

Table 915-1			Citation Oil and Gas MPU Flow Line Leak Soil Sampling Analytical Summary April 12 and July 7, 2022												
Contaminant of Concern	Concentrations		Background Samples			Soil Investigation Samples									
		Sample ID	MPU_BG_SS_0 1@2' (4/12/22)	BG_SS_02 (7/20/22)	BG_SS_03 (7/20/22)	MPU_SS_01 @ 2' (4/12/22)	MPU_SS_02 @2' (4/12/22)	MPU_SS_03 @ 2' (4/12/22)	MPU_SS_04 @ 2' (4/12/22)	MPU_SS_05 @ 3' (4/12/22)	SS-06 @ 2' (7/20/22)	SS-07 @ 1' (7/20/22)	SS-08 @ 2' (7/20/22)	SS-09 @ 2' (7/20/22)	SS-10 @ 3' (7/20/22)
		Depth - BGS (Feet)	2	1	1	2	2	2	2	3	2	1	2	2	3
Organic Compounds in Soil	RSSL	Units													
TPH-TVPH (Gasoline Range Organics-C6-C10))	500	mg/kg	NA	NA	NA	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
TPH-TEPH (Diesel Range Organics- C10-C28)		mg/kg	NA	NA	NA	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
TPH-ORO (Oil Range Organics-C28- C36)		mg/kg	NA	NA	NA	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0	<50.0
Total TPH (GRO+DRO+ORO)		mg/kg	NA	NA	NA	<500.0	<500.0	<500.0	<500.0	<500.0	<500.0	<500.0	<500.0	<500.0	<500.0
Benzene	1.2	mg/kg	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	490	mg/kg	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	5.8	mg/kg	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes (total)	58	mg/kg	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	30	mg/kg	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	27	mg/kg	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	360	mg/kg	NA	NA	NA	0.00718	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	1800	mg/kg	NA	NA	NA	0.00213	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(A)anthracene	1.1	mg/kg	NA	NA	NA	ND	ND	ND	ND	0.000936	ND	ND	ND	ND	ND
Benzo(B)fluoranthene	1.1	mg/kg	NA	NA	NA	0.0035	ND	ND	ND	0.00235	ND	ND	ND	ND	ND
Benzo(K)fluoranthene	11	mg/kg	NA	NA	NA	ND	ND	ND	ND	0.00215	ND	ND	ND	ND	ND
Benzo(A)pyrene	0.11	mg/kg	NA	NA	NA	ND	ND	ND	ND	0.000919	ND	ND	ND	ND	ND
Chrysene	110	mg/kg	NA	NA	NA	0.0198	ND	ND	ND	0.00148	ND	ND	ND	ND	ND
Dibenzo(A,H)anthracene	0.11	mg/kg	NA	NA	NA	ND	ND	ND	ND	0.00302	ND	ND	ND	ND	ND
Fluoranthene	240	mg/kg	NA	NA	NA	0.00212	ND	ND	ND	0.000493	ND	ND	ND	ND	ND
Fluorene	240	mg/kg	NA	NA	NA	0.038	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3,C,D)pyrene	1.1	mg/kg	NA	NA	NA	ND	ND	ND	ND	0.00319	ND	ND	ND	ND	ND
1-Methylnaphthalene	18	mg/kg	NA	NA	NA	0.0509	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	24	mg/kg	NA	NA	NA	0.0367	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	2	mg/kg	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	180	mg/kg	NA	NA	NA	0.0109	ND	ND	ND	ND	ND	ND	ND	ND	ND
Soil Suitability for Reclamation															
Electrical Conductivity (EC)	<4 mmhos/cm	mmhos/cm	NA	0.432	2.64	43.2	41.7	28.5	47.6	15.3	26.3	0.436	24.9	13.4	17.6
Sodium Adsorption Ratio (SAR)	< 6	ratio	16.8	5.47	31.3	56.3	59.2	39.0	64.2	24.9	22.5	1.17	34.2	10.2	56.4
pH	6.0-8.3	su	NA	NA	NA	7.32	7.41	7.73	7.38	7.41	7.1	8.0	7.7	7.5	7.6
Boron (Hot Water Soluble)	2	mg/l	1.38	ND	ND	8.09	6.42	5.71	9.53	10.3	ND	ND	7.04	ND	3.61
Metals in Soils	RSSL														
Arsenic	0.68	mg/kg	5.64	ND	0.65	3.71	4.57	3.49	4.13	3.51	4.5	3.8	1.3	2.4	0.52
Barium	15,000	mg/kg	NA	NA	NA	197	112	258	155	210	10.7	78.9	2.59	5.26	12.8
Cadmium	71	mg/kg	NA	NA	NA	0.139	0.149	0.193	0.133	0.203	ND	ND	ND	ND	ND
Chromium (Hexavalent)	0.3	mg/kg	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Copper	3,100	mg/kg	NA	NA	NA	41.1	14.2	14.1	13.4	15.9	2.41	2.39	1.16	1.86	2.33
Lead	400	mg/kg	NA	NA	NA	11.10	9.81	11.9	9.5	13.2	4.76	3.42	3.46	3.65	6.34
Nickel	1,600	mg/kg	NA	NA	NA	18.4	17.3	19.1	14.8	20.9	5.04	3.70	3.09	4.68	6.83
Selenium	390	mg/kg	NA	NA	NA	0.528	0.53	0.648	0.521	0.714	1.1	1.2	ND	0.59	ND
Silver	390	mg/kg	NA	NA	NA	0.0323	0.0358	0.0306	0.0331	0.0236	ND	ND	ND	ND	ND
Zinc	23,000	mg/kg	NA	NA	NA	60.3	58.5	60.7	54.4	67.6	7.09	4.39	3.00	4.68	8.13

\*Groundwater was not encountered during excavation and therefore parameters not applicable and not included in table NA

\*Concentrations in red font exceed Table 915-1 standards

mg/kg - milligrams per kilogram

mmhos/cm - millimhos per centimeter