



40-8964

CAMECO RESOURCES
Smith Ranch-Highland
Operation
Mail:
P.O. Box 1210
Glenrock, WY
82637 USA

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

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

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 ₃)	Conductivity (µMhos/cm)
NB2M-059	UCL 20	UCL 105	UCL 1,732
November 14, 2017	30	157	1,611
November 16, 2017	31	165	1,546
NB2M-060	UCL 20	UCL 105	UCL 1,732
November 14, 2017	62	452	2,310
November 16, 2017	61	425	2,308

NM5501

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 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