



CAMECO RESOURCES

Smith Ranch-Highland
Operation

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May 9, 2018

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40-8964

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

Notification of Excursion at Monitor Wells NBM-030, North Butte ISR Project, Cameco Resources, Permit 632

Dear Mr. Rogaczewski:

In accordance with Wyoming Department of Environmental Quality – Land Quality Division (WDEQ-LQD) Chapter 11 regulations Section 12, Permit 632 Operation Plan Section 3.3.7.5 Excursions, and Nuclear Regulatory Commission (NRC) License Condition No. 12.1, Power Resources, Inc. d/b/a/ Cameco Resources (Cameco) is providing written notification that Monitor Well NBM-030 in Mine Unit 1 of the North Butte ISR Project, went on excursion status May 3, 2018. Verbal notification was made by phone to Luke McMahan, LQD District 3, on May 7, 2018, as well as to Mr. Doug Mandeville of the NRC. Verbal notification was confirmed by email on the same day.

Analytical results received on May 2, 2017 for the routine sample taken on May 1, 2018 indicated an exceedance in two of the three parameters (chloride and alkalinity) at Monitor Well NBM-030. Cameco collected a confirmation sample on May 3, 2018. Results of this laboratory analyses were received May 7, 2018 and confirmed exceedances of the Upper Control Limit (UCL) parameters noted above. Shown below are results of samples taken.

Sample Date	Chloride (mg/L)	Alkalinity (mg/L CaCO ₃)	Conductivity (µMhos/cm)
NBM-030	UCL 19	UCL 88	UCL 2,299
May 1, 2018	24	118	1,703
May 3, 2018	27	130	1,729

Adjustments to pumping in Header Houses 7 and 8 was implemented in an effort to reduce concentrations at this well. Weekly samples will be collected to monitor the UCL constituents and uranium until the excursion is resolved. A monthly excursion status report will be provided to LQD until the excursion is controlled. Monitor Well NBM-030 will be identified on the Cameco Resources site map that is included in the Annual Report.

NMSS01

Pursuant to the WDEQ-LQD Chapter 11, Section 2 a duly authorized representative certification is attached. Please call Vickie Gitthens at (307) 358-6541 ext. 462 or email at Victoria_Gitthens@cameco.com if you have questions.

Respectfully,



Larry Reimann
Manager, Compliance & Licensing

LR/vg

Attachment: Duly Authorized Representative Certification

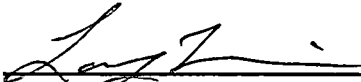
cc: File NB 4.3.3.1
Doug Mandeville, NRC Certified Mail # 7016 2710 0000 7133 0772
Document Control Desk, NRC Certified Mail # 7016 2710 0000 7133 0789

cc: Cameco Distribution

xc: LQD Files - Cheyenne

Duly Authorized Representative Certification

I certify under penalty of law that this document and all attachments were prepared under my direction and supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for known violations.



5/9/2018

Duly Authorized Representative:

Date:

Larry Reimann, Manager, Compliance & Licensing