

**CAMECO RESOURCES  
CROW BUTTE OPERATION**



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

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

---

April 17, 2015

**CERTIFIED MAIL  
RETURN RECEIPT REQUESTED**

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

Class III UIC Permit NE0122611  
March 2015 Monthly Restoration Report

Dear Ms. Link:

Please find enclosed the March 2015 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, and 5. IX treatment continued in Mine Unit 6 with groundwater sweep continuing in portions of Mine Units 4 and 5.

Mine Units 2 and 3 remain in stability monitoring.

If you have any questions regarding this submittal, please feel free to contact me at (308) 665-2215, ext. 114.

Sincerely,  
Cameco Resources  
Crow Butte Operation

Larry Teahon  
SHEQ Manager

Enclosures: As Stated

cc: Ron Burrows - NRC  
CBO - File  
ec: CR - Casper  
Shar Sapp – Chadron Field Office

CROW BUTTE MINE  
MONTHLY RESTORATION REPORT  
MARCH 2015  
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 samples were collected during the month.

CROW BUTTE MINE  
MONTHLY RESTORATION REPORT  
MARCH 2015  
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	
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 samples were collected during the month.



CROW BUTTE MINE

MONTHLY RESTORATION REPORT

MARCH 2015

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 CM2-1, P390, P427, I539P, I544P, I545P, I546P, and I547P.
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:

BL10, CM1-7, CM2-4, P391, I535P, and I536P.

4. LIST WELLS SAMPLED DURING MONTH AND ASSAY RESULTS:

BL8, BL9, BL10, BL18, CM1-7, CM2-1, CM2-4, CM3-10, P390, P391, P392, P393, P394, P427, I535P, I536P, I539P, I544P, I545P, I546P, I547P, I548P, I549P, I550P, I551P, and I552P.



**MINE UNIT 4 RESTORATION DATA**

Well	Date	Alk	Ca	Cl	Mg	Na	SO4	Cond	pH	TDS	As	Fe	U	V
BL-8	3/10/2015	316	6.02	83	1.31	223.2	115.9	1111	8.22	674	0.03	0.03	1.405	0.071
BL-9	3/10/2015	446	27.56	188	7.73	419.8	306.4	2045	7.72	1258	0.05	0.21	1.119	0.053
BL-10	3/3/2015		17.00		4.35	375.9	242.3						3.654	0.373
BL-10	3/10/2015	474	20.50	180	5.39	397.7	269.1	1991	7.80	1226		0.00	5.040	0.356
BL-10	3/17/2015		23.00		5.95	432.9	289.5						5.225	0.337
BL-10	3/24/2015	520	24.21	192	6.40	426.7	292.9	2164	7.82	1331		0.00	5.515	0.320
BL-10	3/31/2015		26.05		6.96	445.6	301.2						5.580	0.315
BL-18	3/10/2015	393	9.50	85	2.57	279.2	147.4	1333	8.02	836	0.04	0.01	3.177	1.117
CM1-7	3/3/2015		16.92		4.78	367.8	245.9						2.972	0.169
CM1-7	3/10/2015	391	15.33	138	4.48	324.0	216.6	1614	7.69	1021		0.00	3.127	0.153
CM2-1	3/3/2015		79.65		23.03	807.8	652.1						3.763	0.126
CM2-1	3/10/2015	750	71.82	380	20.88	699.6	558.7	3545	7.40	2354		0.01	3.808	0.113
CM2-1	3/17/2015		70.41		20.28	697.7	553.1						3.634	0.111
CM2-1	3/24/2015	744	71.76	377	20.67	700.8	563.5	3553	7.41	2360		0.01	3.782	0.117
CM2-1	3/31/2015		70.13		20.53	697.1	553.5						3.750	0.106
CM2-4	3/3/2015		7.94		2.19	248.6	153.7						0.167	0.052
CM2-4	3/10/2015	334	8.90	111	2.49	264.6	165.3	1327	7.76	830		0.03	0.263	0.055
CM2-4	3/17/2015		9.87		2.83	275.2	172.8						0.313	0.046
CM2-4	3/24/2015	346	10.28	120	2.87	278.6	178.1	1418	7.80	890		0.03	0.410	0.049
CM2-4	3/31/2015		10.67		2.95	286.2	181.9						0.476	0.049
CM3-10	3/10/2015	260	12.94	86	3.05	198.2	110.4	1013	7.96	609	0.04	0.02	0.399	0.220
P390	3/3/2015		33.04		9.09	552.9	412.5						3.270	0.170
P390	3/10/2015	540	29.20	210	8.33	486.5	362.6	2339	7.68	1469		0.00	3.469	0.157
P390	3/17/2015		28.24		7.91	462.1	339.2						3.118	0.128
P390	3/24/2015	522	27.21	197	7.71	454.1	334.8	2235	7.74	1386		0.00	3.046	0.145
P390	3/31/2015		25.14		6.92	428.0	303.6						2.930	0.137
P391	3/3/2015		46.56		13.10	637.1	538.8						3.154	0.225
P391	3/10/2015	531	40.53	275	11.51	568.2	472.5	2760	7.76	1782		0.00	3.197	0.210
P391	3/17/2015		37.60		10.99	570.0	465.4						3.058	0.171
P391	3/24/2015	519	36.72	251	10.43	522.5	433.1	2615	7.83	1682		0.00	3.017	0.179
P391	3/31/2015		34.26		9.76	516.7	417.2						2.993	0.177
P392	3/10/2015	305	16.24	140	4.21	282.6	193.3	1458	8.39	915	0.03	0.00	1.366	0.298
P393	3/10/2015	217	17.61	62	2.82	145.2	74.5	784	8.21	527	0.02	0.00	0.254	0.018
P394	3/10/2015	214	8.68	75	1.90	173.6	100.6	886	7.75	560	0.02	0.12	0.230	0.033



# MINE UNIT 4 RESTORATION DATA

Well	Date	Alk	Ca	Cl	Mg	Na	SO4	Cond	pH	TDS	As	Fe	U	V
P427	3/3/2015		28.16		7.19	427.5	286.9						2.257	0.448
P427	3/10/2015	501	27.13	153	7.01	397.6	270.5	1935	7.60	1194		0.00	2.390	0.394
I535P	3/3/2015		52.00		15.33	734.2	599.2						3.186	0.137
I535P	3/10/2015	629	43.94	310	13.17	621.9	500.8	3059	7.65	1997		0.00	3.162	0.122
I535P	3/17/2015		43.21		13.10	614.9	491.2						3.029	0.112
I535P	3/31/2015		37.43		11.41	563.6	440.3						2.832	0.115
I535P	3/24/2015	601	39.79	289	12.00	577.7	465.1	2914	7.70	1894		0.00	2.969	0.107
I536P	3/3/2015		27.09		7.79	444.3	323.2						7.939	0.194
I536P	3/10/2015	454	24.46	160	7.23	395.7	283.4	1924	7.90	1187		0.00	8.174	0.185
I536P	3/17/2015		24.90		7.30	390.4	283.2						7.801	0.164
I536P	3/24/2015	464	24.03	153	7.08	390.7	288.6	1946	7.93	1200		0.00	8.158	0.160
I536P	3/31/2015		22.70		6.49	368.9	264.4						7.534	0.153
I539P	3/3/2015		32.57		9.12	541.0	400.3						4.915	0.143
I539P	3/10/2015	526	29.25	221	8.86	500.8	366.7	2378	7.86	1503		0.01	5.016	0.127
I539P	3/17/2015		27.14		8.12	457.0	331.0						4.554	0.112
I539P	3/24/2015	520	27.52	217	8.24	464.6	345.4	2345	7.87	1473		0.00	4.587	0.133
I539P	3/31/2015		27.75		8.15	486.7	357.0						4.730	0.112
I544P	3/3/2015		80.18		22.79	743.7	653.5						6.168	0.484
I544P	3/10/2015	741	70.77	275	20.24	625.1	542.8	3193	7.30	2103		0.01	6.156	0.443
I544P	3/17/2015		63.18		18.29	575.7	495.2						5.263	0.427
I544P	3/24/2015	644	57.89	231	16.58	538.0	458.3	2750	7.39	1775		0.00	4.900	0.424
I544P	3/31/2015		51.66		14.86	498.7	410.9						4.626	0.387
I545P	3/10/2015	464	31.15	218	8.30	454.4	369.6	2290	7.51	1428		0.10	1.002	0.113
I545P	3/17/2015		25.78		7.52	399.5	295.1						1.730	0.422
I545P	3/31/2015		21.02		6.06	370.5	257.8						1.666	0.443
I545P	3/24/2015	437	22.33	169	6.48	382.6	272.2	1874	7.68	1158		0.01	1.625	0.459
I546P	3/3/2015		51.77		14.96	656.7	516.1						3.706	0.094
I546P	3/10/2015	600	48.75	302	13.97	567.9	440.5	2860	7.54	1855		0.11	3.738	0.070
I546P	3/24/2015	590	49.37	306	14.10	570.0	443.3	2860	7.59	1855		0.11	3.650	0.064
I546P	3/31/2015		48.38		13.76	557.9	432.5						3.646	0.077
I547P	3/3/2015		78.78		21.91	810.2	764.9						6.313	0.307
I547P	3/10/2015	792	72.68	285	20.45	711.1	671.5	3540	7.13	2350		0.03	6.680	0.259
I547P	3/17/2015		71.77		20.70	745.3	691.5						6.584	0.267
I547P	3/24/2015	798	70.47	286	20.08	712.3	682.4	3550	7.17	2357		0.03	6.245	0.259
I547P	3/31/2015		68.28		20.27	746.0	687.6						6.341	0.274
I548P	3/10/2015	551	25.78	143	6.10	449.6	310.2	2097	7.69	1289	0.03	0.03	2.562	0.129

# MINE UNIT 4 RESTORATION DATA

Well	Date	Alk	Ca	Cl	Mg	Na	SO4	Cond	pH	TDS	As	Fe	U	V
I549P	3/10/2015	387	31.07	168	6.77	384.7	320.1	1922	7.27	1186	0.04	1.17	2.918	0.067
I550P	3/10/2015	194	9.25	59	1.35	153.7	89.5	782	7.42	527	0.02	0.25	0.201	0.119
I551P	3/10/2015	374	19.36	97	3.73	281.3	163.4	1363	8.02	855	0.06	0.01	2.891	0.423
I552P	3/10/2015	377	36.06	186	5.72	385.3	307.4	1915	7.91	1182	0.07	0.12	2.111	0.447



CROW BUTTE MINE  
MONTHLY RESTORATION REPORT  
MARCH 2015  
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 I685P, I687P, I689P, P694, P695, P789, P810, P889, P1209, P1216, P1239, I1246P, and P1259.
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:  
BL5-4, BL5-5, P683, I688P, I678P, I693P, P796, P837, P859, P945, P1002, P1156, P1203,  
and P1213.

4. LIST WELLS SAMPLED DURING MONTH AND ASSAY RESULTS:

BL5-1, BL5-2, BL5-4, BL5-5, BL-14, CM3-2, I675P, I676P, P678, P683, I685P, P687, I688P,  
I689P, P690, I693P, P694, P695, I696P, I698P, P699, P700, P789, I792P, P796, P810, P837,  
P859, P889, P908, P945, P1002, P1003, P1075, P1117, P1156, P1203, P1209, P1213, P1216,  
P1239, P1246, and P1259.

**MINE UNIT 5 RESTORATION DATA**

Well	Date	Alk	Ca	Cl	Mg	Na	SO4	Cond	pH	TDS	As	Fe	U	V
BL5-1	3/24/2015	298	5.80	59	1.30	201.1	99.7	983	8.43	598	0.00	0.02	0.323	0.005
BL5-2	3/24/2015	378	10.35	73	2.57	272.6	156.4	1275	8.22	803	0.00	0.02	0.109	0.006
BL5-4	3/3/2015		71.71		18.52	820.4	717.1						0.815	0.019
BL5-4	3/17/2015		61.03		16.41	722.8	615.6						0.845	0.020
BL5-4	3/24/2015	707	59.72	352	15.91	717.5	611.9	3406	7.75	2266		0.18	0.832	0.030
BL5-4	3/31/2015		56.28		15.19	706.8	589.6						0.858	0.024
BL5-5	3/3/2015		58.19		14.96	722.4	676.5						0.528	0.013
BL5-5	3/10/2015	559	53.43	345	13.95	650.6	597.1	3215	7.81	2121		0.12	0.495	0.018
BL5-5	3/17/2015		51.31		13.81	653.5	599.1						0.451	0.015
BL5-5	3/24/2015	539	52.08	333	13.77	657.9	608.8	3162	7.84	2079		0.20	0.419	0.018
BL5-5	3/31/2015		50.32		13.43	636.3	584.2						0.437	0.018
BL-14	3/24/2015	218	2.08	26	0.45	130.3	62.4	652	8.58	409	0.00	0.00	0.094	0.007
CM3-2	3/24/2015	162	2.34	25	0.39	100.0	49.7	529	8.55	355	0.00	0.00	0.000	0.001
I675P	3/24/2015	292	7.47	95	1.55	240.1	169.0	1243	7.93	758	0.18	0.11	0.544	0.449
I676P	3/24/2015	550	26.82	209	6.97	487.7	369.0	2438	7.96	1541	0.04	0.05	6.365	0.275
I678P	3/3/2015		30.80		7.62	475.6	388.3						6.010	0.503
I678P	3/10/2015	484	30.45	207	8.03	465.4	371.8	2304	7.79	1440		0.01	6.467	0.482
I678P	3/17/2015		28.97		7.66	467.0	367.2						6.259	0.464
I678P	3/24/2015	491	29.51	199	7.63	468.9	373.6	2304	7.86	1440		0.00	6.509	0.440
I678P	3/31/2015		29.90		7.80	482.5	380.5						6.623	0.429
P683	3/3/2015		30.83		8.11	552.7	413.3						6.240	0.396
P683	3/10/2015	554	27.17	201	7.49	490.9	358.4	2371	7.80	1498		0.01	6.486	0.352
P683	3/17/2015		26.62		7.40	471.8	346.5						6.032	0.353
P683	3/24/2015	552	26.08	192	7.07	469.3	343.2	2318	7.80	1451		0.01	6.159	0.346
P683	3/31/2015		25.70		7.04	473.1	340.5						6.142	0.343
I685P	3/24/2015	616	34.81	305	11.53	682.0	593.3	3236	7.82	2135		0.00	1.848	0.316
I685P	3/31/2015		33.69		11.13	668.1	571.1						1.982	0.755
I687P	3/3/2015		14.34		3.48	365.2	277.5						4.399	0.526
I687P	3/10/2015	374	15.20	154	3.83	360.3	268.8	1782	7.98	1109		0.01	5.052	0.458
I688P	3/3/2015		18.51		4.25	426.7	375.5						3.583	0.265
I688P	3/10/2015	327	16.83	189	4.01	384.1	326.7	1922	7.76	1186		0.00	3.812	0.267
I688P	3/17/2015		16.46		3.94	373.7	322.1						3.537	0.254
I688P	3/24/2015	322	15.93	185	3.81	374.9	324.4	1914	7.77	1181		0.00	3.621	0.245
I688P	3/31/2015		15.38		3.78	371.5	317.3						3.527	0.254



**MINE UNIT 5 RESTORATION DATA**

Well	Date	Alk	Ca	Cl	Mg	Na	SO4	Cond	pH	TDS	As	Fe	U	V
I689P	3/3/2015		12.91		3.21	309.8	242.7						2.719	0.371
I689P	3/10/2015	332	13.14	131	3.36	313.6	240.2	1578	7.62	1003		0.12	3.166	0.195
I689P	3/17/2015		11.70		3.04	296.3	222.8						3.069	0.129
I689P	3/24/2015	320	11.51	125	3.03	307.2	237.9	1526	7.71	969		0.08	3.512	0.129
I689P	3/31/2015		11.10		2.93	308.9	233.5						3.808	0.205
P690	3/24/2015	278	14.36	137	3.59	291.3	228.4	1474	8.00	921	0.09	0.11	1.440	0.126
I693P	3/3/2015		13.04		3.23	425.7	367.2						6.046	0.339
I693P	3/10/2015	345	13.17	191	3.35	409.4	347.6	2001	7.95	1232		0.11	5.931	0.315
I693P	3/17/2015		13.65		3.51	416.5	357.2						6.239	0.469
I693P	3/24/2015	361	14.26	219	3.58	410.3	357.6	2063	8.02	1270		0.09	6.544	0.370
I693P	3/31/2015		14.68		3.76	421.2	361.3						7.218	0.474
P694	3/3/2015		34.57		9.21	655.8	543.7						5.847	0.110
P694	3/10/2015	526	27.78	257	7.72	549.2	438.5	2671	7.74	1718		0.12	5.089	0.126
P694	3/17/2015		26.43		7.25	538.0	428.3						4.379	0.125
P694	3/24/2015	472	22.88	216	6.22	476.9	378.1	2351	7.84	1480		0.10	3.820	0.143
P694	3/31/2015		19.40		5.48	443.4	338.9						3.262	0.146
P695	3/3/2015		28.39		8.61	677.6	515.3						12.580	0.586
P695	3/10/2015	596	23.36	256	7.34	566.9	412.8	2717	7.75	1751		0.08	11.760	0.575
P695	3/17/2015		21.82		7.06	548.1	402.7						10.910	0.592
P695	3/24/2015	558	19.68	218	6.00	495.2	355.2	2450	7.82	1552		0.08	10.420	0.622
P695	3/31/2015		18.03		5.70	478.3	332.6						9.869	0.666
I698P	3/24/2015	170	3.24	56	0.57	142.6	95.9	751	8.80	525	0.09	0.00	0.320	1.976
P699	3/24/2015	387	11.27	136	3.37	359.7	269.4	1745	8.28	1089	0.05	0.01	1.316	1.525
P700	3/24/2015	285	14.85	128	3.12	250.1	195.7	1310	8.23	823	0.02	0.00	1.119	0.303
P789	3/3/2015		19.87		5.40	474.1	433.7						1.673	0.145
P789	3/10/2015	331	15.26	173	4.33	374.7	327.7	1896	7.69	1171		0.00	1.528	0.136
P789	3/17/2015		13.42		3.72	339.3	291.7						1.344	0.137
P789	3/24/2015	285	11.78	141	3.23	305.3	261.0	1569	7.80	998		0.03	1.238	0.137
P789	3/31/2015		11.01		3.03	296.9	247.0						1.189	0.150
I792P	3/24/2015	234	10.16	117	2.36	260.6	221.5	1322	8.04	827	0.05	0.09	0.741	0.095
P796	3/3/2015		27.23		6.72	469.2	396.6						0.871	0.014
P796	3/10/2015	410	24.51	191	6.12	414.4	336.6	2078	7.79	1278		0.01	0.940	0.020
P796	3/17/2015		24.80		6.28	419.0	343.1						0.917	0.015
P796	3/24/2015	404	23.37	180	5.85	403.8	328.5	1990	7.82	1226		0.01	0.927	0.017
P796	3/31/2015		21.46		5.47	384.8	306.5						0.959	0.018



**MINE UNIT 5 RESTORATION DATA**

Well	Date	Alk	Ca	Cl	Mg	Na	SO4	Cond	pH	TDS	As	Fe	U	V
P810	3/3/2015		18.68		4.91	459.8	359.0						1.966	0.029
P810	3/10/2015	421	16.58	162	4.51	401.0	306.1	1952	7.97	1206		0.01	1.967	0.032
P810	3/17/2015		16.75		4.64	411.1	321.0						1.921	0.026
P810	3/24/2015	417	17.35	169	4.74	426.1	338.3	2011	8.04	1238		0.01	1.987	0.027
P810	3/31/2015		17.01		4.67	424.3	331.4						2.118	0.030
P837	3/3/2015		34.27		8.57	433.4	363.8						1.299	0.179
P837	3/10/2015	382	27.42	169	7.18	366.8	297.5	1878	7.86	1160		0.01	1.295	0.145
P837	3/17/2015		29.86		7.91	403.2	328.4						1.409	0.143
P837	3/24/2015	413	27.07	174	7.20	399.3	322.1	1963	7.88	1212		0.01	1.413	0.139
P837	3/31/2015		28.66		7.57	405.7	325.1						1.475	0.139
P859	3/24/2015	422	20.62	218	5.16	464.1	400.3	2330	7.94	1460		0.04	3.594	0.177
P859	3/31/2015		20.35		5.28	475.9	403.8						3.343	0.199
P889	3/3/2015		13.73		3.42	443.0	375.3						3.145	0.278
P889	3/10/2015	301	11.86	162	3.05	356.3	297.3	1709	7.84	1071		0.01	2.998	0.217
P889	3/17/2015		11.93		3.21	377.4	317.1						2.980	0.213
P889	3/24/2015	308	12.07	169	3.15	377.8	315.5	1755	7.93	1096		0.00	3.152	0.226
P889	3/31/2015		11.70		3.03	375.7	313.6						3.129	0.215
P908	3/24/2015	311	14.50	181	3.79	358.2	305.7	1841	8.13	1140	0.02	0.01	1.284	0.086
P945	3/3/2015		18.08		4.76	436.8	367.6						2.897	0.227
P945	3/10/2015	357	16.12	162	4.31	372.3	307.8	1867	7.75	1154		0.00	2.866	0.214
P1002	3/3/2015		21.28		5.85	482.9	420.0						1.854	0.354
P1002	3/10/2015	380	19.29	187	5.39	417.0	359.3	2048	7.99	1260		0.00	1.858	0.318
P1002	3/17/2015		18.84		5.29	410.9	351.7						1.793	0.300
P1002	3/24/2015	378	18.99	184	5.30	419.7	363.4	2017	7.97	1242		0.00	1.729	0.312
P1002	3/31/2015		18.14		5.10	410.9	347.5						1.797	0.307
P1003	3/24/2015	201	9.99	126	2.05	250.7	222.2	1311	8.10	824	0.03	0.03	1.154	0.192
P1075	3/24/2015	152	3.58	39	0.44	114.4	63.7	578	8.28	369		0.03	0.210	0.160
P1117	3/24/2015	310	16.02	185	4.71	386.8	346.1	1916	8.06	1182		0.14	0.715	0.077
P1156	3/3/2015		35.26		9.30	587.0	486.1						3.963	0.348
P1156	3/10/2015	543	32.45	235	8.89	536.4	428.6	2613	7.73	1681		0.00	3.940	0.313
P1156	3/17/2015		32.28		8.89	530.4	426.4						3.718	0.330
P1156	3/24/2015	541	30.75	222	8.54	520.3	422.5	2517	7.77	1610		0.00	3.750	0.363
P1156	3/31/2015		29.14		8.23	522.7	409.2						3.674	0.344

# MINE UNIT 5 RESTORATION DATA

Well	Date	Alk	Ca	Cl	Mg	Na	SO4	Cond	pH	TDS	As	Fe	U	V
P1203	3/3/2015		22.06		5.75	468.6	437.3						1.417	0.152
P1203	3/10/2015	349	20.18	197	5.35	412.5	369.9	2055	8.02	1264		0.02	1.381	0.163
P1203	3/17/2015		19.63		5.30	409.2	368.3						1.320	0.185
P1203	3/24/2015	341	19.28	188	5.13	404.0	367.7	2015	8.04	1241		0.01	1.272	0.218
P1203	3/31/2015		18.63		4.94	397.1	355.0						1.293	0.233
P1209	3/3/2015		27.50		7.87	564.4	448.7						6.791	0.489
P1209	3/10/2015	484	26.28	225	7.63	493.8	384.1	2357	7.82	1487		0.01	6.774	0.443
P1209	3/17/2015		23.01		6.82	441.9	338.8						5.958	0.434
P1209	3/24/2015	434	21.38	189	6.20	416.9	309.3	2060	7.87	1268		0.01	5.200	0.492
P1209	3/31/2015		19.18		5.67	378.1	277.7						4.745	0.478
P1213	3/31/2015		8.15		1.99	263.1	165.6						1.358	1.024
P1216	3/3/2015		72.84		21.73	1172.0	858.8						19.900	1.667
P1216	3/17/2015		74.41		22.77	1147.0	827.2						19.320	1.574
P1216	3/24/2015	1176	69.13	481	21.10	1077.0	779.8	4885	7.50	3303		0.00	19.400	1.540
P1216	3/31/2015		63.02		19.51	1047.0	746.9						18.550	1.501
P1239	3/3/2015		23.24		6.86	541.0	479.9						5.503	0.526
P1239	3/10/2015	425	21.76	211	6.15	476.2	411.3	2297	8.00	1434		0.00	5.286	0.473
P1239	3/17/2015		21.52		6.35	483.0	416.2						5.006	0.471
P1239	3/24/2015	442	19.93	200	5.69	439.1	381.6	2290	8.01	1428		0.00	4.873	0.463
P1239	3/31/2015		19.56		5.67	441.9	374.4						4.945	0.487
P1246	3/24/2015		34.70		10.39	655.3	565.3					0.18	10.400	0.604
P1246	3/31/2015		33.59		10.13	640.5	545.9						9.852	0.490
P1259	3/3/2015		52.22		14.99	965.2	730.3						22.170	0.585
P1259	3/10/2015	871	45.15	380	13.63	839.5	616.9	3915	7.67	2620		-0.01	22.280	0.548
P1259	3/17/2015		43.25		12.90	831.1	622.6						19.660	0.554
P1259	3/24/2015	819	39.75	351	11.78	777.6	572.1	3642	7.70	2428		-0.01	19.280	0.571
P1259	3/31/2015		37.31		11.39	752.1	544.3						18.880	0.585



CROW BUTTE MINE  
MONTHLY RESTORATION REPORT  
MARCH 2015  
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		IX P1312, P1370, P1497, P1596, P1633, P1715, P1778, P1794, P1800, and P1865.
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:

--

4. LIST WELLS SAMPLED DURING MONTH AND ASSAY RESULTS:

P1312, P1370, P1497, P1596, P1633, P1715, P1778, P1794, P1800, and P1865.



# MINE UNIT 6 RESTORATION DATA

Well	Date	Alk	Ca	Cl	Mg	Na	SO4	Cond	pH	TDS	As	Fe	U	V
P1312	3/10/2015		59.79		17.74	956.9	699.9						12.920	1.000
P1312	3/17/2015		60.31		18.42	1004.0	752.2						12.830	1.016
P1312	3/24/2015		60.05		18.00	971.4	721.5						12.840	1.024
P1312	3/31/2015		58.04		17.15	942.7	684.2						12.660	1.017
P1370	3/3/2015		58.60		18.30	1062.0	792.2						6.902	0.772
P1370	3/10/2015		54.08		17.13	978.6	711.1					0.04	7.627	0.764
P1370	3/17/2015		53.46		17.35	956.9	695.9						7.756	0.709
P1370	3/24/2015		54.12		17.23	971.3	701.6					0.10	7.787	0.742
P1370	3/31/2015		54.63		16.72	980.6	699.5						8.008	0.736
P1497	3/3/2015		84.13		21.20	1077.0	812.5						29.960	0.097
P1497	3/10/2015		76.74		19.67	954.5	712.9					0.05	30.260	0.114
P1497	3/17/2015		79.90		20.69	988.0	741.1						29.790	0.115
P1497	3/24/2015		78.09		19.97	953.9	709.7					0.06	29.930	0.110
P1497	3/31/2015		74.54		19.53	965.9	712.2						30.180	0.112
P1596	3/3/2015		61.96		19.48	1068.0	785.8						10.230	1.184
P1596	3/10/2015		56.26		18.05	959.9	692.0					0.00	10.290	1.108
P1596	3/17/2015		56.55		18.08	975.9	710.1						10.200	1.068
P1596	3/24/2015		57.63		18.26	971.6	710.6					0.00	10.140	1.080
P1596	3/31/2015		55.90		18.22	969.1	700.9						10.370	1.032
P1633	3/3/2015		46.93		15.44	937.5	703.8						8.589	0.993
P1633	3/10/2015		43.26		15.31	831.7	611.8					0.00	8.869	0.885
P1633	3/17/2015		43.79		15.62	883.1	648.9						8.628	0.915
P1633	3/24/2015		42.14		14.11	836.5	614.6					0.00	8.729	0.872
P1633	3/31/2015		41.18		13.82	814.7	595.2						8.658	0.820
P1715	3/3/2015		60.15		20.99	1178.0	875.0						13.480	1.446
P1715	3/10/2015		55.52		19.94	1070.0	763.3					0.00	13.890	1.308
P1715	3/17/2015		56.89		19.85	1124.0	824.6						13.740	1.336
P1715	3/24/2015		55.16		18.94	1061.0	771.7					-0.01	13.460	1.317
P1715	3/31/2015		54.02		18.55	1045.0	746.1						13.290	1.249
P1778	3/3/2015		65.17		20.33	1146.0	840.4						8.791	0.889
P1778	3/10/2015		56.30		18.48	1023.0	749.6					0.02	8.949	0.797
P1778	3/17/2015		58.50		19.08	1046.0	773.6						8.563	0.797
P1778	3/24/2015		58.52		18.68	990.3	721.3					0.02	8.608	0.747
P1778	3/31/2015		58.54		18.71	1035.0	748.7						8.973	0.766

# MINE UNIT 6 RESTORATION DATA

Well	Date	Alk	Ca	Cl	Mg	Na	SO4	Cond	pH	TDS	As	Fe	U	V
P1794	3/3/2015		53.10		17.53	1104.0	829.8						7.374	1.298
P1794	3/10/2015		50.10		16.72	920.3	674.1					0.00	6.854	1.133
P1794	3/17/2015		47.74		16.63	987.3	735.7						7.187	1.154
P1794	3/24/2015		47.75		16.13	899.0	665.3					0.00	6.846	1.097
P1794	3/31/2015		47.75		16.06	889.4	646.9						6.703	1.075
P1800	3/3/2015		77.99		22.07	1101.0	838.8						7.895	0.578
P1800	3/10/2015		71.38		20.45	970.5	721.6					0.00	8.153	0.523
P1800	3/17/2015		73.24		21.45	1027.0	767.5						7.893	0.538
P1800	3/24/2015		68.31		20.02	946.4	717.6					0.00	7.730	0.505
P1800	3/31/2015		69.52		20.10	966.0	723.7						8.157	0.493
P1865	3/3/2015		44.82		14.62	950.0	746.4						8.998	1.363
P1865	3/10/2015		40.95		13.48	795.8	603.7					0.01	8.546	1.171
P1865	3/17/2015		39.59		13.10	834.9	659.7						9.158	1.169
P1865	3/24/2015		41.22		13.59	807.1	611.5					0.01	8.419	1.145
P1865	3/31/2015		40.82		13.53	815.1	611.0						8.677	1.151

7012 3050 0000 5369 9459

RETURN RECEIPT  
REQUESTED



**CAMECO RESOURCES**

Crow Butte Operation  
86 Crow Butte Road  
P.O. Box 169  
Crawford, NE  
69339 USA

Mr. Ron Burrows, Project Manager  
U.S. Nuclear Regulatory Commission,  
Two White Flint North  
11545 Rockville Pike  
Mail Stop T8F5  
Rockville, MD 20852



UNITEL



PITNEY BOWES

\$ 007.61<sup>0</sup>

02 1P  
0001819375 APR 17 2015  
MAILED FROM ZIP CODE 69339