



July 6, 2015

CERTIFIED MAIL # 7013 2250 0000 4174 6172

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
Mail:
P.O. Box 1210
Glenrock, WY
82637 USA

Tel: (307) 358-6541
Fax: (307) 358-4533
www.cameco.com

June 2015 Excursion Report Summary, Cameco Resources, Smith Ranch-Highland Uranium Project, Permit 633

Dear Mr. Rogaczewski:

Power Resources, Inc. d/b/a/ Cameco Resources (Cameco) is submitting the June monthly Excursion Report Summary for the Smith Ranch-Highland Uranium Project. The Cameco Excursion Report table is attached. Monitor Well DM-003A remained on excursion with no new excursion reported during the report period, June 2015.

Concentrations at Monitor Well DM-003A remained above the UCL's, but stable during the report period. However, since about the beginning of April 2015 the concentrations of UCL parameters have been gradually decreasing. The reductions in concentrations displayed from April through June may be related to extraction of impacted groundwater from the Mine Unit D patterns, specifically from DMP-008. Cameco continues to characterize the success of the treatment through steps provided to the LQD in a letter dated January 28, 2015. During the report period Cameco continued to work on Step 2 of the characterization, evaluating the movement of groundwater and the potential of aquifer interconnectivity between Mine Unit D, the pre-existing underground workings, as well as vertically and laterally adjacent mine units. This effort is an attempt to determine the source of impacted groundwater identified in samples collected from DM-003A. Cameco is developing a strategy in communication with the LQD and the Nuclear Regulatory Commission (NRC), which may aid in understanding groundwater flow pathways in the area of DM-003A and rectify the excursion classification of the monitoring well.

Cameco has developed a plan, design, and monitoring program for an aquifer pumping test to be conducted to evaluate the magnitude and extent of potential aquifer and underground working communication. This plan has been developed to serve in better understanding groundwater flow in the vicinity of DM-003A so that a remediation strategy could be better defined to bring DM-003A off excursion status. A secondary purpose of the aquifer testing plan is to provide supporting information to illustrate complex aquifer communication resulting from pre-existing

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underground workings. Due to the recent declines in the UCL parameter concentrations observed in DM-003A, Cameco has decided to postpone the aquifer pump test, for an undetermined amount of time, and continue to monitor DM-003A progress under the current remediation strategy, as it appears to be having a positive impact that Cameco does not want to disrupt. Weekly groundwater samples will continue to be collected from DM-003A for routine excursion monitoring and used to evaluate the groundwater quality.

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

Respectfully,

Handwritten signature of Victor G. Garoutte in cursive script, followed by the word "for".

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

KG/vg

Attachments: Cameco Resources Excursion Report Table
Monitor Well Reports for DM-003A

cc: File SR 4.3.3.1
Special Volume: Monthly Excursion Reports Summary Updates Permit 633
Mr. Doug Mandeville, NRC - CERTIFIED MAIL # 7013 2250 0000 4174 6165
Document Control Desk, NRC - CERTIFIED MAIL # 7013 2250 0000 4174 6158

ec: Cameco-Casper

xc: Cheyenne LQD Files

Cameco Resources Excursion Report
Permit Nos. 603 & 633
(June 2015)

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-003A (Replacement well for DM-003)	8/26/2014	N/A	ON	Chloride Alkalinity				



Cameco Resources
Smith Ranch - Highland Operation
Monitor Well Report

Well ID: DM-003A

NRC/WDEQ UCL	Chloride (mg/L)	Alkalinity (mg/L CaCO₃)	Conductivity (μMhos/cm)	U₃O₈ (mg/L)	Water Level (ft. from surface)	Comment	Excursion
18 (9)	188 (150)	962 (770)					
06/30/2015	40	301	1104	0	389.9		Yes
06/23/2015	40	306	1090	0	388.3		Yes
06/16/2015	39	306	1108	0	390.0		Yes
06/09/2015	41	302	1094	0	392.1		Yes
06/02/2015	41	293	1110	0	393.7		Yes
05/26/2015	42	306	1090	0	396.7		Yes
05/19/2015	34	311	1131	0	397.2		Yes
05/12/2015	46	314	1165	0	394.8		Yes
05/05/2015	47	315	1201	0	392.6		Yes
04/28/2015	49	331	1158	0	396.7		Yes
04/21/2015	48	331	1166	0	395.8		Yes
04/15/2015	48	337	1168	0	395.2		Yes
04/07/2015	49	322	1201	0	407.0		Yes
04/01/2015	49	311	1201	0	407.3		Yes
03/24/2015	49	323	1195	0	406.6		Yes
03/17/2015	49	324	1149		409.0		Yes
03/10/2015	46	326	1223	0	409.2		Yes
03/04/2015	42	324	1164	0	406.5		Yes
02/24/2015	50	326	1128	0	407.8		Yes
02/17/2015	50	327	1160	0	408.2		Yes
02/10/2015	48	324	1128	0	407.0		Yes
02/03/2015	50	329	1168	0	407.7		Yes
01/27/2015	50	324	1202	0	407.0		Yes

07/06/2015



Cameco Resources
Smith Ranch - Highland Operation
Monitor Well Report

Well ID: DM-003A

	Chloride (mg/L)	Alkalinity (mg/L CaCO ₃)	Conductivity (μMhos/cm)	U ₃ O ₈ (mg/L)	Water Level (ft. from surface)	Comment	Excursion
NRC/WDEQ UCL	18 (9)	188 (150)	962 (770)				
01/20/2015	49	317	1122	0	407.2		Yes
01/13/2015	49	318	1132	0	407.3		Yes
01/06/2015	52	344	1148	0	404.2		Yes
12/31/2014	51	325	1176	0	399.2		Yes
12/23/2014	48	343	1171	0	401.8		Yes
12/16/2014	50	321	1162	0	407.8		Yes
12/09/2014	50	319	1155	0	407.4		Yes
12/02/2014	51	326	1145	0	404.1		Yes
11/25/2014	51	331	1178	0	400.1		Yes
11/18/2014	51	330	1166	0	399.8		Yes
11/11/2014	51	327	1253	0	399.9		Yes
11/04/2014	52	315	1180	0	385.7		Yes
10/28/2014	55	336	1144	0	392.0		Yes
10/21/2014	55	330	1166	0	404.4		Yes
10/14/2014	53	321	1165	0	417.0		Yes
10/07/2014	52	315	1120	0	417.6		Yes
09/30/2014	46	306	1105	0	417.8		Yes
09/23/2014	48	321	1149	0	416.2		Yes
09/16/2014	49	322	1224	0	419.2		Yes
09/09/2014	49	313	1143	0	420.4		Yes
09/02/2014	50	321	1210	0	416.4		Yes
08/26/2014	50	314	1107	0	425.1		Yes
08/19/2014	47	308	1174	0	426.0		Yes

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Smith Ranch - Highland Operation
Monitor Well Report

Well ID: DM-003A

<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 Level (ft. from surface)</i>	<i>Comment</i>	<i>Excursion</i>
	18 (9)	188 (150)	962 (770)				
08/12/2014	45	309	1083	0	427.0		Yes
08/05/2014	45	321	1120	0	424.8		Yes
07/29/2014	46	314	1094	0	422.6		
07/22/2014	44	299	1117	0	423.3		
07/15/2014	41	307	1136	0	424.2		
07/08/2014	40	293	1092	0	424.4		
07/01/2014	40	295	1108	0	426.8		
06/24/2014	38	294	1112	0	424.5		
06/17/2014	34	266	1012	0	424.3		
06/03/2014	32	264	954	0	420.5		

07/06/2015