

**CAMECO RESOURCES
CROW BUTTE OPERATION**



**86 Crow Butte Road
P.O. Box 169
Crawford, Nebraska 69339-0169**

**(308) 665-2215
(308) 665-2341 – FAX**

November 22, 2011

**CERTIFIED MAIL
RETURN RECEIPT REQUESTED**

Mr. Michael Linder, Director
Nebraska Department of Environmental Quality
P.O. Box 98922
Lincoln, NE 68509-8922

Subject: Class III UIC Permit NE0122611
October 2011 Monthly Restoration Report

Dear Mr. Linder:

Please find enclosed the October 2011 Monthly Restoration Reports for Mine Units 2, 3, 4, 5 and 6. Mine Unit 2 was placed into recirculation on July 7, 2011 in order to homogenize the aquifer in preparation for stability monitoring. The reverse osmosis (RO) units continue to inject permeate and reductant into Mine Units 3 and 5. Mine Unit 4 remains in ion exchange. A hydrologic bleed was maintained in Mine Unit 6 for excursion control.

If you have any questions regarding this submittal, please feel free to contact me at (308) 665-2215, ext. 114.

Sincerely,
Cameco Resources
Crow Butte Operation



Larry Teahon
SHEQ Manager

Enclosures: As Stated

cc: Lindsey Phillips, NDEQ Chadron Office
Ron Burrows, NRC
CBO File
ec: CR - Cheyenne

CROW BUTTE MINE
 MONTHLY RESTORATION REPORT
 OCTOBER 2011
 MINE UNIT 2

1. RESTORATION ACTIVITY DURING MONTH:

	YES	NO	
a. Groundwater Transfer		X	(if yes, complete part 2).
b. Groundwater Sweep		X	(if yes, complete part 3)
c. Groundwater Treatment		X	
d. Wellfield Recirculation (Started on July 7, 2011).	X		P97, P120, I188P, and P209.
e. Other (explain):		X	

2. LIST WELLS USED IN GROUNDWATER TRANSFER DURING THE MONTH:

3. LIST WELLS USED IN GROUNDWATER SWEEP DURING THE MONTH:

4. LIST WELLS SAMPLED DURING MONTH AND ASSAY RESULTS:

P97, P120, I188P, and P209.

CROW BUTTE MINE
 MONTHLY RESTORATION REPORT
 OCTOBER 2011
 MINE UNIT 3

1. RESTORATION ACTIVITY DURING MONTH:

	YES	NO	
a. Groundwater Transfer		X	(if yes, complete part 2)
b. Groundwater Sweep		X	(if yes, complete part 3)
c. Groundwater Treatment	X		RO and Reductant CM1-11, P228, P246, I298P, I326P, I343P, RES1E, RES2E, and RES3E.
d. Wellfield Recirculation		X	
e. Other (explain):		X	

2. LIST WELLS USED IN GROUNDWATER TRANSFER DURING THE MONTH:

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3. LIST WELLS USED IN GROUNDWATER SWEEP DURING THE MONTH:

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4. LIST WELLS SAMPLED DURING MONTH AND ASSAY RESULTS:

CM1-11, P228, I298P, I326P, I343P, RES1E, RES2E, and RES3E.

CROW BUTTE MINE
 MONTHLY RESTORATION REPORT
 OCTOBER 2011
 MINE UNIT 4

1. RESTORATION ACTIVITY DURING MONTH:

	YES	NO	
a. Groundwater Transfer		X	(if yes, complete part 2)
b. Groundwater Sweep		X	(if yes, complete part 3)
c. Groundwater Treatment	X		IX P371, P393, P394, P429, P430, P434, P437, P438, P442, P443, P447, P450, P456, P461, I549P, I549P, I551P, and I613P.
d. Wellfield Recirculation		X	
e. Other (explain):			

2. LIST WELLS USED IN GROUNDWATER TRANSFER DURING THE MONTH:

3. LIST WELLS USED IN GROUNDWATER SWEEP DURING THE MONTH:

4. LIST WELLS SAMPLED DURING MONTH AND ASSAY RESULTS:

P394, P429, P430, P437, P438, P442, P443, P447, P450, P456, P461, I549P, I551P, and I613P.

CROW BUTTE MINE
 MONTHLY RESTORATION REPORT
 OCTOBER 2011
 MINE UNIT 5

1. RESTORATION ACTIVITY DURING MONTH:

	YES	NO	
a. Groundwater Transfer		X	(if yes, complete part 2)
b. Groundwater Sweep		X	(if yes, complete part 3)
c. Groundwater Treatment	X		RO and Reductant BL5-5, I676P, P707, P709, P773, P790, P800, P807, I854P, P1075, P1099, P1117, and P1232.
d. Wellfield Recirculation		X	
e. Other (explain):		X	

2. LIST WELLS USED IN GROUNDWATER TRANSFER DURING THE MONTH:

3. LIST WELLS USED IN GROUNDWATER SWEEP DURING THE MONTH:

4. LIST WELLS SAMPLED DURING MONTH AND ASSAY RESULTS:

BL5-5, I676P, P709, P773, P790, P800, I854P, P1075, and P1232.

CROW BUTTE MINE
 MONTHLY RESTORATION REPORT
 OCTOBER 2011
 MINE UNIT 6

1. RESTORATION ACTIVITY DURING MONTH:

	YES	NO	
a. Groundwater Transfer		X	(if yes, complete part 2)
b. Groundwater Sweep		X	(if yes, complete part 3)
c. Groundwater Treatment		X	
d. Wellfield Recirculation		X	
e. Other (explain):	X		Wellfield bleed for excursion control. P1567 and P1633.

2. LIST WELLS USED IN GROUNDWATER TRANSFER DURING THE MONTH:

3. LIST WELLS USED IN GROUNDWATER SWEEP DURING THE MONTH:

4. LIST WELLS SAMPLED DURING MONTH AND ASSAY RESULTS:

P1567

MESSENGER/COURIER RECEIPT

11-29-11

TO:

Mr. Ron Burrows

OFFICE

FSME

BUILDING

TWFM

ROOM NUMBER

8F5

FROM:

Cameco

OFFICE

ADM

BUILDING

OWFN

ROOM NUMBER

PI-010

DESCRIPTION

USPS Certified envelope
7010-0780-0000-1422-0154

MESSENGER/COURIER SIGNATURE

MESSENGER/COURIER

MEC

DATE RECEIVED

11-29

TIME RECEIVED

1 PM

MESSENGER/COURIER

DATE RECEIVED

TIME RECEIVED

RECIPIENT'S SIGNATURE

RECIPIENT

Debbie Miller

DATE RECEIVED

11-29-11

TIME RECEIVED

2:45

SENDER:

1. Complete "DATE OF REQUEST," "TO:," "FROM:," and unclassified "DESCRIPTION" blocks.
2. Obtain MESSENGER/COURIER signature, date received, and time received in first blocks provided.
3. Retain "SENDER'S SUSPENSE COPY."

MESSENGER/COURIER:

1. Deliver package to recipient or next messenger/courier enroute to addressee.
2. Obtain MESSENGER/COURIER or RECIPIENT signature, date received, and time received in the appropriate blocks provided.

RECIPIENT:

1. Provide signature, date received, and time received in the appropriate blocks.
2. Retain RECIPIENT'S COPY.
3. Return original to messenger/courier immediately, who will return it to the sender.