

Comparison of COGCC Table 915-1												
Concentration Levels												
- REM Project No. 479618	Sampling Results											
	Date Sampled:	3/31/2021	3/31/2021	3/31/2021	3/31/2021	3/31/2021	3/31/2021	3/31/2021	3/31/2021	5/18/2021	5/18/2021	5/18/2021
COGCC Table 915-1 Parameters	Sample ID:	W Sample #1	S Sample #2	N Sample #3	Bottom Sample #4	SW Sample #5	NW sample #6	NE Sample #7	SE Sample #8	BG 1	BG 2	BG 3
Organic Compounds in Soil												
Contaminant of Conern	Concentrations											
TPH (total volatile and extractable petroleum hydrocarbons) - GRO (Gasoline Range Organics)	500 mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA	NA	NA
TPH (total volatile and extractable petroleum hydrocarbons) - DRO ( Diesel Range Organics)	500 mg/kg	<50	<50	<50	<50	<50	<50	<50	<50	NA	NA	NA
TPH (total volatile and extractable petroleum hydrocarbons) - ORO ( Oil Range Organics)	500 mg/kg	<50	<50	<50	<50	<50	<50	<50	<50	NA	NA	NA
Benzene	1.2 mg/kg	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	NA	NA	NA
Toluene	490 mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	NA	NA	NA
Ethylbenzene	5.8 mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	NA	NA	NA
Xylenes (total)	58 mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	NA	NA	NA
1,2,4-trimethylbenzene	30 mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	NA	NA
1,3,5-trimethylbenzene	27 mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	NA	NA
Acenaphthene	360 mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	NA	NA
Anthracene	1,800 mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005	0.0109	<0.005	<0.005	NA	NA	NA
Benzo(A)anthracene	1.1 mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	NA	NA
Benzo(B)fluoranthene	1.1 mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	NA	NA
Benzo(K)fluoranthene	11 mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	NA	NA
Benzo(A)pyrene	0.11 mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	NA	NA
Chrysene	110 mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	NA	NA
Dibenzo(A,H)andthracene	0.11 mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	NA	NA
Fluoranthene	240 mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005	0.0057	<0.005	<0.005	NA	NA	NA
Fluorene	240 mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	NA	NA
Indeno(1,2,3,C,D)pyrene	1.1 mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	NA	NA
Napthalene	2 mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	NA	NA
Pyrene	180 mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005	0.00537	<0.005	<0.005	NA	NA	NA
Soil Suitability for Reclamation												
Electrical Conductivity (EC)	< 4 mmhos/cm	0.362	4.19	3.91	0.909	3.91	1.62	1.26	3.59	NA	NA	NA
Sodium Adsorption Ration (SAR)	< 12	0.959	3.44	3.79	2.62	5.24	4.62	4.65	6.7	NA	NA	NA
pH	6-8.3	8.60	7.84	8.08	8.38	8.17	8.45	8.44	8.34	NA	NA	NA
boron (hot water soluble soil extract)	2 mg/l	0.49	0.31	0.42	0.36	0.49	0.34	0.37	0.45	NA	NA	NA
Metals in Soils												
Contaminant of Conern	Concentrations											
Arsenic	0.68 mg/kg	5.91	10.3	5.66	4.55	9.57	9.71	7.23	8.92	5.77	5.86	6.29
Barium (LDNR True Total Barium)	15,000 mg/kg	214	255	165	175	268	266	227	222	NA	NA	NA
Cadmium	71 mg/kg	0.316	0.608	0.445	0.286	0.697	0.439	0.383	0.547	NA	NA	NA
Chromium (VI)	0.3 mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	NA	NA	NA
Copper	3,100 mg/kg	18.7	25.8	20.9	14.8	28.2	25.5	19.2	24	NA	NA	NA
Lead (inorganic)	400 mg/kg	13.4	19.1	19.4	9.26	20.8	18.5	13.9	16.6	NA	NA	NA
Nickel (soluble salts)	1,500 mg/kg	18.5	27.5	15	15.3	24.7	27.3	20.4	26	NA	NA	NA
Selenium	390 mg/kg	1.36	1.95	1.35	1.26	2.18	2.04	1.48	1.82	NA	NA	NA
Silver	390 mg/kg	0.144	0.189	0.22	0.0596	0.207	0.183	0.145	0.154	NA	NA	NA
Zinc	23,000 mg/kg	74.3	101	0.446	61.1	116	107	82.4	97.7	NA	NA	NA