

**CAMECO RESOURCES
CROW BUTTE OPERATION**



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August 22, 2022

ATTN: Document Control Desk, Director
Office of Nuclear Material Safety and Safeguards
U.S. Nuclear Regulatory Commission
Washington, DC 20555-0001

Subject: Source Materials License SUA-1534
Docket No. 40-8943
SM8-25 Monitor Well Excursion - Final Report Amendment

Dear Document Control Desk:

On May 20, 2020, during routine biweekly water sampling of Cameco Resources, Crow Butte Operation (CBO) shallow monitor well SM8-25, the multiple parameter upper control limits (MCL) for conductivity and alkalinity were exceeded. As required by License Condition 11.1.5 of Source Materials License SUA-1534, a second sample was collected within 24 hours and analyzed for the three excursion indicator parameters. The results of the second sample exceeded the MCL's for conductivity and alkalinity as well.

In accordance with License Condition 11.2.2 of Source Materials License SUA-1534, CBO increased the sampling frequency for SM8-25 to weekly for natural uranium. Weekly samples were obtained from May 21, 2020, to June 17, 2020. It was identified during the Crow Butte Operation's scheduled NRC inspection that the results of the samples were not provided to the NRC within 60 days of the excursion confirmation as required. CBO removed SM8-25 from excursion status and returned it to routine biweekly sampling. Attached are the results of the weekly natural uranium samples. This letter and attachments are to serve as an amendment to the SM8-25 Monitor Well Excursion - 60 Day Report dated July 13, 2020.

If you have any questions regarding this submittal, please feel free to contact me at (308) 665-2215, ext. 117.

Sincerely,
Cameco Resources
Crow Butte Operation


Casey Yada
SHEQ Coordinator

Enclosures: As Stated

cc: NRC – Deputy Director
CBO - File

cc: CBO



Formerly Inter-Mountain Laboratories

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Sample Analysis Report

CLIENT: Cameco Resources, Crow Butte Operation
PO Box 169
Crawford, NE 69339

Date Reported: 6/5/2020
Report ID: S2006063001

Project: Excursion Monitor Wells 5/21-5/30
COC: WEB

Work Order: S2006063
Date Received: 6/3/2020 12:00:00 PM
Sampler:

Lab ID: S2006063-002
Client Sample ID: SM8-25 5/21/20

Collection Date: 5/21/2020
Matrix: Water

Analyses	Result	RL	Qual	Units	Date Analyzed/Init	Method
Dissolved Metals						
Uranium	0.102	0.0018		mg/L	06/04/2020 01:41 MS	EPA 200.8

Lab ID: S2006063-003
Client Sample ID: SM8-25 5/27/20

Collection Date: 5/27/2020
Matrix: Water

Analyses	Result	RL	Qual	Units	Date Analyzed/Init	Method
Dissolved Metals						
Uranium	0.103	0.0018		mg/L	06/04/2020 01:47 MS	EPA 200.8

Lab ID: S2007039-001
Client Sample ID: SM8-25 6-2-20

Collection Date: 6/2/2020
Matrix: Water

Analyses	Result	RL	Qual	Units	Date Analyzed/Init	Method
Dissolved Metals						
Uranium	0.104	0.0003		mg/L	07/07/2020 00:39 MS	EPA 200.8

Lab ID: S2007039-002
Client Sample ID: SM8-25 6-10-20

Collection Date: 6/10/2020
Matrix: Water

Analyses	Result	RL	Qual	Units	Date Analyzed/Init	Method
Dissolved Metals						
Uranium	0.128	0.0003		mg/L	07/07/2020 00:57 MS	EPA 200.8

Lab ID: S2007039-003
Client Sample ID: SM8-25 6-17-20

Collection Date: 6/17/2020
Matrix: Water

Analyses	Result	RL	Qual	Units	Date Analyzed/Init	Method
Dissolved Metals						
Uranium	0.134	0.0003		mg/L	07/07/2020 01:21 MS	EPA 200.8