin Ketone	ug/kg	0.067 - 1.2	0.34 - 0.38	0.34
Gamma BHC - Lindane	ug/kg	0.044 - 0.43	0.17 - 0.87	0.166
Heptachlor	ug/kg	0.089 - 0.25	0.17 - 0.18	0.166
Heptachlor Epoxide	ug/kg	0.035 - 0.33	0.17 - 0.18	0.166
Methoxychlor	ug/kg	0.38 - 2.1	1.7 - 1.8	1.66
Mirex	ug/kg	0.072 - 1.2	0.35 - 0.39	0.34
Toxaphene	ug/kg	3.7 - 23	6.8 - 7	6.6

DTSC Chemical Soil Background Study

Results Table

Constituents - Detected Ranges - Reporting Limits

Page 3 of 4

<i>Semi-Volatile Organic Compounds</i>	<i>Units</i>	<i>Range</i>	<i>RLs</i>	<i>QAPP RL</i>
Acenaphthene	ug/kg	no detections	no detections	1.67
Acenaphthylene	ug/kg	0.4 - 3	1.7 - 1.8	1.67
Anthracene	ug/kg	0.56 - 1.2	1.7 - 1.8	1.67
Benzo(a)anthracene	ug/kg	0.73 - 25	1.7 - 170	1.67
Benzo(a)pyrene	ug/kg	0.69 - 46	1.7 - 170	1.67
Benzo(b)fluoranthene	ug/kg	0.71 - 12	1.7 - 1.8	1.67
Benzo(g,h,i)perylene	ug/kg	0.71 - 31	1.7 - 170	1.67
Benzo(k)fluoranthene	ug/kg	0.72 - 19	1.7 - 170	1.67
Bis(2-Ethylhexyl)phthalate	ug/kg	6.3 - 240	18 - 360	330
Butylbenzylphthalate	ug/kg	6.5 - 110	18 - 180	170
Chrysene	ug/kg	0.36 - 41	1.7 - 170	1.67
Di-n-butylphthalate	ug/kg	8.2 - 11	19	170
Di-n-octylphthalate	ug/kg	6.2 - 16	18 - 20	170
Dibenz(a,h)anthracene	ug/kg	0.73 - 2.3	1.7 - 1.8	1.67
Diethylphthalate	ug/kg	24	180	170
Dimethylphthalate	ug/kg	8.3 - 180	19 - 180	170
Fluoranthene	ug/kg	0.72 - 13	1.7 - 1.8	1.67
Fluorene	ug/kg	0.77 - 3.9	1.7 - 1.8	1.67
Indeno(1,2,3-cd)pyrene	ug/kg	0.73 - 4.2	1.7 - 1.8	1.67
1-Methylnaphthalene	ug/kg	0.88 - 1.1	1.7 - 1.8	1.67
2-Methylnaphthalene	ug/kg	0.84 - 1.4	1.7 - 1.8	1.67
Naphthalene	ug/kg	0.69 - 8.3	1.7 - 1.8	1.67
Phenanthrene	ug/kg	0.69 - 4.1	1.7 - 1.8	1.67
Pyrene	ug/kg	0.71 - 26	1.7 - 170	1.67
<i>Herbicides</i>				
2,4,5-T	ug/kg	0.21 - 3	0.17 - 0.19	0.17
2,4-D	ug/kg	1.4 - 5.9	3.7 - 4	3.6
Dalapon	ug/kg	no detections	no detections	9
2,4-DB	ug/kg	1.4 - 26	1.8 - 1.9	1.7
Dicamba	ug/kg	0.42 - 1.7	1.2 - 1.3	1.2
Dinoseb	ug/kg	1.4	2.6	2.4
2,4-DP (Dichloroprop)	ug/kg	0.89 - 8.1	1.8 - 1.9	1.7
MCPA	ug/kg	140 - 800	250 - 270	250
MCPP (Mecoprop)	ug/kg	85 - 1500	260 - 270	250
2,4,5-TP	ug/kg	0.085 - 1	0.17 - 0.19	0.17
<i>Formaldehyde</i>				
Formaldehyde	ug/kg	760 - 1300	1500 - 1600	3000
<i>General Minerals</i>				
Fluoride	mg/kg	0.882 - 23.3	1.01 - 1.17	1
Nitrate	mg/kg	0.883 - 34.7	1.5 - 3.27	1.5
<i>Alcohols</i>				
Ethanol	ug/kg	no detections	no detections	500
Methanol	ug/kg	110 - 390	510 - 560	500

DTSC Chemical Soil Background Study
Results Table
Constituents - Detected Ranges - Reporting Limits
Page 4 of 4

<i>Cyanide</i>	<i>Units</i>	<i>Range</i>	<i>RLs</i>	<i>QAPP RL</i>
Cyanide	mg/kg	0.202 - 4.98	0.508 - 0.559	0.5

Notes:

mg/kg = milligrams per kilogram

ug/kg = micrograms per kilogram

pg/g = picograms per gram

RL = reporting limit

QAPP = DTSC Quality Assurance Project Plan (May 2011)