

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	Worker Soil MSSL ^c	MSSL Basis	Count of Detects > MSSL	SSL (DAF = 20) ^c	Count of Detects > SSL (20)	SSL (DAF = 1) ^c	Count of Detects > SSL (1)	Max. Bkgrd ^d	Count of Detects > Bkgrd	Above Bkgrd? ^e	Worker Cancer MSSL ^c	Worker Non-Cancer MSSL ^c	Non-Cancer Hazard Index ^f	Incremental Lifetime Cancer Risk ^g	
VOCs	Ethylbenzene	mg/kg	20	0	0%	--	--	--	0.005	0.0055	230	sat	--	13	--	0.7	--	--	--	--	--	6000	--	--	
	Hexane, 2-methyl-	mg/kg	20	0	0%	--	--	--	0.005	0.0055	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	Isopropylbenzene	mg/kg	20	0	0%	--	--	--	0.005	0.0055	520	N	--	--	--	--	--	--	--	--	--	--	520	--	--
	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	34000	sat	0	--	--	--	--	--	--	--	--	--	130000	0.00000017	--
	Methyl iodide	mg/kg	20	0	0%	--	--	--	0.005	0.0055	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Methyl isobutyl ketone	mg/kg	20	0	0%	--	--	--	0.02	0.022	17000	sat	--	--	--	--	--	--	--	--	--	--	52000	--	--
	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	72	C	--	--	--	--	--	--	--	--	--	72	20000	--	--
	n-Butyl benzene	mg/kg	20	0	0%	--	--	--	0.005	0.0055	240	sat	--	--	--	--	--	--	--	--	--	--	560	--	--
	n-Heptane	mg/kg	20	0	0%	--	--	--	0.005	0.0055	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	n-Propyl benzene	mg/kg	20	0	0%	--	--	--	0.005	0.0055	240	sat	--	--	--	--	--	--	--	--	--	--	560	--	--
	o-Xylene	mg/kg	20	0	0%	--	--	--	0.005	0.0055	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Styrene (monomer)	mg/kg	20	0	0%	--	--	--	0.005	0.0055	1700	sat	--	4	--	0.2	--	--	--	--	--	--	20000	--	--
	tert-Butyl benzene	mg/kg	20	0	0%	--	--	--	0.005	0.0055	390	sat	--	--	--	--	--	--	--	--	--	--	500	--	--
	Tetrachloroethylene	mg/kg	20	0	0%	--	--	--	0.005	0.0055	1.7	C	--	0.06	--	0.003	--	--	--	--	--	1.7	2400	--	--
	Toluene	mg/kg	20	2	10%	0.00059	0.00075	TSB-GJ-03 @ 0	0.005	0.0055	520	sat	0	12	0	0.6	0	--	--	--	--	--	22000	0.00000025	--
	trans-1,2-Dichloroethylene	mg/kg	20	0	0%	--	--	--	0.005	0.0055	180	N	--	0.7	--	0.03	--	--	--	--	--	--	180	--	--
	trans-1,3-Dichloropropylene	mg/kg	20	0	0%	--	--	--	0.005	0.0055	1.6	C	--	0.004	--	0.0002	--	--	--	--	--	1.6	48	--	--
	Tribromomethane	mg/kg	20	0	0%	--	--	--	0.005	0.0055	240	C	--	0.8	--	0.04	--	--	--	--	--	240	14000	--	--
	Trichloroethylene	mg/kg	20	0	0%	--	--	--	0.005	0.0055	0.092	C	--	0.06	--	0.003	--	--	--	--	--	0.092	110	--	--
	Vinyl acetate	mg/kg	20	0	0%	--	--	--	0.005	0.0055	1400	N	--	170	--	8	--	--	--	--	--	--	1400	--	--
	Vinyl chloride	mg/kg	20	0	0%	--	--	--	0.005	0.0055	0.86	C	--	0.01	--	0.0007	--	--	--	--	--	0.86	150	--	--
	Xylenes (total)	mg/kg	20	0	0%	--	--	--	0.01	0.011	210	sat	--	210	--	10	--	--	--	--	--	--	640	--	--
Total Non-Cancer Hazard Index:																						0.084			
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 6 Medium-Specific Screening Levels (MSSLs) table, March 2008 (and the 2007 USEPA radionuclide PRG webpage; <http://epa-prgs.ornl.gov/radionuclides>). Values used are the lower of the indoor and outdoor worker soil MSSLs. Several chemicals have both cancer and non-cancer toxicity criteria. For these chemicals USEPA calculates MSSLs for both cancer and non-cancer endpoints; however only the lower value is published in its MSSL table. The other value is included in a separate spreadsheet table. Both values are shown on separate columns on this table and are 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 non-cancer MSSL (lower of indoor/outdoor workers). 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 cancer MSSL (lower of indoor/outdoor workers) 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).

C = Cancer

N = Non-Cancer

sat = Soil Saturation

max = Region 6 Ceiling Limit

SSL = soil screening level

MSSL = medium-specific screening level