



September 27, 2012

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

**CAMECO RESOURCES**  
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CERTIFIED MAIL # 7011 0470 0000 7716 3653 RETURN RECEIPT REQUESTED

RE: Mine Unit 9, Header House 3 Soil Sample Results, Permit 633, Cameco Resources

Dear Mr. Spackman:

In a letter dated December 8, 2011, Power Resources, Inc. d/b/a Cameco Resources (Cameco) provided written notification to the Wyoming Department of Environmental Quality (WDEQ) - Land Quality Division (LQD) regarding a wellfield release from Header House 3 in Mine Unit 9 that occurred on December 6, 2011.

SOIL SAMPLING RESULTS

Three (3) soil samples were collected on December 15, 2011, along the release area together with one (1) background sample adjacent to the spill area. The samples were collected (0-2, 2-6 and 0-6 inches) and sent to an external lab for analysis. The Analytical Summary Report from the lab is attached. The analytes tested for include arsenic, selenium, uranium, and radium-226.

The sample results for uranium are reported in mg/Kg and require conversion to pCi/g, while the results for radium-226 are reported in pCi/g. After conversion, uranium and radium results are summed. Background is then subtracted from the sum and the result is compared to the 5 pCi/g criteria using the NRC's unity rule. Below describes the formula used for converting uranium reported in mg/Kg to pCi/g.

FSMEZD

Conversion formula:

$$\text{mg/Kg} \cdot \text{Kg/1E6mg} \cdot 6.77\text{E-7Ci/g} \cdot \text{pCi/1E-12 Ci} = \text{pCi/g}$$

The specific activity of uranium is 6.77E-7 Ci/g as per 10 CFR PART 20, appendix B.

The following table summarizes the soil results and the unity calculation for each sample. As can be seen, sample #2 was above the 5 pCi/g unity rule. Samples resulting in a negative Unity-Background are due to the background unity being higher than the sample unity.

<b>MU9 HH3 Spill 1st Soil Sample</b>					
<b>Sample ID</b>	<b>Uranium mg/kg</b>	<b>Radium pCi/g</b>	<b>Uranium pCi/g</b>	<b>Unity pCi/g</b>	<b>Unity-Background pCi/g</b>
#1 (0-2)	3.2	3.0	2.17	5.17	1.06
#2 (0-2)	3.4	10.2	2.30	12.50	8.40
#3 (0-2)	1.9	0.7	1.29	1.99	-2.12
Background (0-2)	3.7	1.6	2.50	4.10	0.00
#1 (2-6)	2.6	0.9	1.76	2.66	0.44
#2 (2-6)	3.4	3.2	2.30	5.50	3.28
#3 (2-6)	2.2	0.7	1.49	2.19	-0.03
Background (2-6)	2.1	0.8	1.42	2.22	0.00
#1 (0-6)	2.8	1.9	1.90	3.80	0.56
#2 (0-6)	3.2	6.6	2.17	8.77	5.54
#3 (0-6)	2.2	0.7	1.49	2.19	-1.04
Background (0-6)	3.0	1.2	2.03	3.23	0.00

On March 9, 2012 fourteen (14) soil samples were collected in a grid pattern around the one (1) soil sample with a unity higher than 5 pCi/g. Each sample was collected from 0-6 inches. A map of the spill site was attached to the written notification dated December 8, 2011. The same map is attached to this submittal and now includes the points at which the first soil samples, second soil samples and background samples were taken.

The second soil sample points were chosen to establish a grid containing 100 meter squared areas. This allows the four (4) samples points for each 100 meter squared area to be averaged, enabling the known contaminated area to be further condensed.

The following table summarizes the second soil results, the unity calculation for each sample and the grid averages for the samples.

<b>MU9 HH3 Spill 2nd Soil Sample</b>					
<b>Sample ID</b>	<b>Uranium mg/kg</b>	<b>Radium pCi/g</b>	<b>Uranium pCi/g</b>	<b>Unity pCi/g</b>	<b>Unity-Background pCi/g</b>
#1 (0-6)	3.8	0.7	2.57	3.27	0.04
#2 (0-6)	1.8	0.4	1.22	1.62	-1.61
#3 (0-6)	2.2	0.6	1.49	2.09	-1.14
#4 (0-6)	2.6	0.4	1.76	2.16	-1.07
#5 (0-6)	2.2	0.5	1.49	1.99	-1.24
#6 (0-6)	4.1	0.5	2.78	3.28	0.04
#7 (0-6)	2.1	0.5	1.42	1.92	-1.31
#8 (0-6)	3.2	0.8	2.17	2.97	-0.26
#9 (0-6)	3.2	0.7	2.17	2.87	-0.36
#10 (0-6)	6.0	0.9	4.06	4.96	1.73
#11 (0-6)	7.0	1.1	4.74	5.84	2.61
#12 (0-6)	7.3	0.6	4.94	5.54	2.31
#13 (0-6)	2.9	0.4	1.96	2.36	-0.87
#14 (0-6)	2.8	0.4	1.90	2.30	-0.94
Background (0-6)	3.0	1.2	2.03	3.23	0.00

<b>Grid Averages</b>	
<b>Sample ID</b>	<b>Average</b>
5,6,4,3	-0.85
6,7,3,2	-1.00
4,3,8,2*	-1.02
2,3,2*,1	0.63
8,2*,9,10	1.66
2*,1,10,11	2.48
9,10,14,13	-0.11
10,11,13,12	1.45
* Result from 1st Soil Sample	

Based on the NRC's cleanup standards in 10 CFR 40, Appendix A, Criterion 6(6) (i.e. radium benchmark dose approach), sampling results indicate that no further action is required at this time. The release has been updated into the site base map and was included in the 2011-2012 Annual Report.

Please contact me at (307) 358-6541, ext. 476 or at [Kenneth\\_Garoutte@cameco.com](mailto:Kenneth_Garoutte@cameco.com) if you have any questions.

Respectfully,



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

KG/vg

Attachments:      Response to LQD Mine Unit 9, Header House 3, Request for Soil Samples  
                         Analytical Report – Mine Unit 9, Header House 3, 1<sup>st</sup> and 2<sup>nd</sup> sampling rounds  
                         Map - Mine Unit 9, Header House 3 Spill

cc:            File HUP 4.3.3.1  
                 Special Volume: Wellfield Release Reports  
                 Mr. Doug Mandeville, NRC - CERTIFIED MAIL # 7011 0470 0000 7716 3660  
                 Document Control Desk, NRC - CERTIFIED MAIL # 7011 0470 0000 7716 3677

cc:            Cameco Resources-Cheyenne

RESPONSE TO MINE UNIT 9, HEADERHOUSE 9-3  
WELLFIELD RELEASE, REQUEST FOR SOIL SAMPLES  
CAMECO RESOURCES  
PERMIT 633

INTRODUCTION

On December 6, 2011 Cameco Resources submitted verbal notification to the Land Quality Division (LQD) that a release had occurred on December 6, 2011 in Mine Unit 9, Header House 9-3. A follow-up notification was mailed to the LQD on December 8, 2011. On August 8, 2012 Cameco received LQD's comment. The following provides LQD's comment along with Cameco's response.

REVIEW COMMENTS

- 1. Cameco must provide the soil sample results, the gamma survey results, and sample location maps to LQD for the spill. (SI)*

**Cameco Response:** Included in this submittal are soil sample results, a map depicting sample locations and the gamma survey completed.



# ANALYTICAL SUMMARY REPORT

February 01, 2012

Power Resources dba Cameco Resources  
762 Ross Rd (Douglas, WY 82633)  
Glenrock, WY 82637

Workorder No.: C11120565

Project Name: SR-HUP/9-3

Energy Laboratories, Inc. Casper WY received the following 12 samples for Power Resources dba Cameco Resources on 12/15/2011 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C11120565-001	9-3 BKG [0-2]	12/15/11 0:00	12/15/11	Soil	ABDPTA extractable metals Metals by ICP/ICPMS, Total Digestion For RadioChemistry ABDTPA Soil Extraction Digestion, Total Metals for Core Samples Radium 226 Thorium, Isotopic
C11120565-002	9-3 BKG [2-6]	12/15/11 0:00	12/15/11	Soil	Same As Above
C11120565-003	9-3 BKG [0-6]	12/15/11 0:00	12/15/11	Soil	ABDPTA extractable metals Metals by ICP/ICPMS, Total Composite of two or more samples Digestion For RadioChemistry ABDTPA Soil Extraction Digestion, Total Metals for Core Samples Radium 226 Thorium, Isotopic
C11120565-004	9-3 #1 [0-2]	12/15/11 0:00	12/15/11	Soil	ABDPTA extractable metals Metals by ICP/ICPMS, Total Digestion For RadioChemistry ABDTPA Soil Extraction Digestion, Total Metals for Core Samples Radium 226 Thorium, Isotopic
C11120565-005	9-3 #1 [2-6]	12/15/11 0:00	12/15/11	Soil	Same As Above
C11120565-006	9-3 #1 [0-6]	12/15/11 0:00	12/15/11	Soil	ABDPTA extractable metals Metals by ICP/ICPMS, Total Composite of two or more samples Digestion For RadioChemistry ABDTPA Soil Extraction Digestion, Total Metals for Core Samples Radium 226 Thorium, Isotopic
C11120565-007	9-3 #2 [0-2]	12/15/11 0:00	12/15/11	Soil	ABDPTA extractable metals Metals by ICP/ICPMS, Total Digestion For RadioChemistry ABDTPA Soil Extraction Digestion, Total Metals for Core Samples Radium 226 Thorium, Isotopic



### ANALYTICAL SUMMARY REPORT

C11120565-008	9-3 #2 [2-6]	12/15/11 0:00	12/15/11	Soil	Same As Above
C11120565-009	9-3 #2 [0-6]	12/15/11 0:00	12/15/11	Soil	ABDPTA extractable metals Metals by ICP/ICPMS, Total Composite of two or more samples Digestion For RadioChemistry ABDTPA Soil Extraction Digestion, Total Metals for Core Samples Radium 226 Thorium, Isotopic
C11120565-010	9-3 #3 [0-2]	12/15/11 0:00	12/15/11	Soil	ABDPTA extractable metals Metals by ICP/ICPMS, Total Digestion For RadioChemistry ABDTPA Soil Extraction Digestion, Total Metals for Core Samples Radium 226 Thorium, Isotopic
C11120565-011	9-3 #3 [2-6]	12/15/11 0:00	12/15/11	Soil	Same As Above
C11120565-012	9-3 #3 [0-6]	12/15/11 0:00	12/15/11	Soil	ABDPTA extractable metals Metals by ICP/ICPMS, Total Composite of two or more samples Digestion For RadioChemistry ABDTPA Soil Extraction Digestion, Total Metals for Core Samples Radium 226 Thorium, Isotopic

The analyses presented in this report were performed at Energy Laboratories, Inc., 2393 Salt Creek Hwy., Casper, WY 82601, unless otherwise noted. Radiochemistry analyses were performed at Energy Laboratories, Inc., 2325 Kerzell Lane, Casper, WY 82601, unless otherwise noted. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

The results as reported relate only to the item(s) submitted for testing. Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. Data corrected for moisture content are typically noted as - dry on the report. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

If you have any questions regarding these test results, please call.

Report Approved By:

*Stephanie D Waldrop*  
Reporting Supervisor

Digitally signed by  
Stephanie Waldrop  
Date: 2012.02.01 15:17:06 -07:00



**LABORATORY ANALYTICAL REPORT**

Prepared by Casper, WY Branch

**Client:** Power Resources dba Cameco Resources  
**Project:** SR-HUP/9-3  
**Lab ID:** C11120565-001  
**Client Sample ID:** 9-3 BKG [0-2]

**Report Date:** 02/01/12  
**Collection Date:** 12/15/11  
**Date Received:** 12/15/11  
**Matrix:** Soil

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
<b>ABDTPA EXTRACTABLE METALS</b>							
Selenium	0.05	mg/kg-dry	D	0.01		SW6020	12/29/11 20:18 / sml
<b>METALS - TOTAL</b>							
Arsenic	3.0	mg/kg-dry		0.5		SW6020	01/03/12 15:10 / sml
Uranium	3.7	mg/kg-dry		0.5		SW6020	01/03/12 15:10 / sml
<b>RADIONUCLIDES - TOTAL</b>							
Radium 226	1.6	pCi/g-dry			E903.0		01/30/12 23:21 / js
Radium 226 precision (±)	0.08	pCi/g-dry			E903.0		01/30/12 23:21 / js
Radium 226 MDC	0.02	pCi/g-dry			E903.0		01/30/12 23:21 / js
Thorium 230	1.3	pCi/g-dry			E908.0		01/09/12 12:22 / dmf
Thorium 230 precision (±)	0.4	pCi/g-dry			E908.0		01/09/12 12:22 / dmf
Thorium 230 MDC	0.2	pCi/g-dry			E908.0		01/09/12 12:22 / dmf

**Report Definitions:**  
RL - Analyte reporting limit.  
QCL - Quality control limit.  
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.  
ND - Not detected at the reporting limit.  
D - RL increased due to sample matrix.



**LABORATORY ANALYTICAL REPORT**

Prepared by Casper, WY Branch

**Client:** Power Resources dba Cameco Resources  
**Project:** SR-HUP/9-3  
**Lab ID:** C11120565-002  
**Client Sample ID:** 9-3 BKG [2-6]

**Report Date:** 02/01/12  
**Collection Date:** 12/15/11  
**Date Received:** 12/15/11  
**Matrix:** Soil

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
<b>ABDTPA EXTRACTABLE METALS</b>							
Selenium	0.06	mg/kg-dry	D	0.01		SW6020	12/29/11 20:23 / smf
<b>METALS - TOTAL</b>							
Arsenic	2.7	mg/kg-dry		0.5		SW6020	01/03/12 14:27 / smf
Uranium	2.1	mg/kg-dry		0.5		SW6020	01/03/12 14:27 / smf
<b>RADIONUCLIDES - TOTAL</b>							
Radium 226	0.8	pCi/g-dry				E903.0	01/30/12 23:21 / js
Radium 226 precision (±)	0.06	pCi/g-dry				E903.0	01/30/12 23:21 / js
Radium 226 MDC	0.02	pCi/g-dry				E903.0	01/30/12 23:21 / js
Thorium 230	0.7	pCi/g-dry				E908.0	01/09/12 12:22 / dmf
Thorium 230 precision (±)	0.3	pCi/g-dry				E908.0	01/09/12 12:22 / dmf
Thorium 230 MDC	0.2	pCi/g-dry				E908.0	01/09/12 12:22 / dmf

**Report Definitions:**  
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 QCL - Quality control limit.  
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.  
 ND - Not detected at the reporting limit.  
 D - RL increased due to sample matrix.



**LABORATORY ANALYTICAL REPORT**

Prepared by Casper, WY Branch

**Client:** Power Resources dba Cameco Resources  
**Project:** SR-HUP/9-3  
**Lab ID:** C11120565-003  
**Client Sample ID:** 9-3 BKG [0-6]

**Report Date:** 02/01/12  
**Collection Date:** 12/15/11  
**Date Received:** 12/15/11  
**Matrix:** Soil

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
<b>ABDTPA EXTRACTABLE METALS</b>							
Selenium	0.06	mg/kg-dry	D	0.01		SW6020	12/29/11 20:26 / smf
<b>METALS - TOTAL</b>							
Arsenic	3.2	mg/kg-dry		0.5		SW6020	01/03/12 14:33 / sml
Uranium	3.0	mg/kg-dry		0.5		SW6020	01/03/12 14:33 / sml
<b>RADIONUCLIDES - TOTAL</b>							
Radium 226	1.2	pCi/g-dry				E903.0	01/30/12 23:21 / js
Radium 226 precision (±)	0.07	pCi/g-dry				E903.0	01/30/12 23:21 / js
Radium 226 MDC	0.02	pCi/g-dry				E903.0	01/30/12 23:21 / js
Thorium 230	0.9	pCi/g-dry				E908.0	01/09/12 12:22 / dmf
Thorium 230 precision (±)	0.3	pCi/g-dry				E908.0	01/09/12 12:22 / dmf
Thorium 230 MDC	0.2	pCi/g-dry				E908.0	01/09/12 12:22 / dmf

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**LABORATORY ANALYTICAL REPORT**

Prepared by Casper, WY Branch

**Client:** Power Resources dba Cameco Resources  
**Project:** SR-HUP/9-3  
**Lab ID:** C11120565-004  
**Client Sample ID:** 9-3 #1 [0-2]

**Report Date:** 02/01/12  
**Collection Date:** 12/15/11  
**Date Received:** 12/15/11  
**Matrix:** Soil

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
<b>ABDTPA EXTRACTABLE METALS</b>							
Selenium	0.11	mg/kg-dry	D	0.01		SW6020	12/29/11 20:28 / sml
<b>METALS - TOTAL</b>							
Arsenic	3.5	mg/kg-dry		0.5		SW6020	01/03/12 14:35 / sml
Uranium	3.2	mg/kg-dry		0.5		SW6020	01/03/12 14:35 / sml
<b>RADIONUCLIDES - TOTAL</b>							
Radium 226	3.0	pCi/g-dry			E903.0		01/30/12 23:21 / js
Radium 226 precision (±)	0.1	pCi/g-dry			E903.0		01/30/12 23:21 / js
Radium 226 MDC	0.01	pCi/g-dry			E903.0		01/30/12 23:21 / js
Thorium 230	1	pCi/g-dry			E908.0		01/09/12 12:22 / dmf
Thorium 230 precision (±)	0.3	pCi/g-dry			E908.0		01/09/12 12:22 / dmf
Thorium 230 MDC	0.2	pCi/g-dry			E908.0		01/09/12 12:22 / dmf

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**LABORATORY ANALYTICAL REPORT**

Prepared by Casper, WY Branch

**Client:** Power Resources dba Cameco Resources  
**Project:** SR-HUP/9-3  
**Lab ID:** C11120565-005  
**Client Sample ID:** 9-3 #1 [2-6]

**Report Date:** 02/01/12  
**Collection Date:** 12/15/11  
**Date Received:** 12/15/11  
**Matrix:** Soil

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
<b>ABDTPA EXTRACTABLE METALS</b>							
Selenium	0.06	mg/kg-dry	D	0.01		SW6020	12/29/11 20:31 / sml
<b>METALS - TOTAL</b>							
Arsenic	2.9	mg/kg-dry		0.5		SW6020	01/03/12 14:38 / sml
Uranium	2.6	mg/kg-dry		0.5		SW6020	01/03/12 14:38 / sml
<b>RADIONUCLIDES - TOTAL</b>							
Radium 226	0.9	pCi/g-dry			E903.0		01/30/12 23:21 / js
Radium 226 precision (±)	0.06	pCi/g-dry			E903.0		01/30/12 23:21 / js
Radium 226 MDC	0.01	pCi/g-dry			E903.0		01/30/12 23:21 / js
Thorium 230	1.6	pCi/g-dry			E908.0		01/09/12 12:22 / dmf
Thorium 230 precision (±)	0.4	pCi/g-dry			E908.0		01/09/12 12:22 / dmf
Thorium 230 MDC	0.2	pCi/g-dry			E908.0		01/09/12 12:22 / dmf

**Report Definitions:**  
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QCL - Quality control limit.  
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MCL - Maximum contaminant level.  
ND - Not detected at the reporting limit.  
D - RL increased due to sample matrix.



**LABORATORY ANALYTICAL REPORT**

Prepared by Casper, WY Branch

**Client:** Power Resources dba Cameco Resources  
**Project:** SR-HUP/9-3  
**Lab ID:** C11120565-006  
**Client Sample ID:** 9-3 #1 [0-6]

**Report Date:** 02/01/12  
**Collection Date:** 12/15/11  
**Date Received:** 12/15/11  
**Matrix:** Soil

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
<b>ABDTPA EXTRACTABLE METALS</b>							
Selenium	0.07	mg/kg-dry	D	0.01		SW6020	12/29/11 20:45 / sml
<b>METALS - TOTAL</b>							
Arsenic	2.7	mg/kg-dry		0.5		SW6020	01/03/12 14:41 / sml
Uranium	2.8	mg/kg-dry		0.5		SW6020	01/03/12 14:41 / sml
<b>RADIONUCLIDES - TOTAL</b>							
Radium 226	1.9	pCi/g-dry			E903.0		01/30/12 23:21 / js
Radium 226 precision (±)	0.09	pCi/g-dry			E903.0		01/30/12 23:21 / js
Radium 226 MDC	0.01	pCi/g-dry			E903.0		01/30/12 23:21 / js
Thorium 230	1.6	pCi/g-dry			E908.0		01/09/12 12:22 / dmf
Thorium 230 precision (±)	0.4	pCi/g-dry			E908.0		01/09/12 12:22 / dmf
Thorium 230 MDC	0.2	pCi/g-dry			E908.0		01/09/12 12:22 / dmf

**Report** RL - Analyte reporting limit.  
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**LABORATORY ANALYTICAL REPORT**

Prepared by Casper, WY Branch

**Client:** Power Resources dba Cameco Resources  
**Project:** SR-HUP/9-3  
**Lab ID:** C11120565-007  
**Client Sample ID:** 9-3 #2 [0-2]

**Report Date:** 02/01/12  
**Collection Date:** 12/15/11  
**Date Received:** 12/15/11  
**Matrix:** Soil

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
<b>ABDTPA EXTRACTABLE METALS</b>							
Selenium	0.16	mg/kg-dry	D	0.01		SW6020	12/29/11 20:47 / sml
<b>METALS - TOTAL</b>							
Arsenic	2.2	mg/kg-dry		0.5		SW6020	01/03/12 14:43 / sml
Uranium	3.4	mg/kg-dry		0.5		SW6020	01/03/12 14:43 / sml
<b>RADIONUCLIDES - TOTAL</b>							
Radium 226	10.2	pCi/g-dry				E903.0	01/31/12 00:54 / js
Radium 226 precision (±)	0.2	pCi/g-dry				E903.0	01/31/12 00:54 / js
Radium 226 MDC	0.01	pCi/g-dry				E903.0	01/31/12 00:54 / js
Thorium 230	1	pCi/g-dry				E908.0	01/09/12 12:22 / dmf
Thorium 230 precision (±)	0.3	pCi/g-dry				E908.0	01/09/12 12:22 / dmf
Thorium 230 MDC	0.1	pCi/g-dry				E908.0	01/09/12 12:22 / dmf

**Report Definitions:**  
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**LABORATORY ANALYTICAL REPORT**

Prepared by Casper, WY Branch

**Client:** Power Resources dba Cameco Resources  
**Project:** SR-HUP/9-3  
**Lab ID:** C11120565-008  
**Client Sample ID:** 9-3 #2 [2-6]

**Report Date:** 02/01/12  
**Collection Date:** 12/15/11  
**Date Received:** 12/15/11  
**Matrix:** Soil

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
<b>ABDTPA EXTRACTABLE METALS</b>							
Selenium	0.12	mg/kg-dry	D	0.01		SW6020	12/29/11 20:50 / sml
<b>METALS - TOTAL</b>							
Arsenic	2.6	mg/kg-dry		0.5		SW6020	01/03/12 14:46 / sml
Uranium	3.4	mg/kg-dry		0.5		SW6020	01/03/12 14:46 / sml
<b>RADIONUCLIDES - TOTAL</b>							
Radium 226	3.2	pCi/g-dry				E903.0	01/31/12 00:54 / js
Radium 226 precision (±)	0.1	pCi/g-dry				E903.0	01/31/12 00:54 / js
Radium 226 MDC	0.01	pCi/g-dry				E903.0	01/31/12 00:54 / js
Thorium 230	0.9	pCi/g-dry				E908.0	01/09/12 16:27 / dmf
Thorium 230 precision (±)	0.3	pCi/g-dry				E908.0	01/09/12 16:27 / dmf
Thorium 230 MDC	0.2	pCi/g-dry				E908.0	01/09/12 16:27 / dmf

**Report Definitions:**  
RL - Analyte reporting limit.  
QCL - Quality control limit.  
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.  
ND - Not detected at the reporting limit.  
D - RL increased due to sample matrix.



**LABORATORY ANALYTICAL REPORT**

Prepared by Casper, WY Branch

**Client:** Power Resources dba Cameco Resources  
**Project:** SR-HUP/9-3  
**Lab ID:** C11120565-009  
**Client Sample ID:** 9-3 #2 [0-6]

**Report Date:** 02/01/12  
**Collection Date:** 12/15/11  
**Date Received:** 12/15/11  
**Matrix:** Soil

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
<b>ABDTPA EXTRACTABLE METALS</b>							
Selenium	0.14	mg/kg-dry	D	0.01		SW6020	12/29/11 20:53 / sml
<b>METALS - TOTAL</b>							
Arsenic	2.1	mg/kg-dry		0.5		SW6020	01/03/12 14:49 / sml
Uranium	3.2	mg/kg-dry		0.5		SW6020	01/03/12 14:49 / sml
<b>RADIONUCLIDES - TOTAL</b>							
Radium 226	6.6	pCi/g-dry			E903.0		01/31/12 00:54 / js
Radium 226 precision (±)	0.2	pCi/g-dry			E903.0		01/31/12 00:54 / js
Radium 226 MDC	0.01	pCi/g-dry			E903.0		01/31/12 00:54 / js
Thorium 230	0.5	pCi/g-dry			E908.0		01/09/12 16:27 / dmf
Thorium 230 precision (±)	0.2	pCi/g-dry			E908.0		01/09/12 16:27 / dmf
Thorium 230 MDC	0.2	pCi/g-dry			E908.0		01/09/12 16:27 / dmf

**Report Definitions:**  
 RL - Analyte reporting limit.  
 QCL - Quality control limit.  
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.  
 ND - Not detected at the reporting limit.  
 D - RL increased due to sample matrix.



**LABORATORY ANALYTICAL REPORT**

Prepared by Casper, WY Branch

**Client:** Power Resources dba Cameco Resources  
**Project:** SR-HUP/9-3  
**Lab ID:** C11120565-010  
**Client Sample ID:** 9-3 #3 [0-2]

**Report Date:** 02/01/12  
**Collection Date:** 12/15/11  
**Date Received:** 12/15/11  
**Matrix:** Soil

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
<b>ABDTPA EXTRACTABLE METALS</b>							
Selenium	0.07	mg/kg-dry	D	0.01		SW6020	12/29/11 20:55 / smf
<b>METALS - TOTAL</b>							
Arsenic	2.5	mg/kg-dry		0.5		SW6020	01/03/12 15:02 / sml
Uranium	1.9	mg/kg-dry		0.5		SW6020	01/03/12 15:02 / sml
<b>RADIONUCLIDES - TOTAL</b>							
Radium 226	0.7	pCi/g-dry				E903.0	01/31/12 00:54 / js
Radium 226 precision (±)	0.05	pCi/g-dry				E903.0	01/31/12 00:54 / js
Radium 226 MDC	0.01	pCi/g-dry				E903.0	01/31/12 00:54 / js
Thorium 230	0.4	pCi/g-dry				E908.0	01/09/12 16:27 / dmf
Thorium 230 precision (±)	0.2	pCi/g-dry				E908.0	01/09/12 16:27 / dmf
Thorium 230 MDC	0.2	pCi/g-dry				E908.0	01/09/12 16:27 / dmf

**Report Definitions:**  
 RL - Analyte reporting limit.  
 QCL - Quality control limit.  
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.  
 ND - Not detected at the reporting limit.  
 D - RL increased due to sample matrix.



**LABORATORY ANALYTICAL REPORT**

Prepared by Casper, WY Branch

**Client:** Power Resources dba Cameco Resources  
**Project:** SR-HUP/9-3  
**Lab ID:** C11120565-011  
**Client Sample ID:** 9-3 #3 [2-6]

**Report Date:** 02/01/12  
**Collection Date:** 12/15/11  
**Date Received:** 12/15/11  
**Matrix:** Soil

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
<b>ABDTPA EXTRACTABLE METALS</b>							
Selenium	0.07	mg/kg-dry	D	0.01		SW6020	12/29/11 20:58 / sml
<b>METALS - TOTAL</b>							
Arsenic	3.2	mg/kg-dry		0.5		SW6020	01/03/12 15:05 / sml
Uranium	2.2	mg/kg-dry		0.5		SW6020	01/03/12 15:05 / sml
<b>RADIONUCLIDES - TOTAL</b>							
Radium 226	0.7	pCi/g-dry			E903.0		01/31/12 00:54 / js
Radium 226 precision (±)	0.05	pCi/g-dry			E903.0		01/31/12 00:54 / js
Radium 226 MDC	0.01	pCi/g-dry			E903.0		01/31/12 00:54 / js
Thorium 230	0.6	pCi/g-dry			E908.0		01/09/12 16:27 / dmf
Thorium 230 precision (±)	0.3	pCi/g-dry			E908.0		01/09/12 16:27 / dmf
Thorium 230 MDC	0.2	pCi/g-dry			E908.0		01/09/12 16:27 / dmf

**Report Definitions:**  
 RL - Analyte reporting limit.  
 QCL - Quality control limit.  
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.  
 ND - Not detected at the reporting limit.  
 D - RL increased due to sample matrix.



**LABORATORY ANALYTICAL REPORT**

Prepared by Casper, WY Branch

**Client:** Power Resources dba Cameco Resources  
**Project:** SR-HUP/9-3  
**Lab ID:** C11120565-012  
**Client Sample ID:** 9-3 #3 [0-6]

**Report Date:** 02/01/12  
**Collection Date:** 12/15/11  
**Date Received:** 12/15/11  
**Matrix:** Soil

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
<b>ABDTPA EXTRACTABLE METALS</b>							
Selenium	0.06	mg/kg-dry	D	0.01		SW6020	12/29/11 21:01 / sml
<b>METALS - TOTAL</b>							
Arsenic	3.0	mg/kg-dry		0.5		SW6020	01/03/12 15:08 / sml
Uranium	2.2	mg/kg-dry		0.5		SW6020	01/03/12 15:08 / sml
<b>RADIONUCLIDES - TOTAL</b>							
Radium 226	0.7	pCi/g-dry			E903.0		01/31/12 00:54 / js
Radium 226 precision (±)	0.05	pCi/g-dry			E903.0		01/31/12 00:54 / js
Radium 226 MDC	0.01	pCi/g-dry			E903.0		01/31/12 00:54 / js
Thorium 230	0.4	pCi/g-dry			E908.0		01/09/12 16:27 / dmf
Thorium 230 precision (±)	0.2	pCi/g-dry			E908.0		01/09/12 16:27 / dmf
Thorium 230 MDC	0.1	pCi/g-dry			E908.0		01/09/12 16:27 / dmf

**Report Definitions:**  
RL - Analyte reporting limit.  
QCL - Quality control limit.  
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.  
ND - Not detected at the reporting limit.  
D - RL increased due to sample matrix.



## QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Power Resources dba Cameco Resources

Report Date: 02/01/12

Project: SR-HUP/9-3

Work Order: C11120565

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
<b>Method: E903.0</b>										Batch: R155896	
<b>Sample ID: C11120565-011AMS</b>	Sample Matrix Spike					Run: BERTHOLD 770-2_111227B		01/31/12 00:54			
Radium 226	2.2	pCi/g-dry	104	70	130						
<b>Sample ID: C11120565-011AMSD</b>	Sample Matrix Spike Duplicate					Run: BERTHOLD 770-2_111227B		01/31/12 00:54			
Radium 226	2.1	pCi/g-dry	99	70	130	2.4	22				
<b>Sample ID: LCS-32249</b>	Laboratory Control Sample					Run: BERTHOLD 770-2_111227B		01/31/12 02:31			
Radium 226	0.29	pCi/g-dry	98	70	130						
<b>Sample ID: MB-32249</b>	3	Method Blank				Run: BERTHOLD 770-2_111227B		01/31/12 02:31			
Radium 226	-0.0001	pCi/g-dry									U
Radium 226 precision (±)	0.0001	pCi/g-dry									
Radium 226 MDC	0.0003	pCi/g-dry									

**Qualifiers:**

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

U - Not detected at minimum detectable concentration



## QA/QC Summary Report

Prepared by Casper, WY Branch

**Client:** Power Resources dba Cameco Resources

**Report Date:** 02/01/12

**Project:** SR-HUP/9-3

**Work Order:** C11120565

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
<b>Method:</b> E908.0										Batch: 32249
<b>Sample ID:</b> C11120565-011AMS			Sample Matrix Spike							Run: EGG-ORTEC_120106A 01/09/12 16:27
Thorium 230		9.53	pCi/g-dry	113		70	130			
<b>Sample ID:</b> C11120565-011AMSD			Sample Matrix Spike Duplicate							Run: EGG-ORTEC_120106A 01/09/12 16:27
Thorium 230		8.13	pCi/g-dry	96		70	130	16	43.8	
<b>Sample ID:</b> LCS-32249			Laboratory Control Sample							Run: EGG-ORTEC_120106A 01/10/12 08:42
Thorium 230		1.57	pCi/g-dry	129		70	130			
<b>Sample ID:</b> MB-32249	3		Method Blank							Run: EGG-ORTEC_120106A 01/10/12 08:42
Thorium 230		0.0006	pCi/g-dry							U
Thorium 230 precision (±)		0.001	pCi/g-dry							
Thorium 230 MDC		0.002	pCi/g-dry							

**Qualifiers:**

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

U - Not detected at minimum detectable concentration



## QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Power Resources dba Cameco Resources

Report Date: 02/01/12

Project: SR-HUP/9-3

Work Order: C11120565

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
<b>Method: SW6020</b>		Analytical Run: ICPMS2-C_111229B									
<b>Sample ID: ICV</b>	Initial Calibration Verification Standard									12/29/11 17:16	
Selenium		0.0484	mg/L	0.0010	97	90	110				
<b>Method: SW6020</b>		Batch: 32261									
<b>Sample ID: MB-32261</b>	Method Blank									Run: ICPMS2-C_111229B	12/29/11 20:10
Selenium		ND	mg/kg-dry	0.002							
<b>Sample ID: LCS1-32261</b>	Laboratory Control Sample									Run: ICPMS2-C_111229B	12/29/11 20:12
Selenium		0.0992	mg/kg-dry	0.0100	115	58	182				
<b>Sample ID: C11120565-001ADIL</b>	Serial Dilution									Run: ICPMS2-C_111229B	12/29/11 20:20
Selenium		0.0531	mg/kg-dry	0.050		0	0		14	N	
<b>Sample ID: C11120565-012ADUP</b>	Sample Duplicate									Run: ICPMS2-C_111229B	12/29/11 21:03
Selenium		0.0645	mg/kg-dry	0.0100				0.1	20		
<b>Sample ID: C11120565-012AMS4</b>	Sample Matrix Spike									Run: ICPMS2-C_111229B	12/29/11 21:06
Selenium		1.33	mg/kg-dry	0.0100	127	75	125			S	
<b>Sample ID: C11120565-012AMSD</b>	Sample Matrix Spike Duplicate									Run: ICPMS2-C_111229B	12/29/11 21:19
Selenium		1.32	mg/kg-dry	0.0100	126	75	125	0.6	20	S	
<b>Method: SW6020</b>		Analytical Run: ICPMS2-C_120103A									
<b>Sample ID: ICV</b>	2 Initial Calibration Verification Standard									01/03/12 12:09	
Arsenic		0.0482	mg/L	0.0010	96	90	110				
Uranium		0.0506	mg/L	0.00030	101	90	110				
<b>Method: SW6020</b>		Batch: 32346									
<b>Sample ID: MB-32346</b>	2 Method Blank									Run: ICPMS2-C_120103A	01/03/12 14:06
Arsenic		0.05	mg/kg-dry	0.01							
Uranium		0.006	mg/kg-dry	0.005							
<b>Sample ID: LFB-32346</b>	2 Laboratory Fortified Blank									Run: ICPMS2-C_120103A	01/03/12 14:11
Arsenic		23.0	mg/kg-dry	0.50	94	80	120				
Uranium		25.6	mg/kg-dry	0.50	105	80	120				
<b>Sample ID: C11120565-002ADIL</b>	2 Serial Dilution									Run: ICPMS2-C_120103A	01/03/12 14:30
Arsenic		2.74	mg/kg-dry	0.61					20	N	
Uranium		2.26	mg/kg-dry	0.50					20	N	
<b>Sample ID: C11120565-001AMS3</b>	2 Sample Matrix Spike									Run: ICPMS2-C_120103A	01/03/12 15:13
Arsenic		26.0	mg/kg-dry	0.50	97	75	125				
Uranium		29.8	mg/kg-dry	0.50	110	75	125				
<b>Sample ID: C11120565-001AMSD</b>	2 Sample Matrix Spike Duplicate									Run: ICPMS2-C_120103A	01/03/12 15:16
Arsenic		26.7	mg/kg-dry	0.50	100	75	125	2.4	20		
Uranium		30.0	mg/kg-dry	0.50	111	75	125	0.7	20		

**Qualifiers:**

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

S - Spike recovery outside of advisory limits.

ND - Not detected at the reporting limit.

N - The analyte concentration was not sufficiently high to calculate a RPD for the serial dilution test.



# Workorder Receipt Checklist



C11120565

Login completed by: Edith McPike

Date Received: 12/15/2011

Reviewed by: BL2000\cwagner

Received by: kg

Reviewed Date: 12/21/2011

Carrier Hand Del name:

- Shipping container/cooler in good condition? Yes  No  Not Present
- Custody seals intact on shipping container/cooler? Yes  No  Not Present
- Custody seals intact on sample bottles? Yes  No  Not Present
- Chain of custody present? Yes  No
- Chain of custody signed when relinquished and received? Yes  No
- Chain of custody agrees with sample labels? Yes  No
- Samples in proper container/bottle? Yes  No
- Sample containers intact? Yes  No
- Sufficient sample volume for indicated test? Yes  No
- All samples received within holding time?  
(Exclude analyses that are considered field parameters such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.) Yes  No
- Container/Temp Blank temperature: N/A °C
- Water - VOA vials have zero headspace? Yes  No  No VOA vials submitted
- Water - pH acceptable upon receipt? Yes  No  Not Applicable

Contact and Corrective Action Comments:

Per phone call with client on 12/16, composite sample depths 0-2 and 2-6 for sample depth 0-6



# Chain of Custody and Analytical Request Record

PLEASE PRINT (Provide as much information as possible.)

Company Name: <b>Camco Resources</b>	Project Name, PWS, Permit, Etc. <b>SR 9-3</b>	Sample Origin State: <b>WY</b>	EPA/State Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/>
Report Mail Address: <b>P.O. Box 1210 Glenrock WY 82637</b>	Contact Name: <b>Arlene Tance</b>	Phone/Fax: <b>358-6541 ext 431</b>	Email: Sampler: (Please Print)
Invoice Address:	Invoice Contact & Phone:	Purchase Order: <b>C-372</b>	Quote/Bottle Order:

Special Report/Formats:  <input type="checkbox"/> DW <input type="checkbox"/> EDD/EDT (Electronic Data) <input type="checkbox"/> POTW/WWTP <b>Format:</b> _____ <input type="checkbox"/> State: _____ <input type="checkbox"/> LEVEL IV <input type="checkbox"/> Other: _____ <input type="checkbox"/> NELAC			ANALYSIS REQUESTED Number of Containers Sample Type: AW S V B O DW Air Water Soils/Solids Vegetation Bioassay Other DW - Drinking Water	R U S H Standard Turnaround (TAT) SEE ATTACHED										Contact ELI prior to RUSH sample submittal for charges and scheduling - See Instruction Page Shipped by: <b>HAND</b> Cooler ID(s): <b>Client</b> Receipt Temp: <b>N/A °C</b> On Ice: <b>Y</b> <input checked="" type="checkbox"/> Custody Seal On Bottle: <b>Y</b> <input checked="" type="checkbox"/> On Cooler: <b>Y</b> <input checked="" type="checkbox"/> Intact: <b>Y</b> <input checked="" type="checkbox"/> Signature Match: <b>Y</b> <input checked="" type="checkbox"/>							
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)      Collection Date      Collection Time      MATRIX				W-NAT      Ra-226      Th-230      As      Se-75beta																	
1 9-3 0-2' BK6			12/15		Soil	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2 9-3 2-6' BK6			12/15																		
3 9-3 0-2' #1			12/15																		
4 9-3 2-6' #1			12/15																		
5 9-3 0-2' #2			12/15																		
6 9-3 2-6' #2			12/15																		
7 9-3 0-2' #3			12/15																		
8 9-3 2-6' #3			12/15																		
9																					
10																					

<b>Custody Record MUST be Signed</b>	Relinquished by (print): <b>M. J. Goffitts</b> Date/Time: <b>12/15/11 15:30</b> Signature: <i>[Signature]</i>	Received by (print): <b>T. Nicholson</b> Date/Time: <b>12/15/11 15:30</b> Signature: <i>[Signature]</i>
	Relinquished by (print): <b>T. Nicholson</b> Date/Time: <b>12/15/11 16:27</b> Signature: <i>[Signature]</i>	Received by (print): _____      Date/Time: _____      Signature: _____
	Sample Disposal: <b>Return to Client</b> Lab Disposal: _____	Received by Laboratory: _____      Date/Time: <b>12-15-11 16:27</b> Signature: <b>Kr's G:55c</b>

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at [www.energylab.com](http://www.energylab.com) for additional information, downloadable fee schedule, forms, and links.



**LABORATORY ANALYTICAL REPORT**

Prepared by Casper, WY Branch

**Client:** Power Resources dba Cameco Resources  
**Project:** SR-HUP/ 15-20  
**Lab ID:** C12030423-017  
**Client Sample ID:** #1 9-3 [0"-6"]

**Report Date:** 04/26/12  
**Collection Date:** 03/09/12  
**Date Received:** 03/12/12  
**Matrix:** Soil

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
<b>PHYSICAL CHARACTERISTICS</b>							
Moisture	13.5	%		0.1		D2974	03/13/12 11:23 / jes
<b>DTPA EXTRACTABLE METALS</b>							
Selenium	0.03	mg/kg-dry		0.02		SW6020	04/25/12 12:58 / smm
<b>METALS - TOTAL</b>							
Arsenic	3.4	mg/kg-dry		1.0		SW6020	03/20/12 17:57 / smm
Uranium	3.8	mg/kg-dry		1.0		SW6020	03/20/12 17:57 / smm
<b>RADIONUCLIDES</b>							
Radium 226	0.7	pCi/g-dry				E903.0	03/26/12 16:48 / trs
Radium 226 precision (±)	0.06	pCi/g-dry				E903.0	03/26/12 16:48 / trs
Radium 226 MDC	0.03	pCi/g-dry				E903.0	03/26/12 16:48 / trs

**Report Definitions:**  
RL - Analyte reporting limit.  
QCL - Quality control limit.  
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.  
ND - Not detected at the reporting limit.



### LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

**Client:** Power Resources dba Cameco Resources  
**Project:** SR-HUP/ 15-20  
**Lab ID:** C12030423-018  
**Client Sample ID:** #2 9-3 [0"-6"]

**Report Date:** 04/26/12  
**Collection Date:** 03/09/12  
**Date Received:** 03/12/12  
**Matrix:** Soil

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
<b>PHYSICAL CHARACTERISTICS</b>							
Moisture	10.8	%		0.1		D2974	03/13/12 11:24 / jes
<b>DTPA EXTRACTABLE METALS</b>							
Selenium	0.02	mg/kg-dry		0.02		SW6020	04/25/12 13:11 / smm
<b>METALS - TOTAL</b>							
Arsenic	2.5	mg/kg-dry		1.0		SW6020	03/20/12 17:59 / smm
Uranium	1.8	mg/kg-dry		1.0		SW6020	03/20/12 17:59 / smm
<b>RADIONUCLIDES</b>							
Radium 226	0.4	pCi/g-dry				E903.0	03/26/12 16:48 / trs
Radium 226 precision (±)	0.04	pCi/g-dry				E903.0	03/26/12 16:48 / trs
Radium 226 MDC	0.02	pCi/g-dry				E903.0	03/26/12 16:48 / trs

**Report Definitions:**  
 RL - Analyte reporting limit.  
 QCL - Quality control limit.  
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.  
 ND - Not detected at the reporting limit.



**LABORATORY ANALYTICAL REPORT**

Prepared by Casper, WY Branch

**Client:** Power Resources dba Cameco Resources  
**Project:** SR-HUP/ 15-20  
**Lab ID:** C12030423-019  
**Client Sample ID:** #3 9-3 [0"-6"]

**Report Date:** 04/26/12  
**Collection Date:** 03/09/12  
**Date Received:** 03/12/12  
**Matrix:** Soil

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
<b>PHYSICAL CHARACTERISTICS</b>							
Moisture	12.4	%		0.1		D2974	03/13/12 11:24 / jes
<b>DTPA EXTRACTABLE METALS</b>							
Selenium	0.08	mg/kg-dry		0.02		SW6020	04/25/12 13:14 / smm
<b>METALS - TOTAL</b>							
Arsenic	3.0	mg/kg-dry		1.0		SW6020	03/20/12 18:02 / smm
Uranium	2.2	mg/kg-dry		1.0		SW6020	03/20/12 18:02 / smm
<b>RADIONUCLIDES</b>							
Radium 226	0.6	pCi/g-dry				E903.0	03/24/12 09:33 / trs
Radium 226 precision (±)	0.07	pCi/g-dry				E903.0	03/24/12 09:33 / trs
Radium 226 MDC	0.04	pCi/g-dry				E903.0	03/24/12 09:33 / trs

**Report Definitions:**  
RL - Analyte reporting limit.  
QCL - Quality control limit.  
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.  
ND - Not detected at the reporting limit.



### LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

**Client:** Power Resources dba Cameco Resources  
**Project:** SR-HUP/ 15-20  
**Lab ID:** C12030423-020  
**Client Sample ID:** #4 9-3 [0"-6"]

**Report Date:** 04/26/12  
**Collection Date:** 03/09/12  
**Date Received:** 03/12/12  
**Matrix:** Soil

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
<b>PHYSICAL CHARACTERISTICS</b>							
Moisture	15.8	%		0.1		D2974	03/13/12 11:25 / jes
<b>DTPA EXTRACTABLE METALS</b>							
Selenium	0.07	mg/kg-dry		0.02		SW6020	04/25/12 13:16 / smm
<b>METALS - TOTAL</b>							
Arsenic	3.5	mg/kg-dry		1.0		SW6020	03/20/12 18:15 / smm
Uranium	2.6	mg/kg-dry		1.0		SW6020	03/20/12 18:15 / smm
<b>RADIONUCLIDES</b>							
Radium 226	0.4	pCi/g-dry				E903.0	03/24/12 09:33 / trs
Radium 226 precision (±)	0.07	pCi/g-dry				E903.0	03/24/12 09:33 / trs
Radium 226 MDC	0.04	pCi/g-dry				E903.0	03/24/12 09:33 / trs

**Report Definitions:**  
RL - Analyte reporting limit.  
QCL - Quality control limit.  
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.  
ND - Not detected at the reporting limit.



### LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

**Client:** Power Resources dba Cameco Resources  
**Project:** SR-HUP/ 15-20  
**Lab ID:** C12030423-021  
**Client Sample ID:** #5 9-3 [0"-6"]

**Report Date:** 04/26/12  
**Collection Date:** 03/09/12  
**Date Received:** 03/12/12  
**Matrix:** Soil

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
<b>PHYSICAL CHARACTERISTICS</b>							
Moisture	13.4	%		0.1		D2974	03/13/12 11:26 / jes
<b>DTPA EXTRACTABLE METALS</b>							
Selenium	0.06	mg/kg-dry		0.02		SW6020	04/25/12 13:19 / srm
<b>METALS - TOTAL</b>							
Arsenic	2.9	mg/kg-dry		1.0		SW6020	03/20/12 18:26 / srm
Uranium	2.2	mg/kg-dry		1.0		SW6020	03/20/12 18:26 / srm
<b>RADIONUCLIDES</b>							
Radium 226	0.5	pCi/g-dry				E903.0	03/24/12 09:33 / trs
Radium 226 precision (±)	0.07	pCi/g-dry				E903.0	03/24/12 09:33 / trs
Radium 226 MDC	0.04	pCi/g-dry				E903.0	03/24/12 09:33 / trs

**Report** RL - Analyte reporting limit.  
**Definitions:** QCL - Quality control limit.  
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.  
ND - Not detected at the reporting limit.



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**LABORATORY ANALYTICAL REPORT**

Prepared by Casper, WY Branch

**Client:** Power Resources dba Cameco Resources  
**Project:** SR-HUP/ 15-20  
**Lab ID:** C12030423-022  
**Client Sample ID:** #6 9-3 [0"-6"]

**Report Date:** 04/26/12  
**Collection Date:** 03/09/12  
**Date Received:** 03/12/12  
**Matrix:** Soil

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
<b>PHYSICAL CHARACTERISTICS</b>							
Moisture	10.6	%		0.1		D2974	03/13/12 11:27 / jes
<b>DTPA EXTRACTABLE METALS</b>							
Selenium	0.05	mg/kg-dry		0.02		SW6020	04/25/12 13:22 / smm
<b>METALS - TOTAL</b>							
Arsenic	6.9	mg/kg-dry		1.0		SW6020	03/20/12 18:28 / smm
Uranium	4.1	mg/kg-dry		1.0		SW6020	03/20/12 18:28 / smm
<b>RADIONUCLIDES</b>							
Radium 226	0.5	pCi/g-dry				E903.0	03/24/12 09:33 / trs
Radium 226 precision (±)	0.07	pCi/g-dry				E903.0	03/24/12 09:33 / trs
Radium 226 MDC	0.04	pCi/g-dry				E903.0	03/24/12 09:33 / trs

**Report Definitions:**  
RL - Analyte reporting limit.  
QCL - Quality control limit.  
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.  
ND - Not detected at the reporting limit.



**LABORATORY ANALYTICAL REPORT**

Prepared by Casper, WY Branch

**Client:** Power Resources dba Cameco Resources  
**Project:** SR-HUP/ 15-20  
**Lab ID:** C12030423-023  
**Client Sample ID:** #7 9-3 [0"-6"]

**Report Date:** 04/26/12  
**Collection Date:** 03/09/12  
**Date Received:** 03/12/12  
**Matrix:** Soil

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
<b>PHYSICAL CHARACTERISTICS</b>							
Moisture	12.0	%		0.1		D2974	03/13/12 11:28 / jes
<b>DTPA EXTRACTABLE METALS</b>							
Selenium	0.03	mg/kg-dry		0.02		SW6020	04/25/12 13:24 / smm
<b>METALS - TOTAL</b>							
Arsenic	2.8	mg/kg-dry		1.0		SW6020	03/20/12 18:31 / smm
Uranium	2.1	mg/kg-dry		1.0		SW6020	03/20/12 18:31 / smm
<b>RADIONUCLIDES</b>							
Radium 226	0.5	pCi/g-dry				E903.0	03/24/12 09:33 / trs
Radium 226 precision (±)	0.07	pCi/g-dry				E903.0	03/24/12 09:33 / trs
Radium 226 MDC	0.04	pCi/g-dry				E903.0	03/24/12 09:33 / trs

**Report Definitions:**  
 RL - Analyte reporting limit.  
 QCL - Quality control limit.  
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.  
 ND - Not detected at the reporting limit.



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### LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

**Client:** Power Resources dba Cameco Resources  
**Project:** SR-HUP/ 15-20  
**Lab ID:** C12030423-024  
**Client Sample ID:** #8 9-3 [0"-6"]

**Report Date:** 04/26/12  
**Collection Date:** 03/09/12  
**Date Received:** 03/12/12  
**Matrix:** Soil

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
<b>PHYSICAL CHARACTERISTICS</b>							
Moisture	12.2	%		0.1		D2974	03/13/12 11:29 / jes
<b>DTPA EXTRACTABLE METALS</b>							
Selenium	0.03	mg/kg-dry		0.02		SW6020	04/25/12 13:27 / smm
<b>METALS - TOTAL</b>							
Arsenic	3.9	mg/kg-dry		1.0		SW6020	03/20/12 18:34 / smm
Uranium	3.2	mg/kg-dry		1.0		SW6020	03/20/12 18:34 / smm
<b>RADIONUCLIDES</b>							
Radium 226	0.8	pCi/g-dry				E903.0	03/24/12 09:33 / lrs
Radium 226 precision (±)	0.09	pCi/g-dry				E903.0	03/24/12 09:33 / lrs
Radium 226 MDC	0.04	pCi/g-dry				E903.0	03/24/12 09:33 / lrs

**Report Definitions:**  
 RL - Analyte reporting limit.  
 QCL - Quality control limit.  
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.  
 ND - Not detected at the reporting limit.



**LABORATORY ANALYTICAL REPORT**

Prepared by Casper, WY Branch

**Client:** Power Resources dba Cameco Resources  
**Project:** SR-HUP/ 15-20  
**Lab ID:** C12030423-025  
**Client Sample ID:** #9 9-3 [0"-6"]

**Report Date:** 04/26/12  
**Collection Date:** 03/09/12  
**Date Received:** 03/12/12  
**Matrix:** Soil

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
<b>PHYSICAL CHARACTERISTICS</b>							
Moisture	11.7	%		0.1		D2974	03/13/12 11:30 / jes
<b>DTPA EXTRACTABLE METALS</b>							
Selenium	ND	mg/kg-dry		0.02		SW6020	04/25/12 13:29 / smm
<b>METALS - TOTAL</b>							
Arsenic	3.2	mg/kg-dry		1.0		SW6020	03/20/12 18:36 / smm
Uranium	3.2	mg/kg-dry		1.0		SW6020	03/20/12 18:36 / smm
<b>RADIONUCLIDES</b>							
Radium 226	0.7	pCi/g-dry				E903.0	03/24/12 09:33 / trs
Radium 226 precision (±)	0.09	pCi/g-dry				E903.0	03/24/12 09:33 / trs
Radium 226 MDC	0.04	pCi/g-dry				E903.0	03/24/12 09:33 / trs

**Report Definitions:**  
 RL - Analyte reporting limit.  
 QCL - Quality control limit.  
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.  
 ND - Not detected at the reporting limit.



**LABORATORY ANALYTICAL REPORT**

Prepared by Casper, WY Branch

**Client:** Power Resources dba Cameco Resources  
**Project:** SR-HUP/ 15-20  
**Lab ID:** C12030423-026  
**Client Sample ID:** #10 9-3 [0"-6"]

**Report Date:** 04/26/12  
**Collection Date:** 03/09/12  
**Date Received:** 03/12/12  
**Matrix:** Soil

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
<b>PHYSICAL CHARACTERISTICS</b>							
Moisture	13.6	%		0.1		D2974	03/13/12 11:32 / jes
<b>DTPA EXTRACTABLE METALS</b>							
Selenium	0.05	mg/kg-dry		0.02		SW6020	04/25/12 13:32 / smm
<b>METALS - TOTAL</b>							
Arsenic	3.7	mg/kg-dry		1.0		SW6020	03/20/12 18:50 / smm
Uranium	6.0	mg/kg-dry		1.0		SW6020	03/20/12 18:50 / smm
<b>RADIONUCLIDES</b>							
Radium 226	0.9	pCi/g-dry				E903.0	03/24/12 09:33 / trs
Radium 226 precision (±)	0.1	pCi/g-dry				E903.0	03/24/12 09:33 / trs
Radium 226 MDC	0.04	pCi/g-dry				E903.0	03/24/12 09:33 / trs

**Report Definitions:**  
 RL - Analyte reporting limit.  
 QCL - Quality control limit.  
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.  
 ND - Not detected at the reporting limit.



**LABORATORY ANALYTICAL REPORT**

Prepared by Casper, WY Branch

**Client:** Power Resources dba Cameco Resources  
**Project:** SR-HUP/ 15-20  
**Lab ID:** C12030423-027  
**Client Sample ID:** #11 9-3 [0"-6"]

**Report Date:** 04/26/12  
**Collection Date:** 03/09/12  
**Date Received:** 03/12/12  
**Matrix:** Soil

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
<b>PHYSICAL CHARACTERISTICS</b>							
Moisture	16.4	%		0.1		D2974	03/13/12 11:34 / jes
<b>DTPA EXTRACTABLE METALS</b>							
Selenium	ND	mg/kg-dry		0.02		SW6020	04/25/12 13:45 / smm
<b>METALS - TOTAL</b>							
Arsenic	2.6	mg/kg-dry		1.0		SW6020	03/20/12 18:52 / smm
Uranium	7.0	mg/kg-dry		1.0		SW6020	03/20/12 18:52 / smm
<b>RADIONUCLIDES</b>							
Radium 226	1.1	pCi/g-dry				E903.0	03/24/12 09:33 / trs
Radium 226 precision (±)	0.1	pCi/g-dry				E903.0	03/24/12 09:33 / trs
Radium 226 MDC	0.04	pCi/g-dry				E903.0	03/24/12 09:33 / trs

**Report Definitions:**  
RL - Analyte reporting limit.  
QCL - Quality control limit.  
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.  
ND - Not detected at the reporting limit.



### LABORATORY ANALYTICAL REPORT

Prepared by Casper, WY Branch

**Client:** Power Resources dba Cameco Resources  
**Project:** SR-HUP/ 15-20  
**Lab ID:** C12030423-028  
**Client Sample ID:** #12 9-3 [0"-6"]

**Report Date:** 04/26/12  
**Collection Date:** 03/09/12  
**Date Received:** 03/12/12  
**Matrix:** Soil

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
<b>PHYSICAL CHARACTERISTICS</b>							
Moisture	11.3	%		0.1		D2974	03/13/12 11:35 / jes
<b>DTPA EXTRACTABLE METALS</b>							
Selenium	0.02	mg/kg-dry		0.02		SW6020	04/25/12 13:47 / smm
<b>METALS - TOTAL</b>							
Arsenic	3.8	mg/kg-dry		1.0		SW6020	03/20/12 18:55 / smm
Uranium	7.3	mg/kg-dry		1.0		SW6020	03/20/12 18:55 / smm
<b>RADIONUCLIDES</b>							
Radium 226	0.6	pCi/g-dry				E903.0	03/26/12 09:51 / trs
Radium 226 precision (±)	0.07	pCi/g-dry				E903.0	03/26/12 09:51 / trs
Radium 226 MDC	0.04	pCi/g-dry				E903.0	03/26/12 09:51 / trs

**Report Definitions:**  
 RL - Analyte reporting limit.  
 QCL - Quality control limit.  
 MDC - Minimum detectable concentration  
 MCL - Maximum contaminant level.  
 ND - Not detected at the reporting limit.



**LABORATORY ANALYTICAL REPORT**

Prepared by Casper, WY Branch

**Client:** Power Resources dba Cameco Resources  
**Project:** SR-HUP/ 15-20  
**Lab ID:** C12030423-029  
**Client Sample ID:** #13 9-3 [0"-6"]

**Report Date:** 04/26/12  
**Collection Date:** 03/09/12  
**Date Received:** 03/12/12  
**Matrix:** Soil

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
<b>PHYSICAL CHARACTERISTICS</b>							
Moisture	9.6	%		0.1		D2974	03/13/12 11:36 / jes
<b>DTPA EXTRACTABLE METALS</b>							
Selenium	0.02	mg/kg-dry		0.02		SW6020	04/25/12 13:50 / smm
<b>METALS - TOTAL</b>							
Arsenic	2.7	mg/kg-dry		1.0		SW6020	03/20/12 18:58 / smm
Uranium	2.9	mg/kg-dry		1.0		SW6020	03/20/12 18:58 / smm
<b>RADIONUCLIDES</b>							
Radium 226	0.4	pCi/g-dry				E903.0	03/26/12 09:51 / trs
Radium 226 precision (±)	0.06	pCi/g-dry				E903.0	03/26/12 09:51 / trs
Radium 226 MDC	0.04	pCi/g-dry				E903.0	03/26/12 09:51 / trs

**Report Definitions:**  
RL - Analyte reporting limit.  
QCL - Quality control limit.  
MDC - Minimum detectable concentration

MCL - Maximum contaminant level.  
ND - Not detected at the reporting limit.



**LABORATORY ANALYTICAL REPORT**

Prepared by Casper, WY Branch

**Client:** Power Resources dba Cameco Resources  
**Project:** SR-HUP/ 15-20  
**Lab ID:** C12030423-030  
**Client Sample ID:** #14 9-3 [0"-6"]

**Report Date:** 04/26/12  
**Collection Date:** 03/09/12  
**Date Received:** 03/12/12  
**Matrix:** Soil

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
<b>PHYSICAL CHARACTERISTICS</b>							
Moisture	10.1	%		0.1		D2974	03/13/12 11:37 / jes
<b>DTPA EXTRACTABLE METALS</b>							
Selenium	ND	mg/kg-dry		0.02		SW6020	04/25/12 13:53 / smm
<b>METALS - TOTAL</b>							
Arsenic	3.2	mg/kg-dry		1.0		SW6020	03/20/12 19:00 / smm
Uranium	2.8	mg/kg-dry		1.0		SW6020	03/20/12 19:00 / smm
<b>RADIONUCLIDES</b>							
Radium 226	0.4	pCi/g-dry				E903.0	03/26/12 09:51 / trs
Radium 226 precision (±)	0.06	pCi/g-dry				E903.0	03/26/12 09:51 / trs
Radium 226 MDC	0.04	pCi/g-dry				E903.0	03/26/12 09:51 / trs

**Report Definitions:**  
 RL - Analyte reporting limit.  
 QCL - Quality control limit.  
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.  
 ND - Not detected at the reporting limit.



## QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Power Resources dba Cameco Resources

Report Date: 04/26/12

Project: SR-HUP/ 15-20

Work Order: C12030423

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
<b>Method: E903.0</b>										Batch: 33019
<b>Sample ID: C12030423-018AMS</b>	Sample Matrix Spike					Run: BERTHOLD 770-1_120319B		03/26/12 16:48		
Radium 226	2.0	pCi/g-dry		109		70	130			
<b>Sample ID: C12030423-018AMSD</b>	Sample Matrix Spike Duplicate					Run: BERTHOLD 770-1_120319B		03/26/12 23:36		
Radium 226	1.6	pCi/g-dry		85		70	130	20	20	
<b>Sample ID: LCS-33019</b>	Laboratory Control Sample					Run: BERTHOLD 770-1_120319B		03/26/12 23:36		
Radium 226	0.32	pCi/g-dry		108		70	130			
<b>Sample ID: MB-33019</b>	3 Method Blank					Run: BERTHOLD 770-1_120319B		03/26/12 23:36		
Radium 226	-0.002	pCi/g-dry								U
Radium 226 precision (±)	0.002	pCi/g-dry								
Radium 226 MDC	0.004	pCi/g-dry								
<b>Method: E903.0</b>										Batch: 33020
<b>Sample ID: C12030423-030AMS</b>	Sample Matrix Spike					Run: BERTHOLD 770-1_120319C		03/26/12 09:51		
Radium 226	2.1	pCi/g-dry		112		70	130			
<b>Sample ID: C12030423-030AMSD</b>	Sample Matrix Spike Duplicate					Run: BERTHOLD 770-1_120319C		03/26/12 09:51		
Radium 226	2.1	pCi/g-dry		117		70	130	3.4	22.6	
<b>Sample ID: LCS-33020</b>	Laboratory Control Sample					Run: BERTHOLD 770-1_120319C		03/26/12 09:51		
Radium 226	0.33	pCi/g-dry		109		70	130			
<b>Sample ID: MB-33020</b>	3 Method Blank					Run: BERTHOLD 770-1_120319C		03/26/12 09:51		
Radium 226	0.0006	pCi/g-dry								U
Radium 226 precision (±)	0.004	pCi/g-dry								
Radium 226 MDC	0.007	pCi/g-dry								

**Qualifiers:**

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

U - Not detected at minimum detectable concentration

## QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Power Resources dba Cameco Resources

Report Date: 04/26/12

Project: SR-HUP/ 15-20

Work Order: C12030423

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
<b>Method: SW6020</b>		Analytical Run: ICPMS2-C_120320B									
<b>Sample ID: ICV</b>	2	Initial Calibration Verification Standard								03/20/12 13:50	
Arsenic		0.0484	mg/L	0.0010	97	90	110				
Uranium		0.0493	mg/L	0.00030	99	90	110				
<b>Method: SW6020</b>		Batch: 33073									
<b>Sample ID: MB-33073</b>	2	Method Blank								Run: ICPMS2-C_120320B	03/20/12 17:41
Arsenic		0.03	mg/kg	0.01							
Uranium		0.006	mg/kg	0.005							
<b>Sample ID: LFB-33073</b>	2	Laboratory Fortified Blank								Run: ICPMS2-C_120320B	03/20/12 17:46
Arsenic		24	mg/kg	1.0	97	80	120				
Uranium		27	mg/kg	1.0	107	80	120				
<b>Sample ID: C12030423-016BDIL</b>	2	Serial Dilution								Run: ICPMS2-C_120320B	03/20/12 17:54
Arsenic		7.3	mg/kg-dry	1.0		0	0		10	N	
Uranium		4.9	mg/kg-dry	1.0		0	0	0.2	10		
<b>Sample ID: C12030423-020BMS3</b>	2	Sample Matrix Spike								Run: ICPMS2-C_120320B	03/20/12 18:18
Arsenic		32	mg/kg-dry	1.0	97	75	125				
Uranium		35	mg/kg-dry	1.0	110	75	125				
<b>Sample ID: C12030423-020BMSD</b>	2	Sample Matrix Spike Duplicate								Run: ICPMS2-C_120320B	03/20/12 18:21
Arsenic		33	mg/kg-dry	1.0	101	75	125	3.3	20		
Uranium		36	mg/kg-dry	1.0	113	75	125	2.5	20		
<b>Sample ID: C12030423-030BMS3</b>	2	Sample Matrix Spike								Run: ICPMS2-C_120320B	03/20/12 19:03
Arsenic		31	mg/kg-dry	1.0	100	75	125				
Uranium		34	mg/kg-dry	1.0	113	75	125				
<b>Sample ID: C12030423-030BMSD</b>	2	Sample Matrix Spike Duplicate								Run: ICPMS2-C_120320B	03/20/12 19:06
Arsenic		30	mg/kg-dry	1.0	98	75	125	1.6	20		
Uranium		35	mg/kg-dry	1.0	115	75	125	1.3	20		

**Qualifiers:**

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

N - The analyte concentration was not sufficiently high to calculate a RPD for the serial dilution test.



## QA/QC Summary Report

Prepared by Casper, WY Branch

Client: Power Resources dba Cameco Resources

Report Date: 04/26/12

Project: SR-HUP/ 15-20

Work Order: C12030423

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
<b>Method: SW6020</b>								Analytical Run: ICPMS2-C_120424A		
<b>Sample ID: ICV</b>		Initial Calibration Verification Standard						04/24/12 10:27		
Selenium		0.0486	mg/L	0.0010	97	90	110			
<b>Method: SW6020</b>								Batch: 33055		
<b>Sample ID: MB-33055</b>		Method Blank				Run: ICPMS2-C_120424A		04/24/12 14:06		
Selenium		ND	mg/kg-dry	0.3						
<b>Sample ID: LCS1-33055</b>		Laboratory Control Sample				Run: ICPMS2-C_120424A		04/24/12 14:09		
Selenium		0.0627	mg/kg-dry	0.0020	100	70	130			
<b>Sample ID: C12030423-001ADIL</b>		Serial Dilution				Run: ICPMS2-C_120424A		04/24/12 14:17		
Selenium		ND	mg/kg-dry	0.020		0	0			14
<b>Sample ID: C12030423-015ADUP</b>		Sample Duplicate				Run: ICPMS2-C_120424A		04/24/12 15:14		
Selenium		ND	mg/kg-dry	0.020						30
<b>Sample ID: C12030423-015AMS4</b>		Sample Matrix Spike				Run: ICPMS2-C_120424A		04/24/12 15:17		
Selenium		0.292	mg/kg-dry	0.020	129	75	125			S
<b>Sample ID: C12030423-015AMSD</b>		Sample Matrix Spike Duplicate				Run: ICPMS2-C_120424A		04/24/12 15:19		
Selenium		0.291	mg/kg-dry	0.020	129	75	125	0.2		20 S
<b>Method: SW6020</b>								Analytical Run: ICPMS2-C_120425A		
<b>Sample ID: ICV</b>		Initial Calibration Verification Standard						04/25/12 12:22		
Selenium		0.0508	mg/L	0.0010	102	90	110			
<b>Method: SW6020</b>								Batch: 33057		
<b>Sample ID: MB-33057</b>		Method Blank				Run: ICPMS2-C_120425A		04/25/12 12:45		
Selenium		ND	mg/kg-dry	0.3						
<b>Sample ID: LCS1-33057</b>		Laboratory Control Sample				Run: ICPMS2-C_120425A		04/25/12 12:48		
Selenium		0.0614	mg/kg-dry	0.020	123	70	130			
<b>Sample ID: C12030423-016ADIL</b>		Serial Dilution				Run: ICPMS2-C_120425A		04/25/12 12:56		
Selenium		ND	mg/kg-dry	0.020		0	0			14
<b>Sample ID: C12030423-030ADUP</b>		Sample Duplicate				Run: ICPMS2-C_120425A		04/25/12 13:55		
Selenium		0.0199	mg/kg-dry	0.020						30
<b>Sample ID: C12030423-030AMS4</b>		Sample Matrix Spike				Run: ICPMS2-C_120425A		04/25/12 13:58		
Selenium		0.259	mg/kg-dry	0.020	120	75	125			
<b>Sample ID: C12030423-030AMSD</b>		Sample Matrix Spike Duplicate				Run: ICPMS2-C_120425A		04/25/12 14:00		
Selenium		0.264	mg/kg-dry	0.020	122	75	125	1.9		20

**Qualifiers:**

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

S - Spike recovery outside of advisory limits.



## QA/QC Summary Report

Prepared by Casper, WY Branch

**Client:** Power Resources dba Cameco Resources

**Report Date:** 04/26/12

**Project:** SR-HUP/ 15-20

**Work Order:** C12030423

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
<b>Method: SW6020</b>		Analytical Run: ICPMS4-C_120315A									
<b>Sample ID: ICV</b>	2	Initial Calibration Verification Standard								03/15/12 15:00	
Arsenic		0.0503	mg/L	0.0010	101	90	110				
Uranium		0.0474	mg/L	0.00030	95	90	110				
<b>Sample ID: ICSA</b>	2	Interference Check Sample A								03/15/12 15:07	
Arsenic		5.06E-05	mg/L	0.0010							
Uranium		3.15E-05	mg/L	0.00030							
<b>Sample ID: ICSAB</b>	2	Interference Check Sample AB								03/15/12 15:14	
Arsenic		0.00985	mg/L	0.0010	99	70	130				
Uranium		8.38E-05	mg/L	0.00030							
<b>Method: SW6020</b>		Batch: 33031									
<b>Sample ID: MB-33031</b>	2	Method Blank								Run: ICPMS4-C_120315A	03/16/12 02:51
Arsenic		0.1	mg/kg	0.004							
Uranium		0.01	mg/kg	0.001							
<b>Sample ID: LFB-33031</b>	2	Laboratory Fortified Blank								Run: ICPMS4-C_120315A	03/16/12 03:05
Arsenic		27	mg/kg	1.0	107	80	120				
Uranium		27	mg/kg	1.0	108	80	120				
<b>Sample ID: C12030423-001BDIL</b>	2	Serial Dilution								Run: ICPMS4-C_120315A	03/16/12 03:26
Arsenic		4.2	mg/kg-dry	1.0		0	0	13	10	R	
Uranium		1.9	mg/kg-dry	1.0		0	0	7.5	10		
<b>Sample ID: C12030423-010BMS3</b>	2	Sample Matrix Spike								Run: ICPMS4-C_120315A	03/16/12 05:02
Arsenic		34	mg/kg-dry	1.0	105	75	125				
Uranium		33	mg/kg-dry	1.0	112	75	125				
<b>Sample ID: C12030423-010BMSD</b>	2	Sample Matrix Spike Duplicate								Run: ICPMS4-C_120315A	03/16/12 05:09
Arsenic		37	mg/kg-dry	1.0	116	75	125	8.5	20		
Uranium		34	mg/kg-dry	1.0	115	75	125	3.2	20		
<b>Sample ID: C12030423-015BMS3</b>	2	Sample Matrix Spike								Run: ICPMS4-C_120315A	03/16/12 07:55
Arsenic		33	mg/kg-dry	1.0	107	75	125				
Uranium		33	mg/kg-dry	1.0	113	75	125				
<b>Sample ID: C12030423-015BMSD</b>	2	Sample Matrix Spike Duplicate								Run: ICPMS4-C_120315A	03/16/12 08:02
Arsenic		32	mg/kg-dry	1.0	105	75	125	2.9	20		
Uranium		31	mg/kg-dry	1.0	107	75	125	5.9	20		

**Qualifiers:**

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration

R - RPD exceeds advisory limit.



# Workorder Receipt Checklist



Power Resources dba Cameco Resources

C12030423

Login completed by: Debra Williams

Date Received: 3/12/2012

Reviewed by: BL2000\cwagner

Received by: ckw

Reviewed Date: 4/2/2012

Carrier Hand Del  
name:

- Shipping container/cooler in good condition? Yes  No  Not Present
- Custody seals intact on shipping container/cooler? Yes  No  Not Present
- Custody seals intact on sample bottles? Yes  No  Not Present
- Chain of custody present? Yes  No
- Chain of custody signed when relinquished and received? Yes  No
- Chain of custody agrees with sample labels? Yes  No
- Samples in proper container/bottle? Yes  No
- Sample containers intact? Yes  No
- Sufficient sample volume for indicated test? Yes  No
- All samples received within holding time?  
(Exclude analyses that are considered field parameters  
such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.) Yes  No

Container/Temp Blank temperature: NA °C Soil

Water - VOA vials have zero headspace? Yes  No  No VOA vials submitted

Water - pH acceptable upon receipt? Yes  No  Not Applicable

Contact and Corrective Action Comments:

None



# Chain of Custody and Analytical Request Record 12-050

PLEASE PRINT (Provide as much information as possible.)

Company Name: <b>Cameco Resources</b>	Project Name, PWS, Permit, Etc. <b>SR-HUP/15-20</b>	Sample Origin State:	EPA/State Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/>
Report Mail Address: <b>PO Box 1210 Glenrock, WY 82637</b>	Contact Name: <b>Ken Garroute</b>	Phone/Fax: <b>307-358-6541</b>	Email: <b>x 476</b>
Invoice Address:	Invoice Contact & Phone:	Purchase Order:	Quote/Bottle Order:

Special Report/Formats:  <input type="checkbox"/> DW <input type="checkbox"/> EDD/EDT (Electronic Data) <input type="checkbox"/> POTW/WWTP <b>Format:</b> _____ <input type="checkbox"/> State: _____ <input type="checkbox"/> LEVEL IV <input type="checkbox"/> Other: _____ <input type="checkbox"/> NELAC	ANALYSIS REQUESTED  Number of Containers: _____ Sample Type: A W S V B O D W Air Water Soils Solids Vegetation Bioassay Other DW - Drinking Water  <b>U-Nat</b> <b>Ra-226</b> <b>Arsenic</b> <b>Selenium</b>	SEE ATTACHED  Standard Turnaround (TAT)	R U S H I	Contact ELI prior to RUSH sample submittal for charges and scheduling - See Instruction Page	Shipped by: <b>Hand</b> Cooler ID(s): <b>Chant</b>																																										
				Comments:	Receipt Temp <b>N/A °C</b> On Ice: Y <input checked="" type="checkbox"/> N Custody Seal On Bottle Y <input checked="" type="checkbox"/> N On Cooler Y <input checked="" type="checkbox"/> N Intact Y N Signature Match Y N																																										
<table border="1"> <thead> <tr> <th>SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)</th> <th>Collection Date</th> <th>Collection Time</th> <th>MATRIX</th> </tr> </thead> <tbody> <tr><td>1 #1 15-20 0-6"</td><td>3/7/12</td><td></td><td>Soil</td></tr> <tr><td>2 #2 15-20 0-6"</td><td>3/7/12</td><td></td><td></td></tr> <tr><td>3 #3 15-20 0-6"</td><td>3/7/12</td><td></td><td></td></tr> <tr><td>4 #4 15-20 0-6"</td><td>3/7/12</td><td></td><td></td></tr> <tr><td>5 #5 15-20 0-6"</td><td>3/7/12</td><td></td><td></td></tr> <tr><td>6 #6 15-20 0-6"</td><td>3/7/12</td><td></td><td></td></tr> <tr><td>7 #7 15-20 0-6"</td><td>3/7/12</td><td></td><td></td></tr> <tr><td>8 #8 15-20 0-6"</td><td>3/7/12</td><td></td><td></td></tr> <tr><td>9 #9 15-20 0-6"</td><td>3/9/12</td><td></td><td></td></tr> <tr><td>10 #10 15-20 0-6"</td><td>3/9/12</td><td></td><td></td></tr> </tbody> </table>	SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX	1 #1 15-20 0-6"	3/7/12		Soil	2 #2 15-20 0-6"	3/7/12			3 #3 15-20 0-6"	3/7/12			4 #4 15-20 0-6"	3/7/12			5 #5 15-20 0-6"	3/7/12			6 #6 15-20 0-6"	3/7/12			7 #7 15-20 0-6"	3/7/12			8 #8 15-20 0-6"	3/7/12			9 #9 15-20 0-6"	3/9/12			10 #10 15-20 0-6"	3/9/12			LABORATORY USE ONLY  <b>12030123</b>		
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX																																												
1 #1 15-20 0-6"	3/7/12		Soil																																												
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9 #9 15-20 0-6"	3/9/12																																														
10 #10 15-20 0-6"	3/9/12																																														

<b>Custody Record MUST be Signed</b>	Relinquished by (print): <b>Andy Griffiths</b>	Date/Time: <b>3/12/12 15:10</b>	Signature: <i>[Signature]</i>	Received by (print): <b>LARRY WILBANKS</b>	Date/Time: <b>3/12/12 15:10</b>	Signature: <i>[Signature]</i>
	Relinquished by (print): <b>LARRY WILBANKS</b>	Date/Time: <b>3/12/12 16:50</b>	Signature: <i>[Signature]</i>	Received by (print): <b>[Signature]</b>	Date/Time: <b>[Signature]</b>	Signature: <i>[Signature]</i>
	Sample Disposal: Return to Client:	Lab Disposal:	Relinquished by Laboratory: <b>[Signature]</b>	Date/Time: <b>3/12/12 16:40</b>	Signature: <i>[Signature]</i>	

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# Chain of Custody and Analytical Request Record

12-050

PLEASE PRINT (Provide as much information as possible.)

Company Name: <i>Cameco Resources</i>	Project Name, PWS, Permit, Etc. <i>SR-HUP/15-20</i>	Sample Origin State:	EPA/State Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/>
Report Mail Address: <i>PO Box 1210 Cokerock, WY 82637</i>	Contact Name: <i>Ken Garrate</i>	Phone/Fax: <i>307-352-6541 x476</i>	Email:
Invoice Address:	Invoice Contact & Phone:	Purchase Order:	Quote/Bottle Order:

Special Report/Formats:  <input type="checkbox"/> DW <input type="checkbox"/> POTW/WWTP <input type="checkbox"/> State: <input type="checkbox"/> Other:	<input type="checkbox"/> EDD/EDT (Electronic Data) Format: _____ <input type="checkbox"/> LEVEL IV <input type="checkbox"/> NELAC	ANALYSIS REQUESTED  U-Nat Ra-226 Arsenic Selenium	SEE ATTACHED  Standard Turnaround (TAT)	RUSH  Contact ELI prior to RUSH sample submittal for charges and scheduling - See Instruction Page	Shipped by:
					Receipt Temp _____ °C On Ice: Y N Custody Seal On Bottle Y N On Cooler Y N Intact Y N Signature Match Y N
SAMPLE IDENTIFICATION (Name, Location, Interval, etc.) Collection Date Collection Time MATRIX	Number of Containers Sample Type: A W S V B O DW Air Water Soils/Solids Vegetation: Biosassy Other DW - Drinking Water				LABORATORY USE ONLY  1203042B
<i>#11 15-20 0-6"</i>	<i>3/9/12</i>		<i>Soil</i>		
<i>#12 15-20 0-6"</i>					
<i>#13 15-20 0-6"</i>					
<i>#14 15-20 0-6"</i>					
<i>#15 15-20 0-6"</i>					
<i>#16 15-20 0-6"</i>					
<i>#1 9-3 0-6"</i>					
<i>#2 9-3 0-6"</i>					
<i>#3 9-3 0-6"</i>					
<i>#4 9-3 0-6"</i>					

<b>Custody Record MUST be Signed</b>	Relinquished by (print): <i>Mindy Griffiths</i>	Date/Time: <i>3/12/12 15:10</i>	Signature: <i>[Signature]</i>	Received by (print): <i>LARRY WILBANKS</i>	Date/Time: <i>3/12/12 15:10</i>	Signature: <i>[Signature]</i>
	Relinquished by (print): <i>LARRY WILBANKS</i>	Date/Time: <i>3/12/12 16:40</i>	Signature: <i>[Signature]</i>	Received by (print): <i>[Signature]</i>	Date/Time: <i>3/12/12 16:40</i>	Signature: <i>[Signature]</i>
	Sample Disposal: Return to Client:	Lab Disposal:	Received by Laboratory: <i>[Signature]</i>	Date/Time: <i>3/12/12 16:40</i>	Signature: <i>[Signature]</i>	

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# Chain of Custody and Analytical Request Record

12-050

Page 3 of 3

PLEASE PRINT (Provide as much information as possible.)

Company Name: <i>Cameco Resources</i>	Project Name, PWS, Permit, Etc. <i>SR-HUP/15-20</i>	Sample Origin State:	EPA/State Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/>
Report Mail Address: <i>PO Box 1210 Glenrock, WY 82637</i>	Contact Name: <i>Ken Garratt</i>	Phone/Fax: <i>307-358-6541 x476</i>	Email: Sampler: (Please Print)
Invoice Address:	Invoice Contact & Phone:	Purchase Order:	Quote/Bottle Order:

## Special Report/Formats:

- DW  
 POTW/WWTP  
 State: \_\_\_\_\_  
 Other: \_\_\_\_\_
- EDD/EDT (Electronic Data)  
 Format: \_\_\_\_\_  
 LEVEL IV  
 NELAC

Number of Containers  
Sample Type: A W S V B C DW  
Air Water Soils/Solids  
Vegetation Bioassay Other  
DW - Drinking Water

## ANALYSIS REQUESTED

<i>U-Next</i>	<i>Rn-226</i>	<i>Arsenic</i>	<i>Selenium</i>																	
---------------	---------------	----------------	-----------------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

SEE ATTACHED

Standard Turnaround (TAT)

R  
U  
S  
H

Contact ELI prior to RUSH sample submittal for charges and scheduling - See Instruction Page

Comments:

Shipped by:

Cooler ID(s):

Receipt Temp \_\_\_\_\_ °C

On Ice: Y N

Custody Seal

On Bottle Y N

On Cooler Y N

Intact Y N

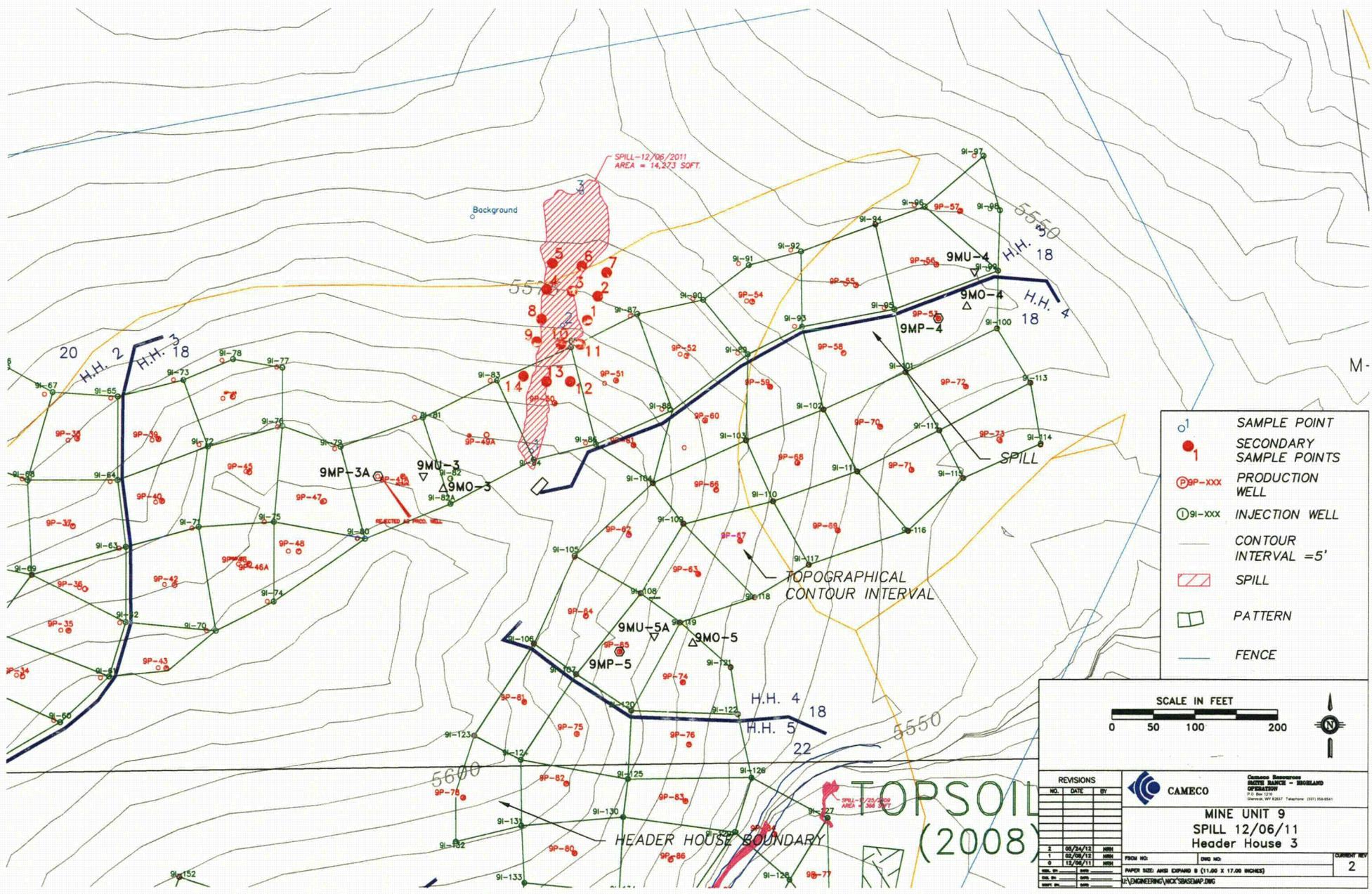
Signature Match Y N

LABORATORY USE ONLY  
*1/2030423*

SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX																		
<i>#5 9-3 0-6"</i>	<i>3/9/12</i>		<i>Soil</i>																		
<i>#6 9-3 0-6"</i>																					
<i>#7 9-3 0-6"</i>																					
<i>#8 9-3 0-6"</i>																					
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<i>#11 9-3 0-6"</i>																					
<i>#12 9-3 0-6"</i>																					
<i>#13 9-3 0-6"</i>																					
<i>#14 9-3 0-6"</i>																					

<b>Custody Record MUST be Signed</b>	Relinquished by (print): <i>Wendy Griffiths</i>	Date/Time: <i>3/12/12 15:10</i>	Signature: <i>[Signature]</i>	Received by (print): <i>LARRY WILSON</i>	Date/Time: <i>3/12/12 15:10</i>	Signature: <i>[Signature]</i>
	Relinquished by (print): <i>LARRY WILSON</i>	Date/Time: <i>3/12/12 16:40</i>	Signature: <i>[Signature]</i>	Received by (print): <i>[Signature]</i>	Date/Time: <i>3/12/12 16:40</i>	Signature: <i>[Signature]</i>
	Sample Disposal: Return to Client:	Lab Disposal:		Received by Laboratory: <i>[Signature]</i>	Date/Time: <i>3/12/12 16:40</i>	Signature: <i>[Signature]</i>

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- 1 SAMPLE POINT
- 1 SECONDARY SAMPLE POINTS
- ⊕ 9MP-XXX PRODUCTION WELL
- ⊙ 9I-XXX INJECTION WELL
- CONTOUR INTERVAL = 5'
- ▨ SPILL
- ▭ PATTERN
- FENCE

SCALE IN FEET  
0 50 100 200

REVISIONS

NO.	DATE	BY
1	02/24/11	MSH
2	02/25/11	MSH
3	02/25/11	MSH
4	02/25/11	MSH
5	02/25/11	MSH
6	02/25/11	MSH
7	02/25/11	MSH
8	02/25/11	MSH
9	02/25/11	MSH
10	02/25/11	MSH
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93	02/25/11	MSH
94	02/25/11	MSH
95	02/25/11	MSH
96	02/25/11	MSH
97	02/25/11	MSH
98	02/25/11	MSH
99	02/25/11	MSH
100	02/25/11	MSH

FROM NO. \_\_\_\_\_ DWS NO. \_\_\_\_\_ CURRENT REV. 2

PAPER SIZE: ANSI D (11.00 X 17.00 INCHES)

DATE: 02/25/11

BY: MSK

FILE: \\ENGINEERING\WORKSPACE\DWG

**CAMECO**

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**MINE UNIT 9  
 SPILL 12/06/11  
 Header House 3**

TOPSOIL  
(2008)