



CAMECO RESOURCES
Smith Ranch-Highland
Operation
Mail:
P.O. Box 1210
Glenrock, WY
82637 USA

Tel: (307) 358-6541
Fax: (307) 358-4533
www.cameco.com

June 30, 2010

Mr. Lowell Spackman, District 1 Supervisor
Wyoming Department of Environmental Quality
Land Quality Division
Herschler Building, 3 Fl-West
122 West 25th Street
Cheyenne, WY 82002

RE: Follow-up to Second Round Monitor Well Sampling May 2010, Cameco Resources, Smith Ranch Highland Uranium Project, Permit Nos. 603 and 633

Dear Mr. Spackman:

On June 1, 2010 Power Resources, Inc d/b/a Cameco Resources (CR) notified WDEQ/LQD and the NRC, in accordance with regulation, that the second semi-monthly sampling for 39 monitor wells could not be accomplished safely due to precipitation events and supersaturated ground conditions. The list of monitor wells submitted on June 1, 2010 is attached as is a copy of the Monitor Well Report for each monitor well.

The Monitor Well Reports consist of at least two previous sample analysis and the first round sample analysis for June, 2010. A few monitor wells are sampled for water levels; again the two previous readings and June's first round water level reading are provided on the Monitor Well Report. A review of the analysis and reports indicates no significant or appreciable changes in constituents and water levels, indicative of stable conditions.

Please call me at (307) 358-6541 ext. 474 if you have questions.

Sincerely,

Angelo Kallas
Safety, Health, Environment and Quality (SHEQ) Manager

AK/dk

Attachments: 1) Monitor Well List
2) Individual Monitor Well Reports

cc: T. Cannon J. Brister File: HUP 4.3.3.1 File: SR 4.3.3.1
D. Mandeville, NRC (2 copies)

WELL NAME	MINE UNIT
DM22	D
DM23	D
DMU2	D
DMU4	D
FM10	F
FM11	F
FM19	F
FM20	F
FM21	F
FM22	F
FM23	F
FM24	F
FMO18	F
FMO8	F
FMU18	F
FMU8	F
M416	4
M417	4
M418A	4
M419	4
M420	4
M421	4
M433	4
M434	4
M928	9
M929	9
M930	9
M931	9
MD207	2
MD209	2
MS207	2
MS209	2
MO1526	15
MU1526	15
CMP2	C
CMP22	C
CMP23	C
CMP28	C
CMP31	C

Cameco Resources
Monitor Well Report

Well ID: DM22

<i>NRC/WDEQ UCL</i>	<i>Chloride (mg/L)</i>	<i>Alkalinity (mg/L CaCO₃)</i>	<i>Conductivity (µMhos/cm)</i>	<i>U₃O₈ (mg/L)</i>	<i>Water Elevation</i>	<i>Comments</i>
	23	191	1124			
6/8/2010	3	161	751		5152.97	
5/11/2010	3	165	777		5151.67	
4/26/2010	4	167	727		5148.47	
4/12/2010	3	164	707		5148.67	

Cameco Resources
Monitor Well Report

Well ID: DM23

<i>NRC/WDEQ UCL</i>	<i>Chloride (mg/L)</i>	<i>Alkalinity (mg/L CaCO₃)</i>	<i>Conductivity (µMhos/cm)</i>	<i>U₃O₈ (mg/L)</i>	<i>Water Elevation</i>	<i>Comments</i>
	23	191	1124			
6/8/2010	3	162	729		5157.49	
5/17/2010	3	167	762		5156.59	
4/26/2010	3	165	735		5155.09	
4/12/2010	3	163	722		5153.69	

Cameco Resources
Monitor Well Report

Well ID: DMU2

<i>NRC/WDEQ UCL</i>	<i>Chloride (mg/L)</i>	<i>Alkalinity (mg/L CaCO₃)</i>	<i>Conductivity (μMhos/cm)</i>	<i>U₃O₈ (mg/L)</i>	<i>Water Elevation</i>	<i>Comments</i>
	20	89	594			
6/2/2010	5	73	379		5078.5	
5/5/2010	5	76	409		5076.4	
4/21/2010	5	76	404		5098.6	
4/8/2010	5	74	414	0	5098	

Cameco Resources
Monitor Well Report

Well ID: DMU4

<i>NRC/WDEQ UCL</i>	<i>Chloride (mg/L)</i>	<i>Alkalinity (mg/L CaCO₃)</i>	<i>Conductivity (μMhos/cm)</i>	<i>U₃O₈ (mg/L)</i>	<i>Water Elevation</i>	<i>Comments</i>
	20	89	594			
6/4/2010	5	74	392		5100.26	
5/5/2010	5	78	416		5099.26	
4/21/2010	5	78	408		5098.26	
4/8/2010	5	75	385	0	5098.26	

Cameco Resources
Monitor Well Report

Well ID: FM10

<i>NRC/WDEQ UCL</i>	<i>Chloride (mg/L)</i>	<i>Alkalinity (mg/L CaCO₃)</i>	<i>Conductivity (µMhos/cm)</i>	<i>U₃O₈ (mg/L)</i>	<i>Water Elevation</i>	<i>Comments</i>
	18	180	972			
6/2/2010	3	165	612		5170.4	
5/4/2010	3	167	605		5168.6	
4/20/2010	4	172	615		5168.8	
4/5/2010	4	167	624		5168	

Cameco Resources
Monitor Well Report

Well ID: FM11

<i>NRC/WDEQ UCL</i>	<i>Chloride (mg/L)</i>	<i>Alkalinity (mg/L CaCO₃)</i>	<i>Conductivity (μMhos/cm)</i>	<i>U₃O₈ (mg/L)</i>	<i>Water Elevation</i>	<i>Comments</i>
	18	180	972			
6/2/2010	4	159	566		5166.6	
5/4/2010	3	166	593		5169.4	
4/20/2010	4	168	638		5169.8	
4/5/2010	4	167	564		5169.6	

Cameco Resources
Monitor Well Report

Well ID: FM19

<i>NRC/WDEQ UCL</i>	<i>Chloride (mg/L)</i>	<i>Alkalinity (mg/L CaCO₃)</i>	<i>Conductivity (μMhos/cm)</i>	<i>U₃O₈ (mg/L)</i>	<i>Water Elevation</i>	<i>Comments</i>
	18	193	1084			
6/15/2010	4	162	786		5177.9	
6/2/2010	7	158	747		5177.4	
5/3/2010	6	163	739		5178	
4/20/2010	7	169	733		5176.9	

Cameco Resources
Monitor Well Report

Well ID: FM20

<i>NRC/WDEQ</i> <i>UCL</i>	<i>Chloride</i> <i>(mg/L)</i>	<i>Alkalinity</i> <i>(mg/L CaCO₃)</i>	<i>Conductivity</i> <i>(µMhos/cm)</i>	<i>U₃O₈</i> <i>(mg/L)</i>	<i>Water</i> <i>Elevation</i>	<i>Comments</i>
	18	189	1121			
6/15/2010	4	171	561		5177.4	
6/2/2010	3	164	529		5177.4	
5/3/2010	4	174	532		5176.8	
4/20/2010	4	176	543		5176.1	

Cameco Resources
Monitor Well Report

Well ID: FM21

<i>NRC/WDEQ UCL</i>	<i>Chloride (mg/L)</i>	<i>Alkalinity (mg/L CaCO₃)</i>	<i>Conductivity (μMhos/cm)</i>	<i>U₃O₈ (mg/L)</i>	<i>Water Elevation</i>	<i>Comments</i>
	18	189	1121			
6/15/2010	4	150	510		5178.8	
6/2/2010	4	153	487		5178.8	
5/3/2010	3	166	480		5178.5	
4/19/2010	4	163	514		5178.2	

Cameco Resources
Monitor Well Report

Well ID: FM21

<i>NRC/WDEQ UCL</i>	<i>Chloride (mg/L)</i>	<i>Alkalinity (mg/L CaCO₃)</i>	<i>Conductivity (μMhos/cm)</i>	<i>U₃O₈ (mg/L)</i>	<i>Water Elevation</i>	<i>Comments</i>
	18	189	1121			
6/15/2010	4	150	510		5178.8	
6/2/2010	4	153	487		5178.8	
5/3/2010	3	166	480		5178.5	
4/19/2010	4	163	514		5178.2	

Cameco Resources
Monitor Well Report

Well ID: FM22

<i>NRC/WDEQ UCL</i>	<i>Chloride (mg/L)</i>	<i>Alkalinity (mg/L CaCO₃)</i>	<i>Conductivity (μMhos/cm)</i>	<i>U₃O₈ (mg/L)</i>	<i>Water Elevation</i>	<i>Comments</i>
	18	189	1121			
6/15/2010	3	144	549		5180.6	
6/2/2010	3	151	539		5180.5	
5/3/2010	3	152	537		5180.5	
4/20/2010	4	149	543		5179.8	

Cameco Resources
Monitor Well Report

Well ID: FM24

<i>NRC/WDEQ UCL</i>	<i>Chloride (mg/L)</i>	<i>Alkalinity (mg/L CaCO₃)</i>	<i>Conductivity (μMhos/cm)</i>	<i>U₃O₈ (mg/L)</i>	<i>Water Elevation</i>	<i>Comments</i>
	18	189	1121			
6/15/2010	3	164	687		5182.2	
6/2/2010	3	160	665		5182	
5/3/2010	3	160	657		5182.2	
4/20/2010	4	164	652		5181.8	

Cameco Resources
Monitor Well Report

Well ID: FMO18

<i>NRC/WDEQ UCL</i>	<i>Chloride (mg/L)</i>	<i>Alkalinity (mg/L CaCO₃)</i>	<i>Conductivity (μMhos/cm)</i>	<i>U₃O₈ (mg/L)</i>	<i>Water Elevation</i>	<i>Comments</i>
6/4/2010					5234.8	
5/5/2010					5234.2	
4/22/2010					5234.2	
4/7/2010					5234.5	

Cameco Resources
Monitor Well Report

Well ID: FMO8

<i>NRC/WDEQ UCL</i>	<i>Chloride (mg/L)</i>	<i>Alkalinity (mg/L CaCO₃)</i>	<i>Conductivity (µMhos/cm)</i>	<i>U₃O₈ (mg/L)</i>	<i>Water Elevation</i>	<i>Comments</i>
	22	134	672			
6/4/2010	6	100	398		5244.5	
5/5/2010	6	100	429		5244	
4/22/2010	6	99	432		5243.8	
4/7/2010	7	101	422		5244.6	

Cameco Resources
Monitor Well Report

Well ID: FMU18

<i>NRC/WDEQ UCL</i>	<i>Chloride (mg/L)</i>	<i>Alkalinity (mg/L CaCO₃)</i>	<i>Conductivity (μMhos/cm)</i>	<i>U₃O₈ (mg/L)</i>	<i>Water Elevation</i>	<i>Comments</i>
	20	252	633			
6/4/2010	5	87	399		5111.9	
5/5/2010	5	90	405		5111.3	
4/22/2010	5	86	450		5111.3	
4/7/2010	5	91	442		5111	

Cameco Resources
Monitor Well Report

Well ID: FMU8

<i>NRC/WDEQ UCL</i>	<i>Chloride (mg/L)</i>	<i>Alkalinity (mg/L CaCO₃)</i>	<i>Conductivity (μMhos/cm)</i>	<i>U₃O₈ (mg/L)</i>	<i>Water Elevation</i>	<i>Comments</i>
6/4/2010					5140.2	
5/5/2010					5139.5	
4/22/2010					5139.5	
4/7/2010					5140	

Cameco Resources
Monitor Well Report

Well ID: M416

<i>NRC/WDEQ UCL</i>	<i>Chloride (mg/L)</i>	<i>Alkalinity (mg/L CaCO₃)</i>	<i>Conductivity (μMhos/cm)</i>	<i>U₃O₈ (mg/L)</i>	<i>Water Elevation</i>	<i>Comments</i>
	19	177	708			
6/3/2010	3	155	563		5229.2	
5/5/2010	4	155	551		5225.4	
4/19/2010	4	160	530		5221.4	
4/6/2010	4	160	554		5222.1	

Cameco Resources
Monitor Well Report

Well ID: M417

<i>NRC/WDEQ UCL</i>	<i>Chloride (mg/L)</i>	<i>Alkalinity (mg/L CaCO₃)</i>	<i>Conductivity (μMhos/cm)</i>	<i>U₃O₈ (mg/L)</i>	<i>Water Elevation</i>	<i>Comments</i>
	19	177	708			
6/3/2010	3	155	572		5230.9	
5/5/2010	3	155	557		5227	
4/19/2010	4	160	538		5223.5	
4/6/2010	4	152	560		5224	

Cameco Resources
Monitor Well Report

Well ID: M418A

<i>NRC/WDEQ UCL</i>	<i>Chloride (mg/L)</i>	<i>Alkalinity (mg/L CaCO₃)</i>	<i>Conductivity (μMhos/cm)</i>	<i>U₃O₈ (mg/L)</i>	<i>Water Elevation</i>	<i>Comments</i>
	19	177	708			
6/3/2010	3	156	576		5231.9	
5/5/2010	3	156	585		5228.4	
4/19/2010	4	158	552		5225.3	
4/6/2010	4	158	543		5225.9	

Cameco Resources
Monitor Well Report

Well ID: M419

<i>NRC/WDEQ</i> <i>UCL</i>	<i>Chloride</i> <i>(mg/L)</i>	<i>Alkalinity</i> <i>(mg/L CaCO₃)</i>	<i>Conductivity</i> <i>(μMhos/cm)</i>	<i>U₃O₈</i> <i>(mg/L)</i>	<i>Water</i> <i>Elevation</i>	<i>Comments</i>
	19	177	708			
6/3/2010	3	160	592		5231.5	
5/5/2010	3	159	597		5228.1	
4/19/2010	4	161	567		5226.3	
4/6/2010	4	155	574		5226.1	

Cameco Resources
Monitor Well Report

Well ID: M420

<i>NRC/WDEQ UCL</i>	<i>Chloride (mg/L)</i>	<i>Alkalinity (mg/L CaCO₃)</i>	<i>Conductivity (µMhos/cm)</i>	<i>U₃O₈ (mg/L)</i>	<i>Water Elevation</i>	<i>Comments</i>
	19	177	708			
6/3/2010	3	159	595		5229.9	
5/5/2010	3	157	598		5226.3	
4/19/2010	4	162	557		5223.9	
4/6/2010	4	155	577		5224.1	

Cameco Resources
Monitor Well Report

Well ID: M421

<i>NRC/WDEQ</i>	<i>Chloride</i> <i>(mg/L)</i>	<i>Alkalinity</i> <i>(mg/L CaCO₃)</i>	<i>Conductivity</i> <i>(μMhos/cm)</i>	<i>U₃O₈</i> <i>(mg/L)</i>	<i>Water</i> <i>Elevation</i>	<i>Comments</i>
<i>UCL</i>	19	177	708			
6/3/2010	3	158	590		5230.2	
5/5/2010	3	160	575		5226.2	
4/19/2010	4	165	554		5223	
4/6/2010	4	163	568		5223.4	

Cameco Resources
Monitor Well Report

Well ID: M433

<i>NRC/WDEQ UCL</i>	<i>Chloride (mg/L)</i>	<i>Alkalinity (mg/L CaCO₃)</i>	<i>Conductivity (μMhos/cm)</i>	<i>U₃O₈ (mg/L)</i>	<i>Water Elevation</i>	<i>Comments</i>
	19	177	708			
6/3/2010	4	159	542		5224.5	
5/5/2010	4	159	532		5218.5	
4/19/2010	4	165	526		5207.9	
4/6/2010	5	161	543		5209.3	

Cameco Resources
Monitor Well Report

Well ID: M434

<i>NRC/WDEQ</i> <i>UCL</i>	<i>Chloride</i> <i>(mg/L)</i>	<i>Alkalinity</i> <i>(mg/L CaCO₃)</i>	<i>Conductivity</i> <i>(μMhos/cm)</i>	<i>U₃O₈</i> <i>(mg/L)</i>	<i>Water</i> <i>Elevation</i>	<i>Comments</i>
	19	177	708			
6/3/2010	4	159	536		5224.4	
5/5/2010	4	159	526		5218.2	
4/19/2010	5	164	495		5208.3	
4/6/2010	5	163	513		5209.8	

Cameco Resources
Monitor Well Report

Well ID: M928

<i>NRC/WDEQ UCL</i>	<i>Chloride (mg/L)</i>	<i>Alkalinity (mg/L CaCO₃)</i>	<i>Conductivity (μMhos/cm)</i>	<i>U₃O₈ (mg/L)</i>	<i>Water Elevation</i>	<i>Comments</i>
	18	335	1597			
6/4/2010	7	253	755		5247.4	
5/5/2010	8	256	765		5244.5	
4/22/2010	8	247	724		5247.4	
4/9/2010	8	251	711	0	5245.6	

Cameco Resources
Monitor Well Report

Well ID: M929

<i>NRC/WDEQ</i> <i>UCL</i>	<i>Chloride</i> <i>(mg/L)</i>	<i>Alkalinity</i> <i>(mg/L CaCO₃)</i>	<i>Conductivity</i> <i>(µMhos/cm)</i>	<i>U₃O₈</i> <i>(mg/L)</i>	<i>Water</i> <i>Elevation</i>	<i>Comments</i>
	18	335	1597			
6/4/2010	8	252	777		5248.4	
5/10/2010	9	255	769		5247.4	
4/22/2010	8	252	739		5248.3	
4/9/2010	9	254	734	0	5247.5	

Cameco Resources
Monitor Well Report

Well ID: M930

<i>NRC/WDEQ UCL</i>	<i>Chloride (mg/L)</i>	<i>Alkalinity (mg/L CaCO₃)</i>	<i>Conductivity (µMhos/cm)</i>	<i>U₃O₈ (mg/L)</i>	<i>Water Elevation</i>	<i>Comments</i>
	18	335	1597			
6/4/2010	8	216	688		5247.9	
5/10/2010	8	220	646		5247	
4/26/2010	8	218	658		5245.3	
4/12/2010	8	216	657		5246.1	

Cameco Resources
Monitor Well Report

Well ID: M931

<i>NRC/WDEQ UCL</i>	<i>Chloride (mg/L)</i>	<i>Alkalinity (mg/L CaCO₃)</i>	<i>Conductivity (μMhos/cm)</i>	<i>U₃O₈ (mg/L)</i>	<i>Water Elevation</i>	<i>Comments</i>
	18	335	1597			
6/4/2010	6	213	575		5247.6	
5/10/2010	6	215	564		5247	
4/26/2010	6	216	558		5244.6	
4/12/2010	6	213	548		5245.4	

Cameco Resources
Monitor Well Report

Well ID: MD207

<i>NRC/WDEQ UCL</i>	<i>Chloride (mg/L)</i>	<i>Alkalinity (mg/L CaCO₃)</i>	<i>Conductivity (µMhos/cm)</i>	<i>U₃O₈ (mg/L)</i>	<i>Water Elevation</i>	<i>Comments</i>
	18	215	581			
6/11/2010	3	157	457		5211.18	
5/28/2010					5211.38	
5/13/2010	4	157	441		5210.98	
4/30/2010	4	159	421		5210.98	

Cameco Resources
Monitor Well Report

Well ID: MD209

<i>NRC/WDEQ</i> <i>UCL</i>	<i>Chloride</i> <i>(mg/L)</i>	<i>Alkalinity</i> <i>(mg/L CaCO₃)</i>	<i>Conductivity</i> <i>(µMhos/cm)</i>	<i>U₃O₈</i> <i>(mg/L)</i>	<i>Water</i> <i>Elevation</i>	<i>Comments</i>
	18	215	581			
6/11/2010	3	156	484		5205.58	
5/28/2010					5206.08	
5/17/2010	3	159	455		5206.08	
4/30/2010	4	163	453		5206.68	

Cameco Resources
Monitor Well Report

Well ID: MS207

<i>NRC/WDEQ</i> <i>UCL</i>	<i>Chloride</i> <i>(mg/L)</i>	<i>Alkalinity</i> <i>(mg/L CaCO₃)</i>	<i>Conductivity</i> <i>(μMhos/cm)</i>	<i>U₃O₈</i> <i>(mg/L)</i>	<i>Water</i> <i>Elevation</i>	<i>Comments</i>
	20	280	1062			
6/11/2010	7	215	764		5279.38	
5/28/2010					5279.28	
5/13/2010	7	211	744		5278.88	
4/30/2010	7	215	730		5278.38	

Cameco Resources
Monitor Well Report

Well ID: MS209

<i>NRC/WDEQ</i> <i>UCL</i>	<i>Chloride</i> <i>(mg/L)</i>	<i>Alkalinity</i> <i>(mg/L CaCO₃)</i>	<i>Conductivity</i> <i>(μMhos/cm)</i>	<i>U₃O₈</i> <i>(mg/L)</i>	<i>Water</i> <i>Elevation</i>	<i>Comments</i>
	20	280	1062			
6/11/2010	5	199	646		5279.58	
5/28/2010					5279.88	
5/17/2010	5	205	608		5279.38	
4/30/2010	5	204	611		5278.78	

Cameco Resources
Monitor Well Report

Well ID: MO1526

<i>NRC/WDEQ UCL</i>	<i>Chloride (mg/L)</i>	<i>Alkalinity (mg/L CaCO₃)</i>	<i>Conductivity (μMhos/cm)</i>	<i>U₃O₈ (mg/L)</i>	<i>Water Elevation</i>	<i>Comments</i>
	19	261	901			
6/18/2010	6	203	675		5291.1	
5/11/2010	6	202	678		5291.3	
4/27/2010	6	200	633		5291.4	
4/12/2010	6	201	617		5291.2	

Cameco Resources
Monitor Well Report

Well ID: MU1526

<i>NRC/WDEQ UCL</i>	<i>Chloride (mg/L)</i>	<i>Alkalinity (mg/L CaCO₃)</i>	<i>Conductivity (µMhos/cm)</i>	<i>U₃O₈ (mg/L)</i>	<i>Water Elevation</i>	<i>Comments</i>
	18	235	689			
6/9/2010	4	173	526		5266.4	
5/11/2010	4	176	552		5266.5	
4/22/2010	4	171	493		5267.3	
4/12/2010	5	179	501		5267	

Cameco Resources
Monitor Well Report

Well ID: CMP2

<i>NRC/WDEQ UCL</i>	<i>Chloride (mg/L)</i>	<i>Alkalinity (mg/L CaCO₃)</i>	<i>Conductivity (μMhos/cm)</i>	<i>U₃O₈ (mg/L)</i>	<i>Water Elevation</i>	<i>Comments</i>
6/15/2010					5115.44	
6/2/2010					5115.24	
5/3/2010					5115.04	
4/20/2010					5115.84	

Cameco Resources
Monitor Well Report

Well ID: CMP22

<i>NRC/WDEQ UCL</i>	<i>Chloride (mg/L)</i>	<i>Alkalinity (mg/L CaCO₃)</i>	<i>Conductivity (µMhos/cm)</i>	<i>U₃O₈ (mg/L)</i>	<i>Water Elevation</i>	<i>Comments</i>
6/15/2010					5123.6	
6/2/2010					5124.8	
5/3/2010					5123.5	
4/20/2010					5123.5	

Cameco Resources
Monitor Well Report

Well ID: CMP23

<i>NRC/WDEQ UCL</i>	<i>Chloride (mg/L)</i>	<i>Alkalinity (mg/L CaCO₃)</i>	<i>Conductivity (µMhos/cm)</i>	<i>U₃O₈ (mg/L)</i>	<i>Water Elevation</i>	<i>Comments</i>
6/15/2010					5131.3	
6/2/2010					5129	
5/3/2010					5128.6	
4/20/2010					5128.7	

Cameco Resources
Monitor Well Report

Well ID: CMP28

<i>NRC/WDEQ UCL</i>	<i>Chloride (mg/L)</i>	<i>Alkalinity (mg/L CaCO₃)</i>	<i>Conductivity (μMhos/cm)</i>	<i>U₃O₈ (mg/L)</i>	<i>Water Elevation</i>	<i>Comments</i>
6/15/2010					5125.9	
6/2/2010					5124.6	
5/3/2010					5124.3	
4/20/2010					5124.6	

Cameco Resources
Monitor Well Report

Well ID: CMP31

<i>NRC/WDEQ UCL</i>	<i>Chloride (mg/L)</i>	<i>Alkalinity (mg/L CaCO₃)</i>	<i>Conductivity (μMhos/cm)</i>	<i>U₃O₈ (mg/L)</i>	<i>Water Elevation</i>	<i>Comments</i>
6/15/2010					5133.2	
6/2/2010					5128.9	
5/3/2010					5129	
4/20/2010					5128.9	