

## ANALYTICAL SUMMARY REPORT

September 17, 2012

Rare Element Resources Inc  
225 Union Blvd Ste 250  
Lakewood, CO 80228-1574

Workorder No.: G12080072

Project Name: Upton

Energy Laboratories Inc. Gillette WY received the following 7 samples for Rare Element Resources Inc on 8/2/2012 for analysis.

| Sample ID     | Client Sample ID              | Collect Date   | Receive Date | Matrix | Test  |
|---------------|-------------------------------|----------------|--------------|--------|---|
| G12080072-001 | UAMS #1 Continuous<br>7/26/12 | 07/26/12 10:50 | 08/02/12     | Filter | Metals on air filter by ICP/ICPMS<br>Digestion, Total Metals<br>Nitric acid-extraction<br>Radium 226<br>Thorium, Isotopic |
| G12080072-002 | UAMS #4 Continuous<br>7/19/12 | 07/19/12 9:25  | 08/02/12     | Filter | Same As Above   |
| G12080072-003 | UAMS #4 Continuous<br>6/28/12 | 06/28/12 12:30 | 08/02/12     | Filter | Same As Above   |
| G12080072-004 | UAMS #2 Continuous<br>6/21/12 | 06/21/12 10:25 | 08/02/12     | Filter | Same As Above   |
| G12080072-005 | UAMS #1 Continuous<br>6/15/12 | 06/15/12 10:35 | 08/02/12     | Filter | Same As Above   |
| G12080072-006 | UAMS #1 Continuous<br>7/5/12  | 07/05/12 10:30 | 08/02/12     | Filter | Same As Above   |
| G12080072-007 | UAMS #2 Continuous<br>7/12/12 | 07/12/12 10:30 | 08/02/12     | Filter | Same As Above   |

The analyses presented in this report were performed by Energy Laboratories, Inc., 400 W. Boxelder Rd., Gillette, WY 82718, unless otherwise noted.

As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

The results as reported relate only to the item(s) submitted for testing.

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

Report Approved By:



**CLIENT:** Rare Element Resources Inc

**Project:** Upton

**Sample Delivery Group:** G12080072

**Report Date:** 09/17/12

## CASE NARRATIVE

Tests associated with analyst identified as ELI-B were subcontracted to Energy Laboratories, 1120 S. 27th St., Billings, MT, EPA Number MT00005.

Tests associated with analyst identified as ELI-CA were subcontracted to Energy Laboratories, 2393 Salt Creek Hwy., Casper, WY, EPA Number WY00002 and WY00937.

## LABORATORY ANALYTICAL REPORT

Prepared by Gillette, WY Branch

**Client:** Rare Element Resources Inc  
**Project:** Upton  
**Lab ID:** G12080072-001  
**Client Sample ID** UAMS #1 Continuous 7/26/12

**Report Date:** 09/17/12  
**Collection Date:** 07/26/12 10:50  
**DateReceived:** 08/02/12  
**Matrix:** Filter

| Analyses                     | Result | Units      | Qualifiers | RL | MDL     | Method | Analysis Date / By     |
|------------------------------|--------|------------|------------|----|---------|--------|------------------------|
| <b>METALS IN AIR</b>         |        |            |            |    |         |        |                        |
| Cerium                       | 38     | ug/filter  |            | 1  | 0.4     | E200.8 | 08/07/12 18:02 / eli-b |
| Lanthanum                    | 19     | ug/filter  |            | 1  | 0.4     | E200.8 | 08/07/12 18:02 / eli-b |
| Thorium                      | 6      | ug/filter  |            | 1  | 0.02    | E200.8 | 08/07/12 18:02 / eli-b |
| Uranium                      | 2      | ug/filter  |            | 1  | 0.00008 | E200.8 | 08/07/12 18:02 / eli-b |
| <b>RADIONUCLIDES - TOTAL</b> |        |            |            |    |         |        |                        |
| Radium 226                   | 2.1    | pCi/Filter |            |    |         | E903.0 | 09/06/12 13:34 / eli-c |
| Radium 226 precision (±)     | 0.7    | pCi/Filter |            |    |         | E903.0 | 09/06/12 13:34 / eli-c |
| Radium 226 MDC               | 0.7    | pCi/Filter |            |    |         | E903.0 | 09/06/12 13:34 / eli-c |
| <b>RADIOCHEMICAL</b>         |        |            |            |    |         |        |                        |
| Thorium 230                  | 1.3    | pCi/Filter |            |    |         | E908.0 | 08/24/12 08:22 / eli-c |
| Thorium 230 precision (±)    | 0.52   | pCi/Filter |            |    |         | E908.0 | 08/24/12 08:22 / eli-c |
| Thorium 230 MDC              | 0.49   | pCi/Filter |            |    |         | E908.0 | 08/24/12 08:22 / eli-c |

**Report Definitions:**  
RL - Analyte reporting limit.  
MCL - Maximum contaminant level.  
ND - Not detected at the reporting limit.

MDL - Method detection limit  
QCL - Quality control limit.  
MDC - Minimum detectable concentration

## LABORATORY ANALYTICAL REPORT

Prepared by Gillette, WY Branch

**Client:** Rare Element Resources Inc  
**Project:** Upton  
**Lab ID:** G12080072-002  
**Client Sample ID** UAMS #4 Continuous 7/19/12

**Report Date:** 09/17/12  
**Collection Date:** 07/19/12 09:25  
**DateReceived:** 08/02/12  
**Matrix:** Filter

| Analyses   | Result | Units      | Qualifiers | RL | MDL     | Method | Analysis Date / By     |
|--|--------|------------|------------|----|---------|--------|------------------------|
| <b>METALS IN AIR</b>   |        |            |            |    |         |        |                        |
| Cerium   | 21     | ug/filter  |            | 1  | 0.4     | E200.8 | 08/07/12 18:07 / eli-b |
| Lanthanum  | 10     | ug/filter  |            | 1  | 0.4     | E200.8 | 08/07/12 18:07 / eli-b |
| Thorium  | 3      | ug/filter  |            | 1  | 0.02    | E200.8 | 08/07/12 18:07 / eli-b |
| Uranium  | 1      | ug/filter  |            | 1  | 0.00008 | E200.8 | 08/07/12 18:07 / eli-b |
| <b>RADIONUCLIDES - TOTAL</b>   |        |            |            |    |         |        |                        |
| Radium 226   | 1.3    | pCi/Filter |            |    |         | E903.0 | 09/06/12 13:34 / eli-c |
| Radium 226 precision (±)   | 0.6    | pCi/Filter |            |    |         | E903.0 | 09/06/12 13:34 / eli-c |
| Radium 226 MDC   | 0.6    | pCi/Filter |            |    |         | E903.0 | 09/06/12 13:34 / eli-c |
| - For Ra226 sample matrix interference resulted in high chemical recoveries which has likely biased the results low. |        |            |            |    |         |        |                        |
| <b>RADIOCHEMICAL</b>   |        |            |            |    |         |        |                        |
| Thorium 230  | 1.2    | pCi/Filter |            |    |         | E908.0 | 08/24/12 08:22 / eli-c |
| Thorium 230 precision (±)  | 0.49   | pCi/Filter |            |    |         | E908.0 | 08/24/12 08:22 / eli-c |
| Thorium 230 MDC  | 0.45   | pCi/Filter |            |    |         | E908.0 | 08/24/12 08:22 / eli-c |

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## LABORATORY ANALYTICAL REPORT

Prepared by Gillette, WY Branch

**Client:** Rare Element Resources Inc  
**Project:** Upton  
**Lab ID:** G12080072-003  
**Client Sample ID** UAMS #4 Continuous 6/28/12

**Report Date:** 09/17/12  
**Collection Date:** 06/28/12 12:30  
**DateReceived:** 08/02/12  
**Matrix:** Filter

| Analyses   | Result | Units      | Qualifiers | RL | MDL     | Method | Analysis Date / By     |
|--|--------|------------|------------|----|---------|--------|------------------------|
| <b>METALS IN AIR</b>   |        |            |            |    |         |        |                        |
| Cerium   | 31     | ug/filter  |            | 1  | 0.4     | E200.8 | 08/07/12 18:12 / eli-b |
| Lanthanum  | 15     | ug/filter  |            | 1  | 0.4     | E200.8 | 08/07/12 18:12 / eli-b |
| Thorium  | 4      | ug/filter  |            | 1  | 0.02    | E200.8 | 08/07/12 18:12 / eli-b |
| Uranium  | 2      | ug/filter  |            | 1  | 0.00008 | E200.8 | 08/07/12 18:12 / eli-b |
| <b>RADIONUCLIDES - TOTAL</b>   |        |            |            |    |         |        |                        |
| Radium 226   | 1.6    | pCi/Filter |            |    |         | E903.0 | 09/06/12 13:34 / eli-c |
| Radium 226 precision (±)   | 0.6    | pCi/Filter |            |    |         | E903.0 | 09/06/12 13:34 / eli-c |
| Radium 226 MDC   | 0.6    | pCi/Filter |            |    |         | E903.0 | 09/06/12 13:34 / eli-c |
| - For Ra226 sample matrix interference resulted in high chemical recoveries which has likely biased the results low. |        |            |            |    |         |        |                        |
| <b>RADIOCHEMICAL</b>   |        |            |            |    |         |        |                        |
| Thorium 230  | 0.73   | pCi/Filter |            |    |         | E908.0 | 08/24/12 08:22 / eli-c |
| Thorium 230 precision (±)  | 0.46   | pCi/Filter |            |    |         | E908.0 | 08/24/12 08:22 / eli-c |
| Thorium 230 MDC  | 0.63   | pCi/Filter |            |    |         | E908.0 | 08/24/12 08:22 / eli-c |

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## LABORATORY ANALYTICAL REPORT

Prepared by Gillette, WY Branch

**Client:** Rare Element Resources Inc  
**Project:** Upton  
**Lab ID:** G12080072-004  
**Client Sample ID** UAMS #2 Continuous 6/21/12

**Report Date:** 09/17/12  
**Collection Date:** 06/21/12 10:25  
**DateReceived:** 08/02/12  
**Matrix:** Filter

| Analyses   | Result | Units      | Qualifiers | RL | MDL     | Method | Analysis Date / By     |
|--|--------|------------|------------|----|---------|--------|------------------------|
| <b>METALS IN AIR</b>   |        |            |            |    |         |        |                        |
| Cerium   | 18     | ug/filter  |            | 1  | 0.4     | E200.8 | 08/07/12 18:17 / eli-b |
| Lanthanum  | 9      | ug/filter  |            | 1  | 0.4     | E200.8 | 08/07/12 18:17 / eli-b |
| Thorium  | 3      | ug/filter  |            | 1  | 0.02    | E200.8 | 08/07/12 18:17 / eli-b |
| Uranium  | 1      | ug/filter  |            | 1  | 0.00008 | E200.8 | 08/07/12 18:17 / eli-b |
| <b>RADIONUCLIDES - TOTAL</b>   |        |            |            |    |         |        |                        |
| Radium 226   | 1.1    | pCi/Filter |            |    |         | E903.0 | 09/06/12 13:34 / eli-c |
| Radium 226 precision (±)   | 0.5    | pCi/Filter |            |    |         | E903.0 | 09/06/12 13:34 / eli-c |
| Radium 226 MDC   | 0.5    | pCi/Filter |            |    |         | E903.0 | 09/06/12 13:34 / eli-c |
| - For Ra226 sample matrix interference resulted in high chemical recoveries which has likely biased the results low. |        |            |            |    |         |        |                        |
| <b>RADIOCHEMICAL</b>   |        |            |            |    |         |        |                        |
| Thorium 230  | 1.2    | pCi/Filter |            |    |         | E908.0 | 08/24/12 08:22 / eli-c |
| Thorium 230 precision (±)  | 0.55   | pCi/Filter |            |    |         | E908.0 | 08/24/12 08:22 / eli-c |
| Thorium 230 MDC  | 0.65   | pCi/Filter |            |    |         | E908.0 | 08/24/12 08:22 / eli-c |

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QCL - Quality control limit.  
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## LABORATORY ANALYTICAL REPORT

Prepared by Gillette, WY Branch

**Client:** Rare Element Resources Inc  
**Project:** Upton  
**Lab ID:** G12080072-005  
**Client Sample ID** UAMS #1 Continuous 6/15/12

**Report Date:** 09/17/12  
**Collection Date:** 06/15/12 10:35  
**DateReceived:** 08/02/12  
**Matrix:** Filter

| Analyses   | Result | Units      | Qualifiers | RL | MDL     | Method | Analysis Date / By     |
|--|--------|------------|------------|----|---------|--------|------------------------|
| <b>METALS IN AIR</b>   |        |            |            |    |         |        |                        |
| Cerium   | 22     | ug/filter  |            | 1  | 0.4     | E200.8 | 08/07/12 18:41 / eli-b |
| Lanthanum  | 11     | ug/filter  |            | 1  | 0.4     | E200.8 | 08/07/12 18:41 / eli-b |
| Thorium  | 6      | ug/filter  |            | 1  | 0.02    | E200.8 | 08/07/12 18:41 / eli-b |
| Uranium  | 1      | ug/filter  |            | 1  | 0.00008 | E200.8 | 08/07/12 18:41 / eli-b |
| <b>RADIONUCLIDES - TOTAL</b>   |        |            |            |    |         |        |                        |
| Radium 226   | 1.0    | pCi/Filter |            |    |         | E903.0 | 09/06/12 13:34 / eli-c |
| Radium 226 precision (±)   | 0.5    | pCi/Filter |            |    |         | E903.0 | 09/06/12 13:34 / eli-c |
| Radium 226 MDC   | 0.5    | pCi/Filter |            |    |         | E903.0 | 09/06/12 13:34 / eli-c |
| - For Ra226 sample matrix interference resulted in high chemical recoveries which has likely biased the results low. |        |            |            |    |         |        |                        |
| <b>RADIOCHEMICAL</b>   |        |            |            |    |         |        |                        |
| Thorium 230  | 0.95   | pCi/Filter |            |    |         | E908.0 | 08/24/12 08:22 / eli-c |
| Thorium 230 precision (±)  | 0.48   | pCi/Filter |            |    |         | E908.0 | 08/24/12 08:22 / eli-c |
| Thorium 230 MDC  | 0.55   | pCi/Filter |            |    |         | E908.0 | 08/24/12 08:22 / eli-c |

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

## LABORATORY ANALYTICAL REPORT

Prepared by Gillette, WY Branch

**Client:** Rare Element Resources Inc  
**Project:** Upton  
**Lab ID:** G12080072-006  
**Client Sample ID** UAMS #1 Continuous 7/5/12

**Report Date:** 09/17/12  
**Collection Date:** 07/05/12 10:30  
**DateReceived:** 08/02/12  
**Matrix:** Filter

| Analyses   | Result | Units      | Qualifiers | RL | MDL     | Method | Analysis Date / By     |
|--|--------|------------|------------|----|---------|--------|------------------------|
| <b>METALS IN AIR</b>   |        |            |            |    |         |        |                        |
| Cerium   | 61     | ug/filter  |            | 1  | 0.4     | E200.8 | 08/07/12 18:46 / eli-b |
| Lanthanum  | 30     | ug/filter  |            | 1  | 0.4     | E200.8 | 08/07/12 18:46 / eli-b |
| Thorium  | 11     | ug/filter  |            | 1  | 0.02    | E200.8 | 08/07/12 18:46 / eli-b |
| Uranium  | 3      | ug/filter  |            | 1  | 0.00008 | E200.8 | 08/07/12 18:46 / eli-b |
| <b>RADIONUCLIDES - TOTAL</b>   |        |            |            |    |         |        |                        |
| Radium 226   | 2.9    | pCi/Filter |            |    |         | E903.0 | 09/06/12 13:34 / eli-c |
| Radium 226 precision (±)   | 0.7    | pCi/Filter |            |    |         | E903.0 | 09/06/12 13:34 / eli-c |
| Radium 226 MDC   | 0.6    | pCi/Filter |            |    |         | E903.0 | 09/06/12 13:34 / eli-c |
| - For Ra226 sample matrix interference resulted in high chemical recoveries which has likely biased the results low. |        |            |            |    |         |        |                        |
| <b>RADIOCHEMICAL</b>   |        |            |            |    |         |        |                        |
| Thorium 230  | 2.3    | pCi/Filter |            |    |         | E908.0 | 08/24/12 08:22 / eli-c |
| Thorium 230 precision (±)  | 0.74   | pCi/Filter |            |    |         | E908.0 | 08/24/12 08:22 / eli-c |
| Thorium 230 MDC  | 0.65   | pCi/Filter |            |    |         | E908.0 | 08/24/12 08:22 / eli-c |

**Report Definitions:**  
RL - Analyte reporting limit.  
MCL - Maximum contaminant level.  
ND - Not detected at the reporting limit.

MDL - Method detection limit  
QCL - Quality control limit.  
MDC - Minimum detectable concentration



## LABORATORY ANALYTICAL REPORT

Prepared by Gillette, WY Branch

**Client:** Rare Element Resources Inc  
**Project:** Upton  
**Lab ID:** G12080072-007  
**Client Sample ID** UAMS #2 Continuous 7/12/12

**Report Date:** 09/17/12  
**Collection Date:** 07/12/12 10:30  
**DateReceived:** 08/02/12  
**Matrix:** Filter

| Analyses   | Result | Units      | Qualifiers | RL | MDL     | Method | Analysis Date / By     |
|--|--------|------------|------------|----|---------|--------|------------------------|
| <b>METALS IN AIR</b>   |        |            |            |    |         |        |                        |
| Cerium   | 34     | ug/filter  |            | 1  | 0.4     | E200.8 | 08/07/12 18:51 / eli-b |
| Lanthanum  | 17     | ug/filter  |            | 1  | 0.4     | E200.8 | 08/07/12 18:51 / eli-b |
| Thorium  | 6      | ug/filter  |            | 1  | 0.02    | E200.8 | 08/07/12 18:51 / eli-b |
| Uranium  | 2      | ug/filter  |            | 1  | 0.00008 | E200.8 | 08/07/12 18:51 / eli-b |
| <b>RADIONUCLIDES - TOTAL</b>   |        |            |            |    |         |        |                        |
| Radium 226   | 1.2    | pCi/Filter |            |    |         | E903.0 | 09/06/12 13:34 / eli-c |
| Radium 226 precision (±)   | 0.5    | pCi/Filter |            |    |         | E903.0 | 09/06/12 13:34 / eli-c |
| Radium 226 MDC   | 0.6    | pCi/Filter |            |    |         | E903.0 | 09/06/12 13:34 / eli-c |
| - For Ra226 sample matrix interference resulted in high chemical recoveries which has likely biased the results low. |        |            |            |    |         |        |                        |
| <b>RADIOCHEMICAL</b>   |        |            |            |    |         |        |                        |
| Thorium 230  | 1.3    | pCi/Filter |            |    |         | E908.0 | 08/24/12 08:22 / eli-c |
| Thorium 230 precision (±)  | 0.52   | pCi/Filter |            |    |         | E908.0 | 08/24/12 08:22 / eli-c |
| Thorium 230 MDC  | 0.53   | pCi/Filter |            |    |         | E908.0 | 08/24/12 08:22 / eli-c |

**Report Definitions:**  
RL - Analyte reporting limit.  
MCL - Maximum contaminant level.  
ND - Not detected at the reporting limit.

MDL - Method detection limit  
QCL - Quality control limit.  
MDC - Minimum detectable concentration

## QA/QC Summary Report

Prepared by Billings, MT Branch

**Client:** Rare Element Resources Inc

**Project:** Upton

**Report Date:** 08/09/12

**Work Order:** G12080072

| Analyte                             | Result                                    | Units     | RL     | %REC | Low Limit | High Limit | RPD                                | RPDLimit                               | Qual |
|-------------------------------------|---|-----------|--------|------|-----------|------------|------------------------------------|--|------|
| <b>Method: E200.8</b>               |   |           |        |      |           |            | Analytical Run: ICPMS203-B_120807A |  |      |
| <b>Sample ID: QCS</b>               | Initial Calibration Verification Standard |           |        |      |           |            |                                    | 08/07/12 12:54                         |      |
| Cerium                              | 0.0493                                    | mg/L      | 0.0010 | 99   | 90        | 110        |                                    |  |      |
| Lanthanum                           | 0.0483                                    | mg/L      | 0.0010 | 97   | 90        | 110        |                                    |  |      |
| Thorium                             | 0.0196                                    | mg/L      | 0.0010 | 98   | 90        | 110        |                                    |  |      |
| Uranium                             | 0.0190                                    | mg/L      | 0.0010 | 95   | 90        | 110        |                                    |  |      |
| <b>Method: E200.8</b>               |   |           |        |      |           |            | Batch: 64380                       |  |      |
| <b>Sample ID: MB-64380</b>          | Method Blank                              |           |        |      |           |            |                                    | Run: ICPMS203-B_120807A 08/07/12 17:57 |      |
| Cerium                              | 0.006                                     | ug/filter | 0.0004 |      |           |            |                                    |  |      |
| Lanthanum                           | 0.009                                     | ug/filter | 0.0004 |      |           |            |                                    |  |      |
| Thorium                             | 0.01                                      | ug/filter | 0.002  |      |           |            |                                    |  |      |
| Uranium                             | 0.01                                      | ug/filter | 7E-06  |      |           |            |                                    |  |      |
| <b>Sample ID: B12080483-012ADUP</b> | Sample Duplicate                          |           |        |      |           |            |                                    | Run: ICPMS203-B_120807A 08/07/12 20:14 |      |
| Cerium                              | 30.9                                      | ug/filter | 1.0    |      |           |            | 3.8                                | 20                                     |      |
| Lanthanum                           | 17.6                                      | ug/filter | 1.0    |      |           |            | 2.0                                | 20                                     |      |
| Thorium                             | 3.43                                      | ug/filter | 1.0    |      |           |            | 4.4                                | 20                                     |      |
| Uranium                             | 1.11                                      | ug/filter | 1.0    |      |           |            | 6.7                                | 20                                     |      |
| <b>Sample ID: LFB-64380</b>         | Laboratory Fortified Blank                |           |        |      |           |            |                                    | Run: ICPMS203-B_120807A 08/07/12 20:19 |      |
| Cerium                              | 10.3                                      | ug/filter | 1.0    | 103  | 80        | 120        |                                    |  |      |
| Lanthanum                           | 10.3                                      | ug/filter | 1.0    | 103  | 80        | 120        |                                    |  |      |
| Thorium                             | 9.26                                      | ug/filter | 1.0    | 92   | 80        | 120        |                                    |  |      |
| Uranium                             | 10.6                                      | ug/filter | 1.0    | 106  | 80        | 120        |                                    |  |      |
| <b>Sample ID: LFBD-64380</b>        | Laboratory Fortified Blank Duplicate      |           |        |      |           |            |                                    | Run: ICPMS203-B_120807A 08/07/12 20:24 |      |
| Cerium                              | 10.1                                      | ug/filter | 1.0    | 101  | 80        | 120        |                                    |  |      |
| Lanthanum                           | 10.2                                      | ug/filter | 1.0    | 102  | 80        | 120        |                                    |  |      |
| Thorium                             | 9.76                                      | ug/filter | 1.0    | 98   | 80        | 120        |                                    |  |      |
| Uranium                             | 10.4                                      | ug/filter | 1.0    | 104  | 80        | 120        |                                    |  |      |
| <b>Sample ID: G12080072-001AMS</b>  | Sample Matrix Spike                       |           |        |      |           |            |                                    | Run: ICPMS203-B_120807A 08/07/12 20:48 |      |
| Cerium                              | 272                                       | ug/filter | 1.0    | 78   | 70        | 130        |                                    |  |      |
| Lanthanum                           | 254                                       | ug/filter | 1.0    | 78   | 70        | 130        |                                    |  |      |
| Thorium                             | 318                                       | ug/filter | 1.0    | 104  | 70        | 130        |                                    |  |      |
| Uranium                             | 313                                       | ug/filter | 1.0    | 103  | 70        | 130        |                                    |  |      |
| <b>Sample ID: G12080072-001AMSD</b> | Sample Matrix Spike Duplicate             |           |        |      |           |            |                                    | Run: ICPMS203-B_120807A 08/07/12 20:53 |      |
| Cerium                              | 347                                       | ug/filter | 1.0    | 103  | 70        | 130        | 24                                 | 20                                     | R    |
| Lanthanum                           | 328                                       | ug/filter | 1.0    | 103  | 70        | 130        | 26                                 | 20                                     | R    |
| Thorium                             | 330                                       | ug/filter | 1.0    | 108  | 70        | 130        | 3.7                                | 20                                     |      |
| Uranium                             | 325                                       | ug/filter | 1.0    | 107  | 70        | 130        | 3.7                                | 20                                     |      |

### Qualifiers:

RL - Analyte reporting limit.

R - RPD exceeds advisory limit.

ND - Not detected at the reporting limit.



## QA/QC Summary Report

Prepared by Casper, WY Branch

**Client:** Rare Element Resources Inc

**Report Date:** 09/10/12

**Project:** Upton

**Work Order:** G12080072

| Analyte                             | Result                        | Units      | RL  | %REC | Low Limit | High Limit              | RPD | RPDLimit | Qual           |
|-------------------------------------|-------------------------------|------------|-----|------|-----------|-------------------------|-----|----------|----------------|
| <b>Method: E903.0</b>               |                               |            |     |      |           |                         |     |          | Batch: 34605   |
| <b>Sample ID: LCS-34605</b>         | Laboratory Control Sample     |            |     |      |           | Run: TENNELEC-3_120829B |     |          | 09/06/12 13:34 |
| Radium 226                          | 13.6                          | pCi/Filter | 112 |      | 70        | 130                     |     |          |                |
| <b>Sample ID: C12080200-012BMS</b>  | Sample Matrix Spike           |            |     |      |           | Run: TENNELEC-3_120829B |     |          | 09/06/12 15:10 |
| Radium 226                          | 74.4                          | pCi/Filter | 86  |      | 70        | 130                     |     |          |                |
| <b>Sample ID: C12080200-012BMDS</b> | Sample Matrix Spike Duplicate |            |     |      |           | Run: TENNELEC-3_120829B |     |          | 09/06/12 15:10 |
| Radium 226                          | 85.4                          | pCi/Filter | 99  |      | 70        | 130                     | 14  | 23.6     |                |
| <b>Sample ID: MB-34605</b>          | Method Blank                  |            |     |      |           | Run: TENNELEC-3_120829B |     |          | 09/06/12 15:10 |
| Radium 226                          | 0.2                           | pCi/Filter |     |      |           |                         |     |          |                |
| Radium 226 precision ( $\pm$ )      | 0.2                           | pCi/Filter |     |      |           |                         |     |          |                |
| Radium 226 MDC                      | 0.2                           | pCi/Filter |     |      |           |                         |     |          |                |

### Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



## QA/QC Summary Report

Prepared by Casper, WY Branch

**Client:** Rare Element Resources Inc

**Project:** Upton

**Report Date:** 09/10/12

**Work Order:** G12080072

| Analyte                             | Result                        | Units      | RL  | %REC | Low Limit | High Limit               | RPD | RPDLimit | Qual           |
|-------------------------------------|-------------------------------|------------|-----|------|-----------|--------------------------|-----|----------|----------------|
| <b>Method: E908.0</b>               |                               |            |     |      |           |                          |     |          | Batch: 34605   |
| <b>Sample ID: C12080200-007BMS</b>  | Sample Matrix Spike           |            |     |      |           | Run: ALPHANALYST_120822C |     |          | 08/24/12 08:22 |
| Thorium 230                         | 114                           | pCi/Filter | 110 |      | 70        | 130                      |     |          |                |
| <b>Sample ID: C12080200-007BMSD</b> | Sample Matrix Spike Duplicate |            |     |      |           | Run: ALPHANALYST_120822C |     |          | 08/24/12 08:22 |
| Thorium 230                         | 107                           | pCi/Filter | 104 |      | 70        | 130                      | 5.7 | 30.4     |                |
| <b>Sample ID: LCS-34605</b>         | Laboratory Control Sample     |            |     |      |           | Run: ALPHANALYST_120822C |     |          | 08/24/12 08:23 |
| Thorium 230                         | 10.7                          | pCi/Filter | 109 |      | 80        | 120                      |     |          |                |
| <b>Sample ID: MB-34605</b>          | Method Blank                  |            |     |      |           | Run: ALPHANALYST_120822C |     |          | 08/24/12 08:23 |
| Thorium 230                         | 0.1                           | pCi/Filter |     |      |           |                          |     |          | U              |
| Thorium 230 precision ( $\pm$ )     | 0.09                          | pCi/Filter |     |      |           |                          |     |          |                |
| Thorium 230 MDC                     | 0.1                           | pCi/Filter |     |      |           |                          |     |          |                |

### Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration

# Standard Reporting Procedures

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as –dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

## Workorder Receipt Checklist

Rare Element Resources Inc

G12080072

Login completed by: Amanda Alley

Date Received: 8/2/2012

Reviewed by: BL2000\kscottruff

Received by: kls

Reviewed Date: 8/3/2012

Carrier Hand Del  
name:

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

Contact and Corrective Action Comments:

None

