



40-8964

**CAMECO RESOURCES**  
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Operation  
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November 20, 2017

CERTIFIED MAIL # 7015 1520 0001 9364 3364

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

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**Notification of Excursion at Monitor Wells NB2M-059 and NB2M-060, 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 NB2M-059 and Monitor Well NB2M-060 in Mine Unit 2 of the North Butte ISR Project, went on excursion status November 17, 2017. Verbal notification was made by phone to Luke McMahan, LQD District 3, on November 17, 2017, as well as to Mr. Doug Mandeville of the NRC. Verbal notification was confirmed by email on the same day.

Analytical results received on November 16, 2017 for the routine sample taken on November 14, 2017 indicated an exceedance in two of the three parameters (chloride and alkalinity) at Monitor Well NB2M-059 and an exceedance in all three parameters (chloride, alkalinity and conductivity) Monitor Well NB2M-060. Cameco collected a confirmation sample from these monitor wells on November 16, 2017. Results of this laboratory analyses were received the next day 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 <sub>3</sub> )	Conductivity (µMhos/cm)
<b>NB2M-059</b>	UCL 20	UCL 105	UCL 1,732
November 14, 2017	30	157	1,611
November 16, 2017	31	165	1,546
<b>NB2M-060</b>	UCL 20	UCL 105	UCL 1,732
November 14, 2017	62	452	2,310
November 16, 2017	61	425	2,308

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Excursion control pumping was implemented in an effort to reduce concentrations at both wells. 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 NB2M-059 and Monitor Well NB2M-060 will be identified on the Cameco Resources site map that is included in the Annual Report.

Pursuant to the WDEQ-LQD Chapter 11, Section 2 a duly authorized representative certification is attached. Please call Ken Garoutte at (307) 358-6541 ext. 476 or email at [Kenneth\\_Garoutte@cameco.com](mailto:Kenneth_Garoutte@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  
Document Control Desk, NRC  
Certified Mail # 7015 3010 0001 9364 3357  
Certified Mail # 7015 3010 0001 9364 3340

cc: Cameco Distribution

xc: LQD Files - Cheyenne