

Laramie Energy - Baker Canyon Spill
Q3 - 2022 Groundwater Analytical Results

Location/Date	Benzene MCL = 5 ug/L	Toluene MCL = 560 - 1,000 µg/L	Ethylbenzene MCL = 700 µg/L	Xylenes MCL = 1,400-10,000 µg/L	Naphthalene MCL = 140 µg/L	1,2,4 - Trimethylbenze MCL = 67 µg/L	1,3,5 - Trimethylbenzene MCL = 67 µg/L	Chloride 250 mg/L or <1.25 x background (104.25)	Sulfate 250 mg/L or <1.25 x background mg/L (1,046.25)	Total Dissolved Solids MCL = <1.25 x background mg/L (2,262.5)	Depth to Groundwater (ft)	Temperature (°C)	Dissolved Oxygen Saturation (%)	Dissolved Oxygen (mg/L)	Specific Conductivity (mS/cm)	Total Dissolved Solids (mg/L)	Salinity (%)	pH (eu)	
Organic Compounds								General Chemistry				Field Parameters							
Conn Creek (SW1 - Surface Water)																			
7/20/2022	<1.0	<1.0	<1.0	<3.0	<5.0	<1.0	<1.0	58.0	211	749	NA	23.8	57.5	4.87	1.27	0.8255	0.63	8.76	
9/27/2022	<1.0	<1.0	<1.0	<3.0	<5.0	<1.0	<1.0	60.7	231	814	NA	NT	NT	NT	NT	NT	NT	NT	
MW1 (BG)												Total Depth - 54.63'							
7/20/2022	<1.0	0.322 J	0.162 J	<3.0	<5.0	<1.0	<1.0	67.2	616	1380	26.97	16.1	65.3	6.4	2.01	1.313	1.03	8.17	
9/26/2022	<1.0	0.441 J	0.224 J	0.174 J	<5.0	<1.0	<1.0	58.7	278	914	33.99	14.1	42.6	4.09	1.478	0.963	0.75	7.34	
MW2												Total Depth - 42.12'							
7/20/2022	12.1	<1.0	<1.0	<3.0	<5.0	<1.0	<1.0	94.2	866	1750	24.51	17.5	51.4	3.07	2.52	1.638	1.3	8.17	
9/26/2022	0.801 J	0.293 J	0.244 J	<3.0	<5.0	<1.0	0.112 J	76.3	771	1530	25.48	15.5	22.3	2.09	2.197	1.428	1.13	7.14	
MW3												Total Depth - 45.40'							
7/20/2022	3.83	<1.0	0.318 J	2.06 J	<5.0	<1.0	0.160 J	79.8	712	1490	26.22	17.8	26.1	2.47	2.13	1.3845	1.10	8.21	
9/26/2022	39.7	0.306 J	2.27	8.02	<5.0	<1.0	<1.0	75.4	724	1470	27.70	15.5	11.1	1.03	2.15	1.398	1.11	7.25	
MW4												Total Depth - 43.15'							
7/20/2022	7.52	<1.0	<1.0	<3.0	<5.0	<1.0	<1.0	113	940	1510	24.78	17.1	37.9	3.65	2.74	1.781	1.43	8.34	
9/26/2022	0.678 J	0.400 J	0.295 J	3.37	<5.0	7.56	5.28	109	971	1590	25.84	14.8	23.5	2.20	2.853	1.855	1.49	7.47	
MW5												Total Depth - 43.35'							
7/20/2022	177	<1.0	15.4	10.7 J	<5.0	<1.0	<1.0	81.8	758	1540 J	25.99	15.8	22.2	2.08	2.29	1.4815	1.19	8.09	
9/26/2022	156	7.52	9.04	12.9	<5.0	0.823 J	1.03 J	75.6	767	1490	27.16	14.5	16.4	1.57	2.245	1.459	1.16	7.06	
MW6												Total Depth - 36.60'							
7/20/2022	<1.0	0.428 J	0.337 J	0.212 J	<5.0	<1.0	<1.0	148	1240	2030	23.81	18	27.6	2.47	3.28	2.132	1.72	8.14	
9/26/2022	0.123 J	0.552 J	0.451 J	0.320 J	1.64 J	<1.0	<1.0	106	880	1610	24.72	14.4	17.3	1.73	2.424	1.576	1.26	7.24	
MW7												Total Depth - 37.94'							
7/21/2022	0.100 J	0.323 J	0.373 J	0.388 J	1.01 J	2.23	0.212 J	168	1410	2650	23.40	15.8	41.1	4.02	3.43	2.236	1.81	8.05	
9/26/2022	<1.0	0.512 J	0.293 J	<3.0	<5.0	<1.0	<1.0	100	996	1940	24.29	14.1	24.3	2.38	2.728	1.773	1.42	7.22	
MW8												Total Depth - 33.50'							
7/21/2022	0.113 J	0.679 J	0.544 J	0.383 J	<5.0	0.489 J	<1.0	155	1200	2580	22.10	15.1	21.9	2.17	3.2	2.08	1.68	8.09	
9/26/2022	<1.0	<1.0	<1.0	<3.0	<5.0	<1.0	<1.0	132	1100	2080	23.17	14.5	14.4	1.42	2.988	1.941	1.56	7.14	
MW9												Total Depth - 34.17'							
7/21/2022	351	0.785 J	47.6	252	<5.0	19.7	20.2	84.3	710	1530	24.95	16.1	17.1	1.69	2.23	1.4495	1.15	8.01	
9/26/2022	214	1.48	28.3	101	<5.0	7.25	9.19	84.1	629	1460	26.08	14.6	20.7	1.98	2.189	1.423	1.13	7.06	
MW10												Total Depth - 39.05'							
7/21/2022	<1.0	0.347 J	0.279 J	0.461 J	<5.0	<1.0	<1.0	79.7	624	1460	25.95	15.1	23.1	2.21	2.12	1.378	1.09	8.02	
9/26/2022	<1.0	0.390 J	0.148 J	<3.0	<5.0	<1.0	<1.0	85.5	948	1520	28.28	14.9	42	3.85	2.216	1.441	1.14	7.12	
MW11												Total Depth - 34.64'							
7/21/2022	4.95	0.424 J	0.742 J	0.404 J	<1.0	<1.0	0.268 J	95.6	842	1620	24.95	17.1	15	1.5	2.5	1.625	1.3	8.22	
9/26/2022	0.728 J	0.342 J	0.810 J	1.09 J	<5.0	<1.0	0.172 J	83.7	758	1620	26.08	14.8	15.1	1.39	2.274	1.479	1.17	7.05	
MW12												Total Depth - 37.16'							
7/21/2022	0.395 J	0.331 J	0.241 J	0.204 J	<1.0	<1.0	<1.0	99.8	810	1460	25.10	15.7	14.8	1.35	2.47	1.6055	1.27	8.03	
9/26/2022	0.328 J	<1.0	<1.0	<3.0	<5.0	<1.0	<1.0	90.8	685	1440	26.41	14.1	33.5	3.31	2.251	1.463	1.16	7.07	

Over COGCC Table 915-1 concentration levels

µg/L - micrograms per liter
mg/kg - milligrams per kilogram
mg/L - milligrams per liter
J - indicates an estimated value
J4 - The associated batch QC was outside the established quality control range for accuracy.
mmhos/cm - millimhos per centimeter
mv - millivolts
su - standard units
NA - not applicable
NT - parameter was not tested
ND - not detected above method detection limit