



## Sample Analysis Report

**Company:** Cameco Resources, Crow Butte Operation  
PO Box 169  
Crawford, NE 69339

**Date Reported** 1/9/2014  
**Report ID** S1312159001

**ProjectName:** Marsland Quarterly Shallow Wells  
**Lab ID:** S1312159-004  
**ClientSample ID:** BOW 2010-4A  
**COC:**

**WorkOrder:** S1312159  
**CollectionDate:** 12/10/2013  
**DateReceived:** 12/12/2013 1:19:00 PM  
**FieldSampler:**  
**Matrix:** Water

## Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
<b>Anions/Cations</b>							
Alkalinity, Total (As CaCO3)	38	mg/L		5	SM 2320B	12/13/2013 2317	KV
Alkalinity, Bicarbonate as HCO3	46	mg/L		1	SM 2320B	12/13/2013 2317	KV
Alkalinity, Carbonate as CO3	<1	mg/L		1	SM 2320B	12/13/2013 2317	KV
Chloride	367	mg/L		1	EPA 300.0	12/17/2013 1652	AMB
Fluoride	0.4	mg/L		0.1	SM 4500FC	12/13/2013 2317	KV
Nitrogen, Nitrate+Nitrite (as N)	<0.1	mg/L		0.1	EPA 353.2	12/16/2013 1432	RH
Sulfate	40	mg/L		1	EPA 300.0	12/17/2013 1652	AMB
Calcium	33	mg/L		1	EPA 200.7	12/13/2013 1553	DG
Magnesium	2	mg/L		1	EPA 200.7	12/13/2013 1553	DG
Potassium	23	mg/L		1	EPA 200.7	12/13/2013 1553	DG
Sodium	210	mg/L		1	EPA 200.7	12/13/2013 1553	DG
Nitrogen, Ammonia (As N)	<0.05	mg/L		0.05	EPA 350.1	12/17/2013 1546	RH
Silica as SiO2	26	mg/L		1	EPA 200.7	12/13/2013 1553	DG
<b>General Parameters</b>							
pH	8.1	s.u.		0.1	SM 4500 H B	12/13/2013 2317	KV
Electrical Conductivity	1420	µmhos/cm		1	SM 2510B	12/13/2013 2317	KV
Total Dissolved Solids (180)	730	mg/L		10	SM 2540	12/13/2013 1155	EC
Nitrogen, Nitrite (as N)	<0.1	mg/L	L	0.1	EPA 353.2	12/12/2013 000	WN
<b>Data Quality</b>							
Cation Sum	11.51	meq/L		0.01	SM 1030E	12/19/2013 1608	BC
Anion Sum	11.97	meq/L		0.01	SM 1030E	12/19/2013 1608	BC
Cation-Anion Balance (± 5%)	1.96	%		0.01	SM 1030E	12/19/2013 1608	BC
Solids, Total Dissolved (Calc)	720	mg/L		10	SM 1030E	12/19/2013 1608	BC
Calculated TDS/TDS Ratio (0.80-1.20)	1.00	dec. %		0.01	Calculation	01/09/2014 1535	WN

## These results apply only to the samples tested.

## RL - Reporting Limit

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level
- C Calculated Value
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- M Value exceeds Monthly Ave or MCL
- O Outside the Range of Dilutions

Reviewed by: Wade Nieuwsma  
Wade Nieuwsma, Assistant Laboratory Manager



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PO Box 169  
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**Date Reported** 1/9/2014  
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**ProjectName:** Marsland Quarterly Shallow Wells  
**Lab ID:** S1312159-004  
**ClientSample ID:** BOW 2010-4A  
**COC:**

**WorkOrder:** S1312159  
**CollectionDate:** 12/10/2013  
**DateReceived:** 12/12/2013 1:19:00 PM  
**FieldSampler:**  
**Matrix:** Water

#### Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
<b>Metals - Dissolved</b>							
Aluminum	<0.1	mg/L		0.1	EPA 200.7	12/13/2013 1553	DG
Arsenic	0.003	mg/L		0.001	EPA 200.8	12/13/2013 311	MS
Barium	0.1	mg/L		0.1	EPA 200.8	12/13/2013 311	MS
Boron	<0.1	mg/L		0.1	EPA 200.7	12/13/2013 1553	DG
Cadmium	<0.005	mg/L		0.005	EPA 200.8	12/13/2013 311	MS
Chromium	<0.05	mg/L		0.05	EPA 200.7	12/13/2013 1553	DG
Copper	<0.01	mg/L		0.01	EPA 200.8	12/13/2013 311	MS
Iron	<0.05	mg/L		0.05	EPA 200.7	12/13/2013 1553	DG
Lead	<0.001	mg/L		0.001	EPA 200.8	12/13/2013 311	MS
Manganese	<0.01	mg/L		0.01	EPA 200.7	12/13/2013 1553	DG
Mercury	<0.001	mg/L		0.001	EPA 245.1	12/17/2013 1210	CS
Molybdenum	<0.1	mg/L		0.1	EPA 200.8	12/13/2013 311	MS
Nickel	<0.05	mg/L		0.05	EPA 200.7	12/13/2013 1553	DG
Selenium	0.003	mg/L		0.001	EPA 200.8	12/13/2013 311	MS
Uranium	0.0008	mg/L		0.0003	EPA 200.8	12/13/2013 311	MS
Uranium Activity	0.5	pCi/L		0.2	Calculation	01/09/2014 1535	WN
Vanadium	<0.1	mg/L		0.1	EPA 200.8	12/13/2013 311	MS
Zinc	0.39	mg/L		0.01	EPA 200.7	12/13/2013 1553	DG
<b>Metals - Suspended</b>							
Uranium	<0.0003	mg/L		0.0003	EPA 200.8	12/18/2013 1756	MS
Uranium Activity	<0.2	pCi/L		0.2	Calculation	01/09/2014 1535	WN
<b>Radionuclides - Dissolved</b>							
Lead 210	<1	pCi/L		1	OTW01	01/03/2014 1446	SH
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	01/03/2014 1446	SH
Polonium 210	<1	pCi/L		1	OTW01	01/03/2014 1122	SH
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	01/03/2014 1122	SH
Radium 226	1.0	pCi/L		0.2	SM 7500 Ra-B	12/26/2013 1556	SH
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	12/26/2013 1556	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	12/30/2013 1234	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	12/30/2013 1234	MB
Thorium 229 Tracer (30-120)	120	%			ACW10	12/30/2013 1234	MB

These results apply only to the samples tested.

#### RL - Reporting Limit

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level
- C Calculated Value
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- M Value exceeds Monthly Ave or MCL
- O Outside the Range of Dilutions

Reviewed by: Wade Nieuwsma  
Wade Nieuwsma, Assistant Laboratory Manager



### Sample Analysis Report

**Company:** Cameco Resources, Crow Butte Operation  
PO Box 169  
Crawford, NE 69339

**Date Reported** 1/9/2014  
**Report ID** S1312159001

**ProjectName:** Marsland Quarterly Shallow Wells  
**Lab ID:** S1312159-004  
**ClientSample ID:** BOW 2010-4A  
**COC:**

**WorkOrder:** S1312159  
**CollectionDate:** 12/10/2013  
**DateReceived:** 12/12/2013 1:19:00 PM  
**FieldSampler:**  
**Matrix:** Water

#### Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
<b>Radionuclides - Suspended</b>							
Lead 210	<1	pCi/L		1	OTW01	01/07/2014 1152	SH
Lead 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	01/07/2014 1152	SH
Polonium 210	<1	pCi/L		1	OTW01	01/03/2014 1227	SH
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	01/03/2014 1227	SH
Radium 226	0.9	pCi/L		0.2	SM 7500 Ra-B	12/26/2013 1556	SH
Radium 226 (Suspended) Precision (±)	0.1	pCi/L			SM 7500 Ra-B	12/26/2013 1556	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	01/02/2014 919	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	01/02/2014 919	MB
Thorium 229 Tracer (30-120)	80	%			ACW10	01/02/2014 919	MB

These results apply only to the samples tested.

#### RL - Reporting Limit

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- \* Value exceeds Maximum Contaminant Level
  - C Calculated Value
  - H Holding times for preparation or analysis exceeded
  - L Analyzed by a contract laboratory
  - ND Not Detected at the Reporting Limit
  - S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- M Value exceeds Monthly Ave or MCL
- O Outside the Range of Dilutions

Reviewed by: Wade Nieuwsma  
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

Company: Cameco Resources, Crow Butte Operation
PO Box 169
Crawford, NE 69339

Date Reported 3/27/2014
Report ID S1402335001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1402335-007
ClientSample ID: BOW 2010-4A
COC: WEB

WorkOrder: S1402335
CollectionDate: 2/25/2014
DateReceived: 2/27/2014 11:49:00 AM
FieldSampler:
Matrix: Water

Comments

Table with 7 columns: Analyses, Result, Units, Qual, RL, Method, Date Analyzed/Init. Rows include Anions/Cations (Alkalinity, Chloride, etc.), General Parameters (pH, Conductivity), and Data Quality (Cation Sum, Anion Sum).

These results apply only to the samples tested.

RL - Reporting Limit

- Qualifiers: B Analyte detected in the associated Method Blank, E Value above quantitation range, J Analyte detected below quantitation limits, M Value exceeds Monthly Ave or MCL or is less than LCL, O Outside the Range of Dilutions, X Matrix Effect, C Calculated Value, H Holding times for preparation or analysis exceeded, L Analyzed by a contract laboratory, ND Not Detected at the Reporting Limit, S Spike Recovery outside accepted recovery limits

Reviewed by: [Signature]
Wade Nieuwsma, Assistant Laboratory Manager



## Sample Analysis Report

**Company:** Cameco Resources, Crow Butte Operation  
PO Box 169  
Crawford, NE 69339

**Date Reported** 3/27/2014  
**Report ID** S1402335001

**ProjectName:** Marsland Quarterly Shallow Wells  
**Lab ID:** S1402335-007  
**ClientSample ID:** BOW 2010-4A  
**COC:** WEB

**WorkOrder:** S1402335  
**CollectionDate:** 2/25/2014  
**DateReceived:** 2/27/2014 11:49:00 AM  
**FieldSampler:**  
**Matrix:** Water


## Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
<b>Metals - Dissolved</b>							
Aluminum	<0.1	mg/L		0.1	EPA 200.7	02/28/2014 1514	DG
Arsenic	0.005	mg/L		0.001	EPA 200.8	02/27/2014 2112	MS
Barium	<0.1	mg/L		0.1	EPA 200.8	02/27/2014 2112	MS
Boron	0.1	mg/L		0.1	EPA 200.7	02/28/2014 1514	DG
Cadmium	<0.005	mg/L		0.005	EPA 200.8	02/27/2014 2112	MS
Chromium	<0.05	mg/L		0.05	EPA 200.7	02/28/2014 1514	DG
Copper	0.02	mg/L		0.01	EPA 200.8	02/27/2014 2112	MS
Iron	<0.05	mg/L		0.05	EPA 200.7	02/28/2014 1514	DG
Lead	0.003	mg/L		0.001	EPA 200.8	02/27/2014 2112	MS
Manganese	<0.01	mg/L		0.01	EPA 200.7	02/28/2014 1514	DG
Mercury	<0.001	mg/L		0.001	EPA 245.1	03/14/2014 942	CJB
Molybdenum	<0.1	mg/L		0.1	EPA 200.8	02/27/2014 2112	MS
Nickel	<0.05	mg/L		0.05	EPA 200.7	02/28/2014 1514	DG
Selenium	0.002	mg/L		0.001	EPA 200.8	02/27/2014 2112	MS
Uranium	0.0014	mg/L		0.0003	EPA 200.8	02/27/2014 2112	MS
Uranium Activity	0.9	pCi/L		0.2	Calculation	03/25/2014 1148	WN
Vanadium	<0.1	mg/L		0.1	EPA 200.8	02/27/2014 2112	MS
Zinc	1.90	mg/L		0.01	EPA 200.7	02/28/2014 1514	DG
<b>Metals - Suspended</b>							
Uranium	<0.0003	mg/L		0.0003	EPA 200.8	03/06/2014 2212	MS
Uranium Activity	<0.2	pCi/L		0.2	Calculation	03/25/2014 1148	WN
<b>Radionuclides - Dissolved</b>							
Lead 210	<1	pCi/L		1	OTW01	03/11/2014 1423	SH
Lead 210 (Dissolved) Precision (±)	0.4	pCi/L			OTW01	03/11/2014 1423	SH
Polonium 210	<1	pCi/L		1	OTW01	03/05/2014 1205	SH
Polonium 210 (Dissolved) Precision (±)	0.2	pCi/L			OTW01	03/05/2014 1205	SH
Radium 226	0.8	pCi/L		0.2	SM 7500 Ra-B	03/14/2014 1522	SH
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	03/14/2014 1522	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	03/17/2014 1606	MB
Thorium 230 Precision (±)	0.05	pCi/L			ACW10	03/17/2014 1606	MB
Thorium 229 Tracer (30-120)	98	%			ACW10	03/17/2014 1606	MB

These results apply only to the samples tested.

## RL - Reporting Limit

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	C	Calculated Value
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
	M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
	O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
	X	Matrix Effect		

Reviewed by:   
Wade Nieuwsma, Assistant Laboratory Manager



### Sample Analysis Report

**Company:** Cameco Resources, Crow Butte Operation  
PO Box 169  
Crawford, NE 69339

**Date Reported** 3/27/2014  
**Report ID** S1402335001

**ProjectName:** Marsland Quarterly Shallow Wells  
**Lab ID:** S1402335-007  
**ClientSample ID:** BOW 2010-4A  
**COC:** WEB

**WorkOrder:** S1402335  
**CollectionDate:** 2/25/2014  
**DateReceived:** 2/27/2014 11:49:00 AM  
**FieldSampler:**  
**Matrix:** Water

**Comments**

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/lnit	
<b>Radionuclides - Suspended</b>							
Lead 210	1.9	pCi/L		1	OTW01	03/14/2014 1704	SH
Lead 210 (Suspended) Precision (±)	0.5	pCi/L			OTW01	03/14/2014 1704	SH
Polonium 210	<1	pCi/L		1	OTW01	03/17/2014 1351	SH
Polonium 210 (Suspended) Precision (±)	0.2	pCi/L			OTW01	03/17/2014 1351	SH
Radium 226	0.5	pCi/L		0.2	SM 7500 Ra-B	03/18/2014 1010	SH
Radium 226 (Suspended) Precision (±)	0.1	pCi/L			SM 7500 Ra-B	03/18/2014 1010	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	03/24/2014 1127	MB
Thorium 230 Precision (±)	0.1	pCi/L			ACW10	03/24/2014 1127	MB
Thorium 229 Tracer (30-120)	74	%			ACW10	03/24/2014 1127	MB

**These results apply only to the samples tested.**

**RL - Reporting Limit**

- |                    |   |  |    |  |
|--------------------|---|--|----|--|
| <b>Qualifiers:</b> | B | Analyte detected in the associated Method Blank      | C  | Calculated Value                                   |
|                    | E | Value above quantitation range                       | H  | Holding times for preparation or analysis exceeded |
|                    | J | Analyte detected below quantitation limits           | L  | Analyzed by a contract laboratory                  |
|                    | M | Value exceeds Monthly Ave or MCL or is less than LCL | ND | Not Detected at the Reporting Limit                |
|                    | O | Outside the Range of Dilutions                       | S  | Spike Recovery outside accepted recovery limits    |
|                    | X | Matrix Effect  |    |  |

Reviewed by: Wade Nieuwsma  
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

Company: Cameco Resources, Crow Butte Operation
PO Box 169
Crawford, NE 69339

Date Reported 8/8/2014
Report ID S1406337001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1406337-003
ClientSample ID: BOW 2010-4A
COC: WEB

WorkOrder: S1406337
CollectionDate: 6/16/2014
DateReceived: 6/18/2014 10:42:00 AM
FieldSampler: WN
Matrix: Water

Comments

Table with columns: Analyses, Result, Units, Qual, RL, Method, Date Analyzed/Init. Rows include Anions/Cations (Alkalinity, Chloride, etc.), General Parameters (pH, Conductivity), and Data Quality (Cation Sum, Anion Sum).

These results apply only to the samples tested.

RL - Reporting Limit

- Qualifiers: B Analyte detected in the associated Method Blank, E Value above quantitation range, J Analyte detected below quantitation limits, M Value exceeds Monthly Ave or MCL or is less than LCL, O Outside the Range of Dilutions, X Matrix Effect, C Calculated Value, H Holding times for preparation or analysis exceeded, L Analyzed by a contract laboratory, ND Not Detected at the Reporting Limit, S Spike Recovery outside accepted recovery limits

Reviewed by: [Signature]
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

Company: Cameco Resources, Crow Butte Operation
PO Box 169
Crawford, NE 69339

Date Reported 8/8/2014
Report ID S1406337001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1406337-003
ClientSample ID: BOW 2010-4A
COC: WEB

WorkOrder: S1406337
CollectionDate: 6/16/2014
DateReceived: 6/18/2014 10:42:00 AM
FieldSampler: WN
Matrix: Water

Comments

Table with columns: Analyses, Result, Units, Qual, RL, Method, Date Analyzed/Init. Rows include Metals - Dissolved (Aluminum, Arsenic, Barium, Boron, Cadmium, Chromium, Copper, Iron, Lead, Manganese, Mercury, Molybdenum, Nickel, Selenium, Uranium, Uranium Activity, Vanadium, Zinc) and Metals - Suspended (Uranium, Uranium Activity) and Radionuclides - Dissolved (Lead 210, Polonium 210, Radium 226, Thorium 230, Thorium 229 Tracer).

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RL - Reporting Limit

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Reviewed by: [Signature]
Wade Nieuwsma, Assistant Laboratory Manager





Sample Analysis Report

Company: Cameco Resources, Crow Butte Operation
PO Box 169
Crawford, NE 69339

Date Reported 8/8/2014
Report ID S1406337001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1406337-003
ClientSample ID: BOW 2010-4A
COC: WEB

WorkOrder: S1406337
CollectionDate: 6/16/2014
DateReceived: 6/18/2014 10:42:00 AM
FieldSampler: WN
Matrix: Water

Comments

Table with 7 columns: Analyses, Result, Units, Qual, RL, Method, Date Analyzed/Init. Rows include Radionuclides - Suspended, Lead 210, Polonium 210, Radium 226, and Thorium 230.

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RL - Reporting Limit

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Reviewed by: [Signature]
Wade Nieuwsma, Assistant Laboratory Manager



## Sample Analysis Report

Company: Cameco Resources, Crow Butte Operation  
PO Box 169  
Crawford, NE 69339

Date Reported 11/17/2014  
Report ID S1409415001

ProjectName: Marsland Quarterly Shallow Wells  
Lab ID: S1409415-007  
ClientSample ID: BOW-2010-4A  
COC: WEB

WorkOrder: S1409415  
CollectionDate: 9/17/2014  
DateReceived: 9/19/2014 1:05:00 PM  
FieldSampler:  
Matrix: Water

## Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
<b>Anions/Cations</b>							
Alkalinity, Total (As CaCO <sub>3</sub> )	63	mg/L		5	SM 2320B	09/22/2014 2253	BT
Alkalinity, Bicarbonate as HCO <sub>3</sub>	73	mg/L		1	SM 2320B	09/22/2014 2253	BT
Alkalinity, Carbonate as CO <sub>3</sub>	2	mg/L		1	SM 2320B	09/22/2014 2253	BT
Chloride	267	mg/L		1	EPA 300.0	09/24/2014 1037	AB
Fluoride	0.4	mg/L		0.1	SM 4500FC	09/22/2014 2253	BT
Nitrogen, Nitrate+Nitrite (as N)	<0.1	mg/L		0.1	EPA 353.2	09/25/2014 1811	AMB
Sulfate	41	mg/L		1	EPA 300.0	09/23/2014 2114	AB
Calcium	22	mg/L		1	EPA 200.7	09/22/2014 1442	DG
Magnesium	2	mg/L		1	EPA 200.7	09/22/2014 1442	DG
Potassium	17	mg/L		1	EPA 200.7	09/22/2014 1442	DG
Sodium	177	mg/L		1	EPA 200.7	09/22/2014 1442	DG
Nitrogen, Ammonia (As N)	<0.05	mg/L		0.05	EPA 350.1	09/24/2014 1644	AMB
Silica as SiO <sub>2</sub>	37	mg/L		1	EPA 200.7	09/22/2014 1442	DG
<b>General Parameters</b>							
pH	8.4	s.u.		0.1	SM 4500 H B	09/22/2014 2253	BT
Electrical Conductivity	1070	µmhos/cm		1	SM 2510B	09/22/2014 2253	BT
Total Dissolved Solids (180)	610	mg/L		10	SM 2540	09/19/2014 1846	IR
Nitrogen, Nitrite (as N)	<0.1	mg/L	L	0.1	EPA 353.2	09/17/2014 000	WN
<b>Data Quality</b>							
Cation Sum	9.37	meq/L		0.01	SM 1030E	10/01/2014 943	JJ
Anion Sum	9.66	meq/L		0.01	SM 1030E	10/01/2014 943	JJ
Cation-Anion Balance (± 5%)	1.49	%		0.01	SM 1030E	10/01/2014 943	JJ
Solids, Total Dissolved (Calc)	600	mg/L		10	SM 1030E	10/01/2014 943	JJ
Calculated TDS/TDS Ratio (0.80-1.20)	1.02	dec. %		0.01	Calculation	10/16/2014 922	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:	B	Analyte detected in the associated Method Blank	C	Calculated Value
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
	M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
	O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
	X	Matrix Effect		

Reviewed by:   
Wade Nieuwsma, Assistant Laboratory Manager



## Sample Analysis Report

Company: Cameco Resources, Crow Butte Operation  
PO Box 169  
Crawford, NE 69339

Date Reported 11/17/2014  
Report ID S1409415001

ProjectName: Marsland Quarterly Shallow Wells  
Lab ID: S1409415-007  
ClientSample ID: BOW-2010-4A  
COC: WEB

WorkOrder: S1409415  
CollectionDate: 9/17/2014  
DateReceived: 9/19/2014 1:05:00 PM  
FieldSampler:  
Matrix: Water


## Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
<b>Metals - Dissolved</b>							
Aluminum	<0.05	mg/L		0.05	EPA 200.7	09/22/2014 1442	DG
Arsenic	0.005	mg/L		0.001	EPA 200.8	09/20/2014 538	MS
Barium	<0.1	mg/L		0.1	EPA 200.8	09/20/2014 538	MS
Boron	0.1	mg/L		0.1	EPA 200.7	09/22/2014 1442	DG
Cadmium	<0.005	mg/L		0.005	EPA 200.8	09/20/2014 538	MS
Chromium	<0.05	mg/L		0.05	EPA 200.7	09/22/2014 1442	DG
Copper	<0.01	mg/L		0.01	EPA 200.8	09/20/2014 538	MS
Iron	<0.05	mg/L		0.05	EPA 200.7	09/22/2014 1442	DG
Lead	0.002	mg/L		0.001	EPA 200.8	09/20/2014 538	MS
Manganese	<0.01	mg/L		0.01	EPA 200.7	09/22/2014 1442	DG
Mercury	<0.001	mg/L		0.001	EPA 245.1	09/26/2014 1027	BJ
Molybdenum	<0.1	mg/L		0.1	EPA 200.8	09/20/2014 538	MS
Nickel	<0.05	mg/L		0.05	EPA 200.7	09/22/2014 1442	DG
Selenium	0.004	mg/L		0.001	EPA 200.8	09/20/2014 538	MS
Uranium	0.0016	mg/L		0.0003	EPA 200.8	09/20/2014 538	MS
Uranium Activity	1.1	pCi/L		0.2	Calculation	10/16/2014 922	WN
Vanadium	<0.1	mg/L		0.1	EPA 200.8	09/20/2014 538	MS
Zinc	0.63	mg/L		0.01	EPA 200.7	09/22/2014 1442	DG
<b>Metals - Suspended</b>							
Uranium	<0.0003	mg/L		0.0003	EPA 200.8	10/14/2014 1959	MS
Uranium Activity	<0.2	pCi/L		0.2	Calculation	10/16/2014 922	WN
<b>Radionuclides - Dissolved</b>							
Lead 210	<1	pCi/L		1	OTW01	10/28/2014 1243	MB
Lead 210 (Dissolved) Precision (±)	0.5	pCi/L			OTW01	10/28/2014 1243	MB
Polonium 210	<1	pCi/L		1	OTW01	10/30/2014 1652	MB
Polonium 210 (Dissolved) Precision (±)	0.2	pCi/L			OTW01	10/30/2014 1652	MB
Radium 226	0.5	pCi/L		0.2	SM 7500 Ra-B	10/15/2014 1509	MB
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	10/15/2014 1509	MB
Thorium 230	<0.2	pCi/L		0.2	ACW10	10/22/2014 1313	MB
Thorium 230 Precision (±)	0.1	pCi/L			ACW10	10/22/2014 1313	MB
Thorium 229 Tracer (30-120)	79	%			ACW10	10/22/2014 1313	MB

These results apply only to the samples tested.

## RL - Reporting Limit

Qualifiers:	B	Analyte detected in the associated Method Blank	C	Calculated Value
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
	M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
	O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
	X	Matrix Effect		

Reviewed by:   
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

Company: Cameco Resources, Crow Butte Operation
PO Box 169
Crawford, NE 69339

Date Reported: 11/17/2014
Report ID: S1409415001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1409415-007
ClientSample ID: BOW-2010-4A
COC: WEB

WorkOrder: S1409415
CollectionDate: 9/17/2014
DateReceived: 9/19/2014 1:05:00 PM
FieldSampler:
Matrix: Water

Comments

Table with 7 columns: Analyses, Result, Units, Qual, RL, Method, Date Analyzed/Init. Rows include Radionuclides - Suspended, Lead 210, Polonium 210, Radium 226, Thorium 230, and Thorium 229 Tracer.

These results apply only to the samples tested.

RL - Reporting Limit

- Qualifiers: B Analyte detected in the associated Method Blank, E Value above quantitation range, J Analyte detected below quantitation limits, M Value exceeds Monthly Ave or MCL or is less than LCL, O Outside the Range of Dilutions, X Matrix Effect, C Calculated Value, H Holding times for preparation or analysis exceeded, L Analyzed by a contract laboratory, ND Not Detected at the Reporting Limit, S Spike Recovery outside accepted recovery limits

Reviewed by: [Signature]
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

Company: Cameco Resources, Crow Butte Operation
PO Box 169
Crawford, NE 69339

Date Reported 1/10/2014
Report ID S1312240001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1312240-001
ClientSample ID: BOW 2010-5
COC: WEB

WorkOrder: S1312240
CollectionDate: 12/16/2013
DateReceived: 12/18/2013 10:53:00 AM
FieldSampler:
Matrix: Water

Comments

Table with 7 columns: Analyses, Result, Units, Qual, RL, Method, Date Analyzed/Init. Rows include Anions/Cations (Alkalinity, Chloride, etc.), General Parameters (pH, Conductivity, etc.), and Data Quality (Cation Sum, etc.).

These results apply only to the samples tested.

RL - Reporting Limit

- Qualifiers: \* Value exceeds Maximum Contaminant Level
C Calculated Value
H Holding times for preparation or analysis exceeded
L Analyzed by a contract laboratory
ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
M Value exceeds Monthly Ave or MCL
O Outside the Range of Dilutions

Reviewed by: [Signature]
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

Company: Cameco Resources, Crow Butte Operation
PO Box 169
Crawford, NE 69339

Date Reported 1/10/2014
Report ID S1312240001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1312240-001
ClientSample ID: BOW 2010-5
COC: WEB

WorkOrder: S1312240
CollectionDate: 12/16/2013
DateReceived: 12/18/2013 10:53:00 AM
FieldSampler:
Matrix: Water

Comments

Table with 7 columns: Analyses, Result, Units, Qual, RL, Method, Date Analyzed/Init. Rows include Metals - Dissolved (Aluminum, Arsenic, Barium, Boron, Cadmium, Chromium, Copper, Iron, Lead, Manganese, Mercury, Molybdenum, Nickel, Selenium, Uranium, Uranium Activity, Vanadium, Zinc), Metals - Suspended (Uranium, Uranium Activity), and Radionuclides - Dissolved (Lead 210, Polonium 210, Radium 226, Thorium 230, Thorium 229 Tracer).

These results apply only to the samples tested.

RL - Reporting Limit

- Qualifiers: \* Value exceeds Maximum Contaminant Level
C Calculated Value
H Holding times for preparation or analysis exceeded
L Analyzed by a contract laboratory
ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
M Value exceeds Monthly Ave or MCL
O Outside the Range of Dilutions

Reviewed by: Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

Company: Cameco Resources, Crow Butte Operation
PO Box 169
Crawford, NE 69339

Date Reported 1/10/2014
Report ID S1312240001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1312240-001
ClientSample ID: BOW 2010-5
COC: WEB

WorkOrder: S1312240
CollectionDate: 12/16/2013
DateReceived: 12/18/2013 10:53:00 AM
FieldSampler:
Matrix: Water

Comments

Table with 7 columns: Analyses, Result, Units, Qual, RL, Method, Date Analyzed/Init. Rows include Radionuclides - Suspended, Lead 210, Polonium 210, Radium 226, Thorium 230, and Thorium 229 Tracer.

These results apply only to the samples tested.

RL - Reporting Limit

- Qualifiers: \* Value exceeds Maximum Contaminant Level
C Calculated Value
H Holding times for preparation or analysis exceeded
L Analyzed by a contract laboratory
ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
M Value exceeds Monthly Ave or MCL
O Outside the Range of Dilutions

Reviewed by: [Signature]
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

Company: Cameco Resources, Crow Butte Operation
PO Box 169
Crawford, NE 69339

Date Reported 3/31/2014
Report ID S1402356001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1402356-006
ClientSample ID: BOW 2010-5
COC:

WorkOrder: S1402356
CollectionDate: 2/26/2014 1:40:00 PM
DateReceived: 2/28/2014 11:04:00 AM
FieldSampler:
Matrix: Water

Comments

Table with 7 columns: Analyses, Result, Units, Qual, RL, Method, Date Analyzed/Init. Rows include Anions/Cations (Alkalinity, Chloride, etc.), General Parameters (pH, Conductivity), and Data Quality (Cation Sum, Anion Sum).

These results apply only to the samples tested.

RL - Reporting Limit

- Qualifiers: B Analyte detected in the associated Method Blank, E Value above quantitation range, J Analyte detected below quantitation limits, M Value exceeds Monthly Ave or MCL or is less than LCL, O Outside the Range of Dilutions, X Matrix Effect, C Calculated Value, H Holding times for preparation or analysis exceeded, L Analyzed by a contract laboratory, ND Not Detected at the Reporting Limit, S Spike Recovery outside accepted recovery limits

Reviewed by: [Signature]
Wade Nieuwsma, Assistant Laboratory Manager





## Sample Analysis Report

**Company:** Cameco Resources, Crow Butte Operation  
PO Box 169  
Crawford, NE 69339

**Date Reported** 3/31/2014  
**Report ID** S1402356001

**ProjectName:** Marsland Quarterly Shallow Wells  
**Lab ID:** S1402356-006  
**ClientSample ID:** BOW 2010-5  
**COC:**

**WorkOrder:** S1402356  
**CollectionDate:** 2/26/2014 1:40:00 PM  
**DateReceived:** 2/28/2014 11:04:00 AM  
**FieldSampler:**  
**Matrix:** Water

## Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
<b>Metals - Dissolved</b>							
Aluminum	<0.1	mg/L		0.1	EPA 200.7	03/03/2014 1617	DG
Arsenic	0.003	mg/L		0.001	EPA 200.8	02/28/2014 2312	MS
Barium	0.1	mg/L		0.1	EPA 200.8	02/28/2014 2312	MS
Boron	<0.1	mg/L		0.1	EPA 200.7	03/03/2014 1617	DG
Cadmium	<0.005	mg/L		0.005	EPA 200.8	02/28/2014 2312	MS
Chromium	<0.05	mg/L		0.05	EPA 200.7	03/03/2014 1617	DG
Copper	<0.01	mg/L		0.01	EPA 200.8	02/28/2014 2312	MS
Iron	<0.05	mg/L		0.05	EPA 200.7	03/03/2014 1617	DG
Lead	<0.001	mg/L		0.001	EPA 200.8	02/28/2014 2312	MS
Manganese	<0.01	mg/L		0.01	EPA 200.7	03/03/2014 1617	DG
Mercury	<0.001	mg/L		0.001	EPA 245.1	03/14/2014 1015	CJB
Molybdenum	<0.1	mg/L		0.1	EPA 200.8	02/28/2014 2312	MS
Nickel	<0.05	mg/L		0.05	EPA 200.7	03/03/2014 1617	DG
Selenium	<0.001	mg/L		0.001	EPA 200.8	02/28/2014 2312	MS
Uranium	0.0076	mg/L		0.0003	EPA 200.8	02/28/2014 2312	MS
Uranium Activity	5.2	pCi/L		0.2	Calculation	03/25/2014 1153	WN
Vanadium	<0.1	mg/L		0.1	EPA 200.8	02/28/2014 2312	MS
Zinc	0.13	mg/L		0.01	EPA 200.7	03/03/2014 1617	DG
<b>Metals - Suspended</b>							
Uranium	<0.0003	mg/L		0.0003	EPA 200.8	03/06/2014 2348	MS
Uranium Activity	<0.2	pCi/L		0.2	Calculation	03/25/2014 1153	WN
<b>Radionuclides - Dissolved</b>							
Lead 210	<1	pCi/L		1	OTW01	03/13/2014 1440	SH
Lead 210 (Dissolved) Precision (±)	0.4	pCi/L			OTW01	03/13/2014 1440	SH
Polonium 210	<1	pCi/L		1	OTW01	03/14/2014 1210	SH
Polonium 210 (Dissolved) Precision (±)	0.2	pCi/L			OTW01	03/14/2014 1210	SH
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	03/17/2014 1111	SH
Radium 226 Precision (±)	0.04	pCi/L			SM 7500 Ra-B	03/17/2014 1111	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	03/20/2014 1041	MB
Thorium 230 Precision (±)	0.03	pCi/L			ACW10	03/20/2014 1041	MB
Thorium 229 Tracer (30-120)	77	%			ACW10	03/20/2014 1041	MB

## These results apply only to the samples tested.

## RL - Reporting Limit

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	C	Calculated Value
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
	M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
	O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
	X	Matrix Effect		

Reviewed by: Wade Nieuwsma  
Wade Nieuwsma, Assistant Laboratory Manager



### Sample Analysis Report

**Company:** Cameco Resources, Crow Butte Operation  
PO Box 169  
Crawford, NE 69339

**Date Reported** 3/31/2014  
**Report ID** S1402356001

**ProjectName:** Marsland Quarterly Shallow Wells  
**Lab ID:** S1402356-006  
**ClientSample ID:** BOW 2010-5  
**COC:**

**WorkOrder:** S1402356  
**CollectionDate:** 2/26/2014 1:40:00 PM  
**DateReceived:** 2/28/2014 11:04:00 AM  
**FieldSampler:**  
**Matrix:** Water

#### Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
<b>Radionuclides - Suspended</b>							
Lead 210	<1	pCi/L		1	OTW01	03/21/2014 1326	SH
Lead 210 (Suspended) Precision (±)	0.4	pCi/L			OTW01	03/21/2014 1326	SH
Polonium 210	<1	pCi/L		1	OTW01	03/19/2014 1527	SH
Polonium 210 (Suspended) Precision (±)	0.2	pCi/L			OTW01	03/19/2014 1527	SH
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	03/18/2014 1402	SH
Radium 226 (Suspended) Precision (±)	0.02	pCi/L			SM 7500 Ra-B	03/18/2014 1402	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	03/24/2014 2046	MB
Thorium 230 Precision (±)	0.03	pCi/L			ACW10	03/24/2014 2046	MB
Thorium 229 Tracer (30-120)	89	%			ACW10	03/24/2014 2046	MB

#### These results apply only to the samples tested.

#### RL - Reporting Limit

- Qualifiers:**
- B Analyte detected in the associated Method Blank
  - E Value above quantitation range
  - J Analyte detected below quantitation limits
  - M Value exceeds Monthly Ave or MCL or is less than LCL
  - O Outside the Range of Dilutions
  - X Matrix Effect

- C Calculated Value
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Reviewed by: Wade Nieuwsma  
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

Company: Carneco Resources, Crow Butte Operation
PO Box 169
Crawford, NE 69339

Date Reported 8/8/2014
Report ID S1406386001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1406386-006
ClientSample ID: BOW 2010-5
COC: WEB

WorkOrder: S1406386
CollectionDate: 6/17/2014 10:56:00 AM
DateReceived: 6/19/2014 11:30:00 AM
FieldSampler: WN
Matrix: Water

Comments

Table with 7 columns: Analyses, Result, Units, Qual, RL, Method, Date Analyzed/Init. Rows include Anions/Cations (Alkalinity, Chloride, etc.), General Parameters (pH, Conductivity, etc.), and Data Quality (Cation Sum, Anion Sum, etc.).

These results apply only to the samples tested.

RL - Reporting Limit

- Qualifiers: B Analyte detected in the associated Method Blank, E Value above quantitation range, J Analyte detected below quantitation limits, M Value exceeds Monthly Ave or MCL or is less than LCL, O Outside the Range of Dilutions, X Matrix Effect, C Calculated Value, H Holding times for preparation or analysis exceeded, L Analyzed by a contract laboratory, ND Not Detected at the Reporting Limit, S Spike Recovery outside accepted recovery limits

Reviewed by: [Signature]
Wade Nieuwsma, Assistant Laboratory Manager



## Sample Analysis Report

**Company:** Cameco Resources, Crow Butte Operation  
PO Box 169  
Crawford, NE 69339

**Date Reported** 8/8/2014  
**Report ID** S1406386001

**ProjectName:** Marsland Quarterly Shallow Wells  
**Lab ID:** S1406386-006  
**ClientSample ID:** BOW 2010-5  
**COC:** WEB

**WorkOrder:** S1406386  
**CollectionDate:** 6/17/2014 10:56:00 AM  
**DateReceived:** 6/19/2014 11:30:00 AM  
**FieldSampler:** WN  
**Matrix:** Water

## Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
<b>Metals - Dissolved</b>							
Aluminum	<0.1	mg/L		0.1	EPA 200.7	06/20/2014 1556	DG
Arsenic	0.003	mg/L		0.001	EPA 200.8	06/23/2014 2352	MS
Barium	0.1	mg/L		0.1	EPA 200.8	06/23/2014 2352	MS
Boron	<0.1	mg/L		0.1	EPA 200.7	06/20/2014 1556	DG
Cadmium	<0.005	mg/L		0.005	EPA 200.8	06/23/2014 2352	MS
Chromium	<0.05	mg/L		0.05	EPA 200.7	06/20/2014 1556	DG
Copper	<0.01	mg/L		0.01	EPA 200.8	06/23/2014 2352	MS
Iron	<0.05	mg/L		0.05	EPA 200.7	06/20/2014 1556	DG
Lead	<0.001	mg/L		0.001	EPA 200.8	06/23/2014 2352	MS
Manganese	<0.01	mg/L		0.01	EPA 200.7	06/20/2014 1556	DG
Mercury	<0.001	mg/L		0.001	EPA 245.1	07/01/2014 1025	CJB
Molybdenum	<0.1	mg/L		0.1	EPA 200.8	06/23/2014 2352	MS
Nickel	<0.05	mg/L		0.05	EPA 200.7	06/20/2014 1556	DG
Selenium	0.001	mg/L		0.001	EPA 200.8	06/23/2014 2352	MS
Uranium	0.0070	mg/L		0.0003	EPA 200.8	06/23/2014 2352	MS
Uranium Activity	4.7	pCi/L		0.2	Calculation	07/28/2014 1348	WN
Vanadium	<0.1	mg/L		0.1	EPA 200.8	06/23/2014 2352	MS
Zinc	0.13	mg/L		0.01	EPA 200.7	06/20/2014 1556	DG
<b>Metals - Suspended</b>							
Uranium	<0.0003	mg/L		0.0003	EPA 200.8	06/24/2014 1514	MS
Uranium Activity	<0.2	pCi/L		0.2	Calculation	07/28/2014 1348	WN
<b>Radionuclides - Dissolved</b>							
Lead 210	<1	pCi/L		1	OTW01	07/10/2014 1328	MB
Lead 210 (Dissolved) Precision (±)	0.4	pCi/L			OTW01	07/10/2014 1328	MB
Polonium 210	<1	pCi/L		1	OTW01	07/10/2014 1222	MB
Polonium 210 (Dissolved) Precision (±)	0.1	pCi/L			OTW01	07/10/2014 1222	MB
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	07/08/2014 943	MB
Radium 226 Precision (±)	0.0	pCi/L			SM 7500 Ra-B	07/08/2014 943	MB
Thorium 230	<0.2	pCi/L		0.2	ACW10	07/07/2014 1616	MB
Thorium 230 Precision (±)	0.0	pCi/L			ACW10	07/07/2014 1616	MB
Thorium 229 Tracer (30-120)	85	%			ACW10	07/07/2014 1616	MB

These results apply only to the samples tested.

## RL - Reporting Limit

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	C	Calculated Value
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
	M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
	O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
	X	Matrix Effect		

Reviewed by: Wade Nieuwsma  
Wade Nieuwsma, Assistant Laboratory Manager



### Sample Analysis Report

**Company:** Cameco Resources, Crow Butte Operation  
PO Box 169  
Crawford, NE 69339

**Date Reported** 8/8/2014  
**Report ID** S1406386001

**ProjectName:** Marsland Quarterly Shallow Wells  
**Lab ID:** S1406386-006  
**ClientSample ID:** BOW 2010-5  
**COC:** WEB

**WorkOrder:** S1406386  
**CollectionDate:** 6/17/2014 10:56:00 AM  
**DateReceived:** 6/19/2014 11:30:00 AM  
**FieldSampler:** WN  
**Matrix:** Water

#### Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
<b>Radionuclides - Suspended</b>							
Lead 210	1.5	pCi/L		1	OTW01	07/21/2014 1209	MB
Lead 210 (Suspended) Precision (±)	0.6	pCi/L			OTW01	07/21/2014 1209	MB
Polonium 210	<1	pCi/L		1	OTW01	07/11/2014 1637	MB
Polonium 210 (Suspended) Precision (±)	0.1	pCi/L			OTW01	07/11/2014 1637	MB
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	07/10/2014 958	MB
Radium 226 (Suspended) Precision (±)	0.0	pCi/L			SM 7500 Ra-B	07/10/2014 958	MB
Thorium 230	<0.2	pCi/L		0.2	ACW10	07/08/2014 811	MB
Thorium 230 Precision (±)	0.0	pCi/L			ACW10	07/08/2014 811	MB
Thorium 229 Tracer (30-120)	83	%			ACW10	07/08/2014 811	MB

These results apply only to the samples tested.

#### RL - Reporting Limit

- |                    |   |  |    |  |
|--------------------|---|--|----|--|
| <b>Qualifiers:</b> | B | Analyte detected in the associated Method Blank      | C  | Calculated Value                                   |
|                    | E | Value above quantitation range                       | H  | Holding times for preparation or analysis exceeded |
|                    | J | Analyte detected below quantitation limits           | L  | Analyzed by a contract laboratory                  |
|                    | M | Value exceeds Monthly Ave or MCL or is less than LCL | ND | Not Detected at the Reporting Limit                |
|                    | O | Outside the Range of Dilutions                       | S  | Spike Recovery outside accepted recovery limits    |
|                    | X | Matrix Effect  |    |  |

Reviewed by: Wade Nieuwsma  
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

Company: Cameco Resources, Crow Butte Operation
PO Box 169
Crawford, NE 69339

Date Reported 11/17/2014
Report ID S1409415001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1409415-008
ClientSample ID: BOW-2010-5
COC: WEB

WorkOrder: S1409415
CollectionDate: 9/17/2014
DateReceived: 9/19/2014 1:05:00 PM
FieldSampler:
Matrix: Water

Comments

Table with columns: Analyses, Result, Units, Qual, RL, Method, Date Analyzed/Init. Rows include Anions/Cations (Alkalinity, Chloride, etc.), General Parameters (pH, Conductivity), and Data Quality (Cation Sum, Anion Sum).

These results apply only to the samples tested.

RL - Reporting Limit

- Qualifiers: B Analyte detected in the associated Method Blank, E Value above quantitation range, J Analyte detected below quantitation limits, M Value exceeds Monthly Ave or MCL or is less than LCL, O Outside the Range of Dilutions, X Matrix Effect, C Calculated Value, H Holding times for preparation or analysis exceeded, L Analyzed by a contract laboratory, ND Not Detected at the Reporting Limit, S Spike Recovery outside accepted recovery limits

Reviewed by: [Signature]
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

Company: Cameco Resources, Crow Butte Operation
PO Box 169
Crawford, NE 69339

Date Reported: 11/17/2014
Report ID: S1409415001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1409415-008
ClientSample ID: BOW-2010-5
COC: WEB

WorkOrder: S1409415
CollectionDate: 9/17/2014
DateReceived: 9/19/2014 1:05:00 PM
FieldSampler:
Matrix: Water

Comments

Table with columns: Analyses, Result, Units, Qual, RL, Method, Date Analyzed/Init. Rows include Metals - Dissolved (Aluminum, Arsenic, Barium, Boron, Cadmium, Chromium, Copper, Iron, Lead, Manganese, Mercury, Molybdenum, Nickel, Selenium, Uranium, Uranium Activity, Vanadium, Zinc), Metals - Suspended (Uranium, Uranium Activity), and Radionuclides - Dissolved (Lead 210, Polonium 210, Radium 226, Thorium 230, Thorium 229 Tracer).

These results apply only to the samples tested.

RL - Reporting Limit

- Qualifiers: B Analyte detected in the associated Method Blank, E Value above quantitation range, J Analyte detected below quantitation limits, M Value exceeds Monthly Ave or MCL or is less than LCL, O Outside the Range of Dilutions, X Matrix Effect, C Calculated Value, H Holding times for preparation or analysis exceeded, L Analyzed by a contract laboratory, ND Not Detected at the Reporting Limit, S Spike Recovery outside accepted recovery limits

Reviewed by: [Signature]
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

Company: Cameco Resources, Crow Butte Operation
PO Box 169
Crawford, NE 69339

Date Reported 11/17/2014
Report ID S1409415001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1409415-008
ClientSample ID: BOW-2010-5
COC: WEB

WorkOrder: S1409415
CollectionDate: 9/17/2014
DateReceived: 9/19/2014 1:05:00 PM
FieldSampler:
Matrix: Water

Comments

Table with 7 columns: Analyses, Result, Units, Qual, RL, Method, Date Analyzed/Init. Rows include Radionuclides - Suspended, Lead 210, Polonium 210, Radium 226, Thorium 230, and Thorium 229 Tracer.

These results apply only to the samples tested.

RL - Reporting Limit

- Qualifiers: B Analyte detected in the associated Method Blank, E Value above quantitation range, J Analyte detected below quantitation limits, M Value exceeds Monthly Ave or MCL or is less than LCL, O Outside the Range of Dilutions, X Matrix Effect, C Calculated Value, H Holding times for preparation or analysis exceeded, L Analyzed by a contract laboratory, ND Not Detected at the Reporting Limit, S Spike Recovery outside accepted recovery limits

Reviewed by: [Signature]
Wade Nieuwsma, Assistant Laboratory Manager





Sample Analysis Report

Company: Cameco Resources, Crow Butte Operation
PO Box 169
Crawford, NE 69339

Date Reported 1/10/2014
Report ID S1312240001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1312240-002
ClientSample ID: BOW 2010-6
COC: WEB

WorkOrder: S1312240
CollectionDate: 12/16/2013
DateReceived: 12/18/2013 10:53:00 AM
FieldSampler:
Matrix: Water

Comments

Table with 7 columns: Analyses, Result, Units, Qual, RL, Method, Date Analyzed/Init. Rows include Anions/Cations (Alkalinity, Chloride, etc.), General Parameters (pH, Conductivity, etc.), and Data Quality (Cation Sum, Anion Sum, etc.).

These results apply only to the samples tested.

RL - Reporting Limit

- Qualifiers: \* Value exceeds Maximum Contaminant Level
C Calculated Value
H Holding times for preparation or analysis exceeded
L Analyzed by a contract laboratory
ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
M Value exceeds Monthly Ave or MCL
O Outside the Range of Dilutions

Reviewed by: [Signature]
Wade Nieuwsma, Assistant Laboratory Manager



### Sample Analysis Report

**Company:** Cameco Resources, Crow Butte Operation  
PO Box 169  
Crawford, NE 69339

**Date Reported** 1/10/2014  
**Report ID** S1312240001

**ProjectName:** Marsland Quarterly Shallow Wells  
**Lab ID:** S1312240-002  
**ClientSample ID:** BOW 2010-6  
**COC:** WEB

**WorkOrder:** S1312240  
**CollectionDate:** 12/16/2013  
**DateReceived:** 12/18/2013 10:53:00 AM  
**FieldSampler:**  
**Matrix:** Water

#### Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
<b>Metals - Dissolved</b>							
Aluminum	<0.1	mg/L		0.1	EPA 200.7	12/20/2013 927	DG
Arsenic	0.004	mg/L		0.001	EPA 200.8	12/18/2013 1916	MS
Barium	<0.1	mg/L		0.1	EPA 200.8	12/18/2013 1916	MS
Boron	<0.1	mg/L		0.1	EPA 200.7	12/20/2013 927	DG
Cadmium	<0.005	mg/L		0.005	EPA 200.8	12/18/2013 1916	MS
Chromium	<0.05	mg/L		0.05	EPA 200.7	12/20/2013 927	DG
Copper	<0.01	mg/L		0.01	EPA 200.8	12/18/2013 1916	MS
Iron	<0.05	mg/L		0.05	EPA 200.7	12/20/2013 927	DG
Lead	<0.001	mg/L		0.001	EPA 200.8	12/18/2013 1916	MS
Manganese	<0.01	mg/L		0.01	EPA 200.7	12/20/2013 927	DG
Mercury	<0.001	mg/L		0.001	EPA 245.1	12/23/2013 1243	CS
Molybdenum	<0.1	mg/L		0.1	EPA 200.8	12/18/2013 1916	MS
Nickel	<0.05	mg/L		0.05	EPA 200.7	12/20/2013 927	DG
Selenium	0.001	mg/L		0.001	EPA 200.8	12/18/2013 1916	MS
Uranium	0.0049	mg/L		0.0003	EPA 200.8	12/18/2013 1916	MS
Uranium Activity	3.3	pCi/L		0.2	Calculation	01/10/2014 822	WN
Vanadium	<0.1	mg/L		0.1	EPA 200.8	12/18/2013 1916	MS
Zinc	0.03	mg/L		0.01	EPA 200.7	12/20/2013 927	DG
<b>Metals - Suspended</b>							
Uranium	<0.0003	mg/L		0.0003	EPA 200.8	12/20/2013 1652	MS
Uranium Activity	<0.2	pCi/L		0.2	Calculation	01/10/2014 822	WN
<b>Radionuclides - Dissolved</b>							
Lead 210	<1	pCi/L		1	OTW01	01/08/2014 1233	SH
Lead 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	01/08/2014 1233	SH
Polonium 210	<1	pCi/L		1	OTW01	01/08/2014 1235	SH
Polonium 210 (Dissolved) Precision (±)	NA	pCi/L			OTW01	01/08/2014 1235	SH
Radium 226	0.3	pCi/L		0.2	SM 7500 Ra-B	12/30/2013 1608	SH
Radium 226 Precision (±)	0.1	pCi/L			SM 7500 Ra-B	12/30/2013 1608	SH
Thorium 230	<0.2	pCi/L		0.2	ACW10	01/07/2014 803	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	01/07/2014 803	MB
Thorium 229 Tracer (30-120)	85	%			ACW10	01/07/2014 803	MB

These results apply only to the samples tested.

RL - Reporting Limit

**Qualifiers:**

- \* Value exceeds Maximum Contaminant Level
- C Calculated Value
- H Holding times for preparation or analysis exceeded
- L Analyzed by a contract laboratory
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- M Value exceeds Monthly Ave or MCL
- O Outside the Range of Dilutions

Reviewed by: Wade Nieuwsma  
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

Company: Cameco Resources, Crow Butte Operation
PO Box 169
Crawford, NE 69339

Date Reported 1/10/2014
Report ID S1312240001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1312240-002
ClientSample ID: BOW 2010-6
COC: WEB

WorkOrder: S1312240
CollectionDate: 12/16/2013
DateReceived: 12/18/2013 10:53:00 AM
FieldSampler:
Matrix: Water

Comments

Table with 7 columns: Analyses, Result, Units, Qual, RL, Method, Date Analyzed/Init. Rows include Radionuclides - Suspended, Lead 210, Polonium 210, Radium 226, Thorium 230, and Thorium 229 Tracer.

These results apply only to the samples tested.

RL - Reporting Limit

- Qualifiers: \* Value exceeds Maximum Contaminant Level
C Calculated Value
H Holding times for preparation or analysis exceeded
L Analyzed by a contract laboratory
ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
M Value exceeds Monthly Ave or MCL
O Outside the Range of Dilutions

Reviewed by: [Signature]
Wade Nieuwsma, Assistant Laboratory Manager



**Sample Analysis Report**

**Company:** Cameco Resources, Crow Butte Operation  
 PO Box 169  
 Crawford, NE 69339

**Date Reported** 3/31/2014  
**Report ID** S1402356001

**ProjectName:** Marsland Quarterly Shallow Wells  
**Lab ID:** S1402356-007  
**ClientSample ID:** BOW 2010-6  
**COC:**

**WorkOrder:** S1402356  
**CollectionDate:** 2/26/2014 2:10:00 PM  
**DateReceived:** 2/28/2014 11:04:00 AM  
**FieldSampler:**  
**Matrix:** Water

**Comments**

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
<b>Anions/Cations</b>							
Alkalinity, Total (As CaCO3)	139	mg/L		5	SM 2320B	03/12/2014 1503	KV
Alkalinity, Bicarbonate as HCO3	162	mg/L		1	SM 2320B	03/12/2014 1503	KV
Alkalinity, Carbonate as CO3	4	mg/L		1	SM 2320B	03/12/2014 1503	KV
Chloride	11	mg/L		1	EPA 300.0	03/10/2014 1852	AMB
Fluoride	0.6	mg/L		0.1	SM 4500FC	03/01/2014 757	KV
Nitrogen, Nitrate+Nitrite (as N)	0.9	mg/L		0.1	EPA 353.2	03/03/2014 1523	RH
Sulfate	11	mg/L		1	EPA 300.0	03/12/2014 029	AMB
Calcium	31	mg/L		1	EPA 200.7	03/12/2014 1256	DG
Magnesium	6	mg/L		1	EPA 200.7	03/12/2014 1256	DG
Potassium	5	mg/L		1	EPA 200.7	03/12/2014 1256	DG
Sodium	25	mg/L		1	EPA 200.7	03/12/2014 1256	DG
Nitrogen, Ammonia (As N)	<0.05	mg/L		0.05	EPA 350.1	03/07/2014 1021	RH
Silica as SiO2	60	mg/L		1	EPA 200.7	03/03/2014 1630	DG
<b>General Parameters</b>							
pH	8.4	s.u.		0.1	SM 4500 H B	03/01/2014 757	KV
Electrical Conductivity	330	µmhos/cm		1	SM 2510B	03/01/2014 757	KV
Total Dissolved Solids (180)	260	mg/L		10	SM 2540	03/03/2014 1514	EC
Nitrogen, Nitrite (as N)	<0.1	mg/L	L	0.1	EPA 353.2	02/27/2014 000	WN
<b>Data Quality</b>							
Cation Sum	3.25	meq/L		0.01	SM 1030E	03/19/2014 1248	JJ
Anion Sum	3.42	meq/L		0.01	SM 1030E	03/19/2014 1248	JJ
Cation-Anion Balance (± 5%)	2.61	%		0.01	SM 1030E	03/19/2014 1248	JJ
Solids, Total Dissolved (Calc)	240	mg/L		10	SM 1030E	03/19/2014 1248	JJ
Calculated TDS/TDS Ratio (0.80-1.20)	1.08	dec. %		0.01	Calculation	03/25/2014 1153	WN

These results apply only to the samples tested.

RL - Reporting Limit

- |                    |  |  |
|--------------------|--|--|
| <b>Qualifiers:</b> | B Analyte detected in the associated Method Blank      | C Calculated Value                                   |
|                    | E Value above quantitation range                       | H Holding times for preparation or analysis exceeded |
|                    | J Analyte detected below quantitation limits           | L Analyzed by a contract laboratory                  |
|                    | M Value exceeds Monthly Ave or MCL or is less than LCL | ND Not Detected at the Reporting Limit               |
|                    | O Outside the Range of Dilutions                       | S Spike Recovery outside accepted recovery limits    |
|                    | X Matrix Effect  |  |

Reviewed by: Wade Nieuwsma  
 Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

Company: Cameco Resources, Crow Butte Operation
PO Box 169
Crawford, NE 69339

Date Reported 3/31/2014
Report ID S1402356001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1402356-007
ClientSample ID: BOW 2010-6
COC:

WorkOrder: S1402356
CollectionDate: 2/26/2014 2:10:00 PM
DateReceived: 2/28/2014 11:04:00 AM
FieldSampler:
Matrix: Water

Comments

Table with 7 columns: Analyses, Result, Units, Qual, RL, Method, Date Analyzed/Init. Rows include Metals - Dissolved (Aluminum, Arsenic, Barium, Boron, Cadmium, Chromium, Copper, Iron, Lead, Manganese, Mercury, Molybdenum, Nickel, Selenium, Uranium, Uranium Activity, Vanadium, Zinc), Metals - Suspended (Uranium, Uranium Activity), and Radionuclides - Dissolved (Lead 210, Polonium 210, Radium 226, Thorium 230, Thorium 229 Tracer).

These results apply only to the samples tested.

RL - Reporting Limit

- Qualifiers: B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
M Value exceeds Monthly Ave or MCL or is less than LCL
O Outside the Range of Dilutions
X Matrix Effect

- C Calculated Value
H Holding times for preparation or analysis exceeded
L Analyzed by a contract laboratory
ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted recovery limits

Reviewed by: [Signature]
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

Company: Cameco Resources, Crow Butte Operation
PO Box 169
Crawford, NE 69339

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1402356-007
ClientSample ID: BOW 2010-6
COC:

Date Reported 3/31/2014
Report ID S1402356001

WorkOrder: S1402356
CollectionDate: 2/26/2014 2:10:00 PM
DateReceived: 2/28/2014 11:04:00 AM
FieldSampler:
Matrix: Water

Comments

Table with 7 columns: Analyses, Result, Units, Qual, RL, Method, Date Analyzed/Init. Rows include Radionuclides - Suspended, Lead 210, Polonium 210, Radium 226, Thorium 230, and Thorium 229 Tracer.

These results apply only to the samples tested.

RL - Reporting Limit

- Qualifiers: B Analyte detected in the associated Method Blank, E Value above quantitation range, J Analyte detected below quantitation limits, M Value exceeds Monthly Ave or MCL or is less than LCL, O Outside the Range of Dilutions, X Matrix Effect, C Calculated Value, H Holding times for preparation or analysis exceeded, L Analyzed by a contract laboratory, ND Not Detected at the Reporting Limit, S Spike Recovery outside accepted recovery limits

Reviewed by: [Signature]
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

Company: Cameco Resources, Crow Butte Operation
PO Box 169
Crawford, NE 69339

Date Reported 7/28/2014
Report ID S1406413001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1406413-001
ClientSample ID: BOW 2010-6
COC: WEB

WorkOrder: S1406413
CollectionDate: 6/19/2014
DateReceived: 6/20/2014 10:53:00 AM
FieldSampler: WN
Matrix: Water

Comments

Table with columns: Analyses, Result, Units, Qual, RL, Method, Date Analyzed/Init. Rows include Anions/Cations (Alkalinity, Chloride, etc.), General Parameters (pH, Conductivity, etc.), and Data Quality (Cation Sum, Anion Sum, etc.).

These results apply only to the samples tested.

RL - Reporting Limit

- Qualifiers: B Analyte detected in the associated Method Blank, E Value above quantitation range, J Analyte detected below quantitation limits, M Value exceeds Monthly Ave or MCL or is less than LCL, O Outside the Range of Dilutions, X Matrix Effect, C Calculated Value, H Holding times for preparation or analysis exceeded, L Analyzed by a contract laboratory, ND Not Detected at the Reporting Limit, S Spike Recovery outside accepted recovery limits

Reviewed by: [Signature]
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

Company: Cameco Resources, Crow Butte Operation
PO Box 169
Crawford, NE 69339

Date Reported 7/28/2014
Report ID S1406413001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1406413-001
ClientSample ID: BOW 2010-6
COC: WEB

WorkOrder: S1406413
CollectionDate: 6/19/2014
DateReceived: 6/20/2014 10:53:00 AM
FieldSampler: WN
Matrix: Water

Comments

Table with columns: Analyses, Result, Units, Qual, RL, Method, Date Analyzed/Init. Rows include Metals - Dissolved (Aluminum, Arsenic, Barium, Boron, Cadmium, Chromium, Copper, Iron, Lead, Manganese, Mercury, Molybdenum, Nickel, Selenium, Uranium, Uranium Activity, Vanadium, Zinc) and Metals - Suspended (Uranium, Uranium Activity) and Radionuclides - Dissolved (Lead 210, Polonium 210, Radium 226, Thorium 230, Thorium 229 Tracer).

These results apply only to the samples tested.

RL - Reporting Limit

- Qualifiers: B Analyte detected in the associated Method Blank, E Value above quantitation range, J Analyte detected below quantitation limits, M Value exceeds Monthly Ave or MCL or is less than LCL, O Outside the Range of Dilutions, X Matrix Effect, C Calculated Value, H Holding times for preparation or analysis exceeded, L Analyzed by a contract laboratory, ND Not Detected at the Reporting Limit, S Spike Recovery outside accepted recovery limits

Reviewed by: [Signature]
Wade Nieuwsma, Assistant Laboratory Manager





### Sample Analysis Report

**Company:** Cameco Resources, Crow Butte Operation  
PO Box 169  
Crawford, NE 69339

**Date Reported** 7/28/2014  
**Report ID** S1406413001

**ProjectName:** Marsland Quarterly Shallow Wells  
**Lab ID:** S1406413-001  
**ClientSample ID:** BOW 2010-6  
**COC:** WEB

**WorkOrder:** S1406413  
**CollectionDate:** 6/19/2014  
**DateReceived:** 6/20/2014 10:53:00 AM  
**FieldSampler:** WN  
**Matrix:** Water

#### Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
<b>Radionuclides - Suspended</b>							
Lead 210	1.0	pCi/L		1	OTW01	07/11/2014 1256	MB
Lead 210 (Suspended) Precision (±)	0.4	pCi/L			OTW01	07/11/2014 1256	MB
Polonium 210	ND	pCi/L		1	OTW01	07/11/2014 1637	MB
Polonium 210 (Suspended) Precision (±)	NA	pCi/L			OTW01	07/11/2014 1637	MB
Radium 226	ND	pCi/L		0.2	SM 7500 Ra-B	07/10/2014 958	MB
Radium 226 (Suspended) Precision (±)	NA	pCi/L			SM 7500 Ra-B	07/10/2014 958	MB
Thorium 230	ND	pCi/L		0.2	ACW10	07/08/2014 811	MB
Thorium 230 Precision (±)	NA	pCi/L			ACW10	07/08/2014 811	MB
Thorium 229 Tracer (30-120)	91	%			ACW10	07/08/2014 811	MB

These results apply only to the samples tested.

RL - Reporting Limit

<b>Qualifiers:</b>	B Analyte detected in the associated Method Blank	C Calculated Value
	E Value above quantitation range	H Holding times for preparation or analysis exceeded
	J Analyte detected below quantitation limits	L Analyzed by a contract laboratory
	M Value exceeds Monthly Ave or MCL or is less than LCL	ND Not Detected at the Reporting Limit
	O Outside the Range of Dilutions	S Spike Recovery outside accepted recovery limits
	X Matrix Effect	

Reviewed by: Wade Nieuwsma  
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

Company: Cameco Resources, Crow Butte Operation
PO Box 169
Crawford, NE 69339

Date Reported 11/17/2014
Report ID S1409415001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1409415-009
ClientSample ID: BOW-2010-6
COC: WEB

WorkOrder: S1409415
CollectionDate: 9/17/2014
DateReceived: 9/19/2014 1:05:00 PM
FieldSampler:
Matrix: Water

Comments

Table with 7 columns: Analyses, Result, Units, Qual, RL, Method, Date Analyzed/Init. Rows include Anions/Cations (Alkalinity, Chloride, etc.), General Parameters (pH, Conductivity), and Data Quality (Cation Sum, Anion Sum).

These results apply only to the samples tested.

RL - Reporting Limit

- Qualifiers: B Analyte detected in the associated Method Blank, E Value above quantitation range, J Analyte detected below quantitation limits, M Value exceeds Monthly Ave or MCL or is less than LCL, O Outside the Range of Dilutions, X Matrix Effect, C Calculated Value, H Holding times for preparation or analysis exceeded, L Analyzed by a contract laboratory, ND Not Detected at the Reporting Limit, S Spike Recovery outside accepted recovery limits

Reviewed by: [Signature]
Wade Nieuwsma, Assistant Laboratory Manager



## Sample Analysis Report

Company: Cameco Resources, Crow Butte Operation  
PO Box 169  
Crawford, NE 69339

Date Reported 11/17/2014  
Report ID S1409415001

ProjectName: Marsland Quarterly Shallow Wells  
Lab ID: S1409415-009  
ClientSample ID: BOW-2010-6  
COC: WEB

WorkOrder: S1409415  
CollectionDate: 9/17/2014  
DateReceived: 9/19/2014 1:05:00 PM  
FieldSampler:  
Matrix: Water


## Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
<b>Metals - Dissolved</b>							
Aluminum	<0.05	mg/L		0.05	EPA 200.7	09/22/2014 1447	DG
Arsenic	0.005	mg/L		0.001	EPA 200.8	09/20/2014 549	MS
Barium	0.1	mg/L		0.1	EPA 200.8	09/20/2014 549	MS
Boron	<0.1	mg/L		0.1	EPA 200.7	09/22/2014 1447	DG
Cadmium	<0.005	mg/L		0.005	EPA 200.8	09/20/2014 549	MS
Chromium	<0.05	mg/L		0.05	EPA 200.7	09/22/2014 1447	DG
Copper	<0.01	mg/L		0.01	EPA 200.8	09/20/2014 549	MS
Iron	<0.05	mg/L		0.05	EPA 200.7	09/22/2014 1447	DG
Lead	<0.001	mg/L		0.001	EPA 200.8	09/20/2014 549	MS
Manganese	<0.01	mg/L		0.01	EPA 200.7	09/22/2014 1447	DG
Mercury	<0.001	mg/L		0.001	EPA 245.1	09/26/2014 1044	BJ
Molybdenum	<0.1	mg/L		0.1	EPA 200.8	09/20/2014 549	MS
Nickel	<0.05	mg/L		0.05	EPA 200.7	09/22/2014 1447	DG
Selenium	0.001	mg/L		0.001	EPA 200.8	09/20/2014 549	MS
Uranium	0.0052	mg/L		0.0003	EPA 200.8	09/20/2014 549	MS
Uranium Activity	3.5	pCi/L		0.2	Calculation	10/16/2014 922	WN
Vanadium	<0.1	mg/L		0.1	EPA 200.8	09/20/2014 549	MS
Zinc	0.06	mg/L		0.01	EPA 200.7	09/22/2014 1447	DG
<b>Metals - Suspended</b>							
Uranium	<0.0003	mg/L		0.0003	EPA 200.8	10/14/2014 2010	MS
Uranium Activity	<0.2	pCi/L		0.2	Calculation	10/16/2014 922	WN
<b>Radionuclides - Dissolved</b>							
Lead 210	<1	pCi/L		1	OTW01	10/28/2014 1453	MB
Lead 210 (Dissolved) Precision (±)	0.5	pCi/L			OTW01	10/28/2014 1453	MB
Polonium 210	<1	pCi/L		1	OTW01	12/03/2014 956	MB
Polonium 210 (Dissolved) Precision (±)	0.1	pCi/L			OTW01	12/03/2014 956	MB
Radium 226	<0.2	pCi/L		0.2	SM 7500 Ra-B	10/15/2014 1509	MB
Radium 226 Precision (±)	0.05	pCi/L			SM 7500 Ra-B	10/15/2014 1509	MB
Thorium 230	<0.2	pCi/L		0.2	ACW10	10/22/2014 1313	MB
Thorium 230 Precision (±)	0.0	pCi/L			ACW10	10/22/2014 1313	MB
Thorium 229 Tracer (30-120)	84	%			ACW10	10/22/2014 1313	MB

These results apply only to the samples tested.

## RL - Reporting Limit

Qualifiers:	B Analyte detected in the associated Method Blank	C Calculated Value
	E Value above quantitation range	H Holding times for preparation or analysis exceeded
	J Analyte detected below quantitation limits	L Analyzed by a contract laboratory
	M Value exceeds Monthly Ave or MCL or is less than LCL	ND Not Detected at the Reporting Limit
	O Outside the Range of Dilutions	S Spike Recovery outside accepted recovery limits
	X Matrix Effect	

Reviewed by:   
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

Company: Cameco Resources, Crow Butte Operation
PO Box 169
Crawford, NE 69339

Date Reported 11/17/2014
Report ID S1409415001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1409415-009
ClientSample ID: BOW-2010-6
COC: WEB

WorkOrder: S1409415
CollectionDate: 9/17/2014
DataReceived: 9/19/2014 1:05:00 PM
FieldSampler:
Matrix: Water

Comments

Table with 7 columns: Analyses, Result, Units, Qual, RL, Method, Date Analyzed/Init. Rows include Radionuclides - Suspended, Lead 210, Polonium 210, Radium 226, Thorium 230, and Thorium 229 Tracer.

These results apply only to the samples tested.

RL - Reporting Limit

- Qualifiers: B Analyte detected in the associated Method Blank, E Value above quantitation range, J Analyte detected below quantitation limits, M Value exceeds Monthly Ave or MCL or is less than LCL, O Outside the Range of Dilutions, X Matrix Effect, C Calculated Value, H Holding times for preparation or analysis exceeded, L Analyzed by a contract laboratory, ND Not Detected at the Reporting Limit, S Spike recovery outside accepted recovery limits

Reviewed by: [Signature]
Wade Nieuwsma, Assistant Laboratory Manager