



August 6, 2014

CERTIFIED MAIL # 7012 1640 0000 2326 6400

Mr. Mark Rogaczewski, District 3 Supervisor
Land Quality Division
Wyoming Department of Environmental Quality
2100 West 5th Street
Sheridan, WY 82801

CAMECO RESOURCES

Smith Ranch-Highland
Operation

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July 2014 Excursion Report Summary Update, Cameco Resources, Smith Ranch-Highland Uranium Project, Permit 633

Dear Mr. Rogaczewski:

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 July 2014. The Cameco Excursion Report table is attached. Monitor Wells DM-003 and DM-004 remained on excursion from the previous month

Monitor Well DM-003 and DM-004 continued to show fluctuations in all parameters, with an overall increase in each parameter through the report period. Attached please find a Non-significant revision (NSR) to Permit 633 to plug and abandon Monitor Wells DM-003 and DM-004 and replace these monitor wells with DM-003A and DM-004A. Copies of the monitor well reports for these wells are attached. Upon Wyoming Department of Environmental Quality – Land Quality Division (WDEQ-LQD) approval of the attached NSR, excursion monitoring at Monitor Wells DM-003 & DM-004 will discontinue and both wells will be plugged and abandoned in accordance to Wyoming Department of Environmental Quality – Land Quality Division Noncoal In-situ Mining Rules & Regulations, Chapter 11, Section 8 (h).

Please contact me at 307-358-6541, ext. 476 or Kenneth_Garoutte@cameco.com if you have questions.

Respectfully,

A handwritten signature in black ink, appearing to read "Ken Garoutte".

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

KG/vg

TSME20
FSME

Attachments: Cameco Resources Excursion Report Table
Monitor Well Reports for DM-003 and DM-004
DM-003A Sampling Results
DM-004A Sampling Results

cc: File SR 4.3.3.1
Special Volume: Monthly Excursion Reports Summary Updates Permit 633
wo/ IOC: Mr. Doug Mandeville, NRC - CERTIFIED MAIL # 7012 1640 0000 2326 6417
wo/IOC: Document Control Desk, NRC - CERTIFIED MAIL # 7012 1640 0000 2326 6424

ec: Cameco-Cheyenne

xc: Cheyenne LQD Files

Cameco Resources Excursion Report
Permit Nos. 603 & 633
(July 2014)

Well Identification	Initial Sample Date	Confirmation Sample Date	Excursion Status (on/off)	Parameters Exceeded	Verbal Notification Date	Written Notification Date	Excursion Resolution Date	LQD Concurrence Notification Date
DM-003	11/19/2009	11/20/2009	ON	Chloride Alkalinity	11/23/2009	11/25/2009		
DM-004	12/11/2013	12/12/2013	ON	Chloride Alkalinity	12/13/2013	12/17/2013		



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 CaCO₃)</i>	<i>Conductivity (μMhos/cm)</i>	<i>U₃O₈ (mg/L)</i>	<i>Water Elevation</i>	<i>Comment</i>
	18	188	962			
07/29/2014	43	311	1104	0	5072.5	
07/22/2014	35	291	1083	0	5070.8	
07/15/2014	40	315	1165	0	5067.0	
07/08/2014	43	305	1153	0	5070.8	
07/01/2014	41	303	1122	0	5068.3	
06/24/2014	39	299	1128	0	5070.0	
06/17/2014	36	287	1057	0	5070.2	
06/10/2014	36	290	1020	0	5072.0	
06/03/2014	34	283	1004	0	5074.9	
05/27/2014	39	317	1075	0	5077.6	
05/20/2014	34	284	1062	0	5076.8	
05/13/2014	34	281	1041	0	5075.4	
05/06/2014	32	274	937	0	5072.8	
04/29/2014	31	268	916	0	5067.7	
04/22/2014	29	265	962	0	5074.4	
04/15/2014	30	257	965	0	5072.8	
04/08/2014	31	253	945		5072.6	
04/01/2014	35	245	947	0	5075.4	
03/25/2014	40	272	1032	0	5091.6	
03/18/2014	44	280	998	0	5087.6	
03/11/2014	40	270	994	0	5089.6	
03/04/2014	46	275	1032	0	5088.6	
02/25/2014	42	259	1029	0	5089.3	

07/31/2014



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 CaCO₃)</i>	<i>Conductivity (μMhos/cm)</i>	<i>U₃O₈ (mg/L)</i>	<i>Water Elevation</i>	<i>Comment</i>
	18	188	962			
02/18/2014	43	277	1031	0	5088.8	
02/11/2014	42	275	1058	0	5085.6	
02/04/2014	42	277	1081	0	5086.4	
01/28/2014	41	282	1026	0	5086.2	
01/21/2014	40	278	999	0	5088.4	
01/14/2014	41	269	1041	0	5090.1	
01/07/2014	39	269	1025	0	5089.3	
12/31/2013	37	261	1041	0	5090.6	
12/23/2013	34	267	1003	0	5086.4	
12/17/2013	33	257	969	0	5087.6	
12/10/2013	31	272	968	0	5066.0	
12/03/2013	28	273	958	0	5068.9	
11/26/2013	29	270	923	0	5067.6	
11/19/2013	31	271	938	0	5069.2	
11/12/2013	32	257	965	0	5069.4	
11/05/2013	46	284	1041	0	5089.1	
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	

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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 CaCO₃)</i>	<i>Conductivity (μMhos/cm)</i>	<i>U₃O₈ (mg/L)</i>	<i>Water Elevation</i>	<i>Comment</i>
	18	188	962			
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	
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	

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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 CaCO₃)</i>	<i>Conductivity (μMhos/cm)</i>	<i>U₃O₈ (mg/L)</i>	<i>Water Elevation</i>	<i>Comment</i>
	18	188	962			
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	

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Cameco Resources
Smith Ranch - Highland Operation
Monitor Well Report

Well ID: DM-004

<i>NRC/WDEQ UCL</i>	<i>Chloride (mg/L)</i>	<i>Alkalinity (mg/L CaCO₃)</i>	<i>Conductivity (μMhos/cm)</i>	<i>U₃O₈ (mg/L)</i>	<i>Water Elevation</i>	<i>Comment</i>
	18	188	962			
07/29/2014	33	228	948	0	5083.0	
07/22/2014	33	225	955	0	5083.2	
07/15/2014	34	226	978	0	5083.4	
07/08/2014	29	212	933	0	5082.3	
07/01/2014	29	210	927	0	5080.3	
06/24/2014	31	222	981	0	5081.6	
06/17/2014	29	210	928	0	5081.8	
06/10/2014	28	207	867	0	5083.0	
06/03/2014	28	212	884	0	5086.5	
05/27/2014	33	254	957	0	5087.5	
05/20/2014	28	215	954	0	5088.4	
05/13/2014	25	200	892	0	5086.1	
05/06/2014	26	199	835	0	5084.4	
04/29/2014	25	198	839	0	5084.3	
04/22/2014	25	206	898	0	5086.2	
04/15/2014	24	203	875	0	5084.4	
04/08/2014	23	201	868		5084.1	
04/01/2014	23	210	879	0	5087.2	
03/25/2014	24	219	893	0	5092.4	
03/18/2014	23	212	844	0	5077.4	
03/11/2014	24	215	855	0	5090.2	
03/04/2014	24	211	890	0	5089.8	
02/25/2014	22	208	916	0	5089.9	

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Cameco Resources
Smith Ranch - Highland Operation
Monitor Well Report

Well ID: DM-004

<i>NRC/WDEQ UCL</i>	<i>Chloride (mg/L)</i>	<i>Alkalinity (mg/L CaCO₃)</i>	<i>Conductivity (μMhos/cm)</i>	<i>U₃O₈ (mg/L)</i>	<i>Water Elevation</i>	<i>Comment</i>
	18	188	962			
02/18/2014	22	210	892	0	5087.7	
02/11/2014	22	210	894	0	5085.0	
02/04/2014	21	203	901	0	5085.5	
01/28/2014	20	198	845	0	5085.2	
01/23/2014	18	174	823	0	5086.4	
01/22/2014	14	157	797		5088.8	
01/14/2014	21	201	849	0	5089.4	
01/07/2014	21	204	888	0	5088.8	
12/31/2013	22	199	905	0	5090.2	
12/23/2013	21	200	883	0	5086.2	
12/17/2013	22	205	881	0	5086.7	
12/12/2013	23	205	863	0	5085.8	
12/11/2013	25	207	910		5089.2	
10/08/2013	15	193	826		5089.6	
08/07/2013	15	197	830		5083.2	
06/05/2013	17	195	838		5087.6	
04/08/2013	18	206	888		5060.0	
02/06/2013	18	200	878		5057.6	

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Monitor Well DM-003A (Replacement for Monitor Well DM-003)				
DM-003A	Alkalinity	Chloride	Conductivity	Water Level
3/25/2014	144	34	828	404.4
4/1/2014	210	34	902	432
4/8/2014	121	27	764	422.6
4/15/2014	228	29	906	422.4
4/22/2014	211	26	871	421
4/29/2014	252	30	883	421.3
5/6/2014	260	27	836	422.5
5/13/2014	272	32	1003	419.4
5/20/2014	273	33	1039	417.9
5/27/2014	328	39	1077	417.4
6/3/2014	264	32	954	420.5
6/10/2014	273	34	985	422.8
6/17/2014	266	34	1012	424.3
6/24/2014	294	38	1112	424.5
7/1/2014	295	40	1108	426.8
7/8/2014	293	40	1092	424.4
7/15/2014	307	41	1136	424.2
7/22/2014	299	44	1117	423.3
7/29/2014	314	46	1094	422.6

Monitor Well DM-004A (Replacement for Monitor Well DM-004)				
DM-004A	Alkalinity	Chloride	Conductivity	Water Level
3/25/2014	66	9	585	402.3
4/1/2014	65	9	579	408.6
4/8/2014	93	9	638	410
4/15/2014	132	10	693	409.4
4/22/2014	113	10	718	407.3
4/29/2014	145	12	720	409.5
5/6/2014	110	12	668	409.4
5/13/2014	147	13	777	407.2
5/20/2014	131	14	755	405.4
5/27/2014	145	14	802	404.8
6/3/2014	138	13	744	407.5
6/10/2014	155	14	750	416
6/17/2014	144	14	772	411.6
6/24/2014	140	13	786	411.2
7/1/2014	170	15	823	413.6
7/8/2014	161	15	798	411.4
7/15/2014	161	15	819	410.5
7/22/2014	163	15	804	410.8
7/29/2014	168	15	783	410.8