

**CAMECO RESOURCES
CROW BUTTE OPERATION**



**86 Crow Butte Road
P.O. Box 169
Crawford, Nebraska 69339-0169**

**(308) 665-2215
(308) 665-2341 – FAX**

November 17, 2017

**USPS PRIORITY MAIL
SIGNATURE CONFIRMATION**

Marty Link, Water Quality Division Administrator
Nebraska Department of Environmental Quality
P.O. Box 98922
Lincoln, NE 68509-8922

Class III UIC Permit NE0122611
October 2017 Monthly Restoration Report

Dear Ms. Link:

Please find enclosed the October 2017 Monthly Restoration Reports for Mine Units 2, 3, 4, 5 and 6. The reverse osmosis (RO) units continue to inject permeate and reductant into Mine Units 4, 5, and 6 with groundwater sweep continuing in portions of the three mine units. Spot treatment with permeate and reductant continued in P246 in Mine Unit 3.

Mine Unit 2 remained in stability monitoring.

If you have any questions regarding this submittal, please feel free to contact me at (308) 665-2215, ext. 117.

Sincerely,
Cameco Resources
Crow Butte Operation

Walter D. Nelson
SHEQ Coordinator

Enclosures: As Stated

cc: Ron Burrows – NRC
CBO - File
ec: CR – Electronic File
Kory Winters – NDEQ Field Office
Amanda Jones – NDEQ Program Coordinator

CROW BUTTE MINE

MONTHLY RESTORATION REPORT

October 2017

MINE UNIT 2

1. RESTORATION ACTIVITY DURING MONTH:

	YES	NO	
a. Groundwater Transfer		X	(if yes, complete part 2)
b. Groundwater Sweep		X	(if yes, complete part 3)
c. Groundwater Treatment		X	
d. Wellfield Recirculation		X	
e. Other (explain):	X		The Mine Unit is in Stability Monitoring.

2. LIST WELLS USED IN GROUNDWATER TRANSFER DURING THE MONTH:

3. LIST WELLS USED IN GROUNDWATER SWEEP DURING THE MONTH:

4. LIST WELLS SAMPLED DURING MONTH AND ASSAY RESULTS:

No wells were sampled during the month.

CROW BUTTE MINE
MONTHLY RESTORATION REPORT

October 2017

MINE UNIT 3

1. RESTORATION ACTIVITY DURING MONTH:

	YES	NO	
a. Groundwater Transfer		X	(if yes, complete part 2)
b. Groundwater Sweep		X	(if yes, complete part 3)
c. Groundwater Treatment	X		RO and Reductant P246
d. Wellfield Recirculation		X	
e. Other (explain):			

2. LIST WELLS USED IN GROUNDWATER TRANSFER DURING THE MONTH:

3. LIST WELLS USED IN GROUNDWATER SWEEP DURING THE MONTH:

4. LIST WELLS SAMPLED DURING MONTH AND ASSAY RESULTS:

P246

Mine Unit 3 Restoration Data

Well Name	Date	Alk	Ca	Cl	Mg	Na	SO4	Cond	pH	TDS	Fe	U	V
P246	10/18/2017	466	32	165	7	424	293	2076	7.55	1277	0.014	2.6	0.04
	10/31/2017	467	33.76	172	7.643	421.2	309.9	2041	7.48	1257	0.051	3.454	0.074
	10/4/2017	530	41.45	204	8.845	460.5	356.5	2472	7.72	1578	0.07	3.482	0.042

CROW BUTTE MINE

MONTHLY RESTORATION REPORT

October 2017

MINE UNIT 4

1. RESTORATION ACTIVITY DURING MONTH:

	YES	NO	
a. Groundwater Transfer		X	(if yes, complete part 2)
b. Groundwater Sweep	X		(if yes, complete part 3)
c. Groundwater Treatment	X		RO and Reductant P392, P410, P430, I539P, I544P, I545P, I546P, P6023, P6024, and P6029.
d. Wellfield Recirculation		X	
e. Other (explain):			

2. LIST WELLS USED IN GROUNDWATER TRANSFER DURING THE MONTH:

3. LIST WELLS USED IN GROUNDWATER SWEEP DURING THE MONTH:

BL-10, CM2-4, and P372.

4. LIST WELLS SAMPLED DURING MONTH AND ASSAY RESULTS:

CM2-3, CM2-4, CM3-9, CM3-10, P372, P390, P392, P410, P430, P456, I508P, I526P, I533P, I539P, I543P, I544P, I545P, I546P, I548P, I549P, I551P, I552P, P6023, P6024, and P6029.

Mine Unit 4 Restoration Data

Well Name	Date	Alk	Ca	Cl	Mg	Na	SO4	Cond	pH	TDS	Fe	U	V
CM2-3	10/31/2017	330.0	8.57	77.0	1.97	245.8	113.2	1128	8.15	680	0.024	0.646	0.197
CM2-4	10/4/2017	373.0	16.23	162.0	4.11	345.7	262.5	1837	7.75	1138	0.023	0.523	-0.011
	10/18/2017	375.0	16.04	158.0	4.17	386.1	262.2	1863	7.78	1152	0.027	0.517	-0.021
	10/31/2017	378.0	16.60	161.0	4.30	392.7	272.2	1842	7.76	1141	0.022	0.564	0.048
CM3-10	10/18/2017	202.0	5.34	48.0	0.88	158.9	66.3	760	7.68	526	0.339	0.082	0.069
CM3-9	10/18/2017	189.0	6.26	31.0	0.74	122.4	31.8	580	8.40	371	0.008	0.492	0.997
I508P	10/18/2017	252.0	6.35	80.0	1.01	213.5	104.7	1070	7.98	642	0.465	0.529	0.012
I526P	10/18/2017	152.0	9.34	40.0	1.45	101.4	51.2	561	7.76	259	0.016	0.280	0.005
I533P	10/18/2017	237.0	3.84	33.0	0.46	151.3	36.4	694	8.60	485	0.055	0.616	0.375
I539P	10/18/2017	407.0	20.06	137.0	5.48	365.2	221.3	1786	7.82	1111	0.002	1.786	0.295
	10/31/2017	406.0	20.38	142.0	5.55	373.6	228.2	1752	7.74	1095	0.009	1.839	0.323
I543P	10/18/2017	317.0	11.19	62.0	2.60	224.6	94.1	1086	8.02	652	0.018	1.200	0.010
I544P	10/4/2017	681.0	55.14	207.0	15.04	547.8	466.9	2853	7.36	1850	0.002	2.955	0.330
	10/18/2017	654.0	49.44	187.0	13.87	559.3	425.7	2749	7.33	1774	0.023	2.693	0.264
	10/31/2017	626.0	45.72	184.0	12.85	541.2	397.6	2558	7.36	1635	-0.002	2.707	0.291
I545P	10/4/2017	562.0	37.41	156.0	9.89	426.5	324.9	2240	7.37	1390	0.003	1.987	0.363
	10/18/2017	550.0	34.11	144.0	9.18	451.4	309.2	2208	7.36	1366	-0.001	1.718	0.283
	10/31/2017	537.0	32.35	142.0	8.71	449.6	298.8	2121	7.39	1302	-0.002	1.768	0.281
I546P	10/4/2017	591.0	45.67	185.0	12.11	466.5	380.0	2479	7.27	1580	0.036	1.347	0.030

Mine Unit 4 Restoration Data

Well Name	Date	Alk	Ca	Cl	Mg	Na	SO4	Cond	pH	TDS	Fe	U	V
	10/18/2017	557.0	38.87	200.0	10.50	471.4	342.0	2321	7.30	1453	0.057	1.157	0.094
	10/31/2017	533.0	35.79	163.0	9.75	448.6	329.1	2161	7.34	1329	0.025	1.124	0.079
I548P	10/18/2017	472.0	25.53	140.0	5.66	403.1	256.7	1983	7.65	1222	0.177	1.674	0.254
I549P	10/18/2017	159.0	8.22	36.0	1.10	118.7	54.5	621	7.71	400	0.043	1.961	0.046
I551P	10/18/2017	555.0	37.21	164.0	8.64	475.2	326.3	2356	7.68	1486	0.201	2.732	0.461
I552P	10/18/2017	218.0	46.09	124.0	0.66	140.7	34.0	920	7.90	583	0.021	0.083	0.151
P372	10/4/2017	374.0	17.52	131.0	4.25	307.3	211.4	1641	7.44	1036	0.035	6.536	0.156
P390	10/18/2017	365.0	9.68	100.0	2.18	299.1	150.0	1443	8.08	908	0.005	1.814	0.026
P392	10/4/2017	569.0	39.30	144.0	10.16	414.9	314.7	2207	7.54	1365	0.002	1.680	0.216
	10/18/2017	498.0	34.32	133.0	9.02	406.3	270.8	2025	7.54	1247	0.011	1.514	0.250
	10/31/2017	471.0	31.99	126.0	8.36	387.3	254.1	1861	7.53	1150	-0.001	1.398	0.297
P410	10/4/2017	536.0	37.00	141.0	9.25	394.1	305.0	2092	7.41	1286	0.009	1.823	0.250
	10/18/2017	499.0	30.04	117.0	7.82	400.9	267.5	1959	7.46	1211	0.000	1.645	0.191
	10/31/2017	460.0	25.20	107.0	6.54	362.0	232.8	1731	7.48	1083	0.000	1.604	0.195
P430	10/4/2017	387.0	16.59	115.0	4.52	288.1	187.3	1555	7.61	991	0.008	1.170	0.193
P456	10/18/2017	638.0	71.40	170.0	18.01	508.4	428.0	2732	7.43	1762	0.059	1.918	0.174
P6023	10/4/2017	355.0	15.01	89.0	3.79	278.7	210.1	1467	7.35	916	0.015	0.608	0.014
P6024	10/4/2017	515.0	32.40	127.0	7.98	386.2	303.4	2038	7.35	1255	0.066	0.551	-0.004
	10/18/2017	509.0	31.73	133.0	8.12	418.2	294.7	2039	7.11	1256	0.050	0.544	-0.014

Mine Unit 4 Restoration Data

Well Name	Date	Alk	Ca	Cl	Mg	Na	SO4	Cond	pH	TDS	Fe	U	V
	10/31/2017	511.0	32.21	131.0	8.17	415.3	308.5	2005	7.35	1235	0.057	0.525	-0.009
P6029	10/4/2017		169.10	456.0	44.24	1242.0	1314.0	6061	7.09	3800	0.174	6.643	0.053
	10/18/2017		161.80	445.0	41.99	1214.0	1231.0	6134	7.11	3894	0.001	6.139	0.029
	10/31/2017		166.80	448.0	43.04	1214.0	1259.0	5904	7.11	3704	0.197	6.249	0.007

CROW BUTTE MINE

MONTHLY RESTORATION REPORT

October 2017

MINE UNIT 5

1. RESTORATION ACTIVITY DURING MONTH:

	YES	NO	
a. Groundwater Transfer		X	(if yes, complete part 2)
b. Groundwater Sweep	X		(if yes, complete part 3)
c. Groundwater Treatment	X		RO and Reductant BL5-3, I685P, I688P, P691, P694, and P1156.
d. Wellfield Recirculation		X	
e. Other (explain):		X	

2. LIST WELLS USED IN GROUNDWATER TRANSFER DURING THE MONTH:

3. LIST WELLS USED IN GROUNDWATER SWEEP DURING THE MONTH:
P699, and P1002.

4. LIST WELLS SAMPLED DURING MONTH AND ASSAY RESULTS:

BL-14, BL-16, BL5-1, BL5-2, BL5-3, BL5-4, BL5-5, CM2-9, CM2-10, CM3-1, CM3-2, CM3-3, CM5-11, CM5-19, CPW-1, I675P, I676P, I678P, P679, P680, P682, P683, I685P, I686P, I687P, I688P, P690, P691, I692P, I693P, P694, P695, I696P, P699, P751, P810, P837, P889, P1002, P1050, P1060, P1075, P1117, P1137, P1156, P1209, and P1885.

Mine Unit 5 Restoration Data

Well Name	Date	Alk	Ca	Cl	Mg	Na	SO4	Cond	pH	TDS	Fe	U	V
BL-14	10/4/2017	225	8.60	33.7	0.63	138.8	77.3	745	8.29	522	0.021	0.140	-0.005
BL16	10/4/2017	333	7.12	60.5	1.08	224.6	119.8	1137	8.23	683	0.091	0.473	0.000
	10/18/2017	322	6.37	66	1.21	247.7	120.5	1185	8.13	711	0.147	0.442	-0.018
BL5-1	10/4/2017	243	4.19	41.4	0.56	154.4	75.1	809	8.43	530	0.018	0.203	-0.018
BL5-2	10/4/2017	278	7.33		1.61	223.7	138.3	1159	8.18	697	0.675	0.104	0.020
BL5-3	10/4/2017	376	18.74	151	4.55	349.0	275.9	1854	7.93	1146	0.033	0.063	-0.017
	10/18/2017	372	17.92	156	4.54	385.6	274.0	1887	7.87	1166	-0.001	0.051	-0.021
	10/31/2017	370	18.28	153	4.60	398.5	276.0	1841	7.88	1140	0.025	0.073	-0.004
BL5-4	10/4/2017	416	13.80		3.28	324.4	216.2	1659	8.13	1045	0.060	0.216	0.017
BL5-5	10/4/2017	193	15.25	80.2	0.71	151.8	79.1	850	7.97	536	0.063	0.057	0.004
CM2-10	10/4/2017	368	22.29	136	3.19	310.4	220.6	1665	8.03	1048	0.057	8.282	0.007
CM2-9	10/4/2017	239	4.56	35	0.69	140.2	55.2	744	8.54	522	0.548	0.411	0.003
CM3-1	10/4/2017	229	9.24	36	0.52	144.8	74.4	799	8.13	529	0.094	0.232	0.332
CM3-2	10/4/2017	172	3.74	33.1	0.13	118.6	69.0	636	8.40	404	0.028	0.026	-0.002
CM3-3	10/4/2017	300	8.34	79.6	1.67	239.5	159.6	1231	8.10	739	0.377	3.674	0.295
CM5-11	10/31/2017	307	14.74	176	3.70	404.1	343.3	1922	8.01	1186	0.008	0.039	-0.012
CM5-19	10/31/2017	298	15.49	160	3.88	369.0	310.9	1779	8.05	1108	0.037	0.024	0.001
CPW-1	10/4/2017	315	6.54	69.9	1.24	228.5	131.1	1160	8.39	699	0.004	1.514	-0.002
	10/18/2017	301	5.69	73	1.27	245.7	129.6	1200	8.36	716	0.025	1.545	-0.002
i1126P	10/4/2017	275	25.17		0.76	179.2	76.3	1018	8.47	613	0.052	1.183	0.394
i675P													

Mine Unit 5 Restoration Data

Well Name	Date	Alk	Ca	Cl	Mg	Na	SO4	Cond	pH	TDS	Fe	U	V
	10/4/2017	241	5.55	72	0.65	200.9	135.9	1101	8.00	670	0.189	0.315	0.185
I676P													
	10/4/2017	379	24.09	156	2.44	328.0	224.8	1799	8.30	1119	0.068	2.565	0.100
I678P													
	10/4/2017	390	16.82		2.14	280.4	170.3	1440	8.26	906	0.100	3.794	0.111
I685P													
	10/4/2017	436	17.34	169	4.61	393.5	315.8	2099	7.97	1291	0.002	1.966	0.281
	10/18/2017	431	16.71	164	4.55	432.2	309.6	2134	7.93	1311	0.175	1.871	0.238
	10/31/2017	427	16.76	161	4.69	434.4	319.9	2075	7.89	1277	-0.001	1.925	0.276
I686P													
	10/31/2017	306	22.80	202	3.24	395.3	323.5	1856	8.02	1147	0.124	1.265	0.044
I687P													
	10/4/2017	279	8.92	113	1.87	262.1	197.4	1400	8.06	880	0.022	2.596	0.463
I688P													
	10/4/2017	306	15.29		2.66	359.7	307.3	1888	7.69	1166	0.089	3.168	0.017
I692P													
	10/4/2017	503	16.14	121	3.27	375.9	240.5	1959	8.01	1211	0.160	5.123	0.088
I693P													
	10/4/2017	266	9.33	80	1.17	208.0	126.5	1097	7.96	665	0.336	2.049	0.789
I696P													
	10/4/2017	290	31.43		2.43	310.4	257.6	1722	7.75	1078	0.103	0.590	0.036
P1002													
	10/4/2017	357	18.31	196	4.59	394.1	344.8	2066	8.04	1271	0.002	1.159	0.224
	10/18/2017	362	17.76	186	4.62	437.4	340.0	2115	7.98	1299	0.001	1.122	0.256
	10/31/2017	359	18.12	180	4.61	446.1	346.1	2073	8.01	1275	-0.001	1.212	0.231
P1050													
	10/4/2017	263	12.05		1.63	281.4	236.0	1513	8.10	958	0.045	0.531	0.157
P1060													
	10/18/2017	308	8.15	94	1.35	278.1	160.5	1352	7.97	847	0.013	0.933	0.497
P1075													
	10/4/2017	256	10.18		1.89	284.6	240.5	1511	7.85	956	0.138	1.365	0.035
P1117													
	10/4/2017	300	15.78		3.98	350.2	306.0	1854	8.08	1146	0.114	0.503	0.091
P1137													
	10/4/2017	340	8.34		1.41	254.0	156.0	1306	8.45	821	0.474	2.521	0.627
P1156													

Mine Unit 5 Restoration Data

Well Name	Date	Alk	Ca	Cl	Mg	Na	SO4	Cond	pH	TDS	Fe	U	V
	10/4/2017	461	17.84	154	4.34	386.1	269.6	1954	7.90	1208	0.011	3.515	0.140
	10/18/2017	461	17.28	144	4.33	422.4	263.7	2002	7.85	1233	0.031	3.277	0.122
	10/31/2017	457	16.50	148	4.16	427.4	256.3	1931	7.85	1191	0.005	3.350	0.107
P1209	10/4/2017	166	4.02	26.8	0.31	94.7	32.1	507	8.26	353	0.049	0.227	0.297
P1885	10/4/2017	242	7.50		1.37	285.4	242.2	1516	7.89	961	0.168	0.765	0.068
P679	10/4/2017	308	6.79	77	1.02	235.4	144.2	1225	7.98	738	0.184	1.185	0.107
P680	10/4/2017	297	6.58	101	1.12	253.7	165.0	1350	8.07	845	0.043	1.778	0.064
P682	10/18/2017	316	9.96	100	1.70	294.3	189.6	1467	8.10	916	0.321	1.503	0.025
P683	10/18/2017	322	7.10	83	1.58	276.6	158.5	1336	8.11	837	0.047	2.637	0.048
P690	10/4/2017	176	9.23	37.7	0.34	101.4	39.9	582	8.34	374	0.571	0.480	0.191
P691	10/4/2017	230	7.55	79	1.64	184.3	116.1	995	8.02	601	0.009	1.591	0.674
P694	10/4/2017	348	8.55	105	2.00	283.3	190.1	1457	8.06	915	0.018	1.970	0.188
P695	10/4/2017	377	8.83		1.25	263.3	135.3	1321	8.25	827	0.081	2.521	0.149
P699	10/4/2017	333	13.73	176	3.57	373.5	330.9	1957	8.09	1210	0.002	1.024	1.072
	10/18/2017	338	13.27	176	3.69	417.2	326.8	2027	8.04	1248	-0.001	1.090	1.058
	10/31/2017	338	13.41	172	3.75	424.2	337.0	1977	8.04	1218	-0.001	1.170	1.030
P751	10/4/2017	341	6.42	64	0.83	218.6	97.5	1139	8.40	685	0.028	3.987	0.589
P810	10/4/2017	324	14.80		2.33	334.7	269.3	1772	8.31	1104	0.052	1.724	0.023
P837	10/18/2017	356	12.21	120	2.50	341.1	220.3	1679	8.06	1054	0.005	1.007	0.004
P889	10/4/2017	302	14.87		3.01	355.2	302.3	1851	7.96	1145	0.038	3.758	0.090

CROW BUTTE MINE

MONTHLY RESTORATION REPORT

October 2017

MINE UNIT 6

1. RESTORATION ACTIVITY DURING MONTH:

	YES	NO	
a. Groundwater Transfer		X	(if yes, complete part 2)
b. Groundwater Sweep	X		(if yes, complete part 3)
c. Groundwater Treatment	X		RO and Reductant P1265, I1266P, I1270P, I1272P, P1273, P1314, P1315, P1348, P1355, I1356P, P1358, P1396, P1402, P1404, P1426, P1440, P1449, P1461, P1467, P1494, P1532, P1582, P1584, P1585, P1598, I1602P, P1663, I1667P, P1690, P1704, P1721, P1751, P1765, P1779, P1800, P1890.
d. Wellfield Recirculation		X	
e. Other (explain):		X	

2. LIST WELLS USED IN GROUNDWATER TRANSFER DURING THE MONTH:

3. LIST WELLS USED IN GROUNDWATER SWEEP DURING THE MONTH:

P1476 and P1611.

4. LIST WELLS SAMPLED DURING MONTH AND ASSAY RESULTS:

CM6-6, CM6-7, P1239, P1265, I1266P, I1270P, I1272P, P1273, P1274P, P1314, P1315, P1348, P1358, P1396, P1402, P1404, P1426, I1423, P1440, P1449, P1461, P1467, P1476, P1494, P1532, P1582, P1584, P1585, P1598, I1601P, I1602P, P1611, P1663, P1690, P1704, P1721, P1751, P1765, P1779, P1800, P1810, and P1890.

MU6 Restoration Data

Well Name	Date	Alk	Cl	Ca	Mg	Na	SO4	Cond	pH	TDS	Fe	U	V
CM6-6	10/31/2017	300	175	15.77	3.78	402.8	355.8	1932	8.02	1192	0.02	0.047	#####
CM6-7	10/31/2017	282	173	19.09	4.22	405.1	385.6	1956	7.86	1209	0.02	0.016	0.005
I1266P	10/4/2017	291	65	9.44	1.67	189.5	93.8	991	8.59	600	0.02	3.192	1.678
I1270P	10/4/2017	338	90	12.99	3.33	234.6	130.4	1252	8.46	776	0.00	0.599	2.339
I1272P	10/4/2017	447	247	31.93	8.33	467.5	403.3	2494	7.85	1589	0.01	1.302	0.043
	10/18/2017	443	247	30.94	8.35	511.7	402.8	2548	7.76	1628	0.02	1.485	0.090
	10/31/2017	455	250	32.57	8.83	532.7	418.2	2525	7.74	1613	0.01	1.733	0.050
I1274P	10/18/2017	232	35	14.03	1.73	128.8	37.1	699	7.38	489	0.02	0.145	0.305
I1423	10/18/2017	1076	336	85.29	13.27	583.3	2125.0	3040	7.58	1983	0.01	0.175	0.443
I1601P	10/18/2017	486	113	14.38	2.62	375.2	187.0	1795	8.26	1116	0.49	2.242	2.354
I1602P	10/4/2017	605	226	26.58	7.74	513.7	351.9	2604	7.78	1669	0.05	4.013	3.302
	10/18/2017	672	245	25.92	7.86	636.8	415.1	2993	7.76	1950	0.02	3.975	1.428
	10/31/2017	548	184	18.76	5.81	512.1	303.4	2264	7.96	1409	0.03	3.312	2.151
P1239	10/18/2017	252	114	9.18	2.26	279.8	200.9	1440	8.53	906	0.01	1.865	0.342
P1265	10/4/2017	549	245	34.33	9.36	517.6	413.2	2668	7.88	1716	0.02	0.633	0.041
	10/18/2017	541	249	31.94	9.15	555.1	403.4	2722	7.82	1755	0.11	0.616	0.023
	10/31/2017	539	231	32.36	9.03	570.1	412.6	2639	7.81	1697	0.02	0.676	0.030
P1273	10/4/2017	342	110	13.20	2.95	279.6	188.6	1478	7.91	925	0.10	2.041	0.215
P1314	10/4/2017	654	216	22.87	6.81	531.5	354.6	2675	8.00	1720	0.01	3.167	1.557
	10/18/2017	629	193	20.93	6.40	551.9	329.5	2600	7.97	1668	0.02	3.167	1.734
	10/31/2017	628	196	21.01	6.43	570.1	337.6	2527	7.96	1614	0.01	3.483	1.800
P1315	10/4/2017	483	246	27.97	7.25	469.0	401.5	2589	7.88	1658	0.03	0.478	0.165

MU6 Restoration Data

Well Name	Date	Alk	Cl	Ca	Mg	Na	SO4	Cond	pH	TDS	Fe	U	V
	10/18/2017	484	233	29.45	7.87	538.6	410.9	2640	7.84	1698	0.01	0.526	0.161
	10/31/2017	487	234	29.10	7.79	556.9	408.6	2571	7.81	1644	0.03	0.589	0.206
P1318													
	10/18/2017	885	216	26.43	7.29	679.7	384.2	3202	7.83	2111	0.71	9.558	0.596
P1348													
	10/4/2017	425	131	13.71	3.68	335.7	215.1	1731	7.83	1083	0.03	2.567	0.639
P1358													
	10/18/2017	342	192	16.85	4.53	430.8	361.4	2215	7.99	1371	0.05	1.035	0.204
P1396													
	10/4/2017	310	180	16.88	4.19	361.7	330.5	1950	8.10	1204	0.03	0.103	0.033
P1402													
	10/4/2017	433	137	16.60	3.82	344.9	223.2	1755	7.81	1096	0.07	2.119	0.417
	10/18/2017	451	149	18.66	4.58	410.5	251.1	1963	7.74	1212	0.00	1.963	0.406
	10/31/2017	456	153	19.36	4.79	428.6	266.4	1968	7.73	1214	0.10	2.135	0.414
P1404													
	10/4/2017	528	191	26.91	6.75	452.5	335.6	2326	7.83	1457	0.07	2.052	0.480
	10/18/2017	532	194	26.91	6.96	502.0	328.3	2423	7.68	1536	0.07	1.850	0.470
	10/31/2017	514	191	25.16	6.51	485.4	316.3	2265	7.69	1410	0.06	1.816	0.629
P1426													
	10/4/2017	316	166	16.85	4.18	346.2	299.2	1844	7.82	1142	0.03	2.087	0.094
P1440													
	10/4/2017	397	114	13.12	3.68	304.5	183.2	1560	8.08	994	0.01	1.359	2.166
P1449													
	10/4/2017	697	141	15.20	4.18	480.7	261.0	2314	7.96	1447	0.01	5.468	0.783
	10/18/2017	662	134	12.76	3.68	498.0	237.6	2255	7.96	1402	0.05	5.391	0.801
	10/31/2017	640	132	12.32	3.49	485.1	239.3	2121	7.96	1302	0.01	5.507	0.802
P1461													
	10/4/2017	372	207	18.90	4.87	413.3	361.3	2175	8.04	1338	0.00	1.898	0.461
	10/18/2017	372	202	18.08	4.84	456.4	358.3	2240	8.02	1390	0.03	1.871	0.465
P1467													
	10/4/2017	325	89	11.69	2.70	233.9	137.3	1246	8.57	772	0.02	1.421	1.214
P1476													
	10/4/2017	400	195	16.33	4.22	420.1	353.1	2189	8.04	1350	0.01	4.884	0.450
	10/18/2017	396	190	16.16	4.27	466.9	359.0	2254	7.99	1401	0.00	4.454	0.394
P1494													
	10/4/2017	480	212	19.84	5.09	459.7	350.9	2321	7.87	1453	0.06	3.131	0.253

MU6. Restoration Data

Well Name	Date	Alk	Cl	Ca	Mg	Na	SO4	Cond	pH	TDS	Fe	U	V
	10/18/2017	451	190	17.43	4.60	478.1	333.5	2277	7.82	1420	0.01	2.638	0.203
	10/31/2017	443	188	16.97	4.40	473.6	327.4	2163	7.80	1330	0.06	2.564	0.216
P1532													
	10/4/2017	419	157	17.15	3.87	381.1	283.0	1963	7.75	1212	0.01	0.486	0.010
	10/18/2017	406	158	16.08	3.92	421.0	291.9	2026	7.74	1247	0.05	0.506	#####
	10/31/2017	410	165	16.72	3.99	430.5	295.4	1981	7.70	1221	0.01	0.588	0.010
P1582													
	10/4/2017	377	179	14.77	3.85	390.9	308.4	2012	8.06	1239	0.00	1.247	0.735
	10/18/2017	383	172	13.92	3.85	424.6	306.7	2036	7.91	1253	0.01	1.179	0.687
	10/31/2017	375	166	13.05	3.67	419.7	300.2	1933	8.15	1193	0.00	1.168	0.690
P1584													
	10/4/2017	646	201	17.79	5.76	521.9	331.1	2524	7.72	1613	0.00	4.000	0.883
P1585													
	10/4/2017	775	282	26.56	9.62	647.2	431.0	3188	7.60	2099	0.00	3.401	1.245
P1598													
	10/4/2017	297	60	4.98	1.04	190.6	87.6	989	8.64	599	0.01	3.009	1.675
P1611													
	10/4/2017	334	188	15.73	4.00	384.3	345.6	2058	8.03	1267	0.06	2.679	0.299
	10/18/2017	329	188	15.09	4.04	430.4	345.6	2107	8.02	1293	0.01	2.444	0.311
P1663													
	10/4/2017	293		6.14	1.57	231.3	142.6	1236	8.62	741	0.00	0.446	0.979
P1690													
	10/4/2017	727	284	48.53	13.41	635.9	477.0	3242	7.56	2141	0.03	5.896	0.757
	10/18/2017	783	326	52.83	15.28	752.1	539.6	3670	7.48	2451	0.03	6.122	0.671
	10/31/2017	764	335	50.29	14.64	770.3	531.6	3478	7.66	2299	0.02	6.439	0.648
P1704													
	10/4/2017	356	140	9.71	2.52	330.5	243.4	1723	7.87	1078	0.10	2.068	0.391
	10/18/2017	356	144	9.75	2.77	378.2	252.8	1817	7.76	1127	0.00	2.084	0.383
	10/31/2017	346	139	9.20	2.62	372.9	246.7	1701	7.79	1065	0.09	2.091	0.417
P1721													
	10/4/2017	405	114	12.53	3.03	306.2	182.8	1551	8.15	988	0.01	2.779	1.130
P1751													
	10/4/2017	505	164	16.50	4.66	410.0	272.4	2078	7.60	1278	0.11	3.634	0.615
P1765													
	10/4/2017	553	179	16.62	4.05	460.5	301.6	2248	7.91	1396	0.03	6.702	0.678
	10/18/2017	508	26	13.27	3.32	452.0	260.4	2089	7.83	1284	0.00	5.455	0.661

MU6 Restoration Data

Well Name	Date	Alk	Cl	Ca	Mg	Na	SO4	Cond	pH	TDS	Fe	U	V
P1779	10/31/2017	500	166	13.35	3.46	471.9	276.5	2055	8.08	1264	0.02	5.667	0.663
	10/4/2017	508	179	26.25	7.55	421.7	302.7	2236	7.74	1386	0.01	2.023	0.911
	10/18/2017	313	93	11.32	3.15	262.9	144.9	1285	7.87	808	0.03	1.705	1.290
	10/31/2017	259	72	8.77	2.35	208.3	104.6	989	8.14	599	0.01	1.394	1.365
P1800	10/4/2017	571	218	28.47	7.58	483.7	334.3	2484	7.59	1581	0.00	2.706	0.380
P1810	10/4/2017	257	49	3.58	0.73	162.7	72.0	861	8.86	540	0.01	0.974	2.121
P1890	10/4/2017	326	98	10.81	2.69	246.9	147.8	1308	7.75	822	0.02	3.969	0.464