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CAMECO RESOURCES Smith Ranch-Highland Operation Mail: P.O. Box 1210

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June 27, 2013

CERTIFIED MAIL # 7012 2210 0002 5617 0314

Mr. Robin Jones, District 1 Supervisor Land Quality Division Wyoming Department of Environmental Quality Herschler Building 122 West 25th Street Cheyenne, WY 82002

East Impoundment (Evaporation Pond) Leak Monthly Update, Cameco Resources, Smith Ranch-Highland Uranium Project, Permit to Mine No. 633

Dear Mr. Jones:

Power Resources, Inc. d/b/a Cameco Resources (Cameco) is herein providing a monthly update to the Wyoming Department of Environmental Quality, Land Quality Division (LQD) and the Nuclear Regulatory Commission (NRC) regarding a leak into secondary containment (sump) discovered on November 4, 2011 at the East Impoundment, referred to as Evaporation Pond in Permit 633, Volume 1, Section 5.5.5.

Installation work was started in February 2013 on replacement of the west impoundment liner. The liner was installed, anchored and seamed. Integrity testing, seam abutment welds and backfilling of the toe ditch was completed during the month of May 2013.

During the reporting period, the transfer of liquid from the east impoundment to the west pond through the dewatering containers was completed. The next step is the removal of the solids from the east impoundment. This is planned for the month of July. Once the solids are removed the new liner will be installed.

Samples for the east sump have continued to be taken on a weekly and monthly basis, when obtainable. Results are provided in the tables below.

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Sample	Chloride	Conductivity	
Date	(g/L)	(mS/cm)	
01/02/2013	26.8	60.7	
01/09/2013	27.5	60.5	
01/17/2013	14.7	35.3	
01/23/2013	14.9	30.7	
01/30/2013	16.5	33.4	
02/05/2013	7.5	10.9	
02/12/2013	1.9	1.9 9.0	
02/20/2013	1.7	5.0	
02/27/2013	1.9	8.0	
03/14/2013	5.2	15.4	
03/21/2013	1.7	7.0	
03/27/2013	1.7	6.7	
04/4/2013	1.7	6.0	
04/10/2013	5.3	5.7	
04/18/2013	1.6	3.1	
04/24/2013	2.0 6.8		
04/30/2013	1.5	6.6	
05/08/2013	2.8	5.2	
05/13/2013	2.5	5.7	
05/20/2013	1.4	5.5	
05/27/2013	1.4	6.4	
06/04/2013	2.7	8.5	
06/11/2013	2.1		
06/19/2013	2.7		

Weekly Sample Results

Sample Date	Chloride (g/L)	Conductivity (mS/cm)	Bicarbonate (mg/L)	Uranium (ppm)	Sulfate (mg/L)
01/02/2013	26.8	60.7	* 1405	927.8	-
01/08/2013	-	-	-	-	1720
01/09/2013	27.5	60.5	* 1491	585.6	-
01/17/2013	14.7	35.3	* 1258	723.1	-
01/23/2013	14.9	30.7	* 1050	623.9	-
01/30/2013	16.5	33.4	* 1164	633.6	-
02/05/2013	7.5	10.9	891	416.9	1910
02/12/2013	1.9	9.0	560	183.3	
02/20/2013	1.7	5.0	651	183.3	-
02/27/2013	1.9	8.0	600	143.7	-
03/12/2013	-	-	_	-	966
03/14/2013	5.2	15.4	726	312.0	-
03/21/2013	1.7	7.0	542	128.0	-
03/27/2013	1.7	6.7	594	144.6	
04/4/2013	1.7	6.0	842	112.0	÷
04/10/2013	5.3	5.7	504	128.4	588
04/18/2013	1.6	3.1	453	101.8	-
04/24/2013	2.0	6.8	513	116.7	-
04/30/2013	1.5	6.6	527	102.9	
05/08/2013	2.8	5.2	623	104.2	-
05/13/2013	2.5	5.7	503	103.3	524
05/20/2013	1.4	5.5	534	98.6	-
05/27/2013	1.4	6.4	519	116.4	-
06/04/2013	2.7	8.5	526	143.7	
06/11/2013	2.1	6.3	504	116.7	620
06/19/2013	2.7	9.0	485	196.2	

Monthly Sample Results

* Results were initially reported as inconclusive through lab analysis. After further lab analysis results were provided.

Routine monitoring will continue to be conducted and reported in the monthly update to LQD. Please contact me at (307) 358-6541 ext. 476 or <u>Kenneth_Garoutte@cameco.com</u> if you have questions.

Sincerely,

Ken Garoutte Safety, Health, Environment, Quality (SHEQ) Manager

KG/vg

East Impoundment Leak June Monthly Update June 27, 2013 Page 4 of 4

File SR 4.3.3.1 File SR 4.3.3.4

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cc:

Mr. Doug Mandeville - NRC Certified Mail # 7012 2210 0002 5617 0321 Document Control Desk, NRC Certified Mail # 7012 2210 0002 5617 0338 - This copy was returned Cameco-Cheyenne - This copy was returned cameco-Cheyenne - Cameco-Cheyenne - This copy was returned orderess and reserve 7/9/13 under. 7012 2210 0002 5617 0109 to 11555 Rockville Pikt Rockville MD 20852.