

TABLE 1
SOIL DATA AND SCREENING-LEVEL RISK ASSESSMENT RESULTS SUMMARY
TRONOX PARCELS C/D INVESTIGATION
CLARK COUNTY, NEVADA
(Page 1 of 21)

Parameter of Interest	Chemical	Result Unit	Total Count	Detect Count	Detect Frequency	Min. Detect ^a	Max. Detect ^a	Location of Max. Detect	Min. Non-Detect Limit ^b	Max. Non-Detect Limit ^b
Dioxins/Furans	TCDD TEQ ^h	pg/g	49	37	76%	1.5	1521	TSB-CR-07 @ 0	--	--
Asbestos ⁱ	Chrysotile	Structures	24	13	54%	1	7	TSB-CR-03	--	--
	Amphibole	Structures	24	2	8%	1	1	TSB-CJ-03 / TSB-CR-02	--	--
General Chemistry	Bromide	mg/kg	49	11	22%	0.85	7.3	TSB-CR-04 @ 10	2.5	2.9
	Bromine	mg/kg	49	11	22%	1.7	14.6	TSB-CR-04 @ 10	5	5.7
	Chlorate	mg/kg	49	9	18%	1.1	12.2	TSB-DR-06 @ 10	5	5.7
	Chloride	mg/kg	49	49	100%	0.42	1870	TSB-DR-03 @ 10	2	224
	Chlorine	mg/kg	49	49	100%	0.85	3730	TSB-DR-03 @ 10	4	447
	Chlorite	mg/kg	86	0	0%	--	--	--	0.2	4
	Fluoride	mg/kg	49	16	33%	0.48	4.5	TSB-CR-07 @ 10	1	2.2
	Nitrate (as N)	mg/kg	49	41	84%	0.13	43.3	TSB-CR-04 @ 10	0.2	2.1
	Nitrite (as N)	mg/kg	32	0	0%	--	--	--	0.2	0.23
	Orthophosphate as P	mg/kg	49	0	0%	--	--	--	5	5.7
	Perchlorate	mg/kg	49	48	98%	0.018	28.3	TSB-DR-06 @ 10	0.0403	2.13
	Sulfate	mg/kg	49	49	100%	5.4	16700	TSB-CR-04 @ 10	5	2790
Metals	Aluminum	mg/kg	49	49	100%	3430	10800	TSB-DR-05 @ 10	5.1	11.5
	Antimony	mg/kg	49	47	96%	0.088	0.32	TSB-CR-07 @ 0	0.51	1.2
	Arsenic	mg/kg	49	49	100%	1.3	8	TSB-CJ-08 @ 10	1	2.3
	Barium	mg/kg	49	49	100%	82.5	340	TSB-CJ-08 @ 10	2	4.6
	Beryllium	mg/kg	49	49	100%	0.23	0.68	TSB-DR-05 @ 10	0.1	0.23
	Boron	mg/kg	49	21	43%	3.2	22.6	TSB-DR-05 @ 0	10.1	22.9
	Cadmium	mg/kg	49	29	59%	0.049	0.25	TSB-CR-07 @ 0	0.051	0.12
	Calcium	mg/kg	49	49	100%	8900	91900	TSB-CJ-03 @ 10	50.5	115
	Chromium (Total)	mg/kg	49	49	100%	4.1	17.8	TSB-DR-04 @ 10	1	2.3
	Chromium (VI)	mg/kg	49	1	2%	1.3	1.3	TSB-DR-05 @ 0	1	1
	Cobalt	mg/kg	49	49	100%	3.2	8.2	TSB-CJ-03 @ 10	0.2	0.46
	Copper	mg/kg	49	49	100%	6	27.4	TSB-CJ-03 @ 10	1	2.3
	Iron	mg/kg	49	49	100%	5950	15500	TSB-CR-06 @ 10	5.1	11.5
	Lead	mg/kg	49	49	100%	3.8	29.4	TSB-CR-07 @ 0	0.3	0.69
	Lithium	mg/kg	49	48	98%	8.6	23.6	TSB-CJ-08 @ 10	10.1	26.8
	Magnesium	mg/kg	49	49	100%	4100	14600	TSB-CR-03 @ 10	50.5	115
	Manganese	mg/kg	49	49	100%	111	841	TSB-CR-07 @ 0	0.2	0.46
	Mercury	mg/kg	49	22	45%	0.0081	0.0215	TSB-CR-05 @ 0	0.0336	0.0382
	Molybdenum	mg/kg	49	22	45%	0.38	1.1	TSB-DJ-01 @ 10	0.51	1.2
	Nickel	mg/kg	49	49	100%	6	18.5	TSB-CJ-03 @ 10	0.51	1.2
	Niobium	mg/kg	49	1	2%	4.2	4.2	TSB-DR-06 @ 0	2.5	5.7
	Palladium	mg/kg	49	49	100%	0.09	0.9	TSB-CR-04 @ 10	0.1	0.23
	Phosphorus (as P)	mg/kg	49	49	100%	377	1640	TSB-DR-04 @ 0	50.5	115
	Platinum	mg/kg	49	0	0%	--	--	--	0.1	0.23
	Potassium	mg/kg	49	49	100%	787	4480	TSB-DR-05 @ 0	10.1	22.9
	Selenium	mg/kg	49	0	0%	--	--	--	0.51	1.2

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SOIL DATA AND SCREENING-LEVEL RISK ASSESSMENT RESULTS SUMMARY
TRONOX PARCELS C/D INVESTIGATION
CLARK COUNTY, NEVADA
(Page 2 of 21)

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Metals	Silicon	mg/kg	49	49	100%	113	511	TSB-CR-07 @ 0	25.2	57.3
	Silver	mg/kg	49	49	100%	0.038	0.18	TSB-CR-01 @ 10	0.2	0.46
	Sodium	mg/kg	49	49	100%	186	2300	TSB-CJ-04 @ 10	20.2	45.9
	Strontium	mg/kg	49	49	100%	50.7	446	TSB-CR-04 @ 10	0.51	1.2
	Sulfur	mg/kg	49	30	61%	431	24800	TSB-CR-04 @ 10	1010	2740
	Thallium	mg/kg	49	3	6%	0.19	0.45	TSB-DR-04 @ 10	0.2	0.46
	Tin	mg/kg	49	32	65%	0.28	1.2	TSB-CJ-02 @ 10	0.2	0.46
	Titanium	mg/kg	49	49	100%	257	719	TSB-DR-05 @ 10	0.51	1.2
	Tungsten	mg/kg	49	0	0%	--	--	--	0.51	1.2
	Uranium	mg/kg	49	49	100%	0.39	2.7	TSB-CR-04 @ 10	0.1	0.23
	Vanadium	mg/kg	49	49	100%	19.1	48.7	TSB-CR-06 @ 10	1	2.3
	Zinc	mg/kg	49	49	100%	14	49.8	TSB-CJ-05 @ 0	2	4.6
	Zirconium	mg/kg	49	49	100%	8.7	28.2	TSB-DR-05 @ 10	10.1	22.9
Organochlorine Pesticides	2,4-DDD	mg/kg	49	4	8%	0.0018	0.0066	TSB-CR-07 @ 0	0.0017	0.0019
	2,4-DDE	mg/kg	49	8	16%	0.0023	0.085	TSB-CJ-05 @ 0	0.0017	0.018
	4,4-DDD	mg/kg	49	1	2%	0.0019	0.0019	TSB-DR-04 @ 10	0.0017	0.0019
	4,4-DDE	mg/kg	49	17	35%	0.0018	0.2	TSB-CJ-05 @ 0	0.0017	0.018
	4,4-DDT	mg/kg	49	14	29%	0.0018	0.096	TSB-CJ-05 @ 0	0.0017	0.018
	Aldrin	mg/kg	49	0	0%	--	--	--	0.0017	0.0019
	alpha-BHC	mg/kg	49	5	10%	0.0021	0.046	TSB-CJ-05 @ 0	0.0017	0.0019
	alpha-Chlordane	mg/kg	49	0	0%	--	--	--	0.0017	0.0019
	beta-BHC	mg/kg	49	23	47%	0.002	0.18	TSB-CR-07 @ 0	0.0017	0.018
	Chlordane	mg/kg	49	0	0%	--	--	--	0.017	0.019
	delta-BHC	mg/kg	49	0	0%	--	--	--	0.0017	0.0019
	Heptachlor	mg/kg	49	0	0%	--	--	--	0.0017	0.0019
	Heptachlor epoxide	mg/kg	49	0	0%	--	--	--	0.0017	0.0019
	Lindane	mg/kg	49	1	2%	0.013	0.013	TSB-CJ-05 @ 0	0.0017	0.0019
	Methoxychlor	mg/kg	49	5	10%	0.002	0.0078	TSB-CJ-06 @ 0	0.0033	0.0038
	Toxaphene	mg/kg	49	0	0%	--	--	--	0.067	0.077
Petroleum Hydrocarbons	TPH (as Gasoline)	mg/kg	47	0	0%	--	--	--	0.1	0.11
	Oil/Grease	mg/kg	49	0	0%	--	--	--	201	229
	TPH (as Diesel)	mg/kg	49	0	0%	--	--	--	25	29

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TRONOX PARCELS C/D INVESTIGATION
CLARK COUNTY, NEVADA
(Page 3 of 21)

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Radionuclides	Radium-226	pCi/g	49	28	57%	0.844	1.15	TSB-CJ-07 @ 10	0.0476	0.0937
	Radium-228	pCi/g	49	49	100%	1.23	2.13	TSB-CJ-07 @ 0	0.0958	0.174
	Thorium-228	pCi/g	48	48	100%	1.07	2.26	TSB-CR-03 @ 0	0.1	0.1
	Thorium-230	pCi/g	48	48	100%	0.802	2.17	TSB-CR-02 @ 10	0.1	0.1
	Thorium-232	pCi/g	48	48	100%	0.92	2.15	TSB-CR-07 @ 0	0.1	0.1
	Uranium-233/234	pCi/g	49	49	100%	0.838	2.26	TSB-DR-01 @ 10	1	1
	Uranium-235/236	pCi/g	49	32	65%	0.0296	0.0782	TSB-CJ-04 @ 0	1	1
	Uranium-238	pCi/g	49	49	100%	0.8	1.87	TSB-CR-02 @ 10	1	1
SVOCs	1,2,4,5-Tetrachlorobenzene	mg/kg	49	0	0%	--	--	--	0.33	0.38
	1,2-Diphenylhydrazine	mg/kg	49	0	0%	--	--	--	0.33	0.38
	1,4-Dioxane	mg/kg	49	0	0%	--	--	--	0.33	0.38
	2,2'-/4,4'-Dichlorobenzil	mg/kg	49	0	0%	--	--	--	0.33	0.33
	2,4,5-Trichlorophenol	mg/kg	49	0	0%	--	--	--	0.33	0.38
	2,4,6-Trichlorophenol	mg/kg	49	0	0%	--	--	--	0.33	0.38
	2,4-Dichlorophenol	mg/kg	49	0	0%	--	--	--	0.33	0.38
	2,4-Dimethylphenol	mg/kg	49	0	0%	--	--	--	0.33	0.38
	2,4-Dinitrophenol	mg/kg	49	0	0%	--	--	--	1.6	1.8
	2,4-Dinitrotoluene	mg/kg	49	0	0%	--	--	--	0.33	0.38
	2,6-Dinitrotoluene	mg/kg	49	0	0%	--	--	--	0.33	0.38
	2-Chloronaphthalene	mg/kg	49	0	0%	--	--	--	0.33	0.38
	2-Chlorophenol	mg/kg	49	0	0%	--	--	--	0.33	0.38
	2-Methylnaphthalene	mg/kg	49	0	0%	--	--	--	0.33	0.38
	2-Nitroaniline	mg/kg	49	0	0%	--	--	--	1.6	1.8
	2-Nitrophenol	mg/kg	49	0	0%	--	--	--	0.33	0.38
	3,3'-Dichlorobenzidine	mg/kg	49	0	0%	--	--	--	1.6	1.8
	3-Methylphenol & 4-Methylphenol	mg/kg	49	0	0%	--	--	--	0.66	0.76
	3-Nitroaniline	mg/kg	49	0	0%	--	--	--	1.6	1.8
	4-Bromophenyl phenyl ether	mg/kg	49	0	0%	--	--	--	0.33	0.38
	4-Chloro-3-Methylphenol	mg/kg	49	0	0%	--	--	--	0.33	0.38
	4-Chlorophenyl phenyl ether	mg/kg	49	0	0%	--	--	--	0.33	0.38
	4-Chlorothioanisole	mg/kg	49	0	0%	--	--	--	0.33	0.38
	4-Nitrophenol	mg/kg	49	0	0%	--	--	--	1.6	1.8
	Acenaphthene	mg/kg	49	0	0%	--	--	--	0.33	0.38
	Acenaphthylene	mg/kg	49	0	0%	--	--	--	0.33	0.38
	Acetophenone	mg/kg	49	0	0%	--	--	--	0.33	0.38
	Aniline	mg/kg	49	0	0%	--	--	--	0.33	0.38
	Anthracene	mg/kg	49	0	0%	--	--	--	0.33	0.38
	Azobenzene	mg/kg	49	0	0%	--	--	--	0.33	0.38
	Benzene-thiol	mg/kg	49	0	0%	--	--	--	0.33	0.38
	Benzo(a)anthracene	mg/kg	49	0	0%	--	--	--	0.33	0.38
	Benzo(a)pyrene	mg/kg	49	0	0%	--	--	--	0.33	0.38

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TRONOX PARCELS C/D INVESTIGATION
CLARK COUNTY, NEVADA
(Page 4 of 21)

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SVOCs	Benzo(b)fluoranthene	mg/kg	49	0	0%	--	--	--	0.33	0.38
	Benzo(g,h,i)perylene	mg/kg	49	0	0%	--	--	--	0.33	0.38
	Benzo(k)fluoranthene	mg/kg	49	0	0%	--	--	--	0.33	0.38
	Benzoic acid	mg/kg	49	0	0%	--	--	--	1.6	1.8
	Benzyl alcohol	mg/kg	49	0	0%	--	--	--	0.33	0.38
	Benzyl butyl phthalate	mg/kg	49	0	0%	--	--	--	0.33	0.38
	bis(2-Chloroethoxy) methane	mg/kg	49	0	0%	--	--	--	0.33	0.38
	bis(2-Chloroethyl) ether	mg/kg	49	0	0%	--	--	--	0.33	0.38
	bis(2-Chloroisopropyl) ether	mg/kg	49	0	0%	--	--	--	0.33	0.38
	bis(2-Ethylhexyl) phthalate	mg/kg	49	1	2%	0.04	0.04	TSB-DR-03 @ 0	0.33	0.38
	bis(p-Chlorophenyl) disulfide	mg/kg	49	0	0%	--	--	--	0.33	0.38
	bis(p-Chlorophenyl) sulfone	mg/kg	49	0	0%	--	--	--	0.33	0.38
	Carbazole	mg/kg	49	0	0%	--	--	--	0.33	0.38
	Chrysene	mg/kg	49	0	0%	--	--	--	0.33	0.38
	Dibenzo(a,h)anthracene	mg/kg	49	0	0%	--	--	--	0.33	0.38
	Dibenzofuran	mg/kg	49	0	0%	--	--	--	0.33	0.38
	Dibutyl phthalate	mg/kg	49	0	0%	--	--	--	0.33	0.38
	Diethyl phthalate	mg/kg	49	0	0%	--	--	--	0.33	0.38
	Dimethyl phthalate	mg/kg	49	0	0%	--	--	--	0.33	0.38
	Di-n-octyl phthalate	mg/kg	49	0	0%	--	--	--	0.33	0.38
	Diphenyl sulfone	mg/kg	49	0	0%	--	--	--	0.33	0.38
	Fluoranthene	mg/kg	49	0	0%	--	--	--	0.33	0.38
	Fluorene	mg/kg	49	0	0%	--	--	--	0.33	0.38
	Hexachloro-1,3-butadiene	mg/kg	49	0	0%	--	--	--	0.33	0.38
	Hexachlorobenzene	mg/kg	49	4	8%	0.035	0.37	TSB-CJ-05 @ 0	0.33	0.38
	Hexachlorocyclopentadiene	mg/kg	49	0	0%	--	--	--	1.6	1.8
	Hexachloroethane	mg/kg	49	0	0%	--	--	--	0.33	0.38
	Hydroxymethyl phthalimide	mg/kg	49	0	0%	--	--	--	0.33	0.38
	Indeno(1,2,3-cd)pyrene	mg/kg	49	0	0%	--	--	--	0.33	0.38
	Isophorone	mg/kg	49	0	0%	--	--	--	0.33	0.38
	Naphthalene	mg/kg	49	0	0%	--	--	--	0.33	0.38
	Nitrobenzene	mg/kg	49	0	0%	--	--	--	0.33	0.38
	N-nitrosodi-n-propylamine	mg/kg	49	0	0%	--	--	--	0.33	0.38
	N-nitrosodiphenylamine	mg/kg	49	0	0%	--	--	--	0.33	0.38
	o-Cresol	mg/kg	49	0	0%	--	--	--	0.33	0.38
	Octachlorostyrene	mg/kg	49	2	4%	0.039	0.065	TSB-CJ-05 @ 0	0.33	0.38
	p-Chloroaniline	mg/kg	49	0	0%	--	--	--	0.33	0.38
	p-Chlorothiophenol	mg/kg	49	0	0%	--	--	--	0.33	0.38
	Pentachlorobenzene	mg/kg	49	0	0%	--	--	--	0.33	0.38
	Pentachlorophenol	mg/kg	49	0	0%	--	--	--	1.6	1.8
	Phenanthrene	mg/kg	49	0	0%	--	--	--	0.33	0.38

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TRONOX PARCELS C/D INVESTIGATION
CLARK COUNTY, NEVADA
(Page 5 of 21)

Parameter of Interest	Chemical	Result Unit	Total Count	Detect Count	Detect Frequency	Min. Detect ^a	Max. Detect ^a	Location of Max. Detect	Min. Non-Detect Limit ^b	Max. Non-Detect Limit ^b
SVOCs	Phenol	mg/kg	49	0	0%	--	--	--	0.33	0.38
	Phenyl Disulfide	mg/kg	49	0	0%	--	--	--	0.33	0.38
	Phenyl Sulfide	mg/kg	49	0	0%	--	--	--	0.33	0.38
	Phthalic acid	mg/kg	49	0	0%	--	--	--	1.6	1.8
	p-Nitroaniline	mg/kg	49	0	0%	--	--	--	1.6	1.8
	Pyrene	mg/kg	49	0	0%	--	--	--	0.33	0.38
	Pyridine	mg/kg	49	0	0%	--	--	--	0.66	0.76
VOCs	1,1,1,2-Tetrachloroethane	mg/kg	49	0	0%	--	--	--	0.005	0.0057
	1,1,1-Trichloroethane	mg/kg	49	0	0%	--	--	--	0.005	0.0057
	1,1,2,2-Tetrachloroethane	mg/kg	49	0	0%	--	--	--	0.005	0.0057
	1,1,2-Trichloroethane	mg/kg	49	0	0%	--	--	--	0.005	0.0057
	1,1-Dichloroethane	mg/kg	49	0	0%	--	--	--	0.005	0.0057
	1,1-Dichloroethylene	mg/kg	49	0	0%	--	--	--	0.005	0.0057
	1,1-Dichloropropene	mg/kg	49	0	0%	--	--	--	0.005	0.0057
	1,2,3-Trichlorobenzene	mg/kg	49	2	4%	0.00098	0.0017	TSB-CR-01 @ 10	0.005	0.0057
	1,2,3-Trichloropropane	mg/kg	49	0	0%	--	--	--	0.005	0.0057
	1,2,4-Trichlorobenzene	mg/kg	49	4	8%	0.0012	0.014	TSB-CR-01 @ 10	0.005	0.0057
	1,2,4-Trimethylbenzene	mg/kg	49	4	8%	0.0021	0.0045	TSB-CR-01 @ 0	0.005	0.0057
	1,2-Dibromo-3-chloropropane (DBC)	mg/kg	49	0	0%	--	--	--	0.01	0.011
	1,2-Dichlorobenzene	mg/kg	49	1	2%	0.00036	0.00036	TSB-CJ-01 @ 10	0.005	0.0057
	1,2-Dichloroethane	mg/kg	49	0	0%	--	--	--	0.005	0.0057
	1,2-Dichloroethylene	mg/kg	49	0	0%	--	--	--	0.01	0.011
	1,2-Dichloropropane	mg/kg	49	0	0%	--	--	--	0.005	0.0057
	1,3,5-Trichlorobenzene	mg/kg	49	0	0%	--	--	--	0.005	0.0057
	1,3,5-Trimethylbenzene	mg/kg	49	5	10%	0.00029	0.0019	TSB-CR-01 @ 0	0.005	0.0057
	1,3-Dichlorobenzene	mg/kg	49	3	6%	0.00034	0.0008	TSB-CR-01 @ 0	0.005	0.0057
	1,3-Dichloropropane	mg/kg	49	0	0%	--	--	--	0.005	0.0057
	1,4-Dichlorobenzene	mg/kg	49	3	6%	0.00027	0.00051	TSB-CR-01 @ 0	0.005	0.0057
	1-Nonanal	mg/kg	49	0	0%	--	--	--	0.01	0.011
	2,2,3-Trimethylbutane	mg/kg	49	0	0%	--	--	--	0.005	0.0057
	2,2-Dichloropropane	mg/kg	49	0	0%	--	--	--	0.005	0.0057
	2,2-Dimethylpentane	mg/kg	49	0	0%	--	--	--	0.005	0.0057
	2,3-Dimethylpentane	mg/kg	49	0	0%	--	--	--	0.005	0.0057
	2,4-Dimethylpentane	mg/kg	49	0	0%	--	--	--	0.02	0.023
	2-Chlorotoluene	mg/kg	49	0	0%	--	--	--	0.005	0.0057
	2-Nitropropane	mg/kg	49	0	0%	--	--	--	0.01	0.011
	2-Phenylbutane	mg/kg	49	0	0%	--	--	--	0.005	0.0057
	3,3-dimethylpentane	mg/kg	49	0	0%	--	--	--	0.01	0.011
	3-ethylpentane	mg/kg	49	0	0%	--	--	--	0.005	0.0057
	3-Methylhexane	mg/kg	49	0	0%	--	--	--	0.005	0.0057
	4-Chlorotoluene	mg/kg	49	0	0%	--	--	--	0.005	0.0057

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SOIL DATA AND SCREENING-LEVEL RISK ASSESSMENT RESULTS SUMMARY
TRONOX PARCELS C/D INVESTIGATION
CLARK COUNTY, NEVADA
(Page 6 of 21)

Parameter of Interest	Chemical	Result Unit	Total Count	Detect Count	Detect Frequency	Min. Detect ^a	Max. Detect ^a	Location of Max. Detect	Min. Non-Detect Limit ^b	Max. Non-Detect Limit ^b
VOCs	Acetone	mg/kg	49	9	18%	0.0066	0.79	TSB-DR-01 @ 0	0.02	0.023
	Acetonitrile	mg/kg	49	0	0%	--	--	--	0.05	0.057
	Benzene	mg/kg	49	0	0%	--	--	--	0.005	0.0057
	Bromobenzene	mg/kg	49	0	0%	--	--	--	0.005	0.0057
	Bromodichloromethane	mg/kg	49	0	0%	--	--	--	0.005	0.0057
	Bromomethane	mg/kg	49	0	0%	--	--	--	0.01	0.011
	Carbon disulfide	mg/kg	49	0	0%	--	--	--	0.005	0.0057
	Carbon tetrachloride	mg/kg	49	0	0%	--	--	--	0.005	0.0057
	CFC-11	mg/kg	49	0	0%	--	--	--	0.005	0.0057
	CFC-12	mg/kg	49	0	0%	--	--	--	0.01	0.011
	Chlorinated fluorocarbon (Freon 113)	mg/kg	48	0	0%	--	--	--	0.005	0.0057
	Chlorobenzene	mg/kg	49	0	0%	--	--	--	0.005	0.0057
	Chlorobromomethane	mg/kg	48	0	0%	--	--	--	0.005	0.0057
	Chlorodibromomethane	mg/kg	49	0	0%	--	--	--	0.005	0.0057
	Chloroethane	mg/kg	49	0	0%	--	--	--	0.01	0.011
	Chloroform	mg/kg	49	5	10%	0.00056	0.0023	TSB-CJ-01 @ 10	0.005	0.0057
	Chloromethane	mg/kg	49	0	0%	--	--	--	0.01	0.011
	cis-1,2-Dichloroethylene	mg/kg	49	0	0%	--	--	--	0.005	0.0057
	cis-1,3-Dichloropropylene	mg/kg	49	0	0%	--	--	--	0.005	0.0057
	Cymene	mg/kg	48	0	0%	--	--	--	0.005	0.0057
	Dibromomethane	mg/kg	49	0	0%	--	--	--	0.005	0.0057
	Dichloromethane	mg/kg	48	0	0%	--	--	--	0.005	0.0057
	Ethanol	mg/kg	49	0	0%	--	--	--	0.25	0.29
	Ethylbenzene	mg/kg	49	3	6%	0.00037	0.0022	TSB-CR-01 @ 0	0.005	0.0057
	Hexane, 2-methyl-	mg/kg	49	0	0%	--	--	--	0.005	0.0057
	Isopropylbenzene	mg/kg	49	1	2%	0.00029	0.00029	TSB-CR-01 @ 0	0.005	0.0057
	m,p-Xylene	mg/kg	49	7	14%	0.00087	0.011	TSB-CR-01 @ 0	0.005	0.0057
	Methyl disulfide	mg/kg	49	0	0%	--	--	--	0.005	0.0057
	Methyl ethyl ketone	mg/kg	48	1	2%	0.011	0.011	TSB-CJ-06 @ 0	0.02	0.023
	Methyl iodide	mg/kg	49	0	0%	--	--	--	0.005	0.0057
	Methyl isobutyl ketone	mg/kg	49	0	0%	--	--	--	0.02	0.023
	Methyl n-butyl ketone	mg/kg	49	0	0%	--	--	--	0.02	0.023
	MTBE (Methyl tert-butyl ether)	mg/kg	49	0	0%	--	--	--	0.005	0.0057
	n-Butyl benzene	mg/kg	49	0	0%	--	--	--	0.005	0.0057
	n-Heptane	mg/kg	49	0	0%	--	--	--	0.005	0.0057
	n-Propyl benzene	mg/kg	49	2	4%	0.001	0.001	TSB-CR-01 @ 0	0.005	0.0057
	o-Xylene	mg/kg	49	3	6%	0.00047	0.0041	TSB-CR-01 @ 0	0.005	0.0057
	Styrene (monomer)	mg/kg	49	0	0%	--	--	--	0.005	0.0057
	tert-Butyl benzene	mg/kg	49	0	0%	--	--	--	0.005	0.0057
	Tetrachloroethylene	mg/kg	49	2	4%	0.001	0.0027	TSB-CR-01 @ 0	0.005	0.0057
	Toluene	mg/kg	49	2	4%	0.00051	0.00056	TSB-CR-06 @ 0	0.005	0.0057

TABLE 1
SOIL DATA AND SCREENING-LEVEL RISK ASSESSMENT RESULTS SUMMARY
TRONOX PARCELS C/D INVESTIGATION
CLARK COUNTY, NEVADA
(Page 7 of 21)

Parameter of Interest	Chemical	Result Unit	Total Count	Detect Count	Detect Frequency	Min. Detect ^a	Max. Detect ^a	Location of Max. Detect	Min. Non-Detect Limit ^b	Max. Non-Detect Limit ^b
VOCs	trans-1,2-Dichloroethylene	mg/kg	49	0	0%	--	--	--	0.005	0.0057
	trans-1,3-Dichloropropylene	mg/kg	49	0	0%	--	--	--	0.005	0.0057
	Tribromomethane	mg/kg	49	0	0%	--	--	--	0.005	0.0057
	Trichloroethylene	mg/kg	49	0	0%	--	--	--	0.005	0.0057
	Vinyl acetate	mg/kg	49	0	0%	--	--	--	0.005	0.0057
	Vinyl chloride	mg/kg	49	0	0%	--	--	--	0.005	0.0057
	Xylenes (total)	mg/kg	49	5	10%	0.0014	0.015	TSB-CR-01 @ 0	0.01	0.011

a - Range of detections include estimated values of detect results between the detection limit and reporting limit. As such some minimum detected concentrations may be below the minimum reporting limit. In these cases the respective sample results are flagged in the data set.

b - The quantitation limits shown include samples which had detections. For screening purposes, the detection limit was used for comparison to the screening levels.

c - From USEPA Region 9 preliminary remediation goals (PRG) table, Oct. 2004 (and the 2007 USEPA radionuclide PRG webpage; <http://epa-prgs.ornl.gov/radionuclides>). Values used are industrial soil PRGs. Several chemicals have both cancer and non-cancer toxicity criteria. For these chemicals USEPA calculates PRGs for both cancer and non-cancer endpoints; however only the lower value is published in its PRG table. The other value is included in a separate spreadsheet table. This other value is shown on this table as the 'Secondary Industrial PRG' and is included in the screening-level risk assessment calculations.

d - Values used are the maximum from the shallow soils background dataset presented in the Background Shallow Soil Summary Report, BMI Complex and Common Area Vicinity (BRC/TIMET 2007).

e - Based on results of statistical comparison tests performed between shallow background and site datasets (see Table _).

f - Non-cancer hazard indices were calculated by dividing the maximum detected value (or maximum non-detect limit, if higher) by its PRG (or secondary PRG). The total non-cancer hazard index is the sum of all chemical-specific hazard indices.

g - Theoretical upper-bound incremental lifetime cancer risks were calculated by dividing the maximum detected value (or maximum non-detect limit, if higher) by its PRG (or secondary PRG) times 1E-6. The total incremental lifetime cancer risk is the sum of all chemical-specific cancer risks.

h - Agency for Toxic Substances and Disease Registry (ATSDR) action level of 1.0 parts per billion (ppb).

i - Asbestos results shown are for long protocol structures (>10um).

TABLE 1
SOIL DATA AND SCREENING-LEVEL RISK ASSESSMENT RESULTS SUMMARY
TRONOX PARCELS C/D INVESTIGATION
CLARK COUNTY, NEVADA
(Page 8 of 21)

Parameter of Interest	Chemical	Result Unit	Max. Detect ^a	Industrial PRG ^c	PRG Basis	Secondary Industrial PRG ^c	Count of Detects > PRG	SSL (DAF = 20) ^c	Count of Detects > SSL (20)	SSL (DAF = 1) ^c	Count of Detects > SSL (1)
Dioxins/Furans	TCDD TEQ ^b	pg/g	1521	1000	ca	--	1	--	--	--	--
Asbestos ⁱ	Chrysotile	Structures	7	--	--	--	--	--	--	--	--
	Amphibole	Structures	1	--	--	--	--	--	--	--	--
General Chemistry	Bromide	mg/kg	7.3	--	--	--	--	--	--	--	--
	Bromine	mg/kg	14.6	--	--	--	--	--	--	--	--
	Chlorate	mg/kg	12.2	--	--	--	--	--	--	--	--
	Chloride	mg/kg	1870	--	--	--	--	--	--	--	--
	Chlorine	mg/kg	3730	--	--	--	--	--	--	--	--
	Chlorite	mg/kg	--	--	--	--	--	--	--	--	--
	Fluoride	mg/kg	4.5	36938	nc	--	0	--	--	--	--
	Nitrate (as N)	mg/kg	43.3	--	--	--	--	--	--	--	--
	Nitrite (as N)	mg/kg	--	--	--	--	--	--	--	--	--
	Orthophosphate as P	mg/kg	--	--	--	--	--	--	--	--	--
	Perchlorate	mg/kg	28.3	102	nc	--	0	--	--	--	--
	Sulfate	mg/kg	16700	--	--	--	--	--	--	--	--
Metals	Aluminum	mg/kg	10800	100000	max	--	0	--	--	--	--
	Antimony	mg/kg	0.32	409	nc	--	0	5	0	0.3	1
	Arsenic	mg/kg	8	1.6	ca	256	48	29	0	1	49
	Barium	mg/kg	340	66577	nc	--	0	1600	0	82	49
	Beryllium	mg/kg	0.68	1941	ca	2241	0	63	0	3	0
	Boron	mg/kg	22.6	100000	max	--	0	--	--	--	--
	Cadmium	mg/kg	0.25	451	nc	2989	0	8	0	0.4	0
	Calcium	mg/kg	91900	--	--	--	--	--	--	--	--
	Chromium (Total)	mg/kg	17.8	100000	nc	--	0	--	--	--	--
	Chromium (VI)	mg/kg	1.3	64	ca	2540	0	38	0	2	0
	Cobalt	mg/kg	8.2	1921	ca	13330	0	--	--	--	--
	Copper	mg/kg	27.4	40877	nc	--	0	--	--	--	--
	Iron	mg/kg	15500	100000	max	--	0	--	--	--	--
	Lead	mg/kg	29.4	800	nc	--	0	--	--	--	--
	Lithium	mg/kg	23.6	20439	--	--	0	--	--	--	--
	Magnesium	mg/kg	14600	--	--	--	--	--	--	--	--
	Manganese	mg/kg	841	19458	nc	--	0	--	--	--	--
	Mercury	mg/kg	0.0215	307	nc	--	0	--	--	--	--
	Molybdenum	mg/kg	1.1	5110	nc	--	0	--	--	--	--
	Nickel	mg/kg	18.5	20439	nc	--	0	130	0	7	48
	Niobium	mg/kg	4.2	--	--	--	--	--	--	--	--
	Palladium	mg/kg	0.9	--	--	--	--	--	--	--	--
	Phosphorus (as P)	mg/kg	1640	--	--	--	--	--	--	--	--
	Platinum	mg/kg	--	--	--	--	--	--	--	--	--
	Potassium	mg/kg	4480	--	--	--	--	--	--	--	--
	Selenium	mg/kg	--	5110	nc	--	--	5	--	0.3	--

TABLE 1
SOIL DATA AND SCREENING-LEVEL RISK ASSESSMENT RESULTS SUMMARY
TRONOX PARCELS C/D INVESTIGATION
CLARK COUNTY, NEVADA
(Page 9 of 21)

TABLE 1
SOIL DATA AND SCREENING-LEVEL RISK ASSESSMENT RESULTS SUMMARY
TRONOX PARCELS C/D INVESTIGATION
CLARK COUNTY, NEVADA
(Page 10 of 21)

Parameter of Interest	Chemical	Result Unit	Max. Detect ^a	Industrial PRG ^c	PRG Basis	Secondary Industrial PRG ^c	Count of Detects > PRG	SSL (DAF = 20) ^c	Count of Detects > SSL (20)	SSL (DAF = 1) ^c	Count of Detects > SSL (1)
Radionuclides	Radium-226	pCi/g	1.15	0.026	ca	--	49	0.32	49	0.016	49
	Radium-228	pCi/g	2.13	0.15	ca	--	49	1.2	49	0.059	49
	Thorium-228	pCi/g	2.26	0.26	ca	--	48	66	0	3.3	0
	Thorium-230	pCi/g	2.17	20	ca	--	0	6.1	0	0.3	48
	Thorium-232	pCi/g	2.15	19	ca	--	0	6.1	0	0.3	48
	Uranium-233/234	pCi/g	2.26	32	ca	--	0	2240	0	112	0
	Uranium-235/236	pCi/g	0.0782	0.4	ca	--	0	0.78	0	0.039	23
	Uranium-238	pCi/g	1.87	1.8	ca	--	1	0.12	49	0.006	49
SVOCs	1,2,4,5-Tetrachlorobenzene	mg/kg	--	185	nc	--	--	--	--	--	--
	1,2-Diphenylhydrazine	mg/kg	--	2.2	ca	--	--	--	--	--	--
	1,4-Dioxane	mg/kg	--	157	ca	--	--	--	--	--	--
	2,2'-/4,4'-Dichlorobenzil	mg/kg	--	--	--	--	--	--	--	--	--
	2,4,5-Trichlorophenol	mg/kg	--	61561	nc	--	--	270	--	14	--
	2,4,6-Trichlorophenol	mg/kg	--	62	nc	157	--	0.2	--	0.008	--
	2,4-Dichlorophenol	mg/kg	--	1847	nc	--	--	1	--	0.05	--
	2,4-Dimethylphenol	mg/kg	--	12312	nc	--	--	9	--	0.4	--
	2,4-Dinitrophenol	mg/kg	--	1231	nc	--	--	0.3	--	0.01	--
	2,4-Dinitrotoluene	mg/kg	--	1231	nc	--	--	0.0008	--	4E-05	--
	2,6-Dinitrotoluene	mg/kg	--	615	nc	--	--	0.0007	--	0.00003	--
	2-Chloronaphthalene	mg/kg	--	23383	nc	--	--	--	--	--	--
	2-Chlorophenol	mg/kg	--	236	nc	--	--	4	--	0.2	--
	2-Methylnaphthalene	mg/kg	--	--	--	--	--	--	--	--	--
	2-Nitroaniline	mg/kg	--	1830	nc	--	--	--	--	--	--
	2-Nitrophenol	mg/kg	--	--	--	--	--	--	--	--	--
	3,3'-Dichlorobenzidine	mg/kg	--	3.8	ca	--	--	0.007	--	0.0003	--
	3-Methylphenol & 4-Methylphenol	mg/kg	--	--	--	--	--	--	--	--	--
	3-Nitroaniline	mg/kg	--	82	ca	185	--	--	--	--	--
	4-Bromophenyl phenyl ether	mg/kg	--	--	--	--	--	--	--	--	--
	4-Chloro-3-Methylphenol	mg/kg	--	--	--	--	--	--	--	--	--
	4-Chlorophenyl phenyl ether	mg/kg	--	--	--	--	--	--	--	--	--
	4-Chlorothioanisole	mg/kg	--	--	--	--	--	--	--	--	--
	4-Nitrophenol	mg/kg	--	--	--	--	--	--	--	--	--
	Acenaphthene	mg/kg	--	29219	nc	--	--	570	--	29	--
	Acenaphthylene	mg/kg	--	--	--	--	--	--	--	--	--
	Acetophenone	mg/kg	--	--	--	--	--	--	--	--	--
	Aniline	mg/kg	--	302	ca	4300	--	--	--	--	--
	Anthracene	mg/kg	--	100000	max	--	--	12000	--	590	--
	Azobenzene	mg/kg	--	16	ca	--	--	--	--	--	--
	Benzanethiol	mg/kg	--	--	--	--	--	--	--	--	--
	Benzo(a)anthracene	mg/kg	--	2.1	ca	--	--	2	--	0.08	--
	Benzo(a)pyrene	mg/kg	--	0.21	ca	--	--	8	--	0.4	--

TABLE 1
SOIL DATA AND SCREENING-LEVEL RISK ASSESSMENT RESULTS SUMMARY
TRONOX PARCELS C/D INVESTIGATION
CLARK COUNTY, NEVADA
(Page 11 of 21)

TABLE 1
SOIL DATA AND SCREENING-LEVEL RISK ASSESSMENT RESULTS SUMMARY
TRONOX PARCELS C/D INVESTIGATION
CLARK COUNTY, NEVADA
(Page 12 of 21)

TABLE 1
SOIL DATA AND SCREENING-LEVEL RISK ASSESSMENT RESULTS SUMMARY
TRONOX PARCELS C/D INVESTIGATION
CLARK COUNTY, NEVADA
(Page 13 of 21)

Parameter of Interest	Chemical	Result Unit	Max. Detect ^a	Industrial PRG ^c	PRG Basis	Secondary Industrial PRG ^c	Count of Detects > PRG	SSL (DAF = 20) ^c	Count of Detects > SSL (20)	SSL (DAF = 1) ^c	Count of Detects > SSL (1)
VOCs	Acetone	mg/kg	0.79	54321	nc	--	0	16	0	0.8	0
	Acetonitrile	mg/kg	--	1818	nc	--	--	--	--	--	--
	Benzene	mg/kg	--	1.4	ca	117	--	0.03	--	0.002	--
	Bromobenzene	mg/kg	--	92	nc	--	--	--	--	--	--
	Bromodichloromethane	mg/kg	--	1.8	ca	811	--	0.6	--	0.03	--
	Bromomethane	mg/kg	--	13	nc	--	--	0.2	--	0.01	--
	Carbon disulfide	mg/kg	--	720	sat	--	--	32	--	2	--
	Carbon tetrachloride	mg/kg	--	0.55	ca	7.3	--	0.07	--	0.003	--
	CFC-11	mg/kg	--	2000	sat	--	--	--	--	--	--
	CFC-12	mg/kg	--	308	nc	--	--	--	--	--	--
	Chlorinated fluorocarbon (Freon 113)	mg/kg	--	5600	sat	--	--	--	--	--	--
	Chlorobenzene	mg/kg	--	530	nc	--	--	1	--	0.07	--
	Chlorobromomethane	mg/kg	--	--	--	--	--	--	--	--	--
	Chlorodibromomethane	mg/kg	--	2.6	ca	1533	--	0.4	--	0.02	--
	Chloroethane	mg/kg	--	6.5	ca	18447	--	--	--	--	--
	Chloroform	mg/kg	0.0023	0.47	ca	187	0	0.6	0	0.03	0
	Chloromethane	mg/kg	--	156	nc	--	--	--	--	--	--
	cis-1,2-Dichloroethylene	mg/kg	--	146	nc	--	--	0.4	--	0.02	--
	cis-1,3-Dichloropropylene	mg/kg	--	1.8	ca	--	--	0.004	--	0.0002	--
	Cymene	mg/kg	--	--	--	--	--	--	--	--	--
	Dibromomethane	mg/kg	--	234	nc	--	--	--	--	--	--
	Dichloromethane	mg/kg	--	20.5	ca	--	--	0.02	--	0.001	--
	Ethanol	mg/kg	--	--	--	--	--	--	--	--	--
	Ethylbenzene	mg/kg	0.0022	395	sat	--	0	13	0	0.7	0
	Hexane, 2-methyl-	mg/kg	--	--	--	--	--	--	--	--	--
	Isopropylbenzene	mg/kg	0.00029	1978	nc	--	0	--	--	--	--
	m,p-Xylene	mg/kg	0.011	--	--	--	--	--	--	--	--
	Methyl disulfide	mg/kg	--	--	--	--	--	--	--	--	--
	Methyl ethyl ketone	mg/kg	0.011	113264	nc	--	0	--	--	--	--
	Methyl iodide	mg/kg	--	--	--	--	--	--	--	--	--
	Methyl isobutyl ketone	mg/kg	--	47001	nc	--	--	--	--	--	--
	Methyl n-butyl ketone	mg/kg	--	--	--	--	--	--	--	--	--
	MTBE (Methyl tert-butyl ether)	mg/kg	--	70	ca	20073	--	--	--	--	--
	n-Butyl benzene	mg/kg	--	240	sat	--	--	--	--	--	--
	n-Heptane	mg/kg	--	--	--	--	--	--	--	--	--
	n-Propyl benzene	mg/kg	0.001	240	sat	--	0	--	--	--	--
	o-Xylene	mg/kg	0.0041	--	--	--	--	--	--	--	--
	Styrene (monomer)	mg/kg	--	1700	sat	--	--	4	--	0.2	--
	tert-Butyl benzene	mg/kg	--	390	sat	--	--	--	--	--	--
	Tetrachloroethylene	mg/kg	0.0027	1.3	ca	129	0	0.06	0	0.003	0
	Toluene	mg/kg	0.00056	520	sat	--	0	12	0	0.6	0

TABLE 1
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TRONOX PARCELS C/D INVESTIGATION
CLARK COUNTY, NEVADA
(Page 14 of 21)

Parameter of Interest	Chemical	Result Unit	Max. Detect ^a	Industrial PRG ^c	PRG Basis	Secondary Industrial PRG ^c	Count of Detects > PRG	SSL (DAF = 20) ^c	Count of Detects > SSL (20)	SSL (DAF = 1) ^c	Count of Detects > SSL (1)
VOCs	trans-1,2-Dichloroethylene	mg/kg	--	235	nc	--	--	0.7	--	0.03	--
	trans-1,3-Dichloropropylene	mg/kg	--	1.8	ca	--	--	0.004	--	0.0002	--
	Tribromomethane	mg/kg	--	218	ca	12312	--	0.8	--	0.04	--
	Trichloroethylene	mg/kg	--	6.5	ca	108	--	0.06	--	0.003	--
	Vinyl acetate	mg/kg	--	1396	nc	--	--	170	--	8	--
	Vinyl chloride	mg/kg	--	0.75	ca	144	--	0.01	--	0.0007	--
	Xylenes (total)	mg/kg	0.015	420	sat	--	0	210	0	10	0

a - Range of detections include estimated values of detect results between the detection limit and reporting limit. As such some minimum detected concentrations may be below the minimum reporting limit. In these cases the respective sample results are flagged in the data set.

b - The quantitation limits shown include samples which had detections. For screening purposes, the detection limit was used for comparison to the screening levels.

c - From USEPA Region 9 preliminary remediation goals (PRG) table, Oct. 2004 (and the 2007 USEPA radionuclide PRG webpage; <http://epa-prgs.ornl.gov/radionuclides>). Values used are industrial soil PRGs. Several chemicals have both cancer and non-cancer toxicity criteria. For these chemicals USEPA calculates PRGs for both cancer and non-cancer endpoints; however only the lower value is published in its PRG table. The other value is included in a separate spreadsheet table. This other value is shown on this table as the 'Secondary Industrial PRG' and is included in the screening-level risk assessment calculations.

d - Values used are the maximum from the shallow soils background dataset presented in the Background Shallow Soil Summary Report, BMI Complex and Common Area Vicinity (BRC/TIMET 2007).

e - Based on results of statistical comparison tests performed between shallow background and site datasets (see Table ...).

f - Non-cancer hazard indices were calculated by dividing the maximum detected value (or maximum non-detect limit, if higher) by its PRG (or secondary PRG). The total non-cancer hazard index is the sum of all chemical-specific hazard indices.

g - Theoretical upper-bound incremental lifetime cancer risks were calculated by dividing the maximum detected value (or maximum non-detect limit, if higher) by its PRG (or secondary PRG) times 1E-6. The total incremental lifetime cancer risk is the sum of all chemical-specific cancer risks.

h - Agency for Toxic Substances and Disease Registry (ATSDR) action level of 1.0 parts per billion (ppb).

i - Asbestos results shown are for long protocol structures (>10um).

TABLE 1
SOIL DATA AND SCREENING-LEVEL RISK ASSESSMENT RESULTS SUMMARY
TRONOX PARCELS C/D INVESTIGATION
CLARK COUNTY, NEVADA
(Page 15 of 21)

Parameter of Interest	Chemical	Result Unit	Max. Detect ^a	Max. Bkgrd ^d	Count of Detects > Bkgrd	Above Bkgrd? ^e	Industrial PRG ^c	PRG Basis	Secondary Industrial PRG ^c	Non-Cancer Hazard Index ^f	Incremental Lifetime Cancer Risk ^g
Dioxins/Furans	TCDD TEQ ^h	pg/g	1521	--	--	--	1000	ca	--	--	2 E-6
Asbestos ⁱ	Chrysotile	Structures	7	--	--	--	--	--	--	--	See Asbestos Risk Calc. Table
	Amphibole	Structures	1	--	--	--	--	--	--	--	
General Chemistry	Bromide	mg/kg	7.3	--	--	--	--	--	--	--	--
	Bromine	mg/kg	14.6	--	--	--	--	--	--	--	--
	Chlorate	mg/kg	12.2	--	--	--	--	--	--	--	--
	Chloride	mg/kg	1870	1110	10	--	--	--	--	--	--
	Chlorine	mg/kg	3730	--	--	--	--	--	--	--	--
	Chlorite	mg/kg	--	--	--	--	--	--	--	--	--
	Fluoride	mg/kg	4.5	2.5	1	--	36938	nc	--	0.00012	--
	Nitrate (as N)	mg/kg	43.3	102	0	--	--	--	--	--	--
	Nitrite (as N)	mg/kg	--	0.21	--	--	--	--	--	--	--
	Orthophosphate as P	mg/kg	--	--	--	--	--	--	--	--	--
	Perchlorate	mg/kg	28.3	--	--	--	102	nc	--	0.28	--
	Sulfate	mg/kg	16700	4130	4	--	--	--	--	--	--
Metals	Aluminum	mg/kg	10800	15300	0	No	100000	max	--	--	--
	Antimony	mg/kg	0.32	0.5	0	No	409	nc	--	--	--
	Arsenic	mg/kg	8	7.2	3	No	1.6	ca	256	--	--
	Barium	mg/kg	340	836	0	No	66577	nc	--	--	--
	Beryllium	mg/kg	0.68	0.89	0	No	1941	ca	2241	--	--
	Boron	mg/kg	22.6	11.6	5	Yes	100000	max	--	0.00011	--
	Cadmium	mg/kg	0.25	0.16	1	No	451	nc	2989	--	--
	Calcium	mg/kg	91900	82800	1	No	--	--	--	--	--
	Chromium (Total)	mg/kg	17.8	16.7	1	No	100000	nc	--	--	--
	Chromium (VI)	mg/kg	1.3	0.251	1	Yes	64	ca	2540	0.00051	2 E-8
	Cobalt	mg/kg	8.2	16.3	0	No	1921	ca	13330	--	--
	Copper	mg/kg	27.4	30.5	0	No	40877	nc	--	--	--
	Iron	mg/kg	15500	19700	0	No	100000	max	--	--	--
	Lead	mg/kg	29.4	35.1	0	No	800	nc	--	--	--
	Lithium	mg/kg	23.6	26.5	0	No	20439	--	--	--	--
	Magnesium	mg/kg	14600	17500	0	No	--	--	--	--	--
	Manganese	mg/kg	841	1090	0	No	19458	nc	--	--	--
	Mercury	mg/kg	0.0215	0.11	0	No	307	nc	--	--	--
	Molybdenum	mg/kg	1.1	2	0	No	5110	nc	--	--	--
	Nickel	mg/kg	18.5	30	0	No	20439	nc	--	--	--
	Niobium	mg/kg	4.2	2.8	1	Yes	--	--	--	--	--
	Palladium	mg/kg	0.9	1.5	0	No	--	--	--	--	--
	Phosphorus (as P)	mg/kg	1640	--	--	No	--	--	--	--	--
	Platinum	mg/kg	--	0.099	--	No	--	--	--	--	--
	Potassium	mg/kg	4480	3890	2	Yes	--	--	--	--	--
	Selenium	mg/kg	--	0.6	--	No	5110	nc	--	--	--

TABLE 1
SOIL DATA AND SCREENING-LEVEL RISK ASSESSMENT RESULTS SUMMARY
TRONOX PARCELS C/D INVESTIGATION
CLARK COUNTY, NEVADA
(Page 16 of 21)

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SOIL DATA AND SCREENING-LEVEL RISK ASSESSMENT RESULTS SUMMARY
TRONOX PARCELS C/D INVESTIGATION
CLARK COUNTY, NEVADA
(Page 17 of 21)

Parameter of Interest	Chemical	Result Unit	Max. Detect ^a	Max. Bkgrd ^d	Count of Detects > Bkgrd	Above Bkgrd? ^e	Industrial PRG ^c	PRG Basis	Secondary Industrial PRG ^c	Non-Cancer Hazard Index ^f	Incremental Lifetime Cancer Risk ^g
Radionuclides	Radium-226	pCi/g	1.15	2.36	0	No	0.026	ca	--	--	--
	Radium-228	pCi/g	2.13	2.94	0	No	0.15	ca	--	--	--
	Thorium-228	pCi/g	2.26	2.28	0	No	0.26	ca	--	--	--
	Thorium-230	pCi/g	2.17	3.01	0	No	20	ca	--	--	--
	Thorium-232	pCi/g	2.15	2.23	0	No	19	ca	--	--	--
	Uranium-233/234	pCi/g	2.26	2.84	0	Yes	32	ca	--	--	7 E-8
	Uranium-235/236	pCi/g	0.0782	0.21	0	No	0.4	ca	--	--	--
	Uranium-238	pCi/g	1.87	2.37	0	No	1.8	ca	--	--	--
SVOCs	1,2,4,5-Tetrachlorobenzene	mg/kg	--	--	--	--	185	nc	--	--	--
	1,2-Diphenylhydrazine	mg/kg	--	--	--	--	2.2	ca	--	--	--
	1,4-Dioxane	mg/kg	--	--	--	--	157	ca	--	--	--
	2,2'-/4,4'-Dichlorobenzil	mg/kg	--	--	--	--	--	--	--	--	--
	2,4,5-Trichlorophenol	mg/kg	--	--	--	--	61561	nc	--	--	--
	2,4,6-Trichlorophenol	mg/kg	--	--	--	--	62	nc	157	--	--
	2,4-Dichlorophenol	mg/kg	--	--	--	--	1847	nc	--	--	--
	2,4-Dimethylphenol	mg/kg	--	--	--	--	12312	nc	--	--	--
	2,4-Dinitrophenol	mg/kg	--	--	--	--	1231	nc	--	--	--
	2,4-Dinitrotoluene	mg/kg	--	--	--	--	1231	nc	--	--	--
	2,6-Dinitrotoluene	mg/kg	--	--	--	--	615	nc	--	--	--
	2-Chloronaphthalene	mg/kg	--	--	--	--	23383	nc	--	--	--
	2-Chlorophenol	mg/kg	--	--	--	--	236	nc	--	--	--
	2-Methylnaphthalene	mg/kg	--	--	--	--	--	--	--	--	--
	2-Nitroaniline	mg/kg	--	--	--	--	1830	nc	--	--	--
	2-Nitrophenol	mg/kg	--	--	--	--	--	--	--	--	--
	3,3'-Dichlorobenzidine	mg/kg	--	--	--	--	3.8	ca	--	--	--
	3-Methylphenol & 4-Methylphenol	mg/kg	--	--	--	--	--	--	--	--	--
	3-Nitroaniline	mg/kg	--	--	--	--	82	ca	185	--	--
	4-Bromophenyl phenyl ether	mg/kg	--	--	--	--	--	--	--	--	--
	4-Chloro-3-Methylphenol	mg/kg	--	--	--	--	--	--	--	--	--
	4-Chlorophenyl phenyl ether	mg/kg	--	--	--	--	--	--	--	--	--
	4-Chlorothioanisole	mg/kg	--	--	--	--	--	--	--	--	--
	4-Nitrophenol	mg/kg	--	--	--	--	--	--	--	--	--
	Acenaphthene	mg/kg	--	--	--	--	29219	nc	--	--	--
	Acenaphthylene	mg/kg	--	--	--	--	--	--	--	--	--
	Acetophenone	mg/kg	--	--	--	--	--	--	--	--	--
	Aniline	mg/kg	--	--	--	--	302	ca	4300	--	--
	Anthracene	mg/kg	--	--	--	--	100000	max	--	--	--
	Azobenzene	mg/kg	--	--	--	--	16	ca	--	--	--
	Benzene-thiol	mg/kg	--	--	--	--	--	--	--	--	--
	Benzo(a)anthracene	mg/kg	--	--	--	--	2.1	ca	--	--	--
	Benzo(a)pyrene	mg/kg	--	--	--	--	0.21	ca	--	--	--

TABLE 1
SOIL DATA AND SCREENING-LEVEL RISK ASSESSMENT RESULTS SUMMARY
TRONOX PARCELS C/D INVESTIGATION
CLARK COUNTY, NEVADA
(Page 18 of 21)

TABLE 1
SOIL DATA AND SCREENING-LEVEL RISK ASSESSMENT RESULTS SUMMARY
TRONOX PARCELS C/D INVESTIGATION
CLARK COUNTY, NEVADA
(Page 19 of 21)

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SOIL DATA AND SCREENING-LEVEL RISK ASSESSMENT RESULTS SUMMARY
TRONOX PARCELS C/D INVESTIGATION
CLARK COUNTY, NEVADA
(Page 20 of 21)

Parameter of Interest	Chemical	Result Unit	Max. Detect ^a	Max. Bkgrd ^d	Count of Detects > Bkgrd	Above Bkgrd? ^e	Industrial PRG ^c	PRG Basis	Secondary Industrial PRG ^c	Non-Cancer Hazard Index ^f	Incremental Lifetime Cancer Risk ^g
VOCs	Acetone	mg/kg	0.79	--	--	--	54321	nc	--	0.000015	--
	Acetonitrile	mg/kg	--	--	--	--	1818	nc	--	--	--
	Benzene	mg/kg	--	--	--	--	1.4	ca	117	--	--
	Bromobenzene	mg/kg	--	--	--	--	92	nc	--	--	--
	Bromodichloromethane	mg/kg	--	--	--	--	1.8	ca	811	--	--
	Bromomethane	mg/kg	--	--	--	--	13	nc	--	--	--
	Carbon disulfide	mg/kg	--	--	--	--	720	sat	--	--	--
	Carbon tetrachloride	mg/kg	--	--	--	--	0.55	ca	7.3	--	--
	CFC-11	mg/kg	--	--	--	--	2000	sat	--	--	--
	CFC-12	mg/kg	--	--	--	--	308	nc	--	--	--
	Chlorinated fluorocarbon (Freon 113)	mg/kg	--	--	--	--	5600	sat	--	--	--
	Chlorobenzene	mg/kg	--	--	--	--	530	nc	--	--	--
	Chlorobromomethane	mg/kg	--	--	--	--	--	--	--	--	--
	Chlorodibromomethane	mg/kg	--	--	--	--	2.6	ca	1533	--	--
	Chloroethane	mg/kg	--	--	--	--	6.5	ca	18447	--	--
	Chloroform	mg/kg	0.0023	--	--	--	0.47	ca	187	0.00003	1 E-8
	Chloromethane	mg/kg	--	--	--	--	156	nc	--	--	--
	cis-1,2-Dichloroethylene	mg/kg	--	--	--	--	146	nc	--	--	--
	cis-1,3-Dichloropropylene	mg/kg	--	--	--	--	1.8	ca	--	--	--
	Cymene	mg/kg	--	--	--	--	--	--	--	--	--
	Dibromomethane	mg/kg	--	--	--	--	234	nc	--	--	--
	Dichloromethane	mg/kg	--	--	--	--	20.5	ca	--	--	--
	Ethanol	mg/kg	--	--	--	--	--	--	--	--	--
	Ethylbenzene	mg/kg	0.0022	--	--	--	395	sat	--	0.00000077	--
	Hexane, 2-methyl-	mg/kg	--	--	--	--	--	--	--	--	--
	Isopropylbenzene	mg/kg	0.00029	--	--	--	1978	nc	--	0.0000029	--
	m,p-Xylene	mg/kg	0.011	--	--	--	--	--	--	--	--
	Methyl disulfide	mg/kg	--	--	--	--	--	--	--	--	--
	Methyl ethyl ketone	mg/kg	0.011	--	--	--	113264	nc	--	0.0000002	--
	Methyl iodide	mg/kg	--	--	--	--	--	--	--	--	--
	Methyl isobutyl ketone	mg/kg	--	--	--	--	47001	nc	--	--	--
	Methyl n-butyl ketone	mg/kg	--	--	--	--	--	--	--	--	--
	MTBE (Methyl tert-butyl ether)	mg/kg	--	--	--	--	70	ca	20073	--	--
	n-Butyl benzene	mg/kg	--	--	--	--	240	sat	--	--	--
	n-Heptane	mg/kg	--	--	--	--	--	--	--	--	--
	n-Propyl benzene	mg/kg	0.001	--	--	--	240	sat	--	0.0000026	--
	o-Xylene	mg/kg	0.0041	--	--	--	--	--	--	--	--
	Styrene (monomer)	mg/kg	--	--	--	--	1700	sat	--	--	--
	tert-Butyl benzene	mg/kg	--	--	--	--	390	sat	--	--	--
	Tetrachloroethylene	mg/kg	0.0027	--	--	--	1.3	ca	129	0.000044	4 E-9
	Toluene	mg/kg	0.00056	--	--	--	520	sat	--	0.0000026	--

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TRONOX PARCELS C/D INVESTIGATION
CLARK COUNTY, NEVADA
(Page 21 of 21)

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VOCs	trans-1,2-Dichloroethylene	mg/kg	--	--	--	--	235	nc	--	--	--
	trans-1,3-Dichloropropylene	mg/kg	--	--	--	--	1.8	ca	--	--	--
	Tribromomethane	mg/kg	--	--	--	--	218	ca	12312	--	--
	Trichloroethylene	mg/kg	--	--	--	--	6.5	ca	108	--	--
	Vinyl acetate	mg/kg	--	--	--	--	1396	nc	--	--	--
	Vinyl chloride	mg/kg	--	--	--	--	0.75	ca	144	--	--
	Xylenes (total)	mg/kg	0.015	--	--	--	420	sat	--	0.000017	--
										Total Non-Cancer Hazard Index:	0.30
										Total Incremental Lifetime Cancer Risk - Non-Radionuclides:	2 E-6
										Total Incremental Lifetime Cancer Risk - Radionuclides:	7 E-8

a - Range of detections include estimated values of detect results between the detection limit and reporting limit. As such some minimum detected concentrations may be below the minimum reporting limit. In these cases the respective sample results are flagged in the data set.

b - The quantitation limits shown include samples which had detections. For screening purposes, the detection limit was used for comparison to the screening levels.

c - From USEPA Region 9 preliminary remediation goals (PRG) table, Oct. 2004 (and the 2007 USEPA radionuclide PRG webpage; <http://epa-prgs.ornl.gov/radionuclides>). Values used are industrial soil PRGs. Several chemicals have both cancer and non-cancer toxicity criteria. For these chemicals USEPA calculates PRGs for both cancer and non-cancer endpoints; however only the lower value is published in its PRG table. The other value is included in a separate spreadsheet table. This other value is shown on this table as the 'Secondary Industrial PRG' and is included in the screening-level risk assessment calculations.

d - Values used are the maximum from the shallow soils background dataset presented in the Background Shallow Soil Summary Report, BMI Complex and Common Area Vicinity (BRC/TIMET 2007).

e - Based on results of statistical comparison tests performed between shallow background and site datasets (see Table ...).

f - Non-cancer hazard indices were calculated by dividing the maximum detected value (or maximum non-detect limit, if higher) by its PRG (or secondary PRG). The total non-cancer hazard index is the sum of all chemical-specific hazard indices.

g - Theoretical upper-bound incremental lifetime cancer risks were calculated by dividing the maximum detected value (or maximum non-detect limit, if higher) by its PRG (or secondary PRG) times 1E-6. The total incremental lifetime cancer risk is the sum of all chemical-specific cancer risks.

h - Agency for Toxic Substances and Disease Registry (ATSDR) action level of 1.0 parts per billion (ppb).

i - Asbestos results shown are for long protocol structures (>10um).