

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

Parameter of Interest	Chemical	Result Unit	Total Count	Detect Count	Detect Frequency	Min. Detect <sup>a</sup>	Max. Detect <sup>a</sup>	Location of Max. Detect	Min. Non-Detect Limit <sup>b</sup>	Max. Non-Detect Limit <sup>b</sup>
Dioxins/Furans	TCDD TEF <sup>h</sup>	pg/g	32	32	100%	0.73	472	TSB-BJ-05-0	--	--
Asbestos <sup>i</sup>	Chrysotile	Structures	30	6	20%	0	19	TSB-BJ-01	--	--
	Amphibole	Structures	30	0	0%	--	--	--	--	--
General Chemistry	Bromide	mg/kg	64	28	44%	0.69	7.8	TSB-AJ-02-10	2.5	3.1
	Bromine	mg/kg	64	28	44%	1.4	15.7	TSB-AJ-02-10	5.1	6.3
	Chlorate	mg/kg	64	17	27%	1.4	17	TSB-BR-02-10	5.1	6.3
	Chloride	mg/kg	64	62	97%	3.3	2,210	TSB-AR-06-0-DUP	2	206
	Chlorine	mg/kg	64	62	97%	6.6	4,410	TSB-AR-06-0-DUP	4.1	411
	Chlorite	ug/kg	3	0	0%	--	--	--	220	250
	Fluoride	mg/kg	64	41	64%	0.39	4.3	TSB-BJ-04-10	1	1.3
	Nitrate (as N)	mg/kg	64	64	100%	0.33	229	TSB-AR-06-0-DUP	0.2	10.4
	Nitrite (as N)	mg/kg	64	1	2%	0.45	0.45	TSB-AJ-03-0	0.2	0.25
	Orthophosphate as P	mg/kg	64	2	3%	2	2	TSB-AR-11-0	5.1	6.3
	Perchlorate	ug/kg	64	63	98%	53.4	41,600	TSB-BJ-03-10	40.6	2480
	Sulfate	mg/kg	64	64	100%	9.1	8,870	TSB-AR-12-10	5.1	265
Glycols/Alcohols	Ethanol	ug/kg	64	0	0%	--	--	--	250	310
Metals	Aluminum	mg/kg	64	64	100%	6,780	9,750	TSB-BJ-01-0	10.1	12.5
	Antimony	mg/kg	64	54	84%	0.11	0.42	TSB-BR-02-0	1	1.3
	Arsenic	mg/kg	64	64	100%	2.3	5.8	TSB-BR-04-10	2	2.5
	Barium	mg/kg	64	64	100%	148	269	TSB-BJ-01-10	4.1	5
	Beryllium	mg/kg	64	64	100%	0.41	0.65	TSB-BJ-01-10	0.2	0.25
	Boron	mg/kg	64	0	0%	--	--	TSB-BR-06-10	20.3	25
	Cadmium	mg/kg	64	52	81%	0.069	0.59	TSB-BJ-02-0	0.1	0.13
	Calcium	mg/kg	64	64	100%	15,600	75,300	TSB-AR-13-10	101	125
	Chromium (Total)	mg/kg	64	64	100%	7.3	17	TSB-BR-04-10	2	2.5
	Chromium (VI)	mg/kg	61	25	41%	0.18	0.58	TSB-BJ-04-0	1	1.3
	Cobalt	mg/kg	64	64	100%	4.6	7.5	TSB-BR-02-0	0.41	0.5
	Copper	mg/kg	64	64	100%	11.3	31	TSB-BR-02-0	2	2.5
	Iron	mg/kg	64	64	100%	10,100	17,200	TSB-BJ-02-0	10.1	12.5
	Lead	mg/kg	64	64	100%	6.5	136	TSB-BR-03-0	0.61	0.75
	Lithium	mg/kg	64	56	88%	10.9	22.6	TSB-AR-13-10	10.1	26.4
	Magnesium	mg/kg	64	64	100%	6,690	13,600	TSB-BR-05-10	101	125
	Manganese	mg/kg	64	64	100%	218	668	TSB-BR-02-0	0.41	0.5
	Mercury	ug/kg	64	40	63%	7.3	17.5	TSB-BJ-04-0	33.8	41.7
	Molybdenum	mg/kg	64	31	48%	0.48	1.4	TSB-AR-04-10	1	1.3
	Nickel	mg/kg	64	64	100%	11.2	23.7	TSB-AJ-02-0	1	1.3
	Niobium	mg/kg	64	2	3%	1.6	2	TSB-AR-08-0	5.1	6.3
	Palladium	mg/kg	64	64	100%	0.3	1.2	TSB-AR-13-10	0.2	0.25
	Phosphorus (as P)	mg/kg	64	64	100%	527	1,510	TSB-BR-02-0	101	125
Platinum	mg/kg	64	0	0%	--	--	--	0.2	0.25	
Potassium	mg/kg	64	64	100%	2,040	4,800	TSB-AR-06-0-DUP	20.3	25	

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**TRONOX PARCELS A/B INVESTIGATION**  
**CLARK COUNTY, NEVADA**  
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Parameter of Interest	Chemical	Result Unit	Total Count	Detect Count	Detect Frequency	Min. Detect <sup>a</sup>	Max. Detect <sup>a</sup>	Location of Max. Detect	Min. Non-Detect Limit <sup>b</sup>	Max. Non-Detect Limit <sup>b</sup>
Metals	Selenium	mg/kg	64	0	0%	--	--	--	1	1.3
	Silicon	mg/kg	64	64	100%	128	1,320	TSB-AR-02-0	50.7	62.6
	Silver	mg/kg	64	64	100%	0.081	0.82	TSB-BR-03-0	0.41	0.5
	Sodium	mg/kg	64	64	100%	244	1,720	TSB-AR-06-0	40.6	50.1
	Strontium	mg/kg	64	64	100%	120	487	TSB-AR-13-10	1	1.3
	Sulfur	mg/kg	64	26	41%	443	5,980	TSB-AR-12-10	1010	2550
	Thallium	mg/kg	64	0	0%	--	--	TSB-BR-06-10	0.41	0.5
	Tin	mg/kg	64	56	88%	0.4	1.5	TSB-BR-02-0	0.41	0.5
	Titanium	mg/kg	64	64	100%	504	982	TSB-BJ-02-0	1	1.3
	Tungsten	mg/kg	64	0	0%	--	--	TSB-BR-06-10	1	1.3
	Uranium	mg/kg	64	64	100%	0.69	3.1	TSB-AR-13-10	0.2	0.25
	Vanadium	mg/kg	64	64	100%	24.2	53.4	TSB-BJ-02-0	2	2.5
	Zinc	mg/kg	64	64	100%	25.9	211	TSB-BJ-01-0	4.1	5
	Zirconium	mg/kg	64	64	100%	4.9	27.3	TSB-BJ-02-10	20.3	25
Organochlorine Pesticides	2,4-DDD	ug/kg	64	4	6%	2	17	TSB-BR-01-0	1.7	19
	2,4-DDE	ug/kg	64	11	17%	2.1	150	TSB-BR-01-0	1.7	19
	4,4-DDD	ug/kg	64	2	3%	7.5	18	TSB-BJ-05-0	1.7	19
	4,4-DDE	ug/kg	64	19	30%	1.8	310	TSB-BR-01-0	1.7	19
	4,4-DDT	ug/kg	64	10	16%	2.3	99	TSB-BR-01-0	1.7	19
	Aldrin	ug/kg	64	0	0%	--	--	--	1.7	19
	alpha-BHC	ug/kg	64	0	0%	--	--	--	1.7	19
	alpha-Chlordane	ug/kg	64	0	0%	--	--	--	1.7	19
	beta-BHC	ug/kg	64	31	48%	1.7	190	TSB-BR-01-0	1.7	19
	Chlordane	ug/kg	64	0	0%	--	--	--	1.7	190
	delta-BHC	ug/kg	64	0	0%	--	--	--	1.7	19
	Dieldrin	ug/kg	64	0	0%	--	--	--	1.7	19
	Endosulfan I	ug/kg	64	0	0%	--	--	--	1.7	19
	Endosulfan II	ug/kg	64	0	0%	--	--	--	1.7	19
	Endosulfan sulfate	ug/kg	64	0	0%	--	--	--	1.7	19
	Endrin	ug/kg	64	1	2%	7	7	TSB-BR-01-0	1.7	19
	Endrin aldehyde	ug/kg	64	2	3%	2.7	3.6	TSB-AR-12-0	1.7	19
	Endrin ketone	ug/kg	64	0	0%	--	--	--	1.7	19
	gamma-Chlordane	ug/kg	64	0	0%	--	--	--	1.7	19
	Heptachlor	ug/kg	64	0	0%	--	--	--	1.7	19
	Heptachlor epoxide	ug/kg	64	0	0%	--	--	--	1.7	19
Lindane	ug/kg	64	0	0%	--	--	--	1.7	19	
Methoxychlor	ug/kg	64	0	0%	--	--	--	3.3	37	
Toxaphene	ug/kg	64	0	0%	--	--	--	68	760	
Petroleum Hydrocarbons	TPH (as Gasoline)	mg/kg	64	0	0%	--	--	--	0.1	0.13
	TPH (as Diesel)	mg/kg	64	0	0%	--	--	--	25	31
	Oil/Grease	mg/kg	64	0	0%	--	--	--	203	250

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**TRONOX PARCELS A/B INVESTIGATION**  
**CLARK COUNTY, NEVADA**  
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Parameter of Interest	Chemical	Result Unit	Total Count	Detect Count	Detect Frequency	Min. Detect <sup>a</sup>	Max. Detect <sup>a</sup>	Location of Max. Detect	Min. Non-Detect Limit <sup>b</sup>	Max. Non-Detect Limit <sup>b</sup>
Radionuclides	Radium-226	pCi/g	64	64	100%	0.837	1.48	TSB-AJ-01-10	0.0487	0.0944
	Radium-228	pCi/g	64	64	100%	1.4	2.13	TSB-BR-06-0	0.0978	0.18
	Thorium-228	pci/g	64	63	98%	0.973	2.17	TSB-BR-06-0	0.1	0.1
	Thorium-230	pci/g	64	64	100%	0.308	2.03	TSB-AR-3-10	0.1	0.1
	Thorium-232	pci/g	64	63	98%	1.1	2.36	TSB-BR-04-0	0.1	0.1
	Uranium-233/234	pci/g	64	64	100%	0.225	2.31	TSB-AR-02-10	0.6	0.6
	Uranium-235/236	pci/g	64	28	44%	0.0141	0.0509	TSB-AR-02-10	0.6	0.6
	Uranium-238	pci/g	64	64	100%	0.125	1.26	TSB-AR-02-10	0.6	0.6
SVOCs	1,2,4,5-Tetrachlorobenzene	ug/kg	64	0	0%	--	--	--	330	410
	1,2-Diphenylhydrazine	ug/kg	64	0	0%	--	--	--	330	410
	1,4-Dioxane	ug/kg	64	0	0%	--	--	--	330	410
	1-Nonanal	ug/kg	64	0	0%	--	--	--	10	13
	2,2'-/4,4'-Dichlorobenzil	ug/kg	64	0	0%	--	--	--	330	2800
	2,4,5-Trichlorophenol	ug/kg	64	0	0%	--	--	--	330	410
	2,4,6-Trichlorophenol	ug/kg	64	0	0%	--	--	--	330	410
	2,4-Dichlorophenol	ug/kg	64	0	0%	--	--	--	330	410
	2,4-Dimethylphenol	ug/kg	64	0	0%	--	--	--	330	410
	2,4-Dinitrophenol	ug/kg	64	0	0%	--	--	--	1600	2000
	2,4-Dinitrotoluene	ug/kg	64	0	0%	--	--	--	330	410
	2,6-Dinitrotoluene	ug/kg	64	0	0%	--	--	--	330	410
	2-Chloronaphthalene	ug/kg	64	0	0%	--	--	--	330	410
	2-Chlorophenol	ug/kg	64	0	0%	--	--	--	330	410
	2-Methylnaphthalene	ug/kg	64	0	0%	--	--	--	330	410
	2-Nitroaniline	ug/kg	64	0	0%	--	--	--	1600	2000
	2-Nitrophenol	ug/kg	64	0	0%	--	--	--	330	410
	3,3'-Dichlorobenzidine	ug/kg	64	0	0%	--	--	--	1600	2000
	3-Methylphenol & 4-Methylphenol	ug/kg	64	0	0%	--	--	--	670	830
	3-Nitroaniline	ug/kg	64	0	0%	--	--	--	1600	2000
	4-Bromophenyl phenyl ether	ug/kg	64	0	0%	--	--	--	330	410
	4-Chloro-3-Methylphenol	ug/kg	64	0	0%	--	--	--	330	410
	4-Chlorophenyl phenyl ether	ug/kg	64	0	0%	--	--	--	330	410
	4-Nitrophenol	ug/kg	64	0	0%	--	--	--	1600	2000
	Acenaphthene	ug/kg	64	10	16%	65	1,000	TSB-AJ-01-10	51	63
	Acenaphthylene	ug/kg	64	0	0%	--	--	--	100	130
	Acetophenone	ug/kg	64	0	0%	--	--	--	330	410
	Aniline	ug/kg	64	0	0%	--	--	--	330	410
	Anthracene	ug/kg	64	0	0%	--	--	--	30	38
	Azobenzene	ug/kg	64	0	0%	--	--	--	330	410
	Benzenethiol	ug/kg	64	0	0%	--	--	--	330	410
	Benzo(a)anthracene	ug/kg	64	1	2%	55	55	TSB-AR-01-0-DUP	15	19
Benzo(a)pyrene	ug/kg	64	1	2%	19	19	TSB-BJ-03-0	15	19	

**TABLE 1**  
**SOIL DATA AND SCREENING-LEVEL RISK ASSESSMENT RESULTS SUMMARY**  
**TRONOX PARCELS A/B INVESTIGATION**  
**CLARK COUNTY, NEVADA**  
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Parameter of Interest	Chemical	Result Unit	Total Count	Detect Count	Detect Frequency	Min. Detect <sup>a</sup>	Max. Detect <sup>a</sup>	Location of Max. Detect	Min. Non-Detect Limit <sup>b</sup>	Max. Non-Detect Limit <sup>b</sup>
SVOCs	Benzo(b)fluoranthene	ug/kg	64	1	2%	21	21	TSB-BJ-03-0	15	19
	Benzo(g,h,i)perylene	ug/kg	64	0	0%	--	--	--	30	38
	Benzo(k)fluoranthene	ug/kg	64	0	0%	--	--	--	15	19
	Benzoic acid	ug/kg	64	0	0%	--	--	--	1600	2000
	Benzyl alcohol	ug/kg	64	0	0%	--	--	--	330	410
	Benzyl butyl phthalate	ug/kg	64	4	6%	42	420	TSB-BJ-04-0	330	410
	bis(2-Chloroethoxy) methane	ug/kg	64	0	0%	--	--	--	330	410
	bis(2-Chloroethyl) ether	ug/kg	64	0	0%	--	--	--	330	410
	bis(2-Chloroisopropyl) ether	ug/kg	64	0	0%	--	--	--	330	410
	bis(2-Ethylhexyl) phthalate	ug/kg	64	2	3%	37	140	TSB-BR-03-0	330	410
	bis(p-Chlorophenyl) disulfide	ug/kg	64	0	0%	--	--	--	330	410
	bis(p-Chlorophenyl) sulfone	ug/kg	64	0	0%	--	--	--	330	410
	Carbazole	ug/kg	64	0	0%	--	--	--	330	410
	Chrysene	ug/kg	64	2	3%	18	24	TSB-BJ-03-0	15	19
	Dibenzo(a,h)anthracene	ug/kg	64	0	0%	--	--	--	30	38
	Dibenzofuran	ug/kg	64	0	0%	--	--	--	330	410
	Dibutyl phthalate	ug/kg	64	1	2%	50	50	TSB-BR-03-0	330	410
	Diethyl phthalate	ug/kg	64	0	0%	--	--	--	330	410
	Dimethyl phthalate	ug/kg	64	0	0%	--	--	--	330	410
	Di-n-octyl phthalate	ug/kg	64	0	0%	--	--	--	330	410
	Diphenyl sulfone	ug/kg	64	0	0%	--	--	--	330	410
	Fluoranthene	ug/kg	64	0	0%	--	--	--	330	410
	Fluorene	ug/kg	64	0	0%	--	--	--	330	410
	Hexachlorobenzene	ug/kg	64	1	2%	49	49	TSB-BR-01-0	330	410
	Hexachlorocyclopentadiene	ug/kg	64	0	0%	--	--	--	1600	2000
	Hydroxymethyl phthalimide	ug/kg	64	0	0%	--	--	--	330	410
	Indeno(1,2,3-cd)pyrene	ug/kg	64	0	0%	--	--	--	15	19
	Isophorone	ug/kg	64	0	0%	--	--	--	330	410
	Naphthalene	ug/kg	64	0	0%	--	--	--	330	410
	Nitrobenzene	ug/kg	64	0	0%	--	--	--	330	410
	N-nitrosodi-n-propylamine	ug/kg	64	0	0%	--	--	--	330	410
	N-nitrosodiphenylamine	ug/kg	64	0	0%	--	--	--	330	410
	o-Cresol	ug/kg	64	0	0%	--	--	--	330	410
Octachlorostyrene	ug/kg	64	1	2%	41	41	TSB-BR-01-0	330	410	
p-Chloroaniline	ug/kg	64	0	0%	--	--	--	330	410	
p-Chlorothiophenol	ug/kg	64	0	0%	--	--	--	330	410	
Pentachlorobenzene	ug/kg	64	0	0%	--	--	--	330	410	
Pentachlorophenol	ug/kg	64	0	0%	--	--	--	1600	2000	
Phenanthrene	ug/kg	64	0	0%	--	--	--	30	38	
Phenol	ug/kg	64	0	0%	--	--	--	330	410	
Phenyl Disulfide	ug/kg	64	0	0%	--	--	--	330	410	

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**TRONOX PARCELS A/B INVESTIGATION**  
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Parameter of Interest	Chemical	Result Unit	Total Count	Detect Count	Detect Frequency	Min. Detect <sup>a</sup>	Max. Detect <sup>a</sup>	Location of Max. Detect	Min. Non-Detect Limit <sup>b</sup>	Max. Non-Detect Limit <sup>b</sup>
SVOCs	Phenyl Sulfide	ug/kg	64	0	0%	--	--	--	330	410
	Phthalic acid	ug/kg	64	0	0%	--	--	--	1600	2000
	p-Nitroaniline	ug/kg	64	0	0%	--	--	--	1600	2000
	Pyrene	ug/kg	64	0	0%	--	--	--	30	38
	Pyridine	ug/kg	64	0	0%	--	--	--	670	830
VOCs	1,1,1,2-Tetrachloroethane	ug/kg	64	0	0%	--	--	--	5	6.3
	1,1,1-Trichloroethane	ug/kg	64	0	0%	--	--	--	5	6.3
	1,1,2,2-Tetrachloroethane	ug/kg	64	0	0%	--	--	--	5	6.3
	1,1,2-Trichloroethane	ug/kg	64	0	0%	--	--	--	5	6.3
	1,1-Dichloroethane	ug/kg	64	0	0%	--	--	--	5	6.3
	1,1-Dichloroethylene	ug/kg	64	0	0%	--	--	--	5	6.3
	1,1-Dichloropropene	ug/kg	64	0	0%	--	--	--	5	6.3
	1,2,3-Trichlorobenzene	ug/kg	64	0	0%	--	--	--	5	6.3
	1,2,3-Trichloropropane	ug/kg	64	0	0%	--	--	--	5	6.3
	1,2,4-Trichlorobenzene	ug/kg	64	1	2%	0.9	0.9	TSB-AJ-01-10	5	6.3
	1,2,4-Trimethylbenzene	ug/kg	64	34	53%	0.23	0.57	TSB-AR-13-10	5	6.3
	1,2-Dibromo-3-chloropropane	ug/kg	64	0	0%	--	--	--	10	13
	1,2-Dichlorobenzene	ug/kg	64	0	0%	--	--	--	5	6.3
	1,2-Dichloroethane	ug/kg	64	0	0%	--	--	--	5	6.3
	1,2-Dichloroethylene	ug/kg	64	0	0%	--	--	--	10	13
	1,2-Dichloropropane	ug/kg	64	0	0%	--	--	--	5	6.3
	1,3,5-Trichlorobenzene	ug/kg	64	0	0%	--	--	--	5	6.3
	1,3,5-Trimethylbenzene	ug/kg	64	0	0%	--	--	--	5	6.3
	1,3-Dichlorobenzene	ug/kg	64	0	0%	--	--	--	5	6.3
	1,3-Dichloropropane	ug/kg	64	0	0%	--	--	--	5	6.3
	1,4-Dichlorobenzene	ug/kg	64	0	0%	--	--	--	5	6.3
	2,2,3-Trimethylbutane	ug/kg	64	0	0%	--	--	--	5	6.3
	2,2-Dichloropropane	ug/kg	64	0	0%	--	--	--	5	6.3
	2,2-Dimethylpentane	ug/kg	64	0	0%	--	--	--	5	6.3
	2,3-Dimethylpentane	ug/kg	64	0	0%	--	--	--	5	6.3
	2,4-Dimethylpentane	ug/kg	64	0	0%	--	--	--	20	25
	2-Chlorotoluene	ug/kg	64	0	0%	--	--	--	5	6.3
	2-Nitropropane	ug/kg	64	0	0%	--	--	--	10	13
	2-Phenylbutane	ug/kg	64	0	0%	--	--	--	5	6.3
	3,3-dimethylpentane	ug/kg	64	0	0%	--	--	--	10	13
	3-ethylpentane	ug/kg	64	0	0%	--	--	--	5	6.3
	3-Methylhexane	ug/kg	64	0	0%	--	--	--	5	6.3
4-Chlorothioanisole	ug/kg	64	0	0%	--	--	--	330	410	
4-Chlorotoluene	ug/kg	64	0	0%	--	--	--	5	6.3	
Acetone	ug/kg	64	9	14%	6.5	16	TSB-BJ-01-10	20	25	
Acetonitrile	ug/kg	64	0	0%	--	--	--	50	63	

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**TRONOX PARCELS A/B INVESTIGATION**  
**CLARK COUNTY, NEVADA**  
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Parameter of Interest	Chemical	Result Unit	Total Count	Detect Count	Detect Frequency	Min. Detect <sup>a</sup>	Max. Detect <sup>a</sup>	Location of Max. Detect	Min. Non-Detect Limit <sup>b</sup>	Max. Non-Detect Limit <sup>b</sup>
VOCs	Benzene	ug/kg	64	0	0%	--	--	--	5	6.3
	Bromobenzene	ug/kg	64	0	0%	--	--	--	5	6.3
	Bromodichloromethane	ug/kg	64	0	0%	--	--	--	5	6.3
	Bromomethane	ug/kg	64	0	0%	--	--	--	10	13
	Carbon disulfide	ug/kg	64	0	0%	--	--	--	5	6.3
	Carbon tetrachloride	ug/kg	64	0	0%	--	--	--	5	6.3
	Freon 11	ug/kg	64	0	0%	--	--	--	5	6.3
	Freon 12	ug/kg	64	0	0%	--	--	--	10	13
	Freon 113	ug/kg	64	0	0%	--	--	--	5	6.3
	Chlorobenzene	ug/kg	64	0	0%	--	--	--	5	6.3
	Chlorobromomethane	ug/kg	64	0	0%	--	--	--	5	6.3
	Chlorodibromomethane	ug/kg	64	0	0%	--	--	--	5	6.3
	Chloroethane	ug/kg	64	0	0%	--	--	--	10	13
	Chloroform	ug/kg	64	0	0%	--	--	--	5	6.3
	Chloromethane	ug/kg	64	0	0%	--	--	--	10	13
	cis-1,2-Dichloroethylene	ug/kg	64	0	0%	--	--	--	5	6.3
	cis-1,3-Dichloropropylene	ug/kg	64	0	0%	--	--	--	5	6.3
	Cymene	ug/kg	64	0	0%	--	--	--	5	6.3
	Dibromomethane	ug/kg	64	0	0%	--	--	--	5	6.3
	Dichloromethane	ug/kg	64	0	0%	--	--	--	5	6.3
	Ethylbenzene	ug/kg	64	3	5%	0.2	0.24	TSB-AR-07-10	5	6.3
	Hexachloro-1,3-butadiene	ug/kg	64	0	0%	--	--	--	330	410
	Hexachloroethane	ug/kg	64	0	0%	--	--	--	330	410
	Hexane, 2-methyl-	ug/kg	64	0	0%	--	--	--	5	6.3
	Isopropylbenzene	ug/kg	64	0	0%	--	--	--	5	6.3
	m,p-Xylene	ug/kg	64	0	0%	--	--	--	5	6.3
	Methyl disulfide	ug/kg	64	0	0%	--	--	--	5	6.3
	Methyl ethyl ketone	ug/kg	64	0	0%	--	--	--	20	25
	Methyl iodide	ug/kg	64	0	0%	--	--	--	5	6.3
	Methyl isobutyl ketone	ug/kg	64	0	0%	--	--	--	20	25
	Methyl n-butyl ketone	ug/kg	64	0	0%	--	--	--	20	25
	MTBE (Methyl tert-butyl ether)	ug/kg	64	0	0%	--	--	--	5	6.3
	n-Butyl benzene	ug/kg	64	0	0%	--	--	--	5	6.3
n-Heptane	ug/kg	64	0	0%	--	--	--	5	6.3	
n-Propyl benzene	ug/kg	64	0	0%	--	--	--	5	6.3	
o-Xylene	ug/kg	64	0	0%	--	--	--	5	6.3	
Styrene (monomer)	ug/kg	64	0	0%	--	--	--	5	6.3	
tert-Butyl benzene	ug/kg	64	0	0%	--	--	--	5	6.3	
Tetrachloroethylene	ug/kg	64	0	0%	--	--	--	5	6.3	
Toluene	ug/kg	64	11	17%	0.24	0.65	TSB-BR-06-10	5	6.3	
trans-1,2-Dichloroethylene	ug/kg	64	0	0%	--	--	--	5	6.3	

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

Parameter of Interest	Chemical	Result Unit	Total Count	Detect Count	Detect Frequency	Min. Detect <sup>a</sup>	Max. Detect <sup>a</sup>	Location of Max. Detect	Min. Non-Detect Limit <sup>b</sup>	Max. Non-Detect Limit <sup>b</sup>
VOCs	trans-1,3-Dichloropropylene	ug/kg	64	0	0%	--	--	--	5	6.3
	Tribromomethane	ug/kg	64	0	0%	--	--	--	5	6.3
	Trichloroethylene	ug/kg	64	0	0%	--	--	--	5	6.3
	Vinyl acetate	ug/kg	64	0	0%	--	--	--	5	6.3
	Vinyl chloride	ug/kg	64	0	0%	--	--	--	5	6.3
	Xylenes (total)	ug/kg	64	0	0%	--	--	--	10	13

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 2).

f - Non-cancer hazard indices were calculated by dividing the maximum detected value 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 were calculated by dividing the maximum detected value 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).

j - Reporting limits exceed industrial PRGs; however, in all cases MDL is below PRG.





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

Parameter of Interest	Chemical	Result Unit	Max. Detect <sup>a</sup>	Industrial PRG <sup>c</sup>	PRG Basis	Secondary Industrial PRG <sup>c</sup>	Count of Detects > PRG	SSL (DAF = 1) <sup>c</sup>	Count of Detects > SSL (1)	SSL (DAF = 20) <sup>c</sup>	Count of Detects > SSL (20)
Radionuclides	Radium-226	pCi/g	1.48	0.026	ca	--	64	--	--	--	--
	Radium-228	pCi/g	2.13	0.15	ca	--	64	--	--	--	--
	Thorium-228	pci/g	2.17	0.26	ca	--	63	--	--	--	--
	Thorium-230	pci/g	2.03	20	ca	--	0	--	--	--	--
	Thorium-232	pci/g	2.36	19	ca	--	0	--	--	--	--
	Uranium-233/234	pci/g	2.31	32	ca	--	0	--	--	--	--
	Uranium-235/236	pci/g	0.0509	0.40	ca	--	0	--	--	--	--
Uranium-238	pci/g	1.26	1.8	ca	--	0	--	--	--	--	
SVOCs	1,2,4,5-Tetrachlorobenzene	ug/kg	--	>100,000	nc	--	0	--	--	--	--
	1,2-Diphenylhydrazine	ug/kg	--	2,150	ca	--	0	--	--	--	--
	1,4-Dioxane	ug/kg	--	>100,000	ca	--	0	--	--	--	--
	1-Nonanal	ug/kg	--	--	--	--	--	--	--	--	--
	2,2'-/4,4'-Dichlorobenzil	ug/kg	--	--	--	--	--	14	0	270	0
	2,4,5-Trichlorophenol	ug/kg	--	>100,000	nc	--	0	0.008	0	0.2	0
	2,4,6-Trichlorophenol	ug/kg	--	61,600	nc	>100,000	0	0.05	0	1	0.05
	2,4-Dichlorophenol	ug/kg	--	>100,000	nc	--	0	0.4	0	9	0
	2,4-Dimethylphenol	ug/kg	--	>100,000	nc	--	0	0.01	0	0.3	0
	2,4-Dinitrophenol	ug/kg	--	>100,000	nc	--	0	4E-05	0	0.0008	0
	2,4-Dinitrotoluene	ug/kg	--	>100,000	nc	--	0	0.00003	0	0.0007	0
	2,6-Dinitrotoluene	ug/kg	--	>100,000	nc	--	0	--	--	--	--
	2-Chloronaphthalene	ug/kg	--	>100,000	nc	--	0	0.2	0	4	0
	2-Chlorophenol	ug/kg	--	>100,000	nc	--	0	--	--	--	--
	2-Methylnaphthalene	ug/kg	--	--	--	--	--	--	--	--	--
	2-Nitroaniline	ug/kg	--	>100,000	nc	--	0	--	--	--	--
	2-Nitrophenol	ug/kg	--	--	--	--	--	0.0003	0	0.007	0
	3,3'-Dichlorobenzidine	ug/kg	--	3,830	ca	--	0	--	--	--	--
	3-Methylphenol & 4-Methylphenol	ug/kg	--	--	--	--	--	--	--	--	--
	3-Nitroaniline	ug/kg	--	82,100	ca	>100,000	0	--	--	--	--
	4-Bromophenyl phenyl ether	ug/kg	--	--	--	--	--	--	--	--	--
	4-Chloro-3-Methylphenol	ug/kg	--	--	--	--	--	--	--	--	--
	4-Chlorophenyl phenyl ether	ug/kg	--	--	--	--	--	--	--	--	--
	4-Nitrophenol	ug/kg	--	--	--	--	--	29	0	570	0
	Acenaphthene	ug/kg	1,000	>100,000	nc	--	0	--	--	--	--
	Acenaphthylene	ug/kg	--	--	--	--	--	--	--	--	--
	Acetophenone	ug/kg	--	--	--	--	--	--	--	--	--
	Aniline	ug/kg	--	>100,000	ca	>100,000	0	590	0	12000	0
	Anthracene	ug/kg	--	>100,000	ca	--	0	--	--	--	--
	Azobenzene	ug/kg	--	15,700	ca	--	0	--	--	--	--
	Benzenethiol	ug/kg	--	--	--	--	--	0.08	0	2	0
	Benzo(a)anthracene	ug/kg	55	2,110	ca	--	0	0.4	0	8	0
	Benzo(a)pyrene	ug/kg	19	211	ca	--	0	0.2	0	5	0



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

Parameter of Interest	Chemical	Result Unit	Max. Detect <sup>a</sup>	Industrial PRG <sup>c</sup>	PRG Basis	Secondary Industrial PRG <sup>c</sup>	Count of Detects > PRG	SSL (DAF = 1) <sup>c</sup>	Count of Detects > SSL (1)	SSL (DAF = 20) <sup>c</sup>	Count of Detects > SSL (20)
SVOCs	Phenyl Sulfide	ug/kg	--	--	--	--	--	--	--	--	--
	Phthalic acid	ug/kg	--	--	--	--	--	--	--	--	--
	p-Nitroaniline	ug/kg	--	82,100	ca	>100,000	0	210	0	4200	0
	Pyrene	ug/kg	--	>100,000	nc	--	0	--	--	--	--
	Pyridine	ug/kg	--	>100,000	nc	--	0	--	--	--	--
VOCs	1,1,1,2-Tetrachloroethane	ug/kg	--	7,280	ca	>100,000	0	0.1	0	2	0
	1,1,1-Trichloroethane	ug/kg	--	>100,000	nc	--	0	0.0002	0	0.003	0
	1,1,2,2-Tetrachloroethane	ug/kg	--	929	ca	>100,000	0	0.0009	0	0.02	0
	1,1,2-Trichloroethane	ug/kg	--	1,610	ca	>100,000	0	1	0	23	0
	1,1-Dichloroethane	ug/kg	--	>100,000	nc	--	0	0.003	0	0.06	0
	1,1-Dichloroethylene	ug/kg	--	>100,000	nc	--	0	--	--	--	--
	1,1-Dichloropropene	ug/kg	--	--	--	--	--	--	--	--	--
	1,2,3-Trichlorobenzene	ug/kg	--	--	--	--	--	--	--	--	--
	1,2,3-Trichloropropane	ug/kg	--	76	ca	79,000	0	0.3	0	5	0
	1,2,4-Trichlorobenzene	ug/kg	0.9	>100,000	nc	--	0	--	--	--	--
	1,2,4-Trimethylbenzene	ug/kg	0.57	>100,000	nc	--	0	--	--	--	--
	1,2-Dibromo-3-chloropropane	ug/kg	--	2,020	ca	11,000	0	0.9	0	17	0
	1,2-Dichlorobenzene	ug/kg	--	>100,000	nc	--	0	0.001	0	0.02	0
	1,2-Dichloroethane	ug/kg	--	603	ca	28,000	0	--	--	--	--
	1,2-Dichloroethylene	ug/kg	--	--	--	--	--	0.001	0	0.03	0
	1,2-Dichloropropane	ug/kg	--	742	ca	21,000	0	--	--	--	--
	1,3,5- Trichlorobenzene	ug/kg	--	--	--	--	--	--	--	--	--
	1,3,5-Trimethylbenzene	ug/kg	--	69,700	nc	--	0	--	--	--	--
	1,3-Dichlorobenzene	ug/kg	--	>100,000	nc	--	0	--	--	--	--
	1,3-Dichloropropane	ug/kg	--	>100,000	nc	--	0	0.1	0	2	0
	1,4-Dichlorobenzene	ug/kg	--	7,870	ca	>100,000	0	--	--	--	--
	2,2,3-Trimethylbutane	ug/kg	--	--	--	--	--	--	--	--	--
	2,2-Dichloropropane	ug/kg	--	--	--	--	--	--	--	--	--
	2,2-Dimethylpentane	ug/kg	--	--	--	--	--	--	--	--	--
	2,3-Dimethylpentane	ug/kg	--	--	--	--	--	--	--	--	--
	2,4-Dimethylpentane	ug/kg	--	--	--	--	--	--	--	--	--
	2-Chlorotoluene	ug/kg	--	>100,000	nc	--	0	--	--	--	--
	2-Nitropropane	ug/kg	--	--	--	--	--	--	--	--	--
	2-Phenylbutane	ug/kg	--	--	--	--	--	--	--	--	--
	3,3-dimethylpentane	ug/kg	--	--	--	--	--	--	--	--	--
	3-ethylpentane	ug/kg	--	--	--	--	--	--	--	--	--
	3-Methylhexane	ug/kg	--	--	--	--	--	--	--	--	--
	4-Chlorothioanisole	ug/kg	--	--	--	--	--	--	--	--	--
4-Chlorotoluene	ug/kg	--	--	--	--	--	0.8	0	16	0	
Acetone	ug/kg	16	>100,000	nc	--	0	--	--	--	--	
Acetonitrile	ug/kg	--	>100,000	nc	--	0	0.002	0	0.03	0	

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

Parameter of Interest	Chemical	Result Unit	Max. Detect <sup>a</sup>	Industrial PRG <sup>c</sup>	PRG Basis	Secondary Industrial PRG <sup>c</sup>	Count of Detects > PRG	SSL (DAF = 1) <sup>c</sup>	Count of Detects > SSL (1)	SSL (DAF = 20) <sup>c</sup>	Count of Detects > SSL (20)	
VOCs	Benzene	ug/kg	--	1,410	ca	>100,000	0	--	--	--	--	
	Bromobenzene	ug/kg	--	92,200	nc	--	0	0.03	0	0.6	0	
	Bromodichloromethane	ug/kg	--	1,830	ca	>100,000	0	0.01	0	0.2	0	
	Bromomethane	ug/kg	--	13,100	nc	--	0	2	0	32	0	
	Carbon disulfide	ug/kg	--	>100,000	nc	--	0	0.003	0	0.07	0	
	Carbon tetrachloride	ug/kg	--	549	ca	7,300	0	--	--	--	--	
	Freon 11	ug/kg	--	>100,000	nc	--	0	--	--	--	--	
	Freon 12	ug/kg	--	>100,000	nc	--	0	--	--	--	--	
	Freon 113	ug/kg	--	>100,000	nc	--	0	0.07	0	1	0	
	Chlorobenzene	ug/kg	--	>100,000	nc	--	0	--	--	--	--	
	Chlorobromomethane	ug/kg	--	--	--	--	--	0.02	0	0.4	0	
	Chlorodibromomethane	ug/kg	--	2,550	ca	>100,000	0	--	--	--	--	
	Chloroethane	ug/kg	--	6,490	ca	>100,000	0	0.03	0	0.6	0	
	Chloroform	ug/kg	--	470	ca	>100,000	0	--	--	--	--	
	Chloromethane	ug/kg	--	>100,000	nc	--	0	0.02	0	0.4	0	
	cis-1,2-Dichloroethylene	ug/kg	--	>100,000	nc	--	0	0.0002	0	0.004	0	
	cis-1,3-Dichloropropylene	ug/kg	--	--	--	--	--	--	--	--	--	
	Cymene	ug/kg	--	--	--	--	--	--	--	--	--	
	Dibromomethane	ug/kg	--	>100,000	nc	--	0	0.001	0	0.02	0	
	Dichloromethane	ug/kg	--	20,500	ca	>100,000	0	0.7	0	13	0	
	Ethylbenzene	ug/kg	0.24	>100,000	nc	--	0	--	--	--	--	
	Hexachloro-1,3-butadiene	ug/kg	--	22,100	ca	>100,000	0	0.1	0	2	0	
	Hexachloroethane	ug/kg	--	>100,000	ca	>100,000	0	--	--	--	--	
	Hexane, 2-methyl-	ug/kg	--	--	--	--	--	--	--	--	--	--
	Isopropylbenzene	ug/kg	--	>100,000	nc	--	0	--	--	--	--	
	m,p-Xylene	ug/kg	--	--	--	--	--	--	--	--	--	--
	Methyl disulfide	ug/kg	--	--	--	--	--	--	--	--	--	--
	Methyl ethyl ketone	ug/kg	--	>100,000	nc	--	0	--	--	--	--	--
	Methyl iodide	ug/kg	--	--	--	--	--	--	--	--	--	--
	Methyl isobutyl ketone	ug/kg	--	>100,000	nc	--	0	--	--	--	--	--
	Methyl n-butyl ketone	ug/kg	--	--	--	--	--	--	--	--	--	--
	MTBE (Methyl tert-butyl ether)	ug/kg	--	70,000	ca	>100,000	0	--	--	--	--	--
	n-Butyl benzene	ug/kg	--	>100,000	nc	--	0	--	--	--	--	--
	n-Heptane	ug/kg	--	--	--	--	--	--	--	--	--	--
	n-Propyl benzene	ug/kg	--	>100,000	nc	--	0	--	--	--	--	--
	o-Xylene	ug/kg	--	--	--	--	--	0.2	0	4	0	0
	Styrene (monomer)	ug/kg	--	>100,000	nc	--	0	--	--	--	--	--
	tert-Butyl benzene	ug/kg	--	>100,000	nc	--	0	0.003	0	0.06	0	0
	Tetrachloroethylene	ug/kg	--	1,310	ca	>100,000	0	0.6	0	12	0	0
	Toluene	ug/kg	0.65	>100,000	nc	--	0	0.03	0	0.7	0	0
trans-1,2-Dichloroethylene	ug/kg	--	>100,000	nc	--	0	0.0002	0	0.004	0	0	

**TABLE 1**  
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**TRONOX PARCELS A/B INVESTIGATION**  
**CLARK COUNTY, NEVADA**  
**(Page 14 of 21)**

Parameter of Interest	Chemical	Result Unit	Max. Detect <sup>a</sup>	Industrial PRG <sup>c</sup>	PRG Basis	Secondary Industrial PRG <sup>c</sup>	Count of Detects > PRG	SSL (DAF = 1) <sup>c</sup>	Count of Detects > SSL (1)	SSL (DAF = 20) <sup>c</sup>	Count of Detects > SSL (20)
VOCs	trans-1,3-Dichloropropylene	ug/kg	--	--	--	--	--	0.04	0	0.8	0
	Tribromomethane	ug/kg	--	>100,000	ca	>100,000	0	0.003	0	0.1	0
	Trichloroethylene	ug/kg	--	115	ca	>100,000	0	8	0	170	0
	Vinyl acetate	ug/kg	--	>100,000	nc	--	0	0.0007	0	0.01	0
	Vinyl chloride	ug/kg	--	746	ca	>100,000	0	10	0	210	0
	Xylenes (total)	ug/kg	--	>100,000	nc	--	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 2).

f - Non-cancer hazard indices were calculated by dividing the maximum detected value 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 were calculated by dividing the maximum detected value 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).

j - Reporting limits exceed industrial PRGs; however, in all cases MDL is below PRG.

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**SOIL DATA AND SCREENING-LEVEL RISK ASSESSMENT RESULTS SUMMARY**  
**TRONOX PARCELS A/B INVESTIGATION**  
**CLARK COUNTY, NEVADA**  
 (Page 15 of 21)

Parameter of Interest	Chemical	Result Unit	Max. Detect <sup>a</sup>	Max. Bkgrd <sup>d</sup>	Count of Detects > Bkgrd	Above Bkgrd? <sup>e</sup>	Industrial PRG <sup>c</sup>	PRG Basis	Secondary Industrial PRG <sup>c</sup>	Non-Cancer Hazard Index <sup>f</sup>	Incremental Lifetime Cancer Risk <sup>g</sup>
Dioxins/Furans	TCDD TEF <sup>h</sup>	pg/g	472	--	--	--	1,000	ca	--	--	5 E-7
Asbestos <sup>i</sup>	Chrysotile	Structures	19	--	--	--	--	--	--	--	See Table 4
	Amphibole	Structures	--	--	--	--	--	--	--	--	
General Chemistry	Bromide	mg/kg	7.8	--	--	--	--	--	--	--	--
	Bromine	mg/kg	15.7	--	--	--	--	--	--	--	--
	Chlorate	mg/kg	17	--	--	--	--	--	--	--	--
	Chloride	mg/kg	2,210	1,110	9	--	--	--	--	--	--
	Chlorine	mg/kg	4,410	--	--	--	--	--	--	--	--
	Chlorite	ug/kg	--	--	--	--	--	--	--	--	--
	Fluoride	mg/kg	4.3	2.5	3	--	36,900	nc	--	0.00012	--
	Nitrate (as N)	mg/kg	229	102	1	--	--	--	--	--	--
	Nitrite (as N)	mg/kg	0.45	0.21	1	--	--	--	--	--	--
	Orthophosphate as P	mg/kg	2	--	--	--	--	--	--	--	--
	Perchlorate	ug/kg	41,600	--	--	--	>100,000	--	--	--	--
	Sulfate	mg/kg	8,870	4,130	1	--	--	--	--	--	--
Glycols/Alcohols	Ethanol	ug/kg	--	--	--	--	--	--	--	--	--
Metals	Aluminum	mg/kg	9,750	15,300	0	No	>100,000	nc	--	--	--
	Antimony	mg/kg	0.42	0.5	0	No	409	nc	--	--	--
	Arsenic	mg/kg	5.8	7.2	0	No	1.6	ca	260	--	--
	Barium	mg/kg	269	836	0	No	66,600	nc	--	--	--
	Beryllium	mg/kg	0.65	0.89	0	No	1940	ca	--	--	--
	Boron	mg/kg	--	11.6	0	No	>100,000	nc	--	--	--
	Cadmium	mg/kg	0.59	0.13	22	Yes	451	nc	3,000	0.0013	2 E-10
	Calcium	mg/kg	75,300	82,800	0	No	--	--	--	--	--
	Chromium (Total)	mg/kg	17	16.7	1	Yes	448	nc	--	0.038	--
	Chromium (VI)	mg/kg	0.58	0.32	4	Yes	64	ca	2,500	0.00052	2 E-8
	Cobalt	mg/kg	7.5	16.3	0	No	1,920	ca	--	--	--
	Copper	mg/kg	31	30.5	1	No	40,900	nc	--	--	--
	Iron	mg/kg	17,200	19,700	0	No	>100,000	nc	--	--	--
	Lead	mg/kg	136	35.1	2	Yes	800	nc	--	0.17	--
	Lithium	mg/kg	22.6	26.5	0	No	20,400	nc	--	--	--
	Magnesium	mg/kg	13,600	17,500	0	No	--	--	--	--	--
	Manganese	mg/kg	668	1,090	0	No	19,500	nc	--	--	--
	Mercury	ug/kg	17.5	110	0	No	--	--	--	--	--
	Molybdenum	mg/kg	1.4	2.0	0	Yes	5,110	nc	--	0.00027	--
	Nickel	mg/kg	23.7	30	0	No	20,400	nc	--	--	--
	Niobium	mg/kg	2	2.8	0	Yes	--	--	--	--	--
	Palladium	mg/kg	1.2	1.5	0	No	--	--	--	--	--
	Phosphorus (as P)	mg/kg	1,510	2,010	0	No	--	nc	--	--	--
Platinum	mg/kg	--	0.099	0	No	--	--	--	--	--	
Potassium	mg/kg	4,800	3,890	5	Yes	--	--	--	--	--	



**TABLE 1**  
**SOIL DATA AND SCREENING-LEVEL RISK ASSESSMENT RESULTS SUMMARY**  
**TRONOX PARCELS A/B INVESTIGATION**  
**CLARK COUNTY, NEVADA**  
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Parameter of Interest	Chemical	Result Unit	Max. Detect <sup>a</sup>	Max. Bkgrd <sup>d</sup>	Count of Detects > Bkgrd	Above Bkgrd? <sup>e</sup>	Industrial PRG <sup>c</sup>	PRG Basis	Secondary Industrial PRG <sup>c</sup>	Non-Cancer Hazard Index <sup>f</sup>	Incremental Lifetime Cancer Risk <sup>g</sup>
Radionuclides	Radium-226	pCi/g	1.48	2.36	0	No	0.026	ca	--	--	--
	Radium-228	pCi/g	2.13	2.94	0	No	0.15	ca	--	--	--
	Thorium-228	pci/g	2.17	2.28	0	No	0.26	ca	--	--	--
	Thorium-230	pci/g	2.03	3.01	0	No	20	ca	--	--	--
	Thorium-232	pci/g	2.36	2.23	1	No	19	ca	--	--	--
	Uranium-233/234	pci/g	2.31	2.84	0	No	32	ca	--	--	--
	Uranium-235/236	pci/g	0.0509	0.21	0	No	0.40	ca	--	--	--
Uranium-238	pci/g	1.26	2.37	0	No	1.8	ca	--	--	--	
SVOCs	1,2,4,5-Tetrachlorobenzene	ug/kg	--	--	--	--	>100,000	nc	--	--	--
	1,2-Diphenylhydrazine	ug/kg	--	--	--	--	2,150	ca	--	--	--
	1,4-Dioxane	ug/kg	--	--	--	--	>100,000	ca	--	--	--
	1-Nonanal	ug/kg	--	--	--	--	--	--	--	--	--
	2,2'-/4,4'-Dichlorobenzil	ug/kg	--	--	--	--	--	--	--	--	--
	2,4,5-Trichlorophenol	ug/kg	--	--	--	--	>100,000	nc	--	--	--
	2,4,6-Trichlorophenol	ug/kg	--	--	--	--	61,600	nc	>100,000	--	--
	2,4-Dichlorophenol	ug/kg	--	--	--	--	>100,000	nc	--	--	--
	2,4-Dimethylphenol	ug/kg	--	--	--	--	>100,000	nc	--	--	--
	2,4-Dinitrophenol	ug/kg	--	--	--	--	>100,000	nc	--	--	--
	2,4-Dinitrotoluene	ug/kg	--	--	--	--	>100,000	nc	--	--	--
	2,6-Dinitrotoluene	ug/kg	--	--	--	--	>100,000	nc	--	--	--
	2-Chloronaphthalene	ug/kg	--	--	--	--	>100,000	nc	--	--	--
	2-Chlorophenol	ug/kg	--	--	--	--	>100,000	nc	--	--	--
	2-Methylnaphthalene	ug/kg	--	--	--	--	--	--	--	--	--
	2-Nitroaniline	ug/kg	--	--	--	--	>100,000	nc	--	--	--
	2-Nitrophenol	ug/kg	--	--	--	--	--	--	--	--	--
	3,3'-Dichlorobenzidine	ug/kg	--	--	--	--	3,830	ca	--	--	--
	3-Methylphenol & 4-Methylphenol	ug/kg	--	--	--	--	--	--	--	--	--
	3-Nitroaniline	ug/kg	--	--	--	--	82,100	ca	>100,000	--	--
	4-Bromophenyl phenyl ether	ug/kg	--	--	--	--	--	--	--	--	--
	4-Chloro-3-Methylphenol	ug/kg	--	--	--	--	--	--	--	--	--
	4-Chlorophenyl phenyl ether	ug/kg	--	--	--	--	--	--	--	--	--
	4-Nitrophenol	ug/kg	--	--	--	--	--	--	--	--	--
	Acenaphthene	ug/kg	1,000	--	--	--	>100,000	nc	--	0.01	--
	Acenaphthylene	ug/kg	--	--	--	--	--	--	--	--	--
	Acetophenone	ug/kg	--	--	--	--	--	--	--	--	--
	Aniline	ug/kg	--	--	--	--	>100,000	ca	>100,000	--	--
	Anthracene	ug/kg	--	--	--	--	>100,000	ca	--	--	--
	Azobenzene	ug/kg	--	--	--	--	15,700	ca	--	--	--
	Benzenethiol	ug/kg	--	--	--	--	--	--	--	--	--
Benzo(a)anthracene	ug/kg	55	--	--	--	2,110	ca	--	--	3 E-8	
Benzo(a)pyrene	ug/kg	19	--	--	--	211	ca	--	--	9 E-8	



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

Parameter of Interest	Chemical	Result Unit	Max. Detect <sup>a</sup>	Max. Bkgrd <sup>d</sup>	Count of Detects > Bkgrd	Above Bkgrd? <sup>e</sup>	Industrial PRG <sup>c</sup>	PRG Basis	Secondary Industrial PRG <sup>c</sup>	Non-Cancer Hazard Index <sup>f</sup>	Incremental Lifetime Cancer Risk <sup>g</sup>
SVOCs	Phenyl Sulfide	ug/kg	--	--	--	--	--	--	--	--	--
	Phthalic acid	ug/kg	--	--	--	--	--	--	--	--	--
	p-Nitroaniline	ug/kg	--	--	--	--	82,100	ca	>100,000	--	--
	Pyrene	ug/kg	--	--	--	--	>100,000	nc	--	--	--
	Pyridine	ug/kg	--	--	--	--	>100,000	nc	--	--	--
VOCs	1,1,1,2-Tetrachloroethane	ug/kg	--	--	--	--	7,280	ca	>100,000	--	--
	1,1,1-Trichloroethane	ug/kg	--	--	--	--	>100,000	nc	--	--	--
	1,1,2,2-Tetrachloroethane	ug/kg	--	--	--	--	929	ca	>100,000	--	--
	1,1,2-Trichloroethane	ug/kg	--	--	--	--	1,610	ca	>100,000	--	--
	1,1-Dichloroethane	ug/kg	--	--	--	--	>100,000	nc	--	--	--
	1,1-Dichloroethylene	ug/kg	--	--	--	--	>100,000	nc	--	--	--
	1,1-Dichloropropene	ug/kg	--	--	--	--	--	--	--	--	--
	1,2,3-Trichlorobenzene	ug/kg	--	--	--	--	--	--	--	--	--
	1,2,3-Trichloropropane	ug/kg	--	--	--	--	76	ca	79,000	--	--
	1,2,4-Trichlorobenzene	ug/kg	0.9	--	--	--	>100,000	nc	--	0.000063	--
	1,2,4-Trimethylbenzene	ug/kg	0.57	--	--	--	>100,000	nc	--	0.000063	--
	1,2-Dibromo-3-chloropropane	ug/kg	--	--	--	--	2,020	ca	11,000	--	--
	1,2-Dichlorobenzene	ug/kg	--	--	--	--	>100,000	nc	--	--	--
	1,2-Dichloroethane	ug/kg	--	--	--	--	603	ca	28,000	--	--
	1,2-Dichloroethylene	ug/kg	--	--	--	--	--	--	--	--	--
	1,2-Dichloropropane	ug/kg	--	--	--	--	742	ca	21,000	--	--
	1,3,5-Trichlorobenzene	ug/kg	--	--	--	--	--	--	--	--	--
	1,3,5-Trimethylbenzene	ug/kg	--	--	--	--	69,700	nc	--	--	--
	1,3-Dichlorobenzene	ug/kg	--	--	--	--	>100,000	nc	--	--	--
	1,3-Dichloropropane	ug/kg	--	--	--	--	>100,000	nc	--	--	--
	1,4-Dichlorobenzene	ug/kg	--	--	--	--	7,870	ca	>100,000	--	--
	2,2,3-Trimethylbutane	ug/kg	--	--	--	--	--	--	--	--	--
	2,2-Dichloropropane	ug/kg	--	--	--	--	--	--	--	--	--
	2,2-Dimethylpentane	ug/kg	--	--	--	--	--	--	--	--	--
	2,3-Dimethylpentane	ug/kg	--	--	--	--	--	--	--	--	--
	2,4-Dimethylpentane	ug/kg	--	--	--	--	--	--	--	--	--
	2-Chlorotoluene	ug/kg	--	--	--	--	>100,000	nc	--	--	--
	2-Nitropropane	ug/kg	--	--	--	--	--	--	--	--	--
	2-Phenylbutane	ug/kg	--	--	--	--	--	--	--	--	--
	3,3-dimethylpentane	ug/kg	--	--	--	--	--	--	--	--	--
	3-ethylpentane	ug/kg	--	--	--	--	--	--	--	--	--
	3-Methylhexane	ug/kg	--	--	--	--	--	--	--	--	--
4-Chlorothioanisole	ug/kg	--	--	--	--	--	--	--	--	--	
4-Chlorotoluene	ug/kg	--	--	--	--	--	--	--	--	--	
Acetone	ug/kg	16	--	--	--	>100,000	nc	--	0.00025	--	
Acetonitrile	ug/kg	--	--	--	--	>100,000	nc	--	--	--	

**TABLE 1**  
**SOIL DATA AND SCREENING-LEVEL RISK ASSESSMENT RESULTS SUMMARY**  
**TRONOX PARCELS A/B INVESTIGATION**  
**CLARK COUNTY, NEVADA**  
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Parameter of Interest	Chemical	Result Unit	Max. Detect <sup>a</sup>	Max. Bkgrd <sup>d</sup>	Count of Detects > Bkgrd	Above Bkgrd? <sup>e</sup>	Industrial PRG <sup>c</sup>	PRG Basis	Secondary Industrial PRG <sup>c</sup>	Non-Cancer Hazard Index <sup>f</sup>	Incremental Lifetime Cancer Risk <sup>g</sup>
VOCs	Benzene	ug/kg	--	--	--	--	1,410	ca	>100,000	--	--
	Bromobenzene	ug/kg	--	--	--	--	92,200	nc	--	--	--
	Bromodichloromethane	ug/kg	--	--	--	--	1,830	ca	>100,000	--	--
	Bromomethane	ug/kg	--	--	--	--	13,100	nc	--	--	--
	Carbon disulfide	ug/kg	--	--	--	--	>100,000	nc	--	--	--
	Carbon tetrachloride	ug/kg	--	--	--	--	549	ca	7,300	--	--
	Freon 11	ug/kg	--	--	--	--	>100,000	nc	--	--	--
	Freon 12	ug/kg	--	--	--	--	>100,000	nc	--	--	--
	Freon 113	ug/kg	--	--	--	--	>100,000	nc	--	--	--
	Chlorobenzene	ug/kg	--	--	--	--	>100,000	nc	--	--	--
	Chlorobromomethane	ug/kg	--	--	--	--	--	--	--	--	--
	Chlorodibromomethane	ug/kg	--	--	--	--	2,550	ca	>100,000	--	--
	Chloroethane	ug/kg	--	--	--	--	6,490	ca	>100,000	--	--
	Chloroform	ug/kg	--	--	--	--	470	ca	>100,000	--	--
	Chloromethane	ug/kg	--	--	--	--	>100,000	nc	--	--	--
	cis-1,2-Dichloroethylene	ug/kg	--	--	--	--	>100,000	nc	--	--	--
	cis-1,3-Dichloropropylene	ug/kg	--	--	--	--	--	--	--	--	--
	Cymene	ug/kg	--	--	--	--	--	--	--	--	--
	Dibromomethane	ug/kg	--	--	--	--	>100,000	nc	--	--	--
	Dichloromethane	ug/kg	--	--	--	--	20,500	ca	>100,000	--	--
	Ethylbenzene	ug/kg	0.24	--	--	--	>100,000	nc	--	0.000063	--
	Hexachloro-1,3-butadiene	ug/kg	--	--	--	--	22,100	ca	>100,000	--	--
	Hexachloroethane	ug/kg	--	--	--	--	>100,000	ca	>100,000	--	--
	Hexane, 2-methyl-	ug/kg	--	--	--	--	--	--	--	--	--
	Isopropylbenzene	ug/kg	--	--	--	--	>100,000	nc	--	--	--
	m,p-Xylene	ug/kg	--	--	--	--	--	--	--	--	--
	Methyl disulfide	ug/kg	--	--	--	--	--	--	--	--	--
	Methyl ethyl ketone	ug/kg	--	--	--	--	>100,000	nc	--	--	--
	Methyl iodide	ug/kg	--	--	--	--	--	--	--	--	--
	Methyl isobutyl ketone	ug/kg	--	--	--	--	>100,000	nc	--	--	--
	Methyl n-butyl ketone	ug/kg	--	--	--	--	--	--	--	--	--
	MTBE (Methyl tert-butyl ether)	ug/kg	--	--	--	--	70,000	ca	>100,000	--	--
	n-Butyl benzene	ug/kg	--	--	--	--	>100,000	nc	--	--	--
n-Heptane	ug/kg	--	--	--	--	--	--	--	--	--	
n-Propyl benzene	ug/kg	--	--	--	--	>100,000	nc	--	--	--	
o-Xylene	ug/kg	--	--	--	--	--	--	--	--	--	
Styrene (monomer)	ug/kg	--	--	--	--	>100,000	nc	--	--	--	
tert-Butyl benzene	ug/kg	--	--	--	--	>100,000	nc	--	--	--	
Tetrachloroethylene	ug/kg	--	--	--	--	1,310	ca	>100,000	--	--	
Toluene	ug/kg	0.65	--	--	--	>100,000	nc	--	0.000063	--	
trans-1,2-Dichloroethylene	ug/kg	--	--	--	--	>100,000	nc	--	--	--	

**TABLE 1**  
**SOIL DATA AND SCREENING-LEVEL RISK ASSESSMENT RESULTS SUMMARY**  
**TRONOX PARCELS A/B INVESTIGATION**  
**CLARK COUNTY, NEVADA**  
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Parameter of Interest	Chemical	Result Unit	Max. Detect <sup>a</sup>	Max. Bkgrd <sup>d</sup>	Count of Detects > Bkgrd	Above Bkgrd? <sup>e</sup>	Industrial PRG <sup>c</sup>	PRG Basis	Secondary Industrial PRG <sup>c</sup>	Non-Cancer Hazard Index <sup>f</sup>	Incremental Lifetime Cancer Risk <sup>g</sup>
VOCs	trans-1,3-Dichloropropylene	ug/kg	--	--	--	--	--	--	--	--	--
	Tribromomethane	ug/kg	--	--	--	--	>100,000	ca	>100,000	--	--
	Trichloroethylene	ug/kg	--	--	--	--	115	ca	>100,000	--	--
	Vinyl acetate	ug/kg	--	--	--	--	>100,000	nc	--	--	--
	Vinyl chloride	ug/kg	--	--	--	--	746	ca	>100,000	--	--
	Xylenes (total)	ug/kg	--	--	--	--	>100,000	nc	--	--	--
	<b>Total Non-Cancer Hazard Index:</b>										0.27
<b>Total Incremental Lifetime Cancer Risk:</b>											1 E-6

- 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 2).
- f - Non-cancer hazard indices were calculated by dividing the maximum detected value 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 were calculated by dividing the maximum detected value 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).
- j - Reporting limits exceed industrial PRGs; however, in all cases MDL is below PRG.