



## Sample Analysis Report

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

**ProjectName:** Marsland Quarterly Shallow Wells  
**Lab ID:** S1311186-009  
**ClientSample ID:** BOW 9  
**COC:** WEB

**Date Reported:** 1/14/2014  
**Report ID:** S1311186002  
(Replaces S1311186001)  
**WorkOrder:** S1311186  
**CollectionDate:** 11/8/2013  
**DateReceived:** 11/13/2013 11:43:00 AM  
**FieldSampler:**  
**Matrix:** Water

## Comments

| Analyses                                    | Result | Units    | Qual | RL   | Method      | Date Analyzed/Init |     |
|---|--------|----------|------|------|-------------|--------------------|-----|
| <b>Anions/Cations</b>                       |        |          |      |      |             |                    |     |
| Alkalinity, Total (As CaCO <sub>3</sub> )   | 155    | mg/L     |      | 5    | SM 2320B    | 11/14/2013 2222    | KV  |
| Alkalinity, Bicarbonate as HCO <sub>3</sub> | 176    | mg/L     |      | 5    | SM 2320B    | 11/14/2013 2222    | KV  |
| Alkalinity, Carbonate as CO <sub>3</sub>    | 6      | mg/L     |      | 1    | SM 2320B    | 11/14/2013 2222    | KV  |
| Chloride                                    | 10     | mg/L     |      | 1    | EPA 300.0   | 11/16/2013 1059    | AMB |
| Fluoride                                    | 0.5    | mg/L     |      | 0.1  | SM 4500FC   | 11/14/2013 2222    | KV  |
| Nitrogen, Nitrate+Nitrite (as N)            | 1.1    | mg/L     |      | 0.1  | EPA 353.2   | 11/14/2013 1333    | RH  |
| Sulfate                                     | 9      | mg/L     |      | 1    | EPA 300.0   | 11/16/2013 1059    | AMB |
| Calcium                                     | 30     | mg/L     |      | 1    | EPA 200.7   | 11/14/2013 1524    | DG  |
| Magnesium                                   | 8      | mg/L     |      | 1    | EPA 200.7   | 11/14/2013 1524    | DG  |
| Potassium                                   | 4      | mg/L     |      | 1    | EPA 200.7   | 11/14/2013 1524    | DG  |
| Sodium                                      | 28     | mg/L     |      | 1    | EPA 200.7   | 11/14/2013 1524    | DG  |
| Nitrogen, Ammonia (As N)                    | <0.05  | mg/L     |      | 0.05 | EPA 350.1   | 11/19/2013 1109    | RH  |
| Silica as SiO <sub>2</sub>                  | 66     | mg/L     |      | 1    | EPA 200.7   | 11/14/2013 1524    | DG  |
| <b>General Parameters</b>                   |        |          |      |      |             |                    |     |
| pH  | 8.5    | s.u.     |      | 0.1  | SM 4500 H B | 11/14/2013 2222    | KV  |
| Electrical Conductivity                     | 346    | µmhos/cm |      | 1    | SM 2510B    | 11/14/2013 2222    | KV  |
| Total Dissolved Solids (180)                | 230    | mg/L     |      | 10   | SM 2540     | 11/13/2013 1512    | EC  |
| Nitrogen, Nitrite (as N)                    | <0.1   | mg/L     | L    | 0.1  | EPA 353.2   | 11/08/2013 000     | WN  |
| <b>Data Quality</b>                         |        |          |      |      |             |                    |     |
| Cation Sum                                  | 3.48   | meq/L    |      | 0.01 | SM 1030E    | 12/06/2013 1248    | WN  |
| Anion Sum                                   | 3.66   | meq/L    |      | 0.01 | SM 1030E    | 12/06/2013 1248    | WN  |
| Cation-Anion Balance (± 5%)                 | 2.59   | %        |      | 0.01 | SM 1030E    | 12/06/2013 1248    | WN  |
| Solids, Total Dissolved (Calc)              | 250    | mg/L     |      | 10   | SM 1030E    | 12/06/2013 1248    | WN  |
| Calculated TDS/TDS Ratio (0.80-1.20)        | 0.92   | dec. %   |      | 0.01 | Calculation | 12/06/2013 1253    | WN  |

## These results apply only to the samples tested.

## RL - Reporting Limit

|                    |  |   |
|--------------------|--|---|
| <b>Qualifiers:</b> | * Value exceeds Maximum Contaminant Level          | 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                |
| ND                 | Not Detected at the Reporting Limit                | O Outside the Range of Dilutions                  |
| S                  | Spike Recovery outside accepted recovery limits    |   |

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** 1/14/2014  
**Report ID** S1311186002  
(Replaces S1311186001)

**ProjectName:** Marsland Quarterly Shallow Wells  
**Lab ID:** S1311186-009  
**ClientSample ID:** BOW 9  
**COC:** WEB

**WorkOrder:** S1311186  
**CollectionDate:** 11/8/2013  
**DateReceived:** 11/13/2013 11:43:00 AM  
**FieldSampler:**  
**Matrix:** Water

## Comments

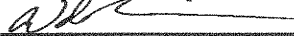
| Analyses                               | Result  | Units | Qual | RL     | Method       | Date Analyzed/Init |    |
|--|---------|-------|------|--------|--------------|--------------------|----|
| <b>Metals - Dissolved</b>              |         |       |      |        |              |                    |    |
| Aluminum                               | <0.1    | mg/L  |      | 0.1    | EPA 200.7    | 11/14/2013 1524    | DG |
| Arsenic                                | 0.003   | mg/L  |      | 0.001  | EPA 200.8    | 11/13/2013 2106    | MS |
| Barium                                 | <0.1    | mg/L  |      | 0.1    | EPA 200.8    | 11/13/2013 2106    | MS |
| Boron                                  | <0.1    | mg/L  |      | 0.1    | EPA 200.7    | 11/14/2013 1524    | DG |
| Cadmium                                | <0.005  | mg/L  |      | 0.005  | EPA 200.8    | 11/13/2013 2106    | MS |
| Chromium                               | <0.05   | mg/L  |      | 0.05   | EPA 200.7    | 11/14/2013 1524    | DG |
| Copper                                 | <0.01   | mg/L  |      | 0.01   | EPA 200.8    | 11/13/2013 2106    | MS |
| Iron                                   | <0.05   | mg/L  |      | 0.05   | EPA 200.7    | 11/14/2013 1524    | DG |
| Lead                                   | <0.005  | mg/L  |      | 0.005  | EPA 200.8    | 11/13/2013 2106    | MS |
| Manganese                              | <0.01   | mg/L  |      | 0.01   | EPA 200.7    | 11/14/2013 1524    | DG |
| Mercury                                | <0.001  | mg/L  |      | 0.001  | EPA 245.1    | 11/15/2013 1220    | CS |
| Molybdenum                             | <0.1    | mg/L  |      | 0.1    | EPA 200.8    | 11/13/2013 2106    | MS |
| Nickel                                 | <0.05   | mg/L  |      | 0.05   | EPA 200.7    | 11/14/2013 1524    | DG |
| Selenium                               | 0.002   | mg/L  |      | 0.001  | EPA 200.8    | 11/13/2013 2106    | MS |
| Uranium                                | 0.0073  | mg/L  |      | 0.0003 | EPA 200.8    | 11/13/2013 2106    | MS |
| Uranium Activity                       | 4.9     | pCi/L |      | 0.2    | Calculation  | 12/06/2013 1253    | WN |
| Vanadium                               | <0.1    | mg/L  |      | 0.1    | EPA 200.8    | 11/13/2013 2106    | MS |
| Zinc                                   | 0.03    | mg/L  |      | 0.01   | EPA 200.7    | 11/14/2013 1524    | DG |
| <b>Metals - Suspended</b>              |         |       |      |        |              |                    |    |
| Uranium                                | <0.0003 | mg/L  |      | 0.0003 | EPA 200.8    | 11/15/2013 1607    | MS |
| Uranium Activity                       | <0.2    | pCi/L |      | 0.2    | Calculation  | 12/06/2013 1253    | WN |
| <b>Radionuclides - Dissolved</b>       |         |       |      |        |              |                    |    |
| Lead 210                               | <1      | pCi/L |      | 1      | OTW01        | 12/03/2013 1230    | SH |
| Lead 210 (Dissolved) Precision (±)     | NA      | pCi/L |      |        | OTW01        | 12/03/2013 1230    | SH |
| Polonium 210                           | <1      | pCi/L |      | 1      | OTW01        | 12/04/2013 000     | SH |
| Polonium 210 (Dissolved) Precision (±) | NA      | pCi/L |      |        | OTW01        | 12/04/2013 000     | SH |
| Radium 226                             | <0.2    | pCi/L |      | 0.2    | SM 7500 Ra-B | 12/05/2013 1051    | SH |
| Radium 226 Precision (±)               | NA      | pCi/L |      |        | SM 7500 Ra-B | 12/05/2013 1051    | SH |
| Thorium 230                            | <0.2    | pCi/L |      | 0.2    | ACW10        | 11/26/2013 808     | MB |
| Thorium 230 Precision (±)              | NA      | pCi/L |      |        | ACW10        | 11/26/2013 808     | MB |
| Thorium 229 Tracer (30-120)            | 67      | %     |      |        | ACW10        | 11/26/2013 808     | 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, Assistant Laboratory Manager



### Sample Analysis Report

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

**Date Reported:** 1/14/2014  
**Report ID:** S1311186002  
(Replaces S1311186001)

**ProjectName:** Marsland Quarterly Shallow Wells  
**Lab ID:** S1311186-009  
**ClientSample ID:** BOW 9  
**COC:** WEB

**WorkOrder:** S1311186  
**CollectionDate:** 11/8/2013  
**DateReceived:** 11/13/2013 11:43:00 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        | 12/04/2013 1703    | SH |
| Lead 210 (Suspended) Precision (±)     | NA     | pCi/L |      |     | OTW01        | 12/04/2013 1703    | SH |
| Polonium 210                           | <1     | pCi/L |      | 1   | OTW01        | 12/04/2013 000     | SH |
| Polonium 210 (Suspended) Precision (±) | NA     | pCi/L |      |     | OTW01        | 12/04/2013 000     | SH |
| Radium 226                             | <0.2   | pCi/L |      | 0.2 | SM 7500 Ra-B | 12/05/2013 1352    | SH |
| Radium 226 (Suspended) Precision (±)   | NA     | pCi/L |      |     | SM 7500 Ra-B | 12/05/2013 1352    | SH |
| Thorium 230                            | <0.2   | pCi/L |      | 0.2 | ACW10        | 12/04/2013 718     | MB |
| Thorium 230 Precision (±)              | NA     | pCi/L |      |     | ACW10        | 12/04/2013 718     | MB |
| Thorium 229 Tracer (30-120)            | 71     | %     |      |     | ACW10        | 12/04/2013 718     | 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:** 3/31/2014  
**Report ID:** S1402356001

**ProjectName:** Marsland Quarterly Shallow Wells  
**Lab ID:** S1402356-009  
**ClientSample ID:** BOW 2010-9  
**COC:**

**WorkOrder:** S1402356  
**CollectionDate:** 2/26/2014 10:31:00 AM  
**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)         | 160    | mg/L     |      | 5    | SM 2320B    | 03/01/2014 831     | KV  |
| Alkalinity, Bicarbonate as HCO3      | 187    | mg/L     |      | 1    | SM 2320B    | 03/01/2014 831     | KV  |
| Alkalinity, Carbonate as CO3         | 4      | mg/L     |      | 1    | SM 2320B    | 03/01/2014 831     | KV  |
| Chloride                             | 7      | mg/L     |      | 1    | EPA 300.0   | 03/10/2014 2026    | AMB |
| Fluoride                             | 0.5    | mg/L     |      | 0.1  | SM 4500FC   | 03/01/2014 831     | KV  |
| Nitrogen, Nitrate+Nitrite (as N)     | 1.0    | mg/L     |      | 0.1  | EPA 353.2   | 03/03/2014 1525    | RH  |
| Sulfate                              | 7      | mg/L     |      | 1    | EPA 300.0   | 03/10/2014 2026    | AMB |
| Calcium                              | 34     | mg/L     |      | 1    | EPA 200.7   | 03/03/2014 1635    | DG  |
| Magnesium                            | 9      | mg/L     |      | 1    | EPA 200.7   | 03/03/2014 1635    | DG  |
| Potassium                            | 4      | mg/L     |      | 1    | EPA 200.7   | 03/03/2014 1635    | DG  |
| Sodium                               | 20     | mg/L     |      | 1    | EPA 200.7   | 03/03/2014 1635    | DG  |
| Nitrogen, Ammonia (As N)             | <0.05  | mg/L     |      | 0.05 | EPA 350.1   | 03/07/2014 1023    | RH  |
| Silica as SiO2                       | 67     | mg/L     |      | 1    | EPA 200.7   | 03/03/2014 1635    | DG  |
| <b>General Parameters</b>            |        |          |      |      |             |                    |     |
| pH                                   | 8.4    | s.u.     |      | 0.1  | SM 4500 H B | 03/01/2014 831     | KV  |
| Electrical Conductivity              | 344    | µmhos/cm |      | 1    | SM 2510B    | 03/01/2014 831     | KV  |
| Total Dissolved Solids (180)         | 270    | mg/L     |      | 10   | SM 2540     | 03/03/2014 1516    | 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                           | 3.40   | meq/L    |      | 0.01 | SM 1030E    | 03/19/2014 1248    | JJ  |
| Anion Sum                            | 3.65   | meq/L    |      | 0.01 | SM 1030E    | 03/19/2014 1248    | JJ  |
| Cation-Anion Balance (± 5%)          | 3.59   | %        |      | 0.01 | SM 1030E    | 03/19/2014 1248    | JJ  |
| Solids, Total Dissolved (Calc)       | 250    | 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: S1402356-009
ClientSample ID: BOW 2010-9
COC:

WorkOrder: S1402356
CollectionDate: 2/26/2014 10:31:00 AM
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

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

**ProjectName:** Marsland Quarterly Shallow Wells  
**Lab ID:** S1402356-009  
**ClientSample ID:** BOW 2010-9  
**COC:**

**WorkOrder:** S1402356  
**CollectionDate:** 2/26/2014 10:31:00 AM  
**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 (±)   | 0.03   | pCi/L |      |     | SM 7500 Ra-B | 03/18/2014 1402    | SH |
| Thorium 230                            | <0.2   | pCi/L |      | 0.2 | ACW10        | 03/25/2014 801     | MB |
| Thorium 230 Precision (±)              | 0.1    | pCi/L |      |     | ACW10        | 03/25/2014 801     | MB |
| Thorium 229 Tracer (30-120)            | 99     | %     |      |     | ACW10        | 03/25/2014 801     | 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: S1406337-013
ClientSample ID: BOW 2010-9
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 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 S1405337001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1406337-013
ClientSample ID: BOW 2010-9
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: Analytes, 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 8/8/2014
Report ID S1406337001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1406337-013
ClientSample ID: BOW 2010-9
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 Radionuclides - Suspended, Lead 210, Polonium 210, Radium 226, Thorium 230, and Thorium 229 Tracer.

These results apply only to the samples tested.

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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: S1409415-010
ClientSample ID: BOW-9
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: S1409415-010
ClientSample ID: BOW-9
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 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 11/17/2014
Report ID S1409415001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1409415-010
ClientSample ID: BOW-9
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, and Thorium 230.

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 1/14/2014
Report ID S1311186002
(Replaces S1311186001)

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1311186-010
ClientSample ID: BOW 10
COC: WEB

WorkOrder: S1311186
CollectionDate: 11/8/2013
DateReceived: 11/13/2013 11:43:00 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

**ProjectName:** Marsland Quarterly Shallow Wells  
**Lab ID:** S1311186-010  
**ClientSample ID:** BOW 10  
**COC:** WEB

**Date Reported** 1/14/2014  
**Report ID** S1311186002  
(Replaces S1311186001)  
**WorkOrder:** S1311186  
**CollectionDate:** 11/8/2013  
**DateReceived:** 11/13/2013 11:43:00 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    | 11/14/2013 1526    | DG |
| Arsenic                                | 0.003   | mg/L  |      | 0.001  | EPA 200.8    | 11/13/2013 2122    | MS |
| Barium                                 | 0.1     | mg/L  |      | 0.1    | EPA 200.8    | 11/13/2013 2122    | MS |
| Boron                                  | <0.1    | mg/L  |      | 0.1    | EPA 200.7    | 11/14/2013 1526    | DG |
| Cadmium                                | <0.005  | mg/L  |      | 0.005  | EPA 200.8    | 11/13/2013 2122    | MS |
| Chromium                               | <0.05   | mg/L  |      | 0.05   | EPA 200.7    | 11/14/2013 1526    | DG |
| Copper                                 | <0.01   | mg/L  |      | 0.01   | EPA 200.8    | 11/13/2013 2122    | MS |
| Iron                                   | <0.05   | mg/L  |      | 0.05   | EPA 200.7    | 11/14/2013 1526    | DG |
| Lead                                   | <0.005  | mg/L  |      | 0.005  | EPA 200.8    | 11/13/2013 2122    | MS |
| Manganese                              | <0.01   | mg/L  |      | 0.01   | EPA 200.7    | 11/14/2013 1526    | DG |
| Mercury                                | <0.001  | mg/L  |      | 0.001  | EPA 245.1    | 11/15/2013 1226    | CS |
| Molybdenum                             | <0.1    | mg/L  |      | 0.1    | EPA 200.8    | 11/13/2013 2122    | MS |
| Nickel                                 | <0.05   | mg/L  |      | 0.05   | EPA 200.7    | 11/14/2013 1526    | DG |
| Selenium                               | 0.002   | mg/L  |      | 0.001  | EPA 200.8    | 11/13/2013 2122    | MS |
| Uranium                                | 0.0075  | mg/L  |      | 0.0003 | EPA 200.8    | 11/13/2013 2122    | MS |
| Uranium Activity                       | 5.1     | pCi/L |      | 0.2    | Calculation  | 12/06/2013 1253    | WN |
| Vanadium                               | <0.1    | mg/L  |      | 0.1    | EPA 200.8    | 11/13/2013 2122    | MS |
| Zinc                                   | 0.02    | mg/L  |      | 0.01   | EPA 200.7    | 11/14/2013 1526    | DG |
| <b>Metals - Suspended</b>              |         |       |      |        |              |                    |    |
| Uranium                                | <0.0003 | mg/L  |      | 0.0003 | EPA 200.8    | 11/15/2013 1611    | MS |
| Uranium Activity                       | <0.2    | pCi/L |      | 0.2    | Calculation  | 12/06/2013 1253    | WN |
| <b>Radionuclides - Dissolved</b>       |         |       |      |        |              |                    |    |
| Lead 210                               | <1      | pCi/L |      | 1      | OTW01        | 12/03/2013 1230    | SH |
| Lead 210 (Dissolved) Precision (±)     | NA      | pCi/L |      |        | OTW01        | 12/03/2013 1230    | SH |
| Polonium 210                           | <1      | pCi/L |      | 1      | OTW01        | 12/04/2013 000     | SH |
| Polonium 210 (Dissolved) Precision (±) | NA      | pCi/L |      |        | OTW01        | 12/04/2013 000     | SH |
| Radium 226                             | <0.2    | pCi/L |      | 0.2    | SM 7500 Ra-B | 12/05/2013 1051    | SH |
| Radium 226 Precision (±)               | NA      | pCi/L |      |        | SM 7500 Ra-B | 12/05/2013 1051    | SH |
| Thorium 230                            | <0.2    | pCi/L |      | 0.2    | ACW10        | 11/26/2013 808     | MB |
| Thorium 230 Precision (±)              | NA      | pCi/L |      |        | ACW10        | 11/26/2013 808     | MB |
| Thorium 229 Tracer (30-120)            | 55      | %     |      |        | ACW10        | 11/26/2013 808     | MB |

These results apply only to the samples tested.

## RL - Reporting Limit

|                    |  |   |
|--------------------|--|---|
| <b>Qualifiers:</b> | * Value exceeds Maximum Contaminant Level            | 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                |
|                    | ND Not Detected at the Reporting Limit               | O Outside the Range of Dilutions                  |
|                    | S Spike Recovery outside accepted recovery limits    |   |

Reviewed by: Wade Nieuwsma  
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: S1311186-010
ClientSample ID: BOW 10
COC: WEB

Date Reported 1/14/2014
Report ID S1311186002
(Replaces S1311186001)
WorkOrder: S1311186
CollectionDate: 11/8/2013
DateReceived: 11/13/2013 11:43:00 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:** 3/27/2014  
**Report ID:** S1402335001

**ProjectName:** Marsland Quarterly Shallow Wells  
**Lab ID:** S1402335-009  
**ClientSample ID:** BOW 2010-10  
**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>Anions/Cations</b>                |        |          |      |      |             |                    |     |
| Alkalinity, Total (As CaCO3)         | 171    | mg/L     |      | 5    | SM 2320B    | 02/28/2014 003     | KV  |
| Alkalinity, Bicarbonate as HCO3      | 205    | mg/L     |      | 1    | SM 2320B    | 02/28/2014 003     | KV  |
| Alkalinity, Carbonate as CO3         | 1      | mg/L     |      | 1    | SM 2320B    | 02/28/2014 003     | KV  |
| Chloride                             | 8      | mg/L     |      | 1    | EPA 300.0   | 03/07/2014 352     | AMB |
| Fluoride                             | 0.5    | mg/L     |      | 0.1  | SM 4500FC   | 02/28/2014 003     | KV  |
| Nitrogen, Nitrate+Nitrite (as N)     | 1.4    | mg/L     |      | 0.1  | EPA 353.2   | 03/03/2014 1506    | RH  |
| Sulfate                              | 8      | mg/L     |      | 1    | EPA 300.0   | 03/07/2014 352     | AMB |
| Calcium                              | 31     | mg/L     |      | 1    | EPA 200.7   | 02/28/2014 1530    | DG  |
| Magnesium                            | 10     | mg/L     |      | 1    | EPA 200.7   | 02/28/2014 1530    | DG  |
| Potassium                            | 4      | mg/L     |      | 1    | EPA 200.7   | 02/28/2014 1530    | DG  |
| Sodium                               | 27     | mg/L     |      | 1    | EPA 200.7   | 02/28/2014 1530    | DG  |
| Nitrogen, Ammonia (As N)             | <0.05  | mg/L     |      | 0.05 | EPA 350.1   | 03/07/2014 936     | RH  |
| Silica as SiO2                       | 68     | mg/L     |      | 1    | EPA 200.7   | 02/28/2014 1530    | DG  |
| <b>General Parameters</b>            |        |          |      |      |             |                    |     |
| pH                                   | 8.4    | s.u.     |      | 0.1  | SM 4500 H B | 02/28/2014 003     | KV  |
| Electrical Conductivity              | 329    | µmhos/cm |      | 1    | SM 2510B    | 02/28/2014 003     | KV  |
| Total Dissolved Solids (180)         | 250    | mg/L     |      | 10   | SM 2540     | 02/27/2014 1409    | 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                           | 3.65   | meq/L    |      | 0.01 | SM 1030E    | 03/14/2014 944     | JJ  |
| Anion Sum                            | 3.91   | meq/L    |      | 0.01 | SM 1030E    | 03/14/2014 944     | JJ  |
| Cation-Anion Balance (± 5%)          | 3.51   | %        |      | 0.01 | SM 1030E    | 03/14/2014 944     | JJ  |
| Solids, Total Dissolved (Calc)       | 260    | mg/L     |      | 10   | SM 1030E    | 03/14/2014 944     | JJ  |
| Calculated TDS/TDS Ratio (0.80-1.20) | 0.96   | dec. %   |      | 0.01 | Calculation | 03/25/2014 1148    | 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** 3/27/2014  
**Report ID** S1402335001

**ProjectName:** Marsland Quarterly Shallow Wells  
**Lab ID:** S1402335-009  
**ClientSample ID:** BOW 2010-10  
**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 1530    | DG  |
| Arsenic                                | 0.003   | mg/L  |      | 0.001  | EPA 200.8    | 02/27/2014 2123    | MS  |
| Barium                                 | 0.1     | mg/L  |      | 0.1    | EPA 200.8    | 02/27/2014 2123    | MS  |
| Boron                                  | <0.1    | mg/L  |      | 0.1    | EPA 200.7    | 02/28/2014 1530    | DG  |
| Cadmium                                | <0.005  | mg/L  |      | 0.005  | EPA 200.8    | 02/27/2014 2123    | MS  |
| Chromium                               | <0.05   | mg/L  |      | 0.05   | EPA 200.7    | 02/28/2014 1530    | DG  |
| Copper                                 | <0.01   | mg/L  |      | 0.01   | EPA 200.8    | 02/27/2014 2123    | MS  |
| Iron                                   | <0.05   | mg/L  |      | 0.05   | EPA 200.7    | 02/28/2014 1530    | DG  |
| Lead                                   | <0.001  | mg/L  |      | 0.001  | EPA 200.8    | 02/27/2014 2123    | MS  |
| Manganese                              | <0.01   | mg/L  |      | 0.01   | EPA 200.7    | 02/28/2014 1530    | DG  |
| Mercury                                | <0.001  | mg/L  |      | 0.001  | EPA 245.1    | 03/14/2014 946     | CJB |
| Molybdenum                             | <0.1    | mg/L  |      | 0.1    | EPA 200.8    | 02/27/2014 2123    | MS  |
| Nickel                                 | <0.05   | mg/L  |      | 0.05   | EPA 200.7    | 02/28/2014 1530    | DG  |
| Selenium                               | 0.003   | mg/L  |      | 0.001  | EPA 200.8    | 02/27/2014 2123    | MS  |
| Uranium                                | 0.0074  | mg/L  |      | 0.0003 | EPA 200.8    | 02/27/2014 2123    | MS  |
| Uranium Activity                       | 5.0     | pCi/L |      | 0.2    | Calculation  | 03/25/2014 1148    | WN  |
| Vanadium                               | <0.1    | mg/L  |      | 0.1    | EPA 200.8    | 02/27/2014 2123    | MS  |
| Zinc                                   | 0.04    | mg/L  |      | 0.01   | EPA 200.7    | 02/28/2014 1530    | DG  |
| <b>Metals - Suspended</b>              |         |       |      |        |              |                    |     |
| Uranium                                | <0.0003 | mg/L  |      | 0.0003 | EPA 200.8    | 03/06/2014 2222    | MS  |
| Uranium Activity                       | <0.2    | pCi/L |      | 0.2    | Calculation  | 03/25/2014 1148    | WN  |
| <b>Radionuclides - Dissolved</b>       |         |       |      |        |              |                    |     |
| Lead 210                               | 1.4     | pCi/L |      | 1      | OTW01        | 03/11/2014 1625    | SH  |
| Lead 210 (Dissolved) Precision (±)     | 0.5     | pCi/L |      |        | OTW01        | 03/11/2014 1625    | 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                             | <0.2    | pCi/L |      | 0.2    | SM 7500 Ra-B | 03/14/2014 1522    | SH  |
| Radium 226 Precision (±)               | 0.03    | 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)            | 82      | %     |      |        | 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  
 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: S1402335-009
ClientSample ID: BOW 2010-10
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 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 8/8/2014
Report ID S1406337001

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1406337-014
ClientSample ID: BOW 2010-10
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 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: 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:** S1406337-014  
**ClientSample ID:** BOW 2010-10  
**COC:** WEB

**WorkOrder:** S1406337  
**CollectionDate:** 6/16/2014  
**DateReceived:** 6/18/2014 10:42:00 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    | 06/19/2014 2123    | DG  |
| Arsenic                                | 0.003   | mg/L  |      | 0.001  | EPA 200.8    | 06/23/2014 324     | MS  |
| Barium                                 | 0.1     | mg/L  |      | 0.1    | EPA 200.8    | 06/23/2014 324     | MS  |
| Boron                                  | <0.1    | mg/L  |      | 0.1    | EPA 200.7    | 06/19/2014 2123    | DG  |
| Cadmium                                | <0.005  | mg/L  |      | 0.005  | EPA 200.8    | 06/23/2014 324     | MS  |
| Chromium                               | <0.05   | mg/L  |      | 0.05   | EPA 200.7    | 06/19/2014 2123    | DG  |
| Copper                                 | <0.01   | mg/L  |      | 0.01   | EPA 200.8    | 06/23/2014 324     | MS  |
| Iron                                   | <0.05   | mg/L  |      | 0.05   | EPA 200.7    | 06/19/2014 2123    | DG  |
| Lead                                   | <0.001  | mg/L  |      | 0.001  | EPA 200.8    | 06/23/2014 324     | MS  |
| Manganese                              | <0.01   | mg/L  |      | 0.01   | EPA 200.7    | 06/19/2014 2123    | DG  |
| Mercury                                | <0.001  | mg/L  |      | 0.001  | EPA 245.1    | 06/26/2014 1348    | CJB |
| Molybdenum                             | <0.1    | mg/L  |      | 0.1    | EPA 200.8    | 06/23/2014 324     | MS  |
| Nickel                                 | <0.05   | mg/L  |      | 0.05   | EPA 200.7    | 06/19/2014 2123    | DG  |
| Selenium                               | 0.002   | mg/L  |      | 0.001  | EPA 200.8    | 06/23/2014 324     | MS  |
| Uranium                                | 0.0073  | mg/L  |      | 0.0003 | EPA 200.8    | 06/23/2014 324     | MS  |
| Uranium Activity                       | 4.9     | pCi/L |      | 0.2    | Calculation  | 07/28/2014 1550    | WN  |
| Vanadium                               | <0.1    | mg/L  |      | 0.1    | EPA 200.8    | 06/23/2014 324     | MS  |
| Zinc                                   | <0.01   | mg/L  |      | 0.01   | EPA 200.7    | 06/19/2014 2123    | DG  |
| <b>Metals - Suspended</b>              |         |       |      |        |              |                    |     |
| Uranium                                | <0.0003 | mg/L  |      | 0.0003 | EPA 200.8    | 06/25/2014 003     | MS  |
| Uranium Activity                       | <0.2    | pCi/L |      | 0.2    | Calculation  | 07/28/2014 1550    | WN  |
| <b>Radionuclides - Dissolved</b>       |         |       |      |        |              |                    |     |
| Lead 210                               | <1      | pCi/L |      | 1      | OTW01        | 07/09/2014 1302    | MB  |
| Lead 210 (Dissolved) Precision (±)     | 0.3     | pCi/L |      |        | OTW01        | 07/09/2014 1302    | MB  |
| Polonium 210                           | <1      | pCi/L |      | 1      | OTW01        | 07/10/2014 1116    | MB  |
| Polonium 210 (Dissolved) Precision (±) | 0.2     | pCi/L |      |        | OTW01        | 07/10/2014 1116    | MB  |
| Radium 226                             | <0.2    | pCi/L |      | 0.2    | SM 7500 Ra-B | 07/11/2014 858     | MB  |
| Radium 226 Precision (±)               | 0.0     | pCi/L |      |        | SM 7500 Ra-B | 07/11/2014 858     | MB  |
| Thorium 230                            | <0.2    | pCi/L |      | 0.2    | ACW10        | 07/07/2014 833     | MB  |
| Thorium 230 Precision (±)              | 0.03    | pCi/L |      |        | ACW10        | 07/07/2014 833     | MB  |
| Thorium 229 Tracer (30-120)            | 81      | %     |      |        | ACW10        | 07/07/2014 833     | 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:** S1406337-014  
**ClientSample ID:** BOW 2010-10  
**COC:** WEB

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

#### Comments

| Analyses                               | Result | Units | Qual | RL  | Method       | Date Analyzed/Init |    |
|--|--------|-------|------|-----|--------------|--------------------|----|
| <b>Radionuclides - Suspended</b>       |        |       |      |     |              |                    |    |
| Lead 210                               | 1.6    | 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 1205    | MB |
| Radium 226 (Suspended) Precision (±)   | 0.0    | pCi/L |      |     | SM 7500 Ra-B | 07/10/2014 1205    | MB |
| Thorium 230                            | <0.2   | pCi/L |      | 0.2 | ACW10        | 07/09/2014 821     | MB |
| Thorium 230 Precision (±)              | 0.03   | pCi/L |      |     | ACW10        | 07/09/2014 821     | MB |
| Thorium 229 Tracer (30-120)            | 93     | %     |      |     | ACW10        | 07/09/2014 821     | 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: S1409415-011  
ClientSample ID: BOW-10  
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> )   | 146    | mg/L     |      | 5    | SM 2320B    | 09/23/2014 002     | BT  |
| Alkalinity, Bicarbonate as HCO <sub>3</sub> | 166    | mg/L     |      | 1    | SM 2320B    | 09/23/2014 002     | BT  |
| Alkalinity, Carbonate as CO <sub>3</sub>    | 6      | mg/L     |      | 1    | SM 2320B    | 09/23/2014 002     | BT  |
| Chloride                                    | 4      | mg/L     |      | 1    | EPA 300.0   | 09/23/2014 2307    | AB  |
| Fluoride                                    | 0.6    | mg/L     |      | 0.1  | SM 4500FC   | 09/23/2014 002     | BT  |
| Nitrogen, Nitrate+Nitrite (as N)            | 1.4    | mg/L     |      | 0.1  | EPA 353.2   | 09/25/2014 1823    | AMB |
| Sulfate                                     | 11     | mg/L     |      | 1    | EPA 300.0   | 09/23/2014 2307    | AB  |
| Calcium                                     | 29     | mg/L     |      | 1    | EPA 200.7   | 09/22/2014 1451    | DG  |
| Magnesium                                   | 9      | mg/L     |      | 1    | EPA 200.7   | 09/22/2014 1451    | DG  |
| Potassium                                   | 3      | mg/L     |      | 1    | EPA 200.7   | 09/22/2014 1451    | DG  |
| Sodium                                      | 21     | mg/L     |      | 1    | EPA 200.7   | 09/22/2014 1451    | DG  |
| Nitrogen, Ammonia (As N)                    | <0.05  | mg/L     |      | 0.05 | EPA 350.1   | 09/24/2014 1654    | AMB |
| Silica as SiO <sub>2</sub>                  | 66     | mg/L     |      | 1    | EPA 200.7   | 09/22/2014 1451    | DG  |
| <b>General Parameters</b>                   |        |          |      |      |             |                    |     |
| pH  | 8.4    | s.u.     |      | 0.1  | SM 4500 H B | 09/23/2014 002     | BT  |
| Electrical Conductivity                     | 333    | µmhos/cm |      | 1    | SM 2510B    | 09/23/2014 002     | BT  |
| Total Dissolved Solids (180)                | 260    | mg/L     |      | 10   | SM 2540     | 09/19/2014 1850    | 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                                  | 3.20   | meq/L    |      | 0.01 | SM 1030E    | 10/01/2014 943     | JJ  |
| Anion Sum                                   | 3.39   | meq/L    |      | 0.01 | SM 1030E    | 10/01/2014 943     | JJ  |
| Cation-Anion Balance (± 5%)                 | 2.80   | %        |      | 0.01 | SM 1030E    | 10/01/2014 943     | JJ  |
| Solids, Total Dissolved (Calc)              | 240    | mg/L     |      | 10   | SM 1030E    | 10/01/2014 943     | JJ  |
| Calculated TDS/TDS Ratio (0.80-1.20)        | 1.08   | 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  
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: S1409415-011  
ClientSample ID: BOW-10  
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 1451    | DG |
| Arsenic                                | 0.003   | mg/L  |      | 0.001  | EPA 200.8    | 09/20/2014 610     | MS |
| Barium                                 | 0.1     | mg/L  |      | 0.1    | EPA 200.6    | 09/20/2014 610     | MS |
| Boron                                  | <0.1    | mg/L  |      | 0.1    | EPA 200.7    | 09/22/2014 1451    | DG |
| Cadmium                                | <0.005  | mg/L  |      | 0.005  | EPA 200.8    | 09/20/2014 610     | MS |
| Chromium                               | <0.05   | mg/L  |      | 0.05   | EPA 200.7    | 09/22/2014 1451    | DG |
| Copper                                 | <0.01   | mg/L  |      | 0.01   | EPA 200.8    | 09/20/2014 610     | MS |
| Iron                                   | <0.05   | mg/L  |      | 0.05   | EPA 200.7    | 09/22/2014 1451    | DG |
| Lead                                   | <0.001  | mg/L  |      | 0.001  | EPA 200.8    | 09/20/2014 610     | MS |
| Manganese                              | <0.01   | mg/L  |      | 0.01   | EPA 200.7    | 09/22/2014 1451    | DG |
| Mercury                                | <0.001  | mg/L  |      | 0.001  | EPA 245.1    | 09/26/2014 1048    | BJ |
| Molybdenum                             | <0.1    | mg/L  |      | 0.1    | EPA 200.8    | 09/20/2014 610     | MS |
| Nickel                                 | <0.05   | mg/L  |      | 0.05   | EPA 200.7    | 09/22/2014 1451    | DG |
| Selenium                               | 0.001   | mg/L  |      | 0.001  | EPA 200.8    | 09/20/2014 610     | MS |
| Uranium                                | 0.0071  | mg/L  |      | 0.0003 | EPA 200.8    | 09/20/2014 610     | MS |
| Uranium Activity                       | 4.8     | pCi/L |      | 0.2    | Calculation  | 10/16/2014 922     | WN |
| Vanadium                               | <0.1    | mg/L  |      | 0.1    | EPA 200.8    | 09/20/2014 610     | MS |
| Zinc                                   | <0.01   | mg/L  |      | 0.01   | EPA 200.7    | 09/22/2014 1451    | DG |
| <b>Metals - Suspended</b>              |         |       |      |        |              |                    |    |
| Uranium                                | <0.0003 | mg/L  |      | 0.0003 | EPA 200.8    | 10/14/2014 2032    | 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        | 10/30/2014 1654    | MB |
| Polonium 210 (Dissolved) Precision (±) | 0.1     | pCi/L |      |        | OTW01        | 10/30/2014 1654    | MB |
| Radium 226                             | <0.2    | pCi/L |      | 0.2    | SM 7500 Ra-B | 10/15/2014 1509    | MB |
| Radium 226 Precision (±)               | 0.04    | pCi/L |      |        | SM 7500 Ra-B | 10/15/2014 1509    | MB |
| Thorium 230                            | <0.2    | pCi/L |      | 0.2    | ACW10        | 10/31/2014 837     | MB |
| Thorium 230 Precision (±)              | 0.04    | pCi/L |      |        | ACW10        | 10/31/2014 837     | MB |
| Thorium 229 Tracer (30-120)            | 70      | %     |      |        | ACW10        | 10/31/2014 837     | 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: S1409415-011
ClientSample ID: BOW-10
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: 1/14/2014
Report ID: S1311186002
(Replaces S1311186001)

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1311186-011
ClientSample ID: BOW 11
COC: WEB

WorkOrder: S1311186
CollectionDate: 11/8/2013
DateReceived: 11/13/2013 11:43:00 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: \* 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

ProjectName: Marstand Quarterly Shallow Wells
Lab ID: S1311186-011
ClientSample ID: BOW 11
COC: WEB

Date Reported: 1/14/2014
Report ID: S1311186002
(Replaces S1311186001)
WorkOrder: S1311186
CollectionDate: 11/8/2013
DateReceived: 11/13/2013 11:43:00 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: [Signature]
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

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

Date Reported: 1/14/2014
Report ID: S1311186002
(Replaces S1311186001)

ProjectName: Marsland Quarterly Shallow Wells
Lab ID: S1311186-011
ClientSample ID: BOW 11
COC: WEB

WorkOrder: S1311186
CollectionDate: 11/8/2013
DateReceived: 11/13/2013 11:43:00 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:** S1402356-010  
**ClientSample ID:** BOW 2010-11  
**COC:**

**WorkOrder:** S1402356  
**CollectionDate:** 2/26/2014 9:20:00 AM  
**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)         | 148    | mg/L     |      | 5    | SM 2320B    | 03/12/2014 1512    | KV  |
| Alkalinity, Bicarbonate as HCO3      | 178    | mg/L     |      | 1    | SM 2320B    | 03/12/2014 1512    | KV  |
| Alkalinity, Carbonate as CO3         | 1      | mg/L     |      | 1    | SM 2320B    | 03/12/2014 1512    | KV  |
| Chloride                             | 5      | mg/L     |      | 1    | EPA 300.0   | 03/10/2014 2039    | AMB |
| Fluoride                             | 0.6    | mg/L     |      | 0.1  | SM 4500FC   | 03/01/2014 845     | KV  |
| Nitrogen, Nitrate+Nitrite (as N)     | 1.5    | mg/L     |      | 0.1  | EPA 353.2   | 03/03/2014 1527    | RH  |
| Sulfate                              | 11     | mg/L     |      | 1    | EPA 300.0   | 03/10/2014 2039    | AMB |
| Calcium                              | 35     | mg/L     |      | 1    | EPA 200.7   | 03/03/2014 1637    | DG  |
| Magnesium                            | 7      | mg/L     |      | 1    | EPA 200.7   | 03/03/2014 1637    | DG  |
| Potassium                            | 5      | mg/L     |      | 1    | EPA 200.7   | 03/12/2014 1258    | DG  |
| Sodium                               | 20     | mg/L     |      | 1    | EPA 200.7   | 03/12/2014 1258    | DG  |
| Nitrogen, Ammonia (As N)             | <0.05  | mg/L     |      | 0.05 | EPA 350.1   | 03/07/2014 1024    | RH  |
| Silica as SiO2                       | 61     | mg/L     |      | 1    | EPA 200.7   | 03/03/2014 1637    | DG  |
| <b>General Parameters</b>            |        |          |      |      |             |                    |     |
| pH                                   | 8.4    | s.u.     |      | 0.1  | SM 4500 H B | 03/01/2014 845     | KV  |
| Electrical Conductivity              | 330    | µmhos/cm |      | 1    | SM 2510B    | 03/01/2014 845     | KV  |
| Total Dissolved Solids (180)         | 260    | mg/L     |      | 10   | SM 2540     | 03/03/2014 1517    | 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                           | 3.31   | meq/L    |      | 0.01 | SM 1030E    | 03/19/2014 1248    | JJ  |
| Anion Sum                            | 3.45   | meq/L    |      | 0.01 | SM 1030E    | 03/19/2014 1248    | JJ  |
| Cation-Anion Balance (± 5%)          | 2.09   | %        |      | 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: S1402356-010
ClientSample ID: BOW 2010-11
COC:

WorkOrder: S1402356
CollectionDate: 2/26/2014 9:20:00 AM
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

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

**ProjectName:** Marsland Quarterly Shallow Wells  
**Lab ID:** S1402356-010  
**ClientSample ID:** BOW 2010-11  
**COC:**

**WorkOrder:** S1402356  
**CollectionDate:** 2/26/2014 9:20:00 AM  
**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        | 03/24/2014 1511    | MB |
| Lead 210 (Suspended) Precision (±)     | 0.4    | pCi/L |      |     | OTW01        | 03/24/2014 1511    | MB |
| Polonium 210                           | <1     | pCi/L |      | 1   | OTW01        | 03/24/2014 1301    | MB |
| Polonium 210 (Suspended) Precision (±) | 0.3    | pCi/L |      |     | OTW01        | 03/24/2014 1301    | MB |
| 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        | 03/25/2014 801     | MB |
| Thorium 230 Precision (±)              | 0.03   | pCi/L |      |     | ACW10        | 03/25/2014 801     | MB |
| Thorium 229 Tracer (30-120)            | 91     | %     |      |     | ACW10        | 03/25/2014 801     | 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: S1406386-003
ClientSample ID: BOW 2010-11
COC: WEB

WorkOrder: S1406386
CollectionDate: 6/17/2014 10:10:00 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), 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:** 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:** S1406386-003  
**ClientSample ID:** BOW 2010-11  
**COC:** WEB

**WorkOrder:** S1406386  
**CollectionDate:** 6/17/2014 10:10:00 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 1547    | DG  |
| Arsenic                                | 0.005   | mg/L  |      | 0.001  | EPA 200.8    | 06/23/2014 2325    | MS  |
| Barium                                 | 0.1     | mg/L  |      | 0.1    | EPA 200.8    | 06/23/2014 2325    | MS  |
| Boron                                  | <0.1    | mg/L  |      | 0.1    | EPA 200.7    | 06/20/2014 1547    | DG  |
| Cadmium                                | <0.005  | mg/L  |      | 0.005  | EPA 200.8    | 06/23/2014 2325    | MS  |
| Chromium                               | <0.05   | mg/L  |      | 0.05   | EPA 200.7    | 06/20/2014 1547    | DG  |
| Copper                                 | <0.01   | mg/L  |      | 0.01   | EPA 200.8    | 06/23/2014 2325    | MS  |
| Iron                                   | <0.05   | mg/L  |      | 0.05   | EPA 200.7    | 06/20/2014 1547    | DG  |
| Lead                                   | <0.001  | mg/L  |      | 0.001  | EPA 200.8    | 06/23/2014 2325    | MS  |
| Manganese                              | <0.01   | mg/L  |      | 0.01   | EPA 200.7    | 06/20/2014 1547    | DG  |
| Mercury                                | <0.001  | mg/L  |      | 0.001  | EPA 245.1    | 07/01/2014 1020    | CJB |
| Molybdenum                             | <0.1    | mg/L  |      | 0.1    | EPA 200.8    | 06/23/2014 2325    | MS  |
| Nickel                                 | <0.05   | mg/L  |      | 0.05   | EPA 200.7    | 06/20/2014 1547    | DG  |
| Selenium                               | 0.002   | mg/L  |      | 0.001  | EPA 200.8    | 06/23/2014 2325    | MS  |
| Uranium                                | 0.0051  | mg/L  |      | 0.0003 | EPA 200.8    | 06/23/2014 2325    | MS  |
| Uranium Activity                       | 3.5     | pCi/L |      | 0.2    | Calculation  | 07/28/2014 1348    | WN  |
| Vanadium                               | <0.1    | mg/L  |      | 0.1    | EPA 200.8    | 06/23/2014 2325    | MS  |
| Zinc                                   | <0.01   | mg/L  |      | 0.01   | EPA 200.7    | 06/20/2014 1547    | DG  |
| <b>Metals - Suspended</b>              |         |       |      |        |              |                    |     |
| Uranium                                | <0.0003 | mg/L  |      | 0.0003 | EPA 200.8    | 06/24/2014 1457    | 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        | 07/09/2014 1302    | MB  |
| Lead 210 (Dissolved) Precision (±)     | 0.3     | pCi/L |      |        | OTW01        | 07/09/2014 1302    | MB  |
| Polonium 210                           | <1      | pCi/L |      | 1      | OTW01        | 07/10/2014 1116    | MB  |
| Polonium 210 (Dissolved) Precision (±) | 0.2     | pCi/L |      |        | OTW01        | 07/10/2014 1116    | 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 (±)              | 0.05    | pCi/L |      |        | ACW10        | 07/07/2014 1616    | MB  |
| Thorium 229 Tracer (30-120)            | 82      | %     |      |        | 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, 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:** S1406386-003  
**ClientSample ID:** BOW 2010-11  
**COC:** WEB

**WorkOrder:** S1406386  
**CollectionDate:** 6/17/2014 10:10:00 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                               | 1.3    | 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                           | <1     | pCi/L |      | 1   | OTW01        | 07/11/2014 1637    | MB |
| Polonium 210 (Suspended) Precision (±) | 0.2    | 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 (±)              | 0.04   | pCi/L |      |     | ACW10        | 07/08/2014 811     | MB |
| Thorium 229 Tracer (30-120)            | 92     | %     |      |     | 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, 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: S1409415-012
ClientSample ID: BOW-11
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:** S1409415-012  
**ClientSample ID:** BOW-11  
**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 1454    | DG |
| Arsenic                                | 0.005   | mg/L  |      | 0.001  | EPA 200.8    | 09/20/2014 616     | MS |
| Barium                                 | 0.1     | mg/L  |      | 0.1    | EPA 200.8    | 09/20/2014 616     | MS |
| Boron                                  | <0.1    | mg/L  |      | 0.1    | EPA 200.7    | 09/22/2014 1454    | DG |
| Cadmium                                | <0.005  | mg/L  |      | 0.005  | EPA 200.8    | 09/20/2014 616     | MS |
| Chromium                               | <0.05   | mg/L  |      | 0.05   | EPA 200.7    | 09/22/2014 1454    | DG |
| Copper                                 | <0.01   | mg/L  |      | 0.01   | EPA 200.8    | 09/20/2014 616     | MS |
| Iron                                   | <0.05   | mg/L  |      | 0.05   | EPA 200.7    | 09/22/2014 1454    | DG |
| Lead                                   | <0.001  | mg/L  |      | 0.001  | EPA 200.8    | 09/20/2014 616     | MS |
| Manganese                              | <0.01   | mg/L  |      | 0.01   | EPA 200.7    | 09/22/2014 1454    | DG |
| Mercury                                | <0.001  | mg/L  |      | 0.001  | EPA 245.1    | 09/26/2014 1050    | BJ |
| Molybdenum                             | <0.1    | mg/L  |      | 0.1    | EPA 200.8    | 09/20/2014 616     | MS |
| Nickel                                 | <0.05   | mg/L  |      | 0.05   | EPA 200.7    | 09/22/2014 1454    | DG |
| Selenium                               | 0.002   | mg/L  |      | 0.001  | EPA 200.8    | 09/20/2014 616     | MS |
| Uranium                                | 0.0051  | mg/L  |      | 0.0003 | EPA 200.8    | 09/20/2014 616     | 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 616     | MS |
| Zinc                                   | <0.01   | mg/L  |      | 0.01   | EPA 200.7    | 09/22/2014 1454    | DG |
| <b>Metals - Suspended</b>              |         |       |      |        |              |                    |    |
| Uranium                                | <0.0003 | mg/L  |      | 0.0003 | EPA 200.8    | 10/14/2014 2053    | 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        | 10/30/2014 1654    | MB |
| Polonium 210 (Dissolved) Precision (±) | 0.3     | pCi/L |      |        | OTW01        | 10/30/2014 1654    | MB |
| Radium 226                             | <0.2    | pCi/L |      | 0.2    | SM 7500 Ra-B | 10/15/2014 1509    | MB |
| Radium 226 Precision (±)               | 0.04    | pCi/L |      |        | SM 7500 Ra-B | 10/15/2014 1509    | MB |
| Thorium 230                            | <0.2    | pCi/L |      | 0.2    | ACW10        | 11/10/2014 1034    | MB |
| Thorium 230 Precision (±)              | 0.1     | pCi/L |      |        | ACW10        | 11/10/2014 1034    | MB |
| Thorium 229 Tracer (30-120)            | 54      | %     |      |        | ACW10        | 11/10/2014 1034    | 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:** S1409415-012  
**ClientSample ID:** BOW-11  
**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>Radionuclides - Suspended</b>       |        |       |      |     |              |                    |    |
| Lead 210                               | 1.5    | pCi/L |      | 1   | OTW01        | 11/03/2014 000     | MB |
| Lead 210 (Suspended) Precision (±)     | 0.5    | pCi/L |      |     | OTW01        | 11/03/2014 000     | MB |
| Polonium 210                           | <1     | pCi/L |      | 1   | OTW01        | 11/05/2014 000     | MB |
| Polonium 210 (Suspended) Precision (±) | 0.2    | pCi/L |      |     | OTW01        | 11/05/2014 000     | MB |
| Radium 226                             | <0.2   | pCi/L |      | 0.2 | SM 7500 Ra-B | 10/22/2014 1227    | MB |
| Radium 226 (Suspended) Precision (±)   | 0.03   | pCi/L |      |     | SM 7500 Ra-B | 10/22/2014 1227    | MB |
| Thorium 230                            | <0.2   | pCi/L |      | 0.2 | ACW10        | 10/30/2014 1415    | MB |
| Thorium 230 Precision (±)              | 0.1    | pCi/L |      |     | ACW10        | 10/30/2014 1415    | MB |
| Thorium 229 Tracer (30-120)            | 73     | %     |      |     | ACW10        | 10/30/2014 1415    | 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