CAMECO RESOURCES
CROW BUTTE OPERATION

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P.O. Box 169
Crawford, Nebraska 69339-0169

(308) 665-2215
(308) 665-2341 – FAX

40-8943

October 12, 2015

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Marty Link, Acting Water Quality Division Administrator
Nebraska Department of Environmental Quality
PO Box 98922
Lincoln, Nebraska 68509-8922

Subject: UIC Permit NE0122611
SM8-28 Monitor Well Excursion

Dear Ms. Link:

On May 21, 2015 during routine biweekly water sampling of Cameco Resources, Crow Butte Operation (CBO) shallow monitor well SM8-28 the single parameter upper control limit (SCL) for conductivity was exceeded. As required by Section B.1 of Part II of UIC Permit NE0122611, a second sample was collected within 24 hours and analyzed for the three excursion indicator parameters. The results of the second sample also exceeded the SCL for conductivity.

In accordance with Section B.1 Part II of the UIC permit, CBO increased the sampling frequency for SM8-28 to weekly. Weekly samples were obtained from May 21, 2015, to August 3, 2015. The samples collected on July 20, 27, and August 3, 2015, were below the excursion criteria from Section B.1 of the permit. Based on these results, CBO removed SM8-28 from excursion status. In accordance with the requirements of Section B.1, weekly sampling continued for an additional three weeks. During the stability monitoring period, the excursion parameters were not exceeded and SM8-28 was returned to biweekly sampling status. Attached are copies of the analytical data for each of the three weekly stability monitoring samples and graphs for each parameter covering the period of May 21, 2015 through October 8, 2015.

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

NM5501

CROW BUTTE RESOURCES, INC.

Sincerely,
Cameco Resources
Crow Butte Operation

Larry Teahon

Larry Teahon
SHEQ Manager

Enclosures: As Stated

cc: CBO – File
NRC - Document Control Desk Director,
NRC – Deputy Director

ec: CR – Casper
Nancy Harris – NDEQ Program Coordinator
Shar Sapp – Chadron Field Office

Cameco

Crow Butte Project
Monitor Well Laboratory Report

Sample Date: 08/10/2015

Analysis Date: 08/10/2015

Well ID	Alkalinity (mg/L)	Alk SCL	Alk MCL	Conductivity (µMho/cm)	Cond SCL	Cond MCL	Chloride (mg/L)	Cl SCL	Cl MCL
SM05-021	182	284	236	459	755	629	4.8	29	24
SM05-022	186	278	232	468	773	644	3.5	33	28
SM05-023	184	287	239	463	753	628	3.5	28	24
SM05-024	175	264	220	443	700	583	5	28	24
SM05-025	175	264	220	465	724	604	6.2	31	26
SM06-011	218	318	265	522	691	576	11	24	20
SM06-012	240	348	290	534	736	613	9.1	23	19
SM06-013	243	360	300	541	768	640	7.4	26	21
SM06-014	208	301	251	552	936	780	12	58	48
SM06-015	209	321	268	538	842	702	11	34	28
SM06-016	212	317	264	448	840	700	3.1	31	26
SM06-018	203	305	254	551	837	697	14	33	27
SM06-019	212	297	247	517	698	582	10	27	22
SM06-020	224	323	269	625	717	598	16	26	22
SM06-021	222	312	260	579	713	594	14	25	21
SM06-022	213	310	258	473	674	562	6.3	22	18
SM06-028	277	351	293	705	778	648	16	24	20
SM08-028	259	328	274	646	801	667	9.1	24	20

Cameco

Crow Butte Project
Monitor Well Laboratory Report

Sample Date: 08/17/2015

Analysis Date: 08/17/2015

Well ID	Alkalinity (mg/L)	Alk SCL	Alk MCL	Conductivity (µMho/cm)	Cond SCL	Cond MCL	Chloride (mg/L)	Cl SCL	Cl MCL
SM07-012	170	223	186	441	619	516	4.4	28	23
SM07-013	154	233	194	366	592	493	5.3	25	21
SM07-014	140	180	150	328	618	515	2.5	65	54
SM08-028	258	328	274	630	801	667	9.2	24	20
SM10-023	237	360	300	556	792	660	16	28	23
SM10-024	230	346	288	531	778	648	11	25	21
SM10-025	230	331	276	531	792	660	11	27	23
SM10-026	246	360	300	578	821	684	15	29	24
SM10-027	266	403	336	571	878	732	7.4	25	21
SM10-028A	228	360	300	619	893	744	31	43	36
SM10-029A	272	360	300	601	864	720	12	31	26

Cameco

Crow Butte Project
Monitor Well Laboratory Report

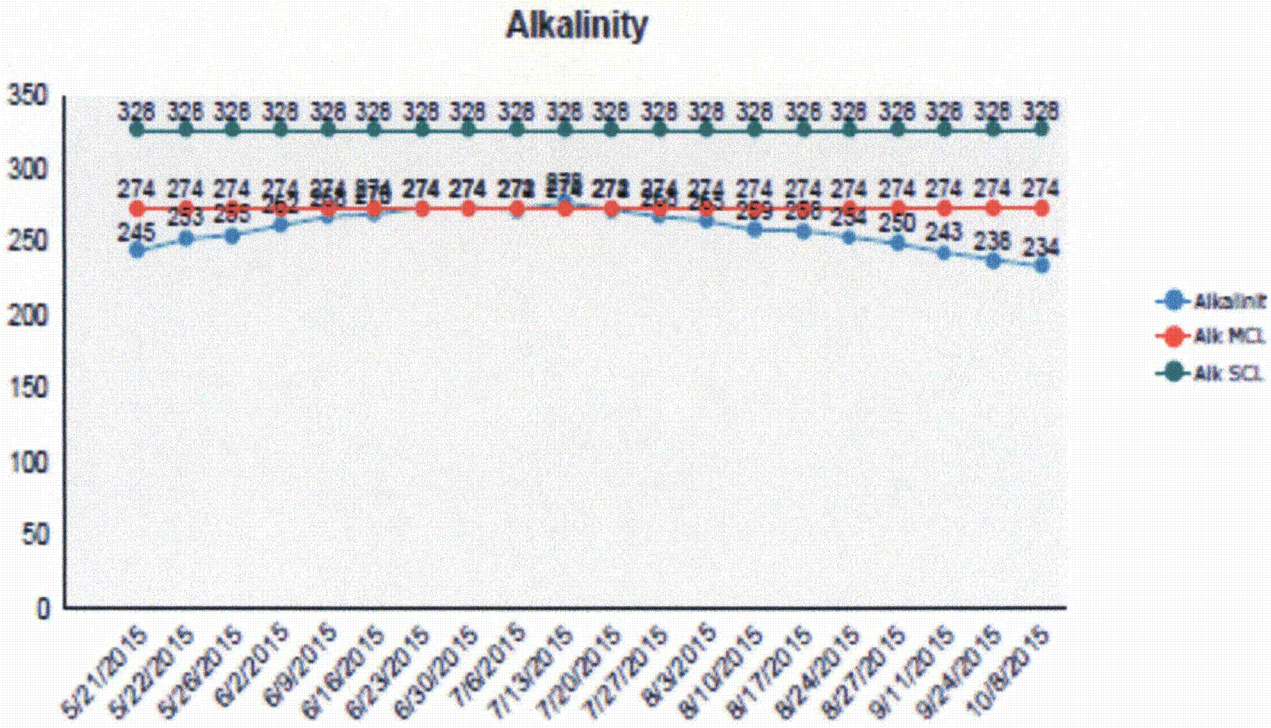
Sample Date: 08/24/2015

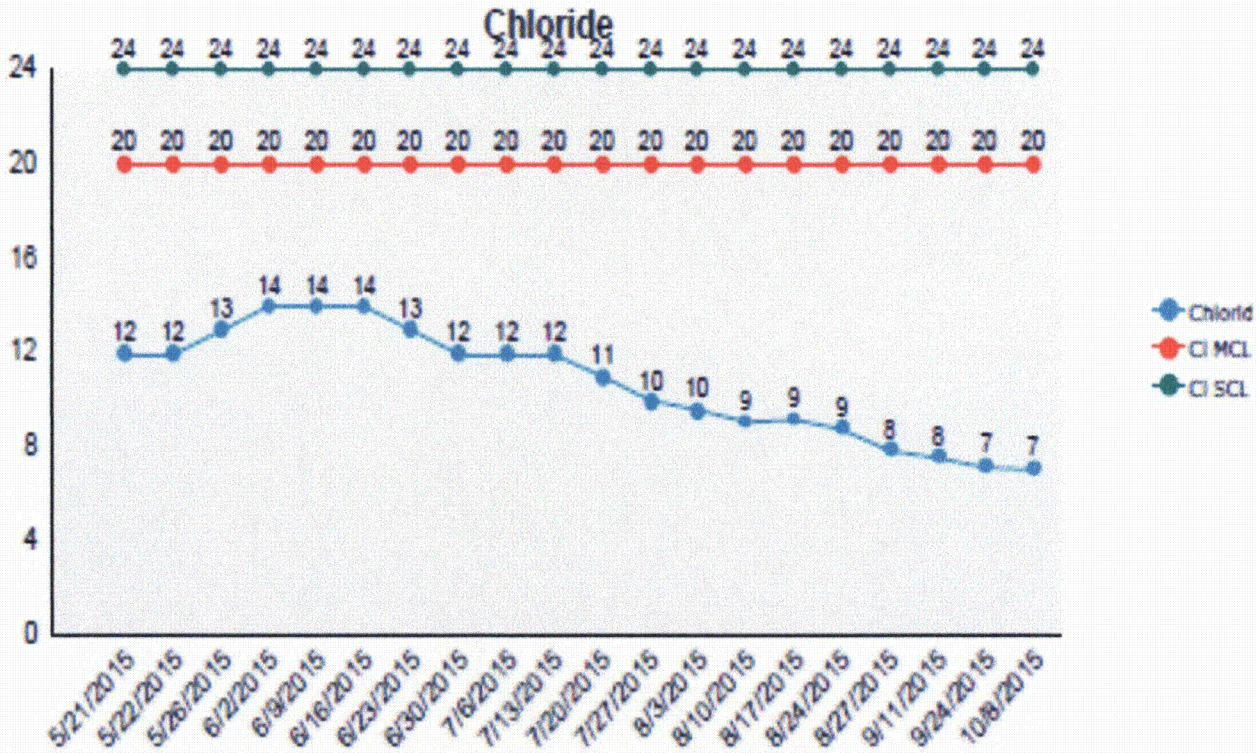
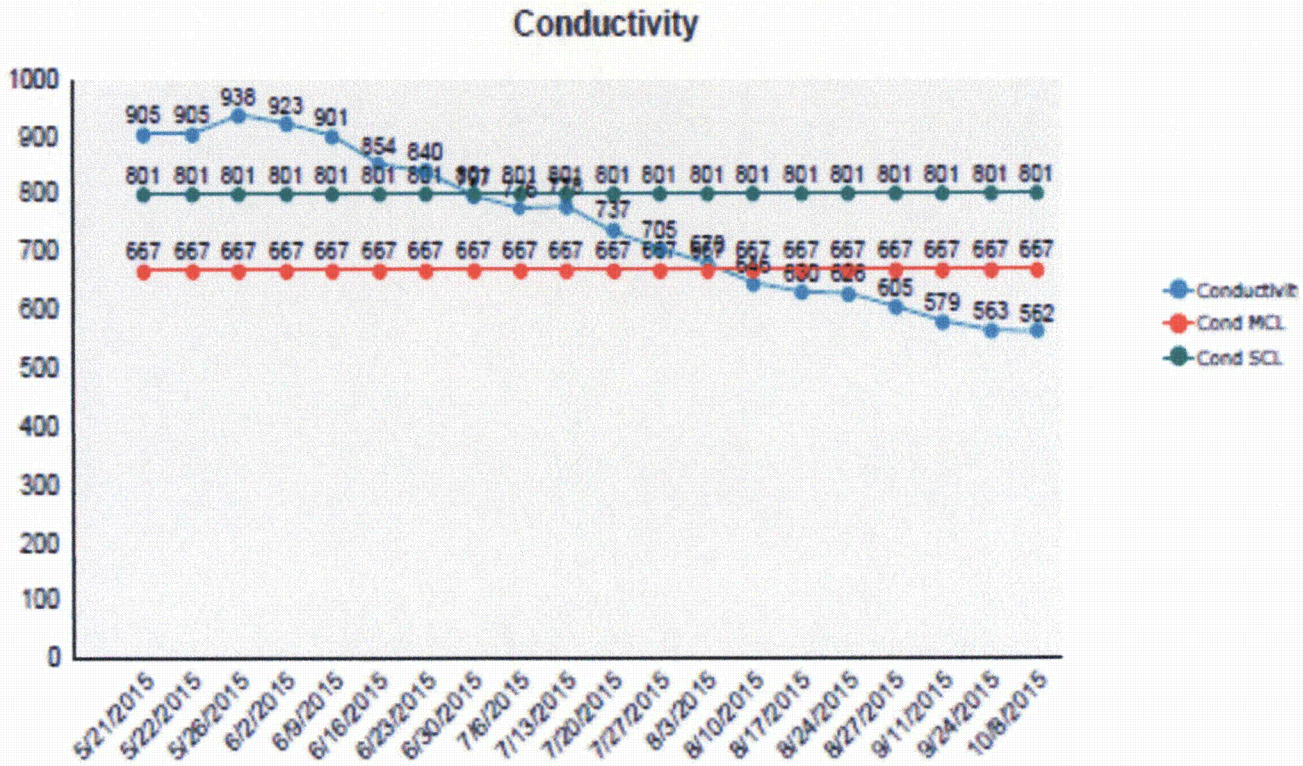
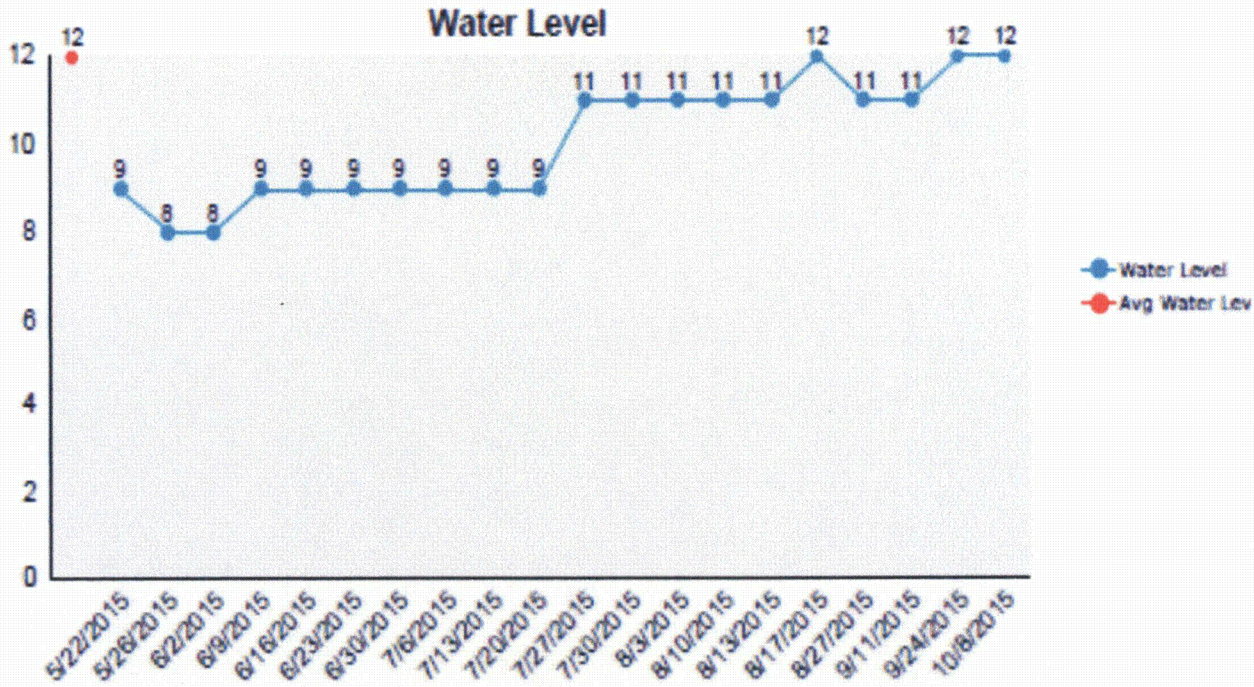
Analysis Date: 08/24/2015

Well ID	Alkalinity (mg/L)	Alk SCL	Alk MCL	Conductivity (µMho/cm)	Cond SCL	Cond MCL	Chloride (mg/L)	Cl SCL	Cl MCL
SM05-021	181	284	236	456	755	629	4.7	29	24
SM05-022	186	278	232	465	773	644	3.4	33	28
SM05-023	184	287	239	458	753	628	3.3	28	24
SM05-024	176	264	220	439	700	583	5.2	28	24
SM05-025	175	264	220	461	724	604	6.1	31	26
SM06-011	218	318	265	522	691	576	11	24	20
SM06-012	241	348	290	530	736	613	8.7	23	19
SM06-013	243	360	300	535	768	640	7.4	26	21
SM06-014	208	301	251	553	936	780	13	58	48
SM06-015	211	321	268	539	842	702	11	34	28
SM06-016	213	317	264	448	840	700	3.4	31	26
SM06-018	203	305	254	552	837	697	14	33	27
SM06-019	212	297	247	514	698	582	9.8	27	22
SM06-020	225	323	269	623	717	598	16	26	22
SM06-021	222	312	260	576	713	594	14	25	21
SM06-022	213	310	258	473	674	562	6.6	22	18
SM06-028	280	351	293	720	778	648	17	24	20
SM08-028	254	328	274	626	801	667	8.8	24	20

SM8-028
10/9/15

SM08-028





SM8-028
10/9/15