

Table 910-1 Parameters
Summary of Lab Results from Sample Collected from Soldier Canyon 25-2 Pit
7/25/2014 - 10/6/2014

Contaminant of Concern in Soil	COGCC Table 910-1 Allowable Conc.	Analysis Results West Sidewall 7/25/2014	Analysis Results East Sidewall 7/25/2014	Analysis Results East Sidewall 8/21/2014	Analysis Results North Sidewall 7/25/2014	Analysis Results South Sidewall 7/25/2014	Analysis Results West Bottom 7/25/2014	Analysis Results West Bottom 8/21/2014	Analysis Results West Bottom 10/6/2014	Analysis Results East Bottom 7/25/2014	Analysis Results East Bottom 8/21/2014	Analysis Results Stockpile 7/25/2014	Analysis Results Stockpile 10/6/2014	Analysis Results Background 7/25/2014	Notes
Organic Compounds															
TPH (DRO + GRO) (mg/kg)	500	330 + ND = 330	3,200 + 27 = 3,227	190 + ND = 190	250 + 51 = 301	130 + 36 = 166	4,200 + 530 = 5,730	1,100 + 47 = 1,147	440 + 19 = 459	2,000 + 160 = 2,160	420 + ND = 420	10,000 + 270 = 10,270	350 + 26 = 376		
Benzene (mg/kg)	0.17	ND	ND		ND	ND	0.25	ND		ND		ND			
Toluene (mg/kg)	85	ND	ND		ND	ND	ND	ND		ND		ND			
Ethylbenzene (mg/kg)	100	ND	ND		ND	ND	0.45			0.098		0.060			
Xylenes (total) (mg/kg)	175	ND	ND		ND	0.2	4.0			0.52		0.35			
Acenaphthene (mg/kg)	1,000	ND	ND		ND	ND	ND	ND		ND		ND			
Anthracene (mg/kg)	1,000	ND	0.020		ND	ND	0.020			0.038		1.3			
Benzo(A)anthracene (mg/kg)	0.22	ND	0.031		ND	ND	ND			ND		0.018			
Benzo(B)fluoranthene (mg/kg)	0.22	ND	ND		ND	ND	ND	ND		ND		ND			
Benzo(K)fluoranthene (mg/kg)	2.2	ND	ND		ND	ND	ND			ND		ND			
Benzo(A)pyrene (mg/kg)	0.022	ND	ND		ND	ND	ND			ND		ND			
Chrysene (mg/kg)	22	ND	0.011		ND	ND	ND			ND		0.011			
Dibenzo(A,H)anthracene (mg/kg)	0.022	ND	ND		ND	ND	ND			ND		ND			
Fluoranthene (mg/kg)	1,000	ND	0.0086		ND	ND	ND			ND		0.027			
Fluorene (mg/kg)	1,000	0.030	ND		ND	0.015	0.44			0.28		1.2			
Indeno(1,2,3,C,D)pyrene (mg/kg)	0.22	ND	ND		ND	ND	ND			ND		ND			
Napthalene (mg/kg)	23	0.021	ND		ND	0.021	1.1			0.54		1.1			
Pyrene (mg/kg)	1,000	ND	0.017		ND	ND	ND			0.0086		0.020			
Inorganics															
Electrical Conductivity (EC) (mmhos/cm)	≤4 or 2x background	0.93	1.6		1.2	1.4	1.1			1.1		1.2		0.78	
Sodium Adsorption Ratio (SAR)	<12	0.65	0.65		0.54	0.68	1.0			3.1		0.82		0.23	
pH	6 to 9	8.7	8.0		8.7	8.3	8.4			9.0		8.0		8.6	
Metals															
Arsenic (mg/kg)	0.39	7.9	9		9.5	9.4	7.4			14	7.9	11		7.5	Typical of background values
Barium (LDNR True Total Barium) (mg/kg)	15,000	260	210		210	240	230			220		300			
Boron (Hot Water Soluble) mg/L	2														required only for orchard location
Cadmium (mg/kg)	70	ND	ND		ND	ND	ND			ND		ND			
Chromium III (mg/kg)	120,000	13	12		14	16	13			18		15			
Chromium VI (mg/kg)	23	ND	ND		ND	ND	ND			ND		ND			
Copper (mg/kg)	3,100	24	22		24	22	23			32		25			
Lead (inorganic) (mg/kg)	400	14	14		15	15	14			17		16			
Mercury (mg/kg)	23	0.039	0.032		0.033	0.029	0.038			0.053		0.11			
Nickel (Soluble Salts) (mg/kg)	1,600	18	16		18	18	17			22		19			
Selenium (mg/kg)	390	ND	ND		2	ND	ND			2.6		ND			
Silver (mg/kg)	390	ND	ND		ND	ND	ND			ND		ND			
Zinc (mg/kg)	23,000	63	64		64	65	72			84		73			