



November 19, 2013

CERTIFIED MAIL # 7012 1640 0000 2326 9494

Mr. Robin Jones  
District 1 Supervisor  
Land Quality Division  
Wyoming Department of Environmental Quality  
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**CAMECO RESOURCES**  
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**October 2013 Excursion Report Summary Update, Cameco Resources, Smith Ranch-Highland Uranium Project, Permit 603 and 633**

Dear Mr. Jones:

Power Resources, Inc. d/b/a/ Cameco Resources (Cameco) is submitting the monthly Excursion Report Summary for the Smith Ranch-Highland Uranium Project. No new excursions were reported during the month of October 2013. The Cameco Excursion Report table is attached. Monitor Wells DM-003 and KMO-007 remained on excursion from the previous month. Monitor Well CM-032 shows off excursion but will continue to be monitored weekly through the next report period.

Chloride concentrations in Monitor Well DM-003 for the month of October continue to be above the UCL and show an overall increase from September sample results. Alkalinity and conductivity concentrations continued to fluctuate. During the March 18, 2013 meeting with LQD, Cameco reviewed the underground workings treatment plan involving injection of clean water at the upslope of the workings in MU-C. Cameco began installation of the infrastructure needed to implement the treatment plan in May. Work on the infrastructure was completed in September. Start-up of underground workings treatment plan is waiting for LQD concurrence and anticipated for November 2013.

Concentrations in Monitor Well KMO-007 for all parameters have remained stable during the report period. Cameco will continue to submit sampling results and basic updates within the Monthly Excursion Updates.

Cameco stated in the September Monthly Excursion Update that Well CM-032 would continue to be monitored weekly through October to ensure that excursion control efforts continued to be

effective. The last three samples for this well in September showed concentration below UCL parameters. The first sample of October showed CM-032 above the UCL on both alkalinity and conductivity and then again dropping below the UCL's for the remainder of the report period. As can be seen in the attached graphs for Well CM-032, all parameters are showing an overall downward trend since the reported excursion in August 2013. Cameco is going to continue to sample this well weekly through the November report period to continue monitoring the success of the excursion control efforts.

Copies of the monitor well reports for these wells are attached. Also attached please find graphs tracking alkalinity, chloride, conductivity and water level trends for each well. Note that the water level graph represents depth of water where the monitor well report data sheet gives water level in elevation.

Please contact me at 307-358-6541, ext. 476 or [Kenneth\\_Garoutte@cameco.com](mailto:Kenneth_Garoutte@cameco.com) if you have questions.

Respectfully,



Ken Garoutte  
Safety, Health, Environment, Quality (SHEQ) Manager

KG/vg

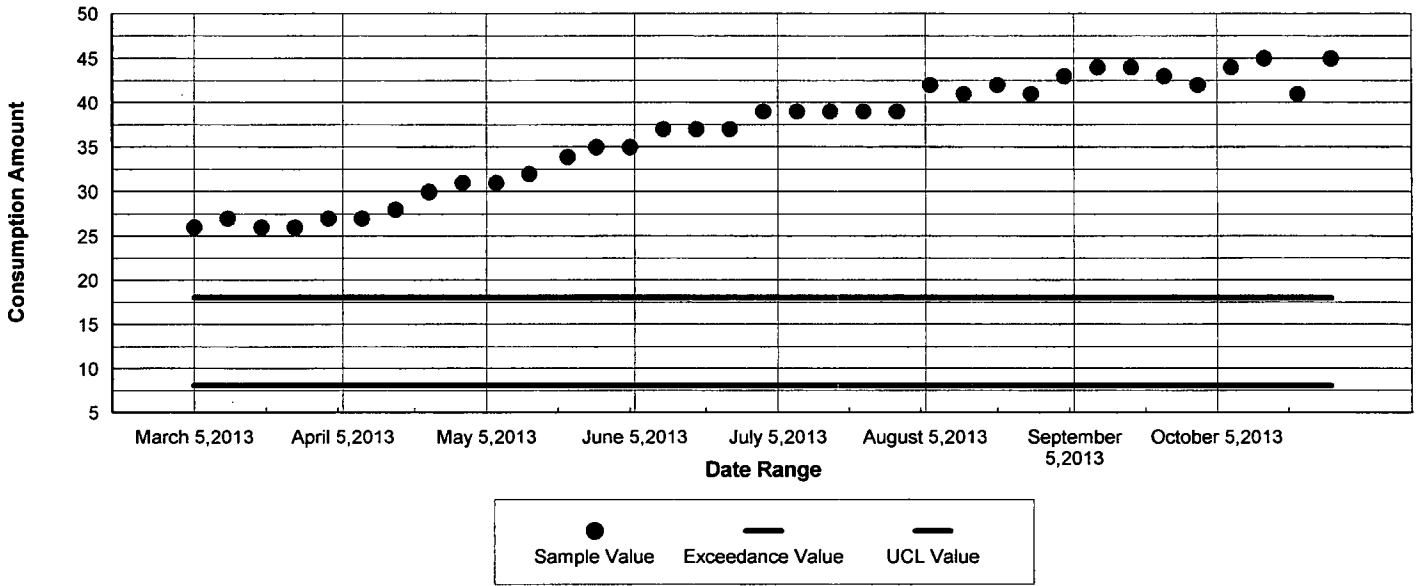
Attachments: Cameco Resources Excursion Report  
Monitor Well Report and Trend Graphs for DM-003, KMO-007 and CM-032

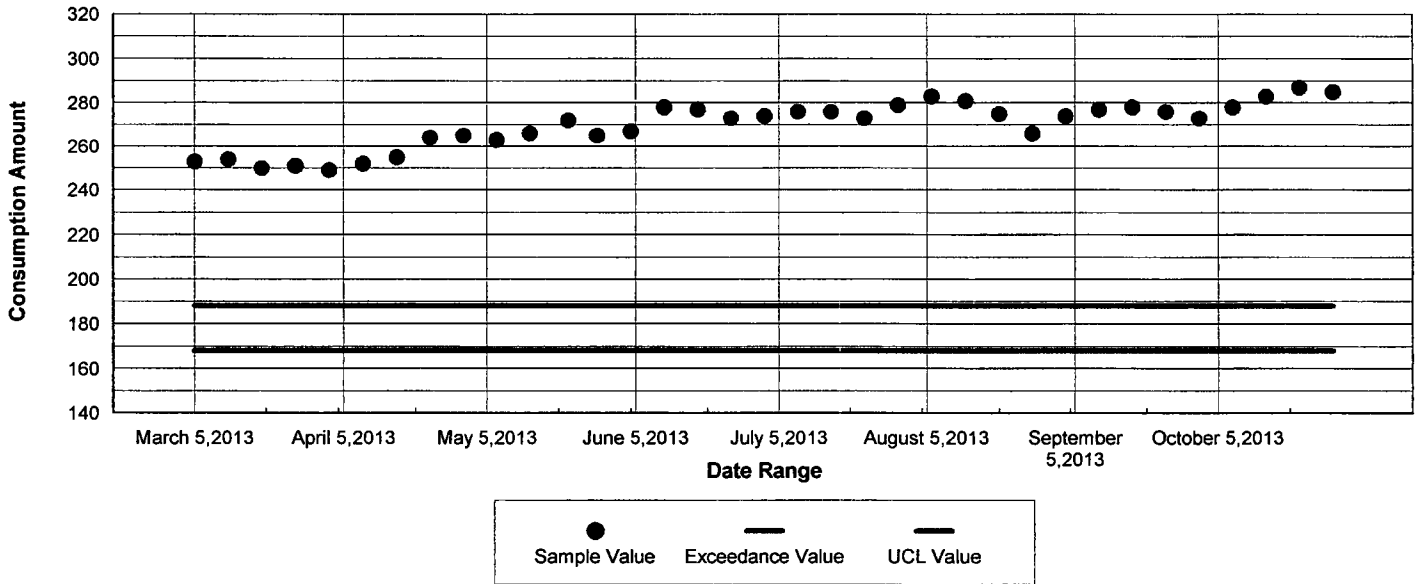
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Special Volume: Monthly Excursion Reports Summary Updates, Permit 603 and 633  
Mr. Doug Mandeville, NRC - CERTIFIED MAIL # 7012 1640 0000 2326 9470  
Document Control Desk, NRC - CERTIFIED MAIL # 7012 1640 0000 2326 9524

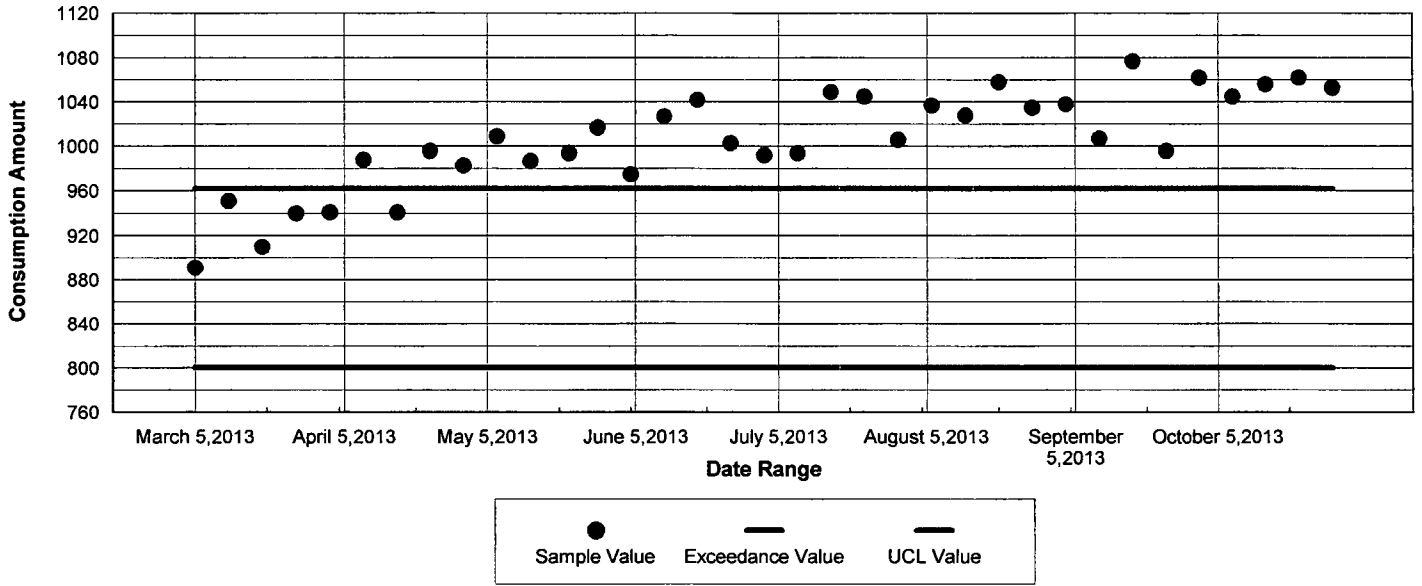
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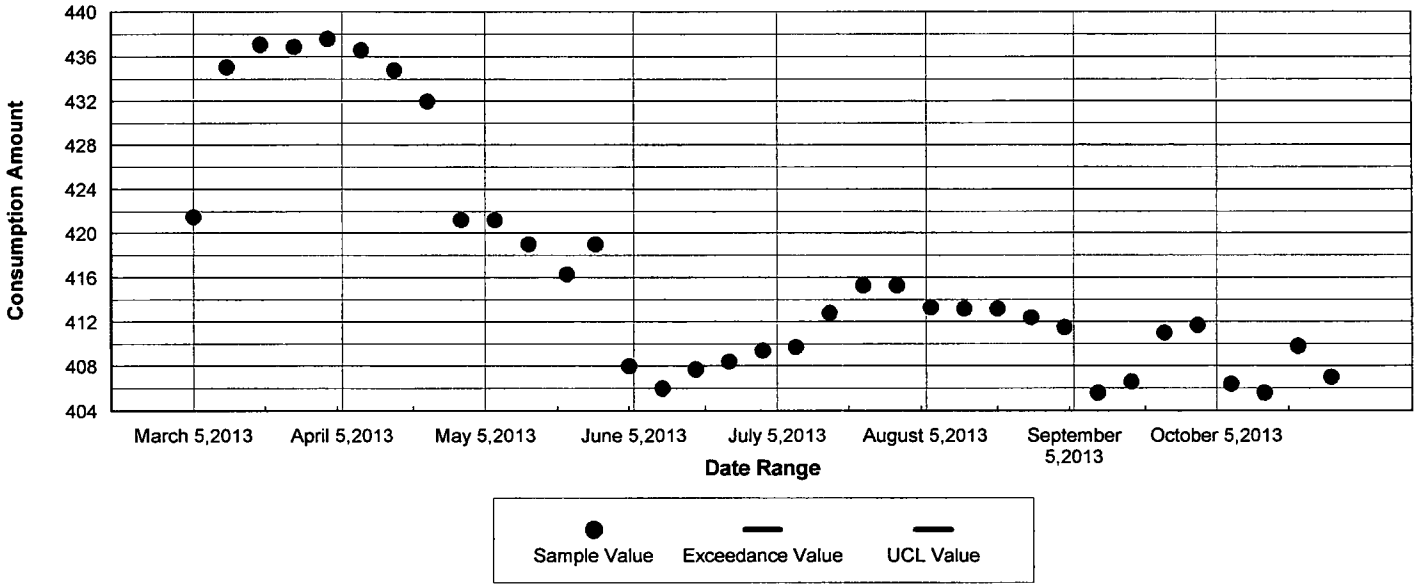
**Cameco Resources Excursion Report  
Permit Nos. 603 & 633  
(October 2013)**

<b>Well Identification</b>	<b>Initial Sample Date</b>	<b>Confirmation Sample Date</b>	<b>Excursion Status (on/off)</b>	<b>Parameters Exceeded</b>	<b>Verbal Notification Date</b>	<b>Written Notification Date</b>	<b>Excursion Resolution Date</b>	<b>LQD Concurrence Notification Date</b>
DM-003	11/19/2009	11/20/2009	ON	Chloride Alkalinity	11/23/2009	11/25/2009		
KMO-007	3/8/2013	3/11/2013	ON	Alkalinity Conductivity	3/12/2013	3/19/2013		
CM-032	8/6/2013	8/8/2013	ON	Alkalinity Conductivity	8/12/2013	8/15/2013		











**Cameco Resources**

**Smith Ranch - Highland Operation**

**Monitor Well Report**

*Well ID:* DM-003

<i>NRC/WDEQ UCL</i>	<i>Chloride (mg/L)</i>	<i>Alkalinity (mg/L CaCO<sub>3</sub>)</i>	<i>Conductivity (µMhos/cm)</i>	<i>U<sub>3</sub>O<sub>8</sub> (mg/L)</i>	<i>Water Elevation</i>	<i>Comment</i>
	18	188	962			
10/29/2013	45	285	1053	0	5089.4	
10/22/2013	41	287	1062	0	5086.6	
10/15/2013	45	283	1056	0	5090.8	
10/08/2013	44	278	1045	0	5090.0	
10/01/2013	42	273	1062	0	5084.7	
09/24/2013	43	276	996	0	5085.4	
09/17/2013	44	278	1077	0	5089.8	
09/10/2013	44	277	1007	0	5090.8	
09/03/2013	43	274	1038	0	5084.9	
08/27/2013	41	266	1035	0	5084.0	
08/20/2013	42	275	1058	0	5083.2	
08/13/2013	41	281	1028	0	5083.2	
08/06/2013	42	283	1037	0	5083.1	
07/30/2013	39	279	1006	0	5081.1	
07/23/2013	39	273	1045	0	5081.1	
07/16/2013	39	276	1049	0	5083.6	
07/09/2013	39	276	994	0	5086.7	
07/02/2013	39	274	992	0	5087.0	
06/25/2013	37	273	1003	0	5088.0	
06/18/2013	37	277	1042	0	5088.7	
06/11/2013	37	278	1027	0	5090.4	
06/04/2013	35	267	975	0	5088.4	
05/28/2013	35	265	1017	0	5077.4	

**11/13/2013**





**Cameco Resources**

**Smith Ranch - Highland Operation**

**Monitor Well Report**

Well ID: DM-003

<i>NRC/WDEQ UCL</i>	<i>Chloride (mg/L)</i>	<i>Alkalinity (mg/L CaCO<sub>3</sub>)</i>	<i>Conductivity (µMhos/cm)</i>	<i>U<sub>3</sub>O<sub>8</sub> (mg/L)</i>	<i>Water Elevation</i>	<i>Comment</i>
	18	188	962			
05/22/2013	34	272	994	0	5080.1	
05/14/2013	32	266	987	0	5077.4	
05/07/2013	31	263	1009	0	5075.2	
04/30/2013	31	265	983	0	5075.2	
04/23/2013	30	264	996	0	5064.4	
04/16/2013	28	255	941	0	5061.6	
04/09/2013	27	252	988	0	5059.8	
04/02/2013	27	249	941	0	5058.8	
03/26/2013	26	251	940	0	5059.5	
03/19/2013	26	250	910	0	5059.3	
03/12/2013	27	254	951	0	5061.3	
03/05/2013	26	253	891	0	5074.9	
02/26/2013	26	255	948	0	5060.4	
02/19/2013	27	255	938	0	5057.0	
02/12/2013	31	270	991	0	5051.9	
02/05/2013	30	264	996	0	5052.5	
01/29/2013	28	252	958	0	5053.4	
01/22/2013	30	264	956	0	5054.9	
01/15/2013	26	254	918	0	5061.6	
01/08/2013	27	259	943	0	5061.8	
01/02/2013	30	265	978	0	5059.6	
12/26/2012	30	267	946	0	5061.5	
12/18/2012	30	264	963	0	5057.6	

11/13/2013

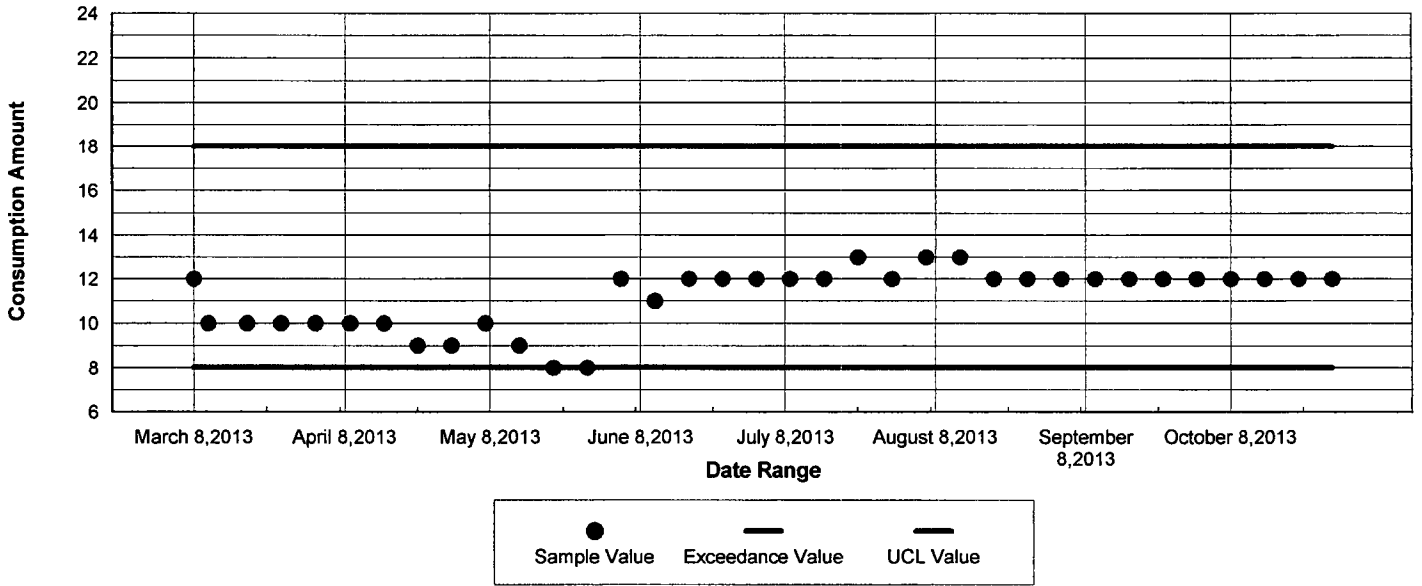


**Cameco Resources**  
**Smith Ranch - Highland Operation**  
**Monitor Well Report**

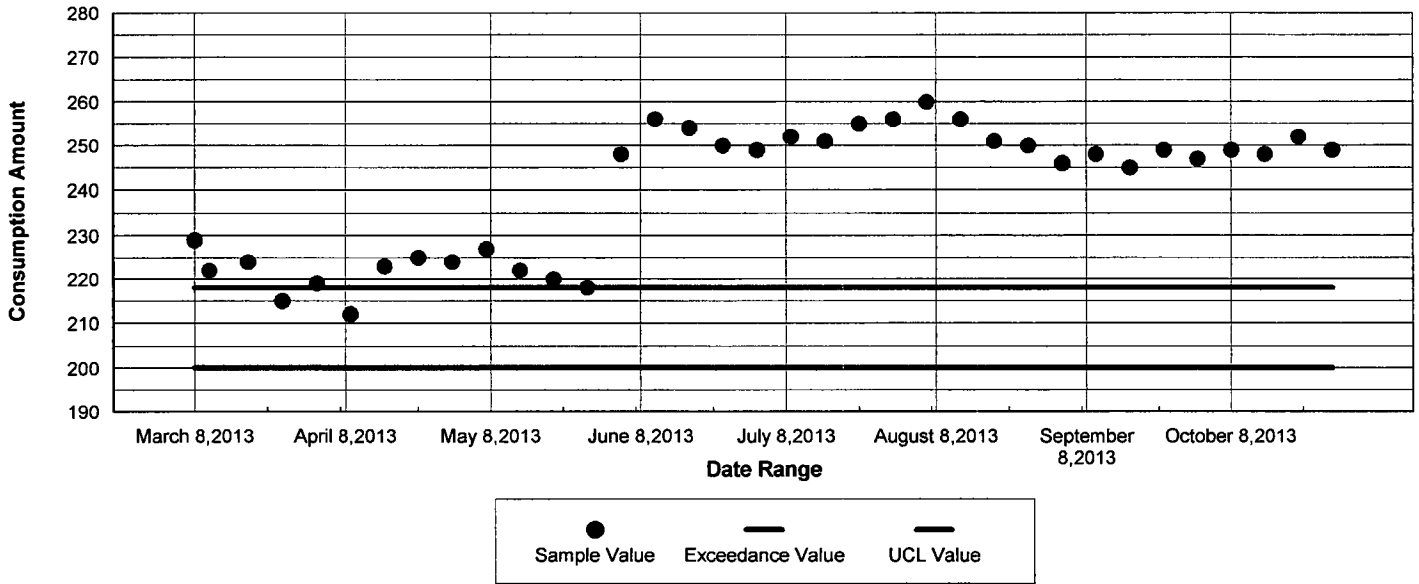
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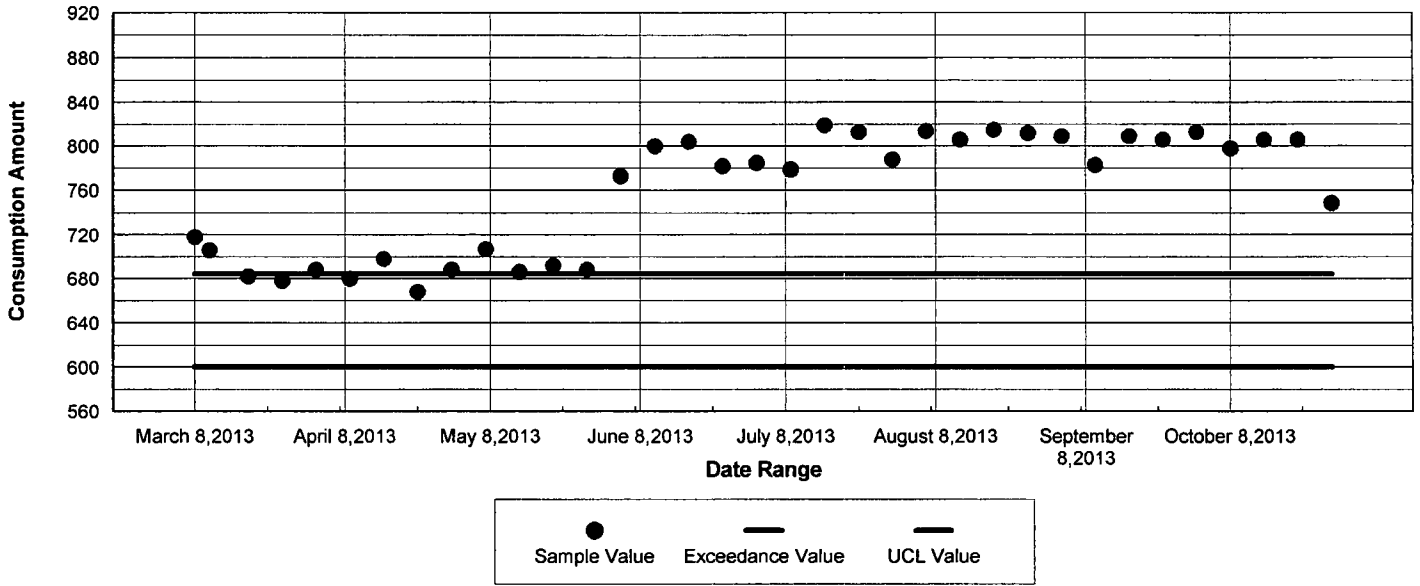
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	18	188	962			
12/11/2012	28	259	893	0	5058.4	
12/04/2012	25	251	959	0	5056.6	
11/27/2012	24	246	930	0	5053.4	
11/20/2012	24	259	881	0	5047.8	
11/13/2012	18	250	859	0	5047.0	
11/06/2012	28	274	998	0	5047.8	
10/30/2012	30	278	998	0	5048.2	
10/23/2012	34	293	1077	0	5054.0	
10/16/2012	37	303	1037	0	5058.7	
10/09/2012	35	300	1045	0	5047.8	
10/02/2012	38	303	1046	0	5048.2	

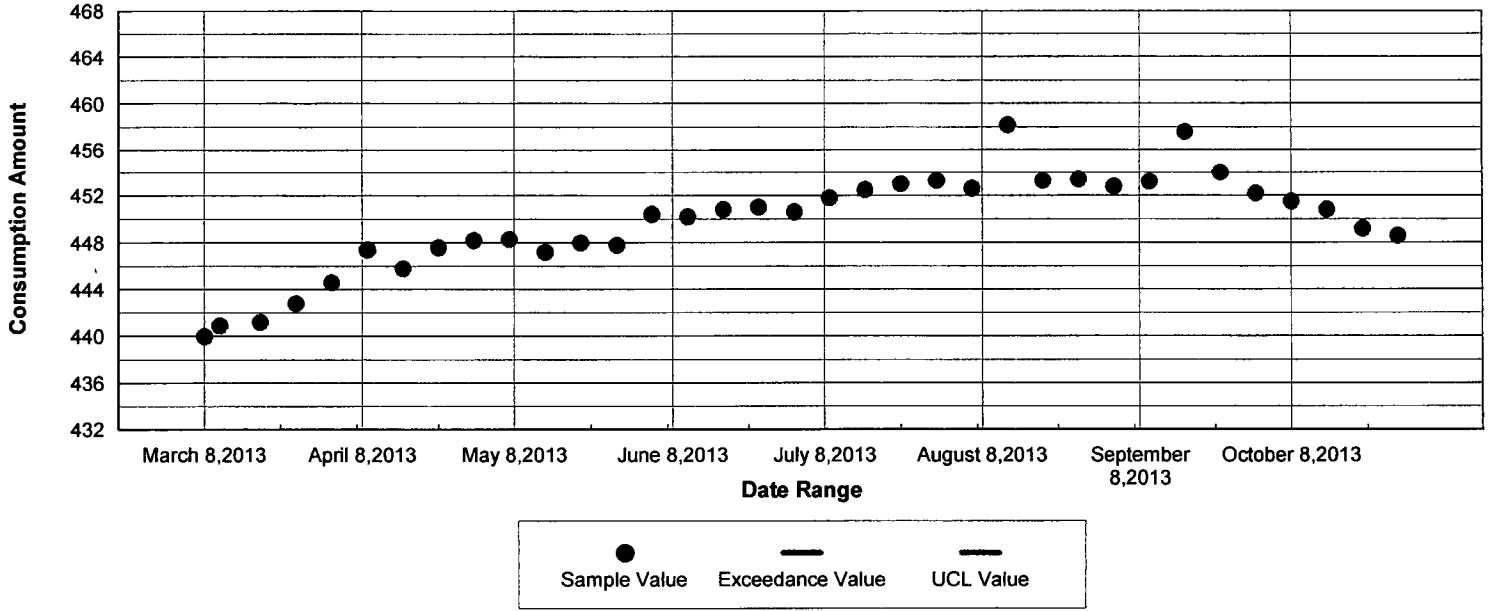
*11/13/2013*



**Alkalinity**  
**Trending Analysis**  
 Well : KMO-007









**Cameco Resources**  
**Smith Ranch - Highland Operation**  
**Monitor Well Report**

*Well ID: KMO-007*

<i>NRC/WDEQ UCL</i>	<i>Chloride (mg/L)</i>	<i>Alkalinity (mg/L CaCO<sub>3</sub>)</i>	<i>Conductivity (µMhos/cm)</i>	<i>U<sub>3</sub>O<sub>8</sub> (mg/L)</i>	<i>Water Elevation</i>	<i>Comment</i>
	18	218	684			
10/29/2013	12	249	749	0	5212.2	
10/22/2013	12	252	806	0	5211.6	
10/15/2013	12	248	806	0	5210.0	
10/08/2013	12	249	798	0	5209.3	
10/01/2013	12	247	813	0	5208.6	
09/24/2013	12	249	806	0	5206.8	
09/17/2013	12	245	809	0	5203.2	
09/10/2013	12	248	783	0	5207.6	
09/03/2013	12	246	809	0	5208.0	
08/27/2013	12	250	812	0	5207.4	
08/20/2013	12	251	815	0	5207.5	
08/13/2013	13	256	806	0	5202.6	
08/06/2013	13	260	814	0	5208.2	
07/30/2013	12	256	788	0	5207.5	
07/23/2013	13	255	813	0	5207.8	
07/16/2013	12	251	819	0	5208.3	
07/09/2013	12	252	779	0	5209.0	
07/02/2013	12	249	785	0	5210.2	
06/25/2013	12	250	782	0	5209.8	
06/18/2013	12	254	804	0	5210.0	
06/11/2013	11	256	800	0	5210.6	
06/04/2013	12	248	773	0	5210.4	
05/28/2013	8	218	688	0	5213.0	

*11/13/2013*



*Cameco Resources*

*Smith Ranch - Highland Operation*

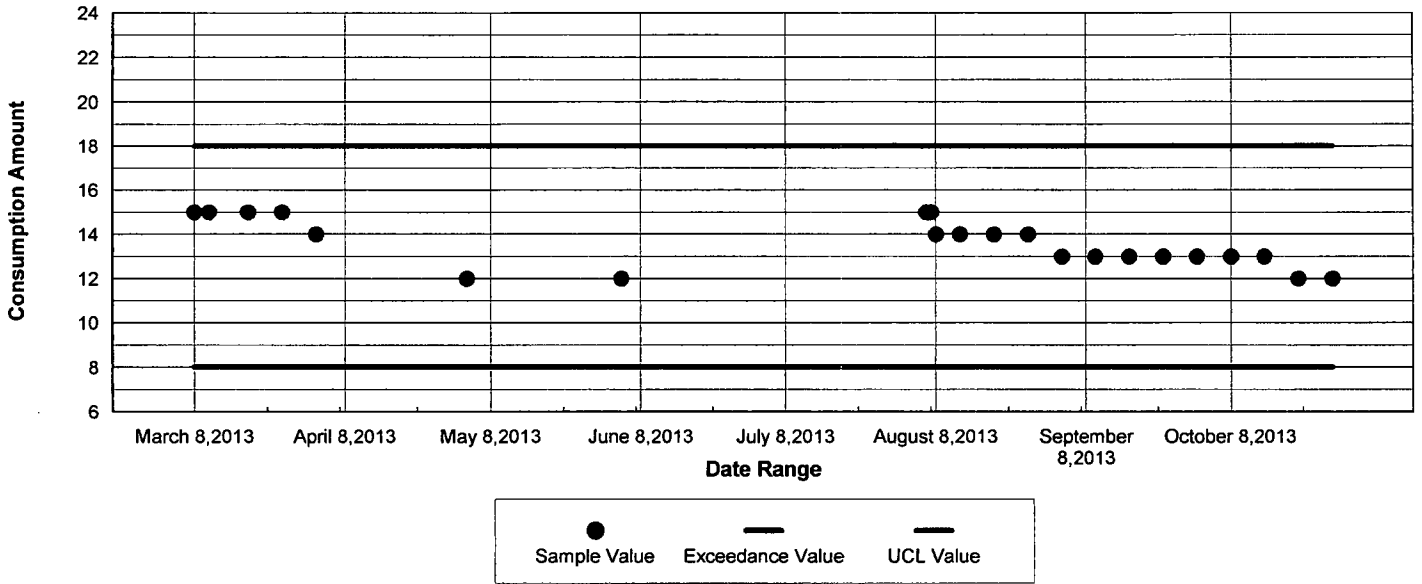
*Monitor Well Report*

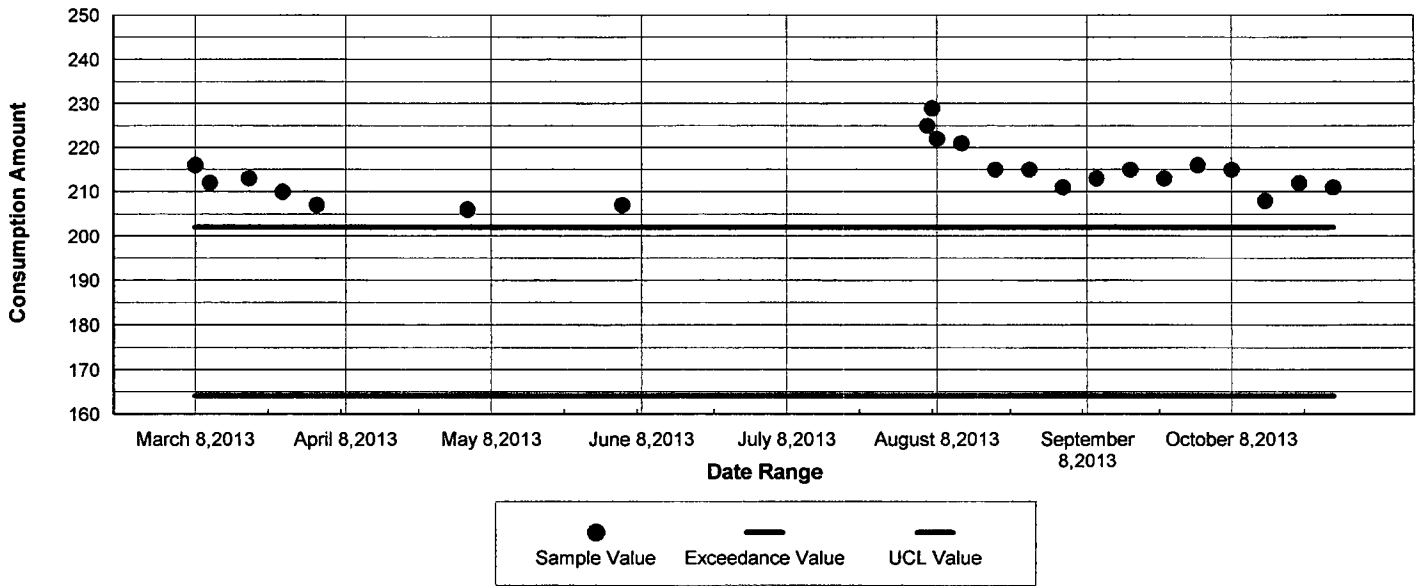
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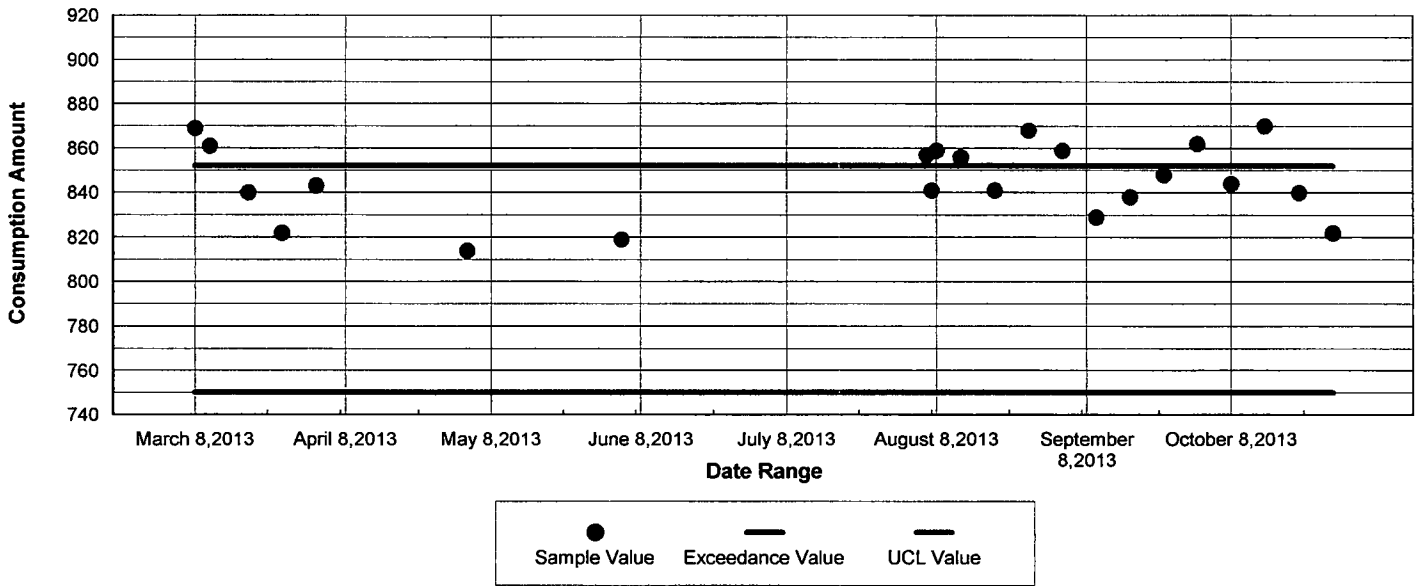
<i>NRC/WDEQ UCL</i>	<i>Chloride (mg/L)</i>	<i>Alkalinity (mg/L CaCO<sub>3</sub>)</i>	<i>Conductivity (µMhos/cm)</i>	<i>U<sub>3</sub>O<sub>8</sub> (mg/L)</i>	<i>Water Elevation</i>	<i>Comment</i>
	18	218	684			
05/21/2013	8	220	692	0	5212.8	
05/14/2013	9	222	686	0	5213.6	
05/07/2013	10	227	707	0	5212.5	
04/30/2013	9	224	688	0	5212.6	
04/23/2013	9	225	668	0	5213.2	
04/16/2013	10	223	698	0	5215.0	
04/09/2013	10	212	680	0	5213.4	
04/02/2013	10	219	688	0	5216.2	
03/26/2013	10	215	678	0	5218.0	
03/19/2013	10	224	682	0	5219.6	
03/11/2013	10	222	706		5219.9	
03/08/2013	12	229	718		5220.8	
02/22/2013	9	223	680		5223.7	
02/08/2013	8	217	681		5228.0	
01/25/2013	7	196	651		5254.2	
01/11/2013	7	206	643		5233.2	
12/26/2012	8	209	652		5237.0	
12/11/2012	8	208	658		5237.6	
11/19/2012	8	218	660		5235.8	
11/06/2012	8	212	631		5234.0	
10/23/2012	7	213	638		5233.8	
10/08/2012	6	206	609		5234.8	

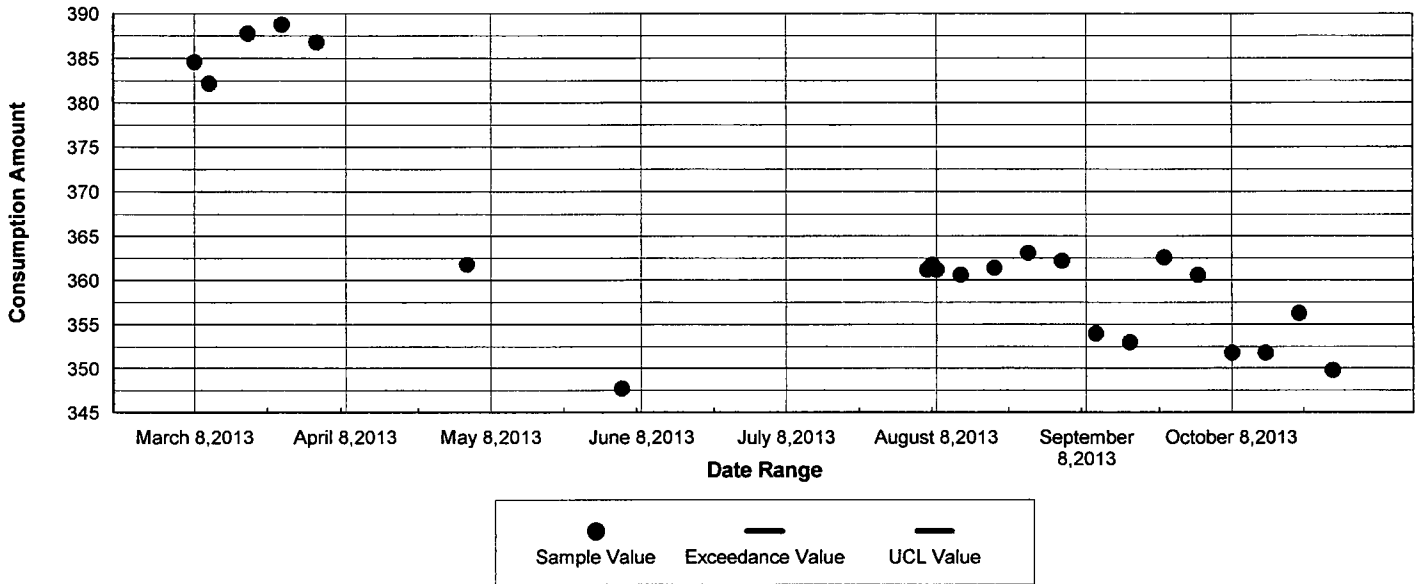
*11/13/2013*













**Cameco Resources**  
**Smith Ranch - Highland Operation**  
**Monitor Well Report**

*Well ID:* CM-032

<i>NRC/WDEQ UCL</i>	<i>Chloride (mg/L)</i>	<i>Alkalinity (mg/L CaCO<sub>3</sub>)</i>	<i>Conductivity (µMhos/cm)</i>	<i>U<sub>3</sub>O<sub>8</sub> (mg/L)</i>	<i>Water Elevation</i>	<i>Comment</i>
	18	202	852			
10/29/2013	12	211	822	0	5087.7	
10/22/2013	12	212	840	0	5081.2	
10/15/2013	13	208	870	0	5085.7	
10/08/2013	13	215	844	0	5085.7	
10/01/2013	13	216	862		5076.9	
09/24/2013	13	213	848	0	5074.9	
09/17/2013	13	215	838	0	5084.5	
09/10/2013	13	213	829	0	5083.5	
09/03/2013	13	211	859	0	5075.3	
08/27/2013	14	215	868	0	5074.4	
08/20/2013	14	215	841	0	5076.1	
08/13/2013	14	221	856	0	5076.9	
08/08/2013	14	222	859		5076.3	
08/07/2013	15	229	841		5075.7	
08/06/2013	15	225	857		5076.3	
06/04/2013	12	207	819		5089.8	
05/03/2013	12	206	814		5075.7	
04/02/2013	14	207	843	0	5050.7	
03/26/2013	15	210	822	0	5048.7	
03/19/2013	15	213	840	0	5049.7	
03/11/2013	15	212	861		5055.3	
03/08/2013	15	216	869		5052.9	
01/08/2013	15	205	835		5056.7	

**11/13/2013**



*Cameco Resources*  
*Smith Ranch - Highland Operation*  
*Monitor Well Report*

*Well ID: CM-032*

	<i>Chloride (mg/L)</i>	<i>Alkalinity (mg/L CaCO<sub>3</sub>)</i>	<i>Conductivity (μMhos/cm)</i>	<i>U<sub>3</sub>O<sub>8</sub> (mg/L)</i>	<i>Water Elevation</i>	<i>Comment</i>
<i>NRC/WDEQ UCL</i>	18	202	852			
11/09/2012	11	201	795		5061.2	