

TABLE 1
SOIL DATA AND SCREENING-LEVEL RISK ASSESSMENT RESULTS SUMMARY
TRONOX PARCEL G INVESTIGATION
CLARK COUNTY, NEVADA
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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	11	6	55%	0.7	14	TSB-GJ-06 @ 0	--	--
Asbestos ⁱ	Chrysotile	Structures	10	4	40%	1	6	TSB-GJ-04	--	--
	Amphibole	Structures	10	1	10%	1	1	TSB-GJ-04	--	--
General Chemistry	Bromide	mg/kg	20	0	0%	--	--	--	2.5	2.7
	Bromine	mg/kg	20	0	0%	--	--	--	5	5.5
	Chlorate	mg/kg	20	12	60%	2.1	17.9	TSB-GR-02 @ 5	5	5.5
	Chloride	mg/kg	20	20	100%	3.6	1230	TSB-GR-02 @ 5	2.1	106
	Chlorine	mg/kg	20	20	100%	7.3	2470	TSB-GR-02 @ 5	4.1	213
	Chlorite	mg/kg	40	0	0%	--	--	--	0.2	0.2
	Fluoride	mg/kg	20	7	35%	0.38	2.3	TSB-GJ-05 @ 5	1	1.1
	Nitrate (as N)	mg/kg	20	20	100%	0.52	52	TSB-GR-02 @ 5	0.21	2.1
	Nitrite (as N)	mg/kg	0	0	--	--	--	--	--	--
	Orthophosphate as P	mg/kg	20	0	0%	--	--	--	5	5.5
	Perchlorate	mg/kg	20	20	100%	0.186	39.9	TSB-GJ-01 @ 0	0.0413	2.11
	Sulfate	mg/kg	20	20	100%	22.1	2620	TSB-GJ-07 @ 5	5.2	269
Metals	Aluminum	mg/kg	20	20	100%	6980	8790	TSB-GJ-06 @ 5	10.1	10.9
	Antimony	mg/kg	20	20	100%	0.16	0.25	TSB-GR-02 @ 0	1	1.1
	Arsenic	mg/kg	20	20	100%	2.4	4.8	TSB-GR-01 @ 5	2	2.2
	Barium	mg/kg	20	20	100%	144	206	TSB-GJ-07 @ 5	4	4.4
	Beryllium	mg/kg	20	20	100%	0.48	0.6	TSB-GR-02 @ 0	0.2	0.22
	Boron	mg/kg	20	0	0%	--	--	--	20.2	21.9
	Cadmium	mg/kg	20	5	25%	0.11	0.17	TSB-GJ-06 @ 0	0.1	0.11
	Calcium	mg/kg	20	20	100%	12700	50900	TSB-GJ-06 @ 0	101	109
	Chromium (Total)	mg/kg	20	20	100%	8.2	14.2	TSB-GJ-05 @ 0	2	2.2
	Chromium (VI)	mg/kg	20	0	0%	--	--	--	1	1
	Cobalt	mg/kg	20	20	100%	5.7	8.1	TSB-GJ-01 @ 0	0.4	0.44
	Copper	mg/kg	20	20	100%	12.5	19.5	TSB-GR-02 @ 5	2	2.2
	Iron	mg/kg	20	20	100%	10700	15200	TSB-GJ-05 @ 5	10.1	10.9
	Lead	mg/kg	20	20	100%	7.1	13.5	TSB-GJ-06 @ 0	0.61	0.66
	Lithium	mg/kg	20	20	100%	9.9	21.9	TSB-GJ-02 @ 0	10.1	10.9
	Magnesium	mg/kg	20	20	100%	7190	11900	TSB-GJ-07 @ 5	101	109
	Manganese	mg/kg	20	20	100%	252	711	TSB-GJ-06 @ 0	0.42	1.1
	Mercury	mg/kg	20	0	0%	--	--	--	0.0336	0.0365
	Molybdenum	mg/kg	20	6	30%	0.5	0.69	TSB-GJ-06 @ 0	1	1.1
	Nickel	mg/kg	20	20	100%	12.5	16.7	TSB-GJ-02 @ 0	1	1.1
	Niobium	mg/kg	20	1	5%	9.2	9.2	TSB-GR-02 @ 0	5	5.5
	Palladium	mg/kg	20	20	100%	0.29	0.79	TSB-GJ-07 @ 5	0.2	0.22
	Phosphorus (as P)	mg/kg	20	20	100%	613	1140	TSB-GJ-02 @ 0	101	109
	Platinum	mg/kg	20	0	0%	--	--	--	0.2	0.22
	Potassium	mg/kg	20	20	100%	1290	2630	TSB-GJ-06 @ 5	20.2	21.9
	Selenium	mg/kg	20	0	0%	--	--	--	1	1.1

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Metals	Silicon	mg/kg	20	20	100%	72.5	223	TSB-GJ-06 @ 0	50.4	54.7
	Silver	mg/kg	20	20	100%	0.084	0.22	TSB-GR-02 @ 5	0.4	0.44
	Sodium	mg/kg	20	20	100%	365	886	TSB-GJ-07 @ 5	40.4	43.8
	Strontium	mg/kg	20	20	100%	151	359	TSB-GJ-07 @ 5	1	1.1
	Sulfur	mg/kg	20	16	80%	442	1550	TSB-GJ-07 @ 5	1010	1090
	Thallium	mg/kg	20	0	0%	--	--	--	0.4	0.44
	Tin	mg/kg	20	20	100%	0.43	0.63	TSB-GR-02 @ 0	0.4	0.44
	Titanium	mg/kg	20	20	100%	442	737	TSB-GJ-05 @ 5	1	1.1
	Tungsten	mg/kg	20	0	0%	--	--	--	1	1.1
	Uranium	mg/kg	20	20	100%	0.8	1.7	TSB-GJ-07 @ 5	0.2	0.22
	Vanadium	mg/kg	20	20	100%	32.8	53.2	TSB-GJ-05 @ 5	2	2.2
	Zinc	mg/kg	20	20	100%	25.1	37.4	TSB-GJ-02 @ 5	4	4.4
Zirconium	mg/kg	20	20	100%	18	26.2	TSB-GJ-06 @ 0	20.2	21.9	
Organochlorine Pesticides	2,4-DDD	mg/kg	20	0	0%	--	--	--	0.0017	0.14
	2,4-DDE	mg/kg	20	3	15%	0.0018	0.042	TSB-GJ-04 @ 0	0.0017	0.14
	4,4-DDD	mg/kg	20	1	5%	0.002	0.002	TSB-GR-01 @ 5	0.0017	0.14
	4,4-DDE	mg/kg	20	11	55%	0.0019	0.91	TSB-GJ-04 @ 0	0.0017	0.18
	4,4-DDT	mg/kg	20	11	55%	0.0018	0.61	TSB-GJ-04 @ 0	0.0017	0.18
	Aldrin	mg/kg	20	0	0%	--	--	--	0.0017	0.14
	alpha-BHC	mg/kg	20	0	0%	--	--	--	0.0017	0.14
	alpha-Chlordane	mg/kg	20	0	0%	--	--	--	0.0017	0.14
	beta-BHC	mg/kg	20	10	50%	0.0018	0.15	TSB-GJ-04 @ 0	0.0017	0.14
	Chlordane	mg/kg	20	0	0%	--	--	--	0.017	1.4
	delta-BHC	mg/kg	20	0	0%	--	--	--	0.0017	0.14
	Dieldrin	mg/kg	20	0	0%	--	--	--	0.0017	0.14
	Endosulfan I	mg/kg	20	0	0%	--	--	--	0.0017	0.14
	Endosulfan II	mg/kg	20	0	0%	--	--	--	0.0017	0.14
	Endosulfan sulfate	mg/kg	20	0	0%	--	--	--	0.0017	0.14
	Endrin	mg/kg	20	0	0%	--	--	--	0.0017	0.14
	Endrin aldehyde	mg/kg	20	0	0%	--	--	--	0.0017	0.14
	Endrin ketone	mg/kg	20	0	0%	--	--	--	0.0017	0.14
	gamma-Chlordane	mg/kg	20	0	0%	--	--	--	0.0017	0.14
	Heptachlor	mg/kg	20	0	0%	--	--	--	0.0017	0.14
	Heptachlor epoxide	mg/kg	20	0	0%	--	--	--	0.0017	0.14
	Lindane	mg/kg	20	0	0%	--	--	--	0.0017	0.14
Methoxychlor	mg/kg	20	1	5%	0.01	0.01	TSB-GJ-05 @ 5	0.0034	0.27	
Toxaphene	mg/kg	20	0	0%	--	--	--	0.069	5.4	
Petroleum Hydrocarbons	TPH (as Gasoline)	mg/kg	19	0	0%	--	--	--	0.1	0.11
	Oil/Grease	mg/kg	20	0	0%	--	--	--	202	219
	TPH (as Diesel)	mg/kg	20	0	0%	--	--	--	26	5000

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Radionuclides	Radium-226	pCi/g	20	20	100%	0.795	1.3	TSB-GJ-02 @ 0	0.0611	0.0898
	Radium-228	pCi/g	20	20	100%	1.58	2.04	TSB-GJ-02 @ 0	0.114	0.171
	Thorium-228	pCi/g	20	20	100%	1.28	2.33	TSB-GJ-06 @ 0	0.1	0.1
	Thorium-230	pCi/g	20	20	100%	1.05	1.98	TSB-GJ-04 @ 0	0.1	0.1
	Thorium-232	pCi/g	20	20	100%	1.18	1.97	TSB-GR-01 @ 0	0.1	0.1
	Uranium-233/234	pCi/g	18	18	100%	0.795	1.98	TSB-GJ-02 @ 0	1	1
	Uranium-235/236	pCi/g	18	13	72%	0.046	0.0962	TSB-GJ-04 @ 0	1	1
	Uranium-238	pCi/g	18	18	100%	0.817	1.55	TSB-GJ-02 @ 0	1	1
SVOCs	1,2,4,5-Tetrachlorobenzene	mg/kg	20	0	0%	--	--	--	0.33	0.36
	1,2-Diphenylhydrazine	mg/kg	20	0	0%	--	--	--	0.33	0.36
	1,4-Dioxane	mg/kg	20	0	0%	--	--	--	0.33	0.36
	2,2'-/4,4'-Dichlorobenzil	mg/kg	20	0	0%	--	--	--	0.33	3.3
	2,4,5-Trichlorophenol	mg/kg	20	0	0%	--	--	--	0.33	0.36
	2,4,6-Trichlorophenol	mg/kg	20	0	0%	--	--	--	0.33	0.36
	2,4-Dichlorophenol	mg/kg	20	0	0%	--	--	--	0.33	0.36
	2,4-Dimethylphenol	mg/kg	20	0	0%	--	--	--	0.33	0.36
	2,4-Dinitrophenol	mg/kg	20	0	0%	--	--	--	1.6	1.8
	2,4-Dinitrotoluene	mg/kg	20	0	0%	--	--	--	0.33	0.36
	2,6-Dinitrotoluene	mg/kg	20	0	0%	--	--	--	0.33	0.36
	2-Chloronaphthalene	mg/kg	20	0	0%	--	--	--	0.33	0.36
	2-Chlorophenol	mg/kg	20	0	0%	--	--	--	0.33	0.36
	2-Methylnaphthalene	mg/kg	20	0	0%	--	--	--	0.33	0.36
	2-Nitroaniline	mg/kg	20	0	0%	--	--	--	1.6	1.8
	2-Nitrophenol	mg/kg	20	0	0%	--	--	--	0.33	0.36
	3,3'-Dichlorobenzidine	mg/kg	20	0	0%	--	--	--	1.6	1.8
	3-Methylphenol & 4-Methylphenol	mg/kg	20	0	0%	--	--	--	0.67	0.72
	3-Nitroaniline	mg/kg	20	0	0%	--	--	--	1.6	1.8
	4-Bromophenyl phenyl ether	mg/kg	20	0	0%	--	--	--	0.33	0.36
	4-Chloro-3-Methylphenol	mg/kg	20	0	0%	--	--	--	0.33	0.36
	4-Chlorophenyl phenyl ether	mg/kg	20	0	0%	--	--	--	0.33	0.36
	4-Chlorothioanisole	mg/kg	20	0	0%	--	--	--	0.33	0.36
	4-Nitrophenol	mg/kg	20	0	0%	--	--	--	1.6	1.8
	Acenaphthene	mg/kg	20	1	5%	0.14	0.14	TSB-GJ-06 @ 0	0.33	0.36
	Acenaphthylene	mg/kg	20	1	5%	0.15	0.15	TSB-GJ-06 @ 0	0.33	0.36
	Acetophenone	mg/kg	20	0	0%	--	--	--	0.33	0.36
	Aniline	mg/kg	20	0	0%	--	--	--	0.33	0.36
	Anthracene	mg/kg	20	1	5%	0.45	0.45	TSB-GJ-06 @ 0	0.33	0.36
	Azobenzene	mg/kg	20	0	0%	--	--	--	0.33	0.36
	Benzenethiol	mg/kg	20	0	0%	--	--	--	0.33	0.36
Benzo(a)anthracene	mg/kg	20	2	10%	0.06	1.2	TSB-GJ-06 @ 0	0.33	0.36	
Benzo(a)pyrene	mg/kg	20	2	10%	0.04	0.99	TSB-GJ-06 @ 0	0.33	0.36	

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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	Benzo(b)fluoranthene	mg/kg	20	2	10%	0.049	1.1	TSB-GJ-06 @ 0	0.33	0.36
	Benzo(g,h,i)perylene	mg/kg	20	2	10%	0.075	0.53	TSB-GJ-06 @ 0	0.33	0.36
	Benzo(k)fluoranthene	mg/kg	20	2	10%	0.043	1.3	TSB-GJ-06 @ 0	0.33	0.36
	Benzoic acid	mg/kg	20	0	0%	--	--	--	1.6	1.8
	Benzyl alcohol	mg/kg	20	0	0%	--	--	--	0.33	0.36
	Benzyl butyl phthalate	mg/kg	20	0	0%	--	--	--	0.33	0.36
	bis(2-Chloroethoxy) methane	mg/kg	20	0	0%	--	--	--	0.33	0.36
	bis(2-Chloroethyl) ether	mg/kg	20	0	0%	--	--	--	0.33	0.36
	bis(2-Chloroisopropyl) ether	mg/kg	20	0	0%	--	--	--	0.33	0.36
	bis(2-Ethylhexyl) phthalate	mg/kg	20	0	0%	--	--	--	0.33	0.36
	bis(p-Chlorophenyl) disulfide	mg/kg	20	0	0%	--	--	--	0.33	0.36
	bis(p-Chlorophenyl) sulfone	mg/kg	20	0	0%	--	--	--	0.33	0.36
	Carbazole	mg/kg	20	1	5%	0.059	0.059	TSB-GJ-06 @ 0	0.33	0.36
	Chrysene	mg/kg	20	3	15%	0.069	1.7	TSB-GJ-06 @ 0	0.33	0.36
	Dibenzo(a,h)anthracene	mg/kg	20	1	5%	0.18	0.18	TSB-GJ-06 @ 0	0.33	0.36
	Dibenzofuran	mg/kg	20	0	0%	--	--	--	0.33	0.36
	Dibutyl phthalate	mg/kg	20	0	0%	--	--	--	0.33	0.36
	Diethyl phthalate	mg/kg	20	0	0%	--	--	--	0.33	0.36
	Dimethyl phthalate	mg/kg	20	0	0%	--	--	--	0.33	0.36
	Di-n-octyl phthalate	mg/kg	20	0	0%	--	--	--	0.33	0.36
	Diphenyl sulfone	mg/kg	20	0	0%	--	--	--	0.33	0.36
	Fluoranthene	mg/kg	20	2	10%	0.077	0.8	TSB-GJ-06 @ 0	0.33	0.36
	Fluorene	mg/kg	20	0	0%	--	--	--	0.33	0.36
	Hexachloro-1,3-butadiene	mg/kg	20	0	0%	--	--	--	0.33	0.36
	Hexachlorobenzene	mg/kg	20	0	0%	--	--	--	0.33	0.36
	Hexachlorocyclopentadiene	mg/kg	20	0	0%	--	--	--	1.6	1.8
	Hexachloroethane	mg/kg	20	0	0%	--	--	--	0.33	0.36
	Hydroxymethyl phthalimide	mg/kg	20	0	0%	--	--	--	0.33	0.36
	Indeno(1,2,3-cd)pyrene	mg/kg	20	1	5%	0.52	0.52	TSB-GJ-06 @ 0	0.33	0.36
	Isophorone	mg/kg	20	0	0%	--	--	--	0.33	0.36
	Naphthalene	mg/kg	20	0	0%	--	--	--	0.33	0.36
	Nitrobenzene	mg/kg	20	0	0%	--	--	--	0.33	0.36
	N-nitrosodi-n-propylamine	mg/kg	20	0	0%	--	--	--	0.33	0.36
N-nitrosodiphenylamine	mg/kg	20	0	0%	--	--	--	0.33	0.36	
o-Cresol	mg/kg	20	0	0%	--	--	--	0.33	0.36	
Octachlorostyrene	mg/kg	20	0	0%	--	--	--	0.33	0.36	
p-Chloroaniline	mg/kg	20	0	0%	--	--	--	0.33	0.36	
p-Chlorothiophenol	mg/kg	20	0	0%	--	--	--	0.33	0.36	
Pentachlorobenzene	mg/kg	20	0	0%	--	--	--	0.33	0.36	
Pentachlorophenol	mg/kg	20	0	0%	--	--	--	1.6	1.8	
Phenanthrene	mg/kg	20	0	0%	--	--	--	0.33	0.36	

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SVOCs	Phenol	mg/kg	20	0	0%	--	--	--	0.33	0.36
	Phenyl Disulfide	mg/kg	20	0	0%	--	--	--	0.33	0.36
	Phenyl Sulfide	mg/kg	20	0	0%	--	--	--	0.33	0.36
	Phthalic acid	mg/kg	20	0	0%	--	--	--	1.6	1.8
	p-Nitroaniline	mg/kg	20	0	0%	--	--	--	1.6	1.8
	Pyrene	mg/kg	20	2	10%	0.085	1.2	TSB-GJ-06 @ 0	0.33	0.36
	Pyridine	mg/kg	20	0	0%	--	--	--	0.67	0.72
VOCs	1,1,1,2-Tetrachloroethane	mg/kg	20	0	0%	--	--	--	0.005	0.0055
	1,1,1-Trichloroethane	mg/kg	20	0	0%	--	--	--	0.005	0.0055
	1,1,2,2-Tetrachloroethane	mg/kg	20	0	0%	--	--	--	0.005	0.0055
	1,1,2-Trichloroethane	mg/kg	20	0	0%	--	--	--	0.005	0.0055
	1,1-Dichloroethane	mg/kg	20	0	0%	--	--	--	0.005	0.0055
	1,1-Dichloroethylene	mg/kg	20	0	0%	--	--	--	0.005	0.0055
	1,1-Dichloropropene	mg/kg	20	0	0%	--	--	--	0.005	0.0055
	1,2,3-Trichlorobenzene	mg/kg	20	0	0%	--	--	--	0.005	0.0055
	1,2,3-Trichloropropane	mg/kg	20	0	0%	--	--	--	0.005	0.0055
	1,2,4-Trichlorobenzene	mg/kg	20	0	0%	--	--	--	0.005	0.0055
	1,2,4-Trimethylbenzene	mg/kg	20	3	15%	0.00042	0.00082	TSB-GJ-03 @ 0	0.005	0.0055
	1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	20	0	0%	--	--	--	0.01	0.011
	1,2-Dichlorobenzene	mg/kg	20	0	0%	--	--	--	0.005	0.0055
	1,2-Dichloroethane	mg/kg	20	0	0%	--	--	--	0.005	0.0055
	1,2-Dichloroethylene	mg/kg	20	0	0%	--	--	--	0.01	0.011
	1,2-Dichloropropane	mg/kg	20	0	0%	--	--	--	0.005	0.0055
	1,3,5-Trichlorobenzene	mg/kg	20	0	0%	--	--	--	0.005	0.0055
	1,3,5-Trimethylbenzene	mg/kg	20	0	0%	--	--	--	0.005	0.0055
	1,3-Dichlorobenzene	mg/kg	20	0	0%	--	--	--	0.005	0.0055
	1,3-Dichloropropane	mg/kg	20	0	0%	--	--	--	0.005	0.0055
	1,4-Dichlorobenzene	mg/kg	20	0	0%	--	--	--	0.005	0.0055
	1-Nonanal	mg/kg	20	0	0%	--	--	--	0.01	0.011
	2,2,3-Trimethylbutane	mg/kg	20	0	0%	--	--	--	0.005	0.0055
	2,2-Dichloropropane	mg/kg	20	0	0%	--	--	--	0.005	0.0055
	2,2-Dimethylpentane	mg/kg	20	0	0%	--	--	--	0.005	0.0055
	2,3-Dimethylpentane	mg/kg	20	0	0%	--	--	--	0.005	0.0055
	2,4-Dimethylpentane	mg/kg	20	0	0%	--	--	--	0.02	0.022
	2-Chlorotoluene	mg/kg	20	0	0%	--	--	--	0.005	0.0055
	2-Nitropropane	mg/kg	20	0	0%	--	--	--	0.01	0.011
	2-Phenylbutane	mg/kg	20	0	0%	--	--	--	0.005	0.0055
	3,3-dimethylpentane	mg/kg	20	0	0%	--	--	--	0.01	0.011
	3-ethylpentane	mg/kg	20	0	0%	--	--	--	0.005	0.0055
3-Methylhexane	mg/kg	20	0	0%	--	--	--	0.005	0.0055	
4-Chlorotoluene	mg/kg	20	0	0%	--	--	--	0.005	0.0055	

TABLE 1
SOIL DATA AND SCREENING-LEVEL RISK ASSESSMENT RESULTS SUMMARY
TRONOX PARCEL G INVESTIGATION
CLARK COUNTY, NEVADA
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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	20	16	80%	0.0055	0.046	TSB-CR-01 @ 0	0.02	0.022
	Acetonitrile	mg/kg	20	0	0%	--	--	--	0.05	0.055
	Benzene	mg/kg	20	0	0%	--	--	--	0.005	0.0055
	Bromobenzene	mg/kg	20	0	0%	--	--	--	0.005	0.0055
	Bromodichloromethane	mg/kg	20	0	0%	--	--	--	0.005	0.0055
	Bromomethane	mg/kg	20	0	0%	--	--	--	0.01	0.011
	Carbon disulfide	mg/kg	20	0	0%	--	--	--	0.005	0.0055
	Carbon tetrachloride	mg/kg	20	0	0%	--	--	--	0.005	0.0055
	CFC-11	mg/kg	20	0	0%	--	--	--	0.005	0.0055
	CFC-12	mg/kg	20	0	0%	--	--	--	0.01	0.011
	Chlorinated fluorocarbon (Freon 113)	mg/kg	20	0	0%	--	--	--	0.005	0.0055
	Chlorobenzene	mg/kg	20	0	0%	--	--	--	0.005	0.0055
	Chlorobromomethane	mg/kg	20	0	0%	--	--	--	0.005	0.0055
	Chlorodibromomethane	mg/kg	20	0	0%	--	--	--	0.005	0.0055
	Chloroethane	mg/kg	20	0	0%	--	--	--	0.01	0.011
	Chloroform	mg/kg	20	0	0%	--	--	--	0.005	0.0055
	Chloromethane	mg/kg	20	0	0%	--	--	--	0.01	0.011
	cis-1,2-Dichloroethylene	mg/kg	20	0	0%	--	--	--	0.005	0.0055
	cis-1,3-Dichloropropylene	mg/kg	20	0	0%	--	--	--	0.005	0.0055
	Cymene	mg/kg	20	0	0%	--	--	--	0.005	0.0055
	Dibromomethane	mg/kg	20	0	0%	--	--	--	0.005	0.0055
	Dichloromethane	mg/kg	20	0	0%	--	--	--	0.005	0.0055
	Ethanol	mg/kg	20	0	0%	--	--	--	0.25	0.27
	Ethylbenzene	mg/kg	20	0	0%	--	--	--	0.005	0.0055
	Hexane, 2-methyl-	mg/kg	20	0	0%	--	--	--	0.005	0.0055
	Isopropylbenzene	mg/kg	20	0	0%	--	--	--	0.005	0.0055
	m,p-Xylene	mg/kg	20	1	5%	0.00064	0.00064	TSB-GJ-03 @ 0	0.005	0.0055
	Methyl disulfide	mg/kg	20	0	0%	--	--	--	0.005	0.0055
	Methyl ethyl ketone	mg/kg	20	1	5%	0.0038	0.0038	TSB-GJ-06 @ 0	0.02	0.022
	Methyl iodide	mg/kg	20	0	0%	--	--	--	0.005	0.0055
	Methyl isobutyl ketone	mg/kg	20	0	0%	--	--	--	0.02	0.022
	Methyl n-butyl ketone	mg/kg	20	0	0%	--	--	--	0.02	0.022
	MTBE (Methyl tert-butyl ether)	mg/kg	20	0	0%	--	--	--	0.005	0.0055
n-Butyl benzene	mg/kg	20	0	0%	--	--	--	0.005	0.0055	
n-Heptane	mg/kg	20	0	0%	--	--	--	0.005	0.0055	
n-Propyl benzene	mg/kg	20	0	0%	--	--	--	0.005	0.0055	
o-Xylene	mg/kg	20	0	0%	--	--	--	0.005	0.0055	
Styrene (monomer)	mg/kg	20	0	0%	--	--	--	0.005	0.0055	
tert-Butyl benzene	mg/kg	20	0	0%	--	--	--	0.005	0.0055	
Tetrachloroethylene	mg/kg	20	0	0%	--	--	--	0.005	0.0055	
Toluene	mg/kg	20	2	10%	0.00059	0.00075	TSB-GJ-03 @ 0	0.005	0.0055	

TABLE 1
SOIL DATA AND SCREENING-LEVEL RISK ASSESSMENT RESULTS SUMMARY
TRONOX PARCEL G INVESTIGATION
CLARK COUNTY, NEVADA
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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	20	0	0%	--	--	--	0.005	0.0055
	trans-1,3-Dichloropropylene	mg/kg	20	0	0%	--	--	--	0.005	0.0055
	Tribromomethane	mg/kg	20	0	0%	--	--	--	0.005	0.0055
	Trichloroethylene	mg/kg	20	0	0%	--	--	--	0.005	0.0055
	Vinyl acetate	mg/kg	20	0	0%	--	--	--	0.005	0.0055
	Vinyl chloride	mg/kg	20	0	0%	--	--	--	0.005	0.0055
	Xylenes (total)	mg/kg	20	0	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 PARCEL G 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 ^d	pg/g	14	1000	ca	--	0	--	--	--	--
Asbestos ⁱ	Chrysotile	Structures	6	--	--	--	--	--	--	--	--
	Amphibole	Structures	1	--	--	--	--	--	--	--	--
General Chemistry	Bromide	mg/kg	--	--	--	--	--	--	--	--	--
	Bromine	mg/kg	--	--	--	--	--	--	--	--	--
	Chlorate	mg/kg	17.9	--	--	--	--	--	--	--	--
	Chloride	mg/kg	1230	--	--	--	--	--	--	--	--
	Chlorine	mg/kg	2470	--	--	--	--	--	--	--	--
	Chlorite	mg/kg	--	--	--	--	--	--	--	--	--
	Fluoride	mg/kg	2.3	36938	nc	--	0	--	--	--	--
	Nitrate (as N)	mg/kg	52	--	--	--	--	--	--	--	--
	Nitrite (as N)	mg/kg	--	--	--	--	--	--	--	--	--
	Orthophosphate as P	mg/kg	--	--	--	--	--	--	--	--	--
	Perchlorate	mg/kg	39.9	102	nc	--	0	--	--	--	--
	Sulfate	mg/kg	2620	--	--	--	--	--	--	--	--
Metals	Aluminum	mg/kg	8790	100000	max	--	0	--	--	--	--
	Antimony	mg/kg	0.25	409	nc	--	0	5	0	0.3	0
	Arsenic	mg/kg	4.8	1.6	ca	256	20	29	0	1	20
	Barium	mg/kg	206	66577	nc	--	0	1600	0	82	20
	Beryllium	mg/kg	0.6	1941	ca	2241	0	63	0	3	0
	Boron	mg/kg	--	100000	max	--	--	--	--	--	--
	Cadmium	mg/kg	0.17	451	nc	2989	0	8	0	0.4	0
	Calcium	mg/kg	50900	--	--	--	--	--	--	--	--
	Chromium (Total)	mg/kg	14.2	100000	nc	--	0	--	--	--	--
	Chromium (VI)	mg/kg	--	64	ca	2540	--	38	--	2	--
	Cobalt	mg/kg	8.1	1921	ca	13330	0	--	--	--	--
	Copper	mg/kg	19.5	40877	nc	--	0	--	--	--	--
	Iron	mg/kg	15200	100000	max	--	0	--	--	--	--
	Lead	mg/kg	13.5	800	nc	--	0	--	--	--	--
	Lithium	mg/kg	21.9	20439	--	--	0	--	--	--	--
	Magnesium	mg/kg	11900	--	--	--	--	--	--	--	--
	Manganese	mg/kg	711	19458	nc	--	0	--	--	--	--
	Mercury	mg/kg	--	307	nc	--	--	--	--	--	--
	Molybdenum	mg/kg	0.69	5110	nc	--	0	--	--	--	--
	Nickel	mg/kg	16.7	20439	nc	--	0	130	0	7	20
	Niobium	mg/kg	9.2	--	--	--	--	--	--	--	--
	Palladium	mg/kg	0.79	--	--	--	--	--	--	--	--
	Phosphorus (as P)	mg/kg	1140	--	--	--	--	--	--	--	--
	Platinum	mg/kg	--	--	--	--	--	--	--	--	--
	Potassium	mg/kg	2630	--	--	--	--	--	--	--	--
	Selenium	mg/kg	--	5110	nc	--	--	5	--	0.3	--

TABLE 1
SOIL DATA AND SCREENING-LEVEL RISK ASSESSMENT RESULTS SUMMARY
TRONOX PARCEL G INVESTIGATION
CLARK COUNTY, NEVADA
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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	1.3	0.026	ca	--	20	0.32	20	0.016	20
	Radium-228	pCi/g	2.04	0.15	ca	--	20	1.2	20	0.059	20
	Thorium-228	pCi/g	2.33	0.26	ca	--	20	66	0	3.3	0
	Thorium-230	pCi/g	1.98	20	ca	--	0	6.1	0	0.3	20
	Thorium-232	pCi/g	1.97	19	ca	--	0	6.1	0	0.3	20
	Uranium-233/234	pCi/g	1.98	32	ca	--	0	2240	0	112	0
	Uranium-235/236	pCi/g	0.0962	0.4	ca	--	0	0.78	0	0.039	14
Uranium-238	pCi/g	1.55	1.8	ca	--	0	0.12	18	0.006	18	
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	--	0.00004	--
	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	0.14	29219	nc	--	0	570	0	29	0
	Acenaphthylene	mg/kg	0.15	--	--	--	--	--	--	--	--
	Acetophenone	mg/kg	--	--	--	--	--	--	--	--	--
	Aniline	mg/kg	--	302	ca	4300	--	--	--	--	--
	Anthracene	mg/kg	0.45	100000	max	--	0	12000	0	590	0
	Azobenzene	mg/kg	--	16	ca	--	--	--	--	--	--
	Benzenethiol	mg/kg	--	--	--	--	--	--	--	--	--
	Benzo(a)anthracene	mg/kg	1.2	2.1	ca	--	0	2	0	0.08	1
Benzo(a)pyrene	mg/kg	0.99	0.21	ca	--	1	8	0	0.4	1	

TABLE 1
SOIL DATA AND SCREENING-LEVEL RISK ASSESSMENT RESULTS SUMMARY
TRONOX PARCEL G INVESTIGATION
CLARK COUNTY, NEVADA
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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	0.046	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	--	0.47	ca	187	--	0.6	--	0.03	--
	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	--	395	sat	--	--	13	--	0.7	--
	Hexane, 2-methyl-	mg/kg	--	--	--	--	--	--	--	--	--
	Isopropylbenzene	mg/kg	--	1978	nc	--	--	--	--	--	--
	m,p-Xylene	mg/kg	0.00064	--	--	--	--	--	--	--	--
	Methyl disulfide	mg/kg	--	--	--	--	--	--	--	--	--
	Methyl ethyl ketone	mg/kg	0.0038	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	--	240	sat	--	--	--	--	--	--	
o-Xylene	mg/kg	--	--	--	--	--	--	--	--	--	
Styrene (monomer)	mg/kg	--	1700	sat	--	--	--	4	--	0.2	
tert-Butyl benzene	mg/kg	--	390	sat	--	--	--	--	--	--	
Tetrachloroethylene	mg/kg	--	1.3	ca	129	--	0.06	--	0.003	--	
Toluene	mg/kg	0.00075	520	sat	--	--	0	12	0	0.6	

TABLE 1
SOIL DATA AND SCREENING-LEVEL RISK ASSESSMENT RESULTS SUMMARY
TRONOX PARCEL G INVESTIGATION
CLARK COUNTY, NEVADA
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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	--	420	sat	--	--	210	--	10	--

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 PARCEL G 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	14	--	--	--	1000	ca	--	--	1 E-8
Asbestos ⁱ	Chrysotile	Structures	6	--	--	--	--	--	--	--	See Asbestos Risk Calc. Table
	Amphibole	Structures	1	--	--	--	--	--	--	--	
General Chemistry	Bromide	mg/kg	--	--	--	--	--	--	--	--	--
	Bromine	mg/kg	--	--	--	--	--	--	--	--	--
	Chlorate	mg/kg	17.9	--	--	--	--	--	--	--	--
	Chloride	mg/kg	1230	1110	1	--	--	--	--	--	--
	Chlorine	mg/kg	2470	--	--	--	--	--	--	--	--
	Chlorite	mg/kg	--	--	--	--	--	--	--	--	--
	Fluoride	mg/kg	2.3	2.5	0	--	36938	nc	--	0.000062	--
	Nitrate (as N)	mg/kg	52	102	0	--	--	--	--	--	--
	Nitrite (as N)	mg/kg	--	0.21	--	--	--	--	--	--	--
	Orthophosphate as P	mg/kg	--	--	--	--	--	--	--	--	--
	Perchlorate	mg/kg	39.9	--	--	--	102	nc	--	0.39	--
	Sulfate	mg/kg	2620	4130	0	--	--	--	--	--	--
Metals	Aluminum	mg/kg	8790	15300	0	No	100000	max	--	--	--
	Antimony	mg/kg	0.25	0.5	0	No	409	nc	--	--	--
	Arsenic	mg/kg	4.8	7.2	0	No	1.6	ca	256	--	--
	Barium	mg/kg	206	836	0	No	66577	nc	--	--	--
	Beryllium	mg/kg	0.6	0.89	0	No	1941	ca	2241	--	--
	Boron	mg/kg	--	11.6	--	No	100000	max	--	--	--
	Cadmium	mg/kg	0.17	0.16	1	No	451	nc	2989	--	--
	Calcium	mg/kg	50900	82800	0	No	--	--	--	--	--
	Chromium (Total)	mg/kg	14.2	16.7	0	Yes	100000	nc	--	0.000093	--
	Chromium (VI)	mg/kg	--	0.251	--	No	64	ca	2540	--	--
	Cobalt	mg/kg	8.1	16.3	0	No	1921	ca	13330	--	--
	Copper	mg/kg	19.5	30.5	0	No	40877	nc	--	--	--
	Iron	mg/kg	15200	19700	0	No	100000	max	--	--	--
	Lead	mg/kg	13.5	35.1	0	No	800	nc	--	--	--
	Lithium	mg/kg	21.9	26.5	0	No	20439	--	--	--	--
	Magnesium	mg/kg	11900	17500	0	No	--	--	--	--	--
	Manganese	mg/kg	711	1090	0	No	19458	nc	--	--	--
	Mercury	mg/kg	--	0.11	--	No	307	nc	--	--	--
	Molybdenum	mg/kg	0.69	2	0	No	5110	nc	--	--	--
	Nickel	mg/kg	16.7	30	0	No	20439	nc	--	--	--
	Niobium	mg/kg	9.2	2.8	1	Yes	--	--	--	--	--
	Palladium	mg/kg	0.79	1.5	0	No	--	--	--	--	--
	Phosphorus (as P)	mg/kg	1140	--	--	No	--	--	--	--	--
	Platinum	mg/kg	--	0.099	--	Yes	--	--	--	--	--
	Potassium	mg/kg	2630	3890	0	No	--	--	--	--	--
	Selenium	mg/kg	--	0.6	--	No	5110	nc	--	--	--

TABLE 1
SOIL DATA AND SCREENING-LEVEL RISK ASSESSMENT RESULTS SUMMARY
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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	1.3	2.36	0	No	0.026	ca	--	--	--	
	Radium-228	pCi/g	2.04	2.94	0	No	0.15	ca	--	--	--	
	Thorium-228	pCi/g	2.33	2.28	1	No	0.26	ca	--	--	--	
	Thorium-230	pCi/g	1.98	3.01	0	No	20	ca	--	--	--	
	Thorium-232	pCi/g	1.97	2.23	0	No	19	ca	--	--	--	
	Uranium-233/234	pCi/g	1.98	2.84	0	No	32	ca	--	--	--	
	Uranium-235/236	pCi/g	0.0962	0.21	0	No	0.4	ca	--	--	--	
Uranium-238	pCi/g	1.55	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	0.14	--	--	--	--	29219	nc	--	0.000012	--
	Acenaphthylene	mg/kg	0.15	--	--	--	--	--	--	--	--	--
	Acetophenone	mg/kg	--	--	--	--	--	--	--	--	--	--
	Aniline	mg/kg	--	--	--	--	302	ca	4300	--	--	--
	Anthracene	mg/kg	0.45	--	--	--	100000	max	--	--	0.0000019	--
	Azobenzene	mg/kg	--	--	--	--	16	ca	--	--	--	--
	Benzenethiol	mg/kg	--	--	--	--	--	--	--	--	--	--
	Benzo(a)anthracene	mg/kg	1.2	--	--	--	2.1	ca	--	--	--	6 E-7
Benzo(a)pyrene	mg/kg	0.99	--	--	--	0.21	ca	--	--	--	5 E-6	

TABLE 1
SOIL DATA AND SCREENING-LEVEL RISK ASSESSMENT RESULTS SUMMARY
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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	0.046	--	--	--	54321	nc	--	0.00000085	--
	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	--	--	--	--	0.47	ca	187	--	--
	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	--	--	--	--	395	sat	--	--	--
	Hexane, 2-methyl-	mg/kg	--	--	--	--	--	--	--	--	--
	Isopropylbenzene	mg/kg	--	--	--	--	1978	nc	--	--	--
	m,p-Xylene	mg/kg	0.00064	--	--	--	--	--	--	--	--
	Methyl disulfide	mg/kg	--	--	--	--	--	--	--	--	--
	Methyl ethyl ketone	mg/kg	0.0038	--	--	--	--	113264	nc	--	0.00000019
	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	--	--	--	--	--	240	sat	--	--	
o-Xylene	mg/kg	--	--	--	--	--	--	--	--	--	
Styrene (monomer)	mg/kg	--	--	--	--	--	1700	sat	--	--	
tert-Butyl benzene	mg/kg	--	--	--	--	--	390	sat	--	--	
Tetrachloroethylene	mg/kg	--	--	--	--	--	1.3	ca	129	--	
Toluene	mg/kg	0.00075	--	--	--	--	520	sat	--	0.0000025	

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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	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	--	--	--	--	420	sat	--	--	--
Total Non-Cancer Hazard Index:										0.44	
Total Incremental Lifetime Cancer Risk - Non-Radionuclides:											8 E-6
Total Incremental Lifetime Cancer Risk - Radionuclides:											--

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).