

**CAMECO RESOURCES  
CROW BUTTE OPERATION**



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

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

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December 14, 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  
November 2011 Monthly Restoration Report

Dear Mr. Linder:

Please find enclosed the November 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. This mine unit has been put back into reverse osmosis treatment so that permeate can be injected into patterns connected to Wellhouses 3 and 5. The reverse osmosis (RO) units continue to inject permeate and reductant into Mine Units 3 and 5. In Mine Unit 4, permeate is being injected into one wellhouse while the other two wellhouses remain 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  
 NOVEMBER 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		RO P97, I180P, I188P, and p209.
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:

P97, I188P, and P209.



CROW BUTTE MINE  
 MONTHLY RESTORATION REPORT  
 NOVEMBER 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, 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:

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

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  
 NOVEMBER 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		RO and Reductant P371, P429, P430, P437, P438, P442, P443, P447, and I613P. IX P393, P394, P434, P450, P456, P461, I548P, and I549P.
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:

P371, P394, P429, P430, P437, P438, P442, P443, P447, P450, P456, P461, I549P, I551P, and I613P.







CROW BUTTE MINE  
 MONTHLY RESTORATION REPORT  
 NOVEMBER 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, and I854P.
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, and I854P.



CROW BUTTE MINE  
 MONTHLY RESTORATION REPORT  
 NOVEMBER 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.

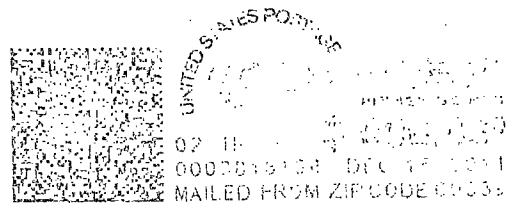
2. LIST WELLS USED IN GROUNDWATER TRANSFER DURING THE MONTH:

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

4. LIST WELLS SAMPLED DURING MONTH AND ASSAY RESULTS:

P1567





**RETURN RECEIPT  
REQUESTED**



**CAMECO RESOURCES**  
Crow Butte Operation  
86 Crow Butte Road  
P.O. Box 169  
Crawford, NE  
69339 USA

Mr. Ron Burrows, Project Manager  
Decommissioning and Uranium Recovery Licensing  
Directorate  
Division of Waste Management and Environmental  
Protection  
Office of Federal and State Materials and  
Environmental Management Programs  
Mailstop T8-F5  
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