

**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 4, 2008

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

Subject: Class III UIC Permit NE0122611
October 2008 Monthly Restoration Report

Dear Mr. Linder:

Please find enclosed the October 2008 Monthly Restoration Reports for Mine Units 2, 3, 4, and 5. The reverse osmosis (RO) restoration circuit continues to be shut down while changes are being made. Wellfield recirculation was started in Mine Unit 2 to create a hydrologic bleed in preparation for re-starting the RO circuit. Mine Unit 3 is in recirculation to maintain a hydrologic bleed while the RO circuit is shut down and Mine Units 4 and 5 are in groundwater sweep. Recirculation was started on four production wells in Mine Unit 4 to prepare the patterns for bioremediation. 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

A handwritten signature in cursive script that reads "Larry Teahon".

Larry Teahon
Mgr. Health, Safety and Environmental Affairs

Enclosures: As Stated

cc: Mr. Dave Carlson
NDEQ Chadron Office

Mr. Steve Collings
CBO, Denver, Colorado

Mr. Stephen Cohen
NRC, Washington, DC

CBO File

CROW BUTTE MINE
MONTHLY RESTORATION REPORT
OCTOBER 2008
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 (Used to maintain wellfield bleed)	X		P97, P118, P119, P120, P209, I169, I176, I185, I186, I187, I198, I199, and I205
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:

No samples were collected during the month.

CROW BUTTE MINE
 MONTHLY RESTORATION REPORT
 OCTOBER 2008
 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	
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:

No samples were collected during the month.

CROW BUTTE MINE
 MONTHLY RESTORATION REPORT
 OCTOBER 2008
 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	
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:

P376, P380, P386, P395, P396, P405, P421, P422, P423, P424, P464, I509, I523, I524, I525, I526, I527, I534, I545, I546, I555P, I595, I601, I602, I605, I606, I608, I609, and I610.

4. LIST WELLS SAMPLED DURING MONTH AND ASSAY RESULTS:

P376, P395, P405, P421, P422, P423, P424, P464, and I555P.

Mine Unit 4 Restoration Data

Well	Date	U ₃ O ₈	V	Total CO ₃	pH	Ca	Na	Cl	SO ₄	Cond
P376	10/01/08	25.84								
P395	10/01/08	7.32								
P395	10/08/08	6.35	<1							4470
P395	10/15/08	6.17								
P395	10/22/08	6.27	<1							4430
P395	10/29/08	6.41								
I555P	10/01/08	6.16								
I555P	10/08/08	5.47	<1							4170
I555P	10/15/08	5.64								
I555P	10/22/08	5.62	<1							4120
I555P	10/29/08	5.65								
P405	10/29/08	5.92								
P464	10/29/08	6.99								
P421	10/30/08	4.40	<1	890	7.41	71	864	443	756	4150
P422	10/30/08	3.80	<1	690	7.65	56	685	365	613	3360
P423	10/30/08	4.50	<1	968	7.29	90	906	507	845	4560
P424	10/30/08	10.60	<1	810	7.42	58	782	399	649	3750

CROW BUTTE MINE

MONTHLY RESTORATION REPORT

OCTOBER 2008

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	
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:

BL5-4, BL5-5, P690, P691, P767, P796, P837, P1002, P1138, P1139, P1144, P1149, P1156, P1181, P1193, P1207, I678, I726, I775, I776, I815, I834, I1113, I1124, I1126, I1145, I1147, I1150, I1158, I1164, I1168, I1173, I1220, I1226, I1146, I1202P, P814I, P816I, and I1895.

4. LIST WELLS SAMPLED DURING MONTH AND ASSAY RESULTS:

BL5-4, P691, P767, P796, P1002, P1138, P1144, P1149, P1156, P1181, P1193, and I1202P.

