

# ANALYTICAL SUMMARY REPORT

June 28, 2012

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

Workorder No.: G12050337

Project Name: Bear Lodge

Energy Laboratories Inc. Gillette WY received the following 17 samples for Rare Element Resources Inc on 05/09/2012 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
G12050337-001	AMS#1 Continuous 1-13-12	01/13/12 11:18	05/09/12	Filter	Metals on air filter by ICP/ICPMS Digestion, Total Metals Nitric acid-extraction Radium 226 Thorium, Isotopic
G12050337-002	AMS#1 Continuous 3-09-12	03/09/12 11:29	05/09/12	Filter	Same As Above
G12050337-003	AMS#1 Continuous 2-14-12	02/14/12 11:23	05/09/12	Filter	Same As Above
G12050337-004	AMS#2 Continuous 1-20-12	01/20/12 11:10	05/09/12	Filter	Same As Above
G12050337-005	AMS#2 Continuous 2-21-12	02/21/12 11:36	05/09/12	Filter	Same As Above
G12050337-006	AMS#3 Continuous 1-30-12	01/30/12 12:05	05/09/12	Filter	Same As Above
G12050337-007	AMS#3 Continuous 3-5-12	03/05/12 12:14	05/09/12	Filter	Same As Above
G12050337-008	AMS#4 Continuous 1-9-12	01/09/12 10:30	05/09/12	Filter	Same As Above
G12050337-009	AMS#4 Continuous 2-6-12	02/06/12 11:40	05/09/12	Filter	Same As Above
G12050337-010	AMS#2 Continuous 3-19-12	03/19/12 13:46	05/09/12	Filter	Same As Above
G12050337-011	AMS#3 Continuous 3-26-12	03/26/12 11:55	05/09/12	Filter	Same As Above
G12050337-012	AMS#4 Continuous 3-30-12	03/30/12 10:12	05/09/12	Filter	Same As Above
G12050337-013	AMS#1 Continuous 4-6-12	04/06/12 12:44	05/09/12	Filter	Same As Above
G12050337-014	AMS#2 Continuous 4-13-12	04/13/12 10:36	05/09/12	Filter	Same As Above
G12050337-015	AMS#3 Continuous 4-20-12	04/20/12 10:00	05/09/12	Filter	Same As Above
G12050337-016	AMS#4 Continuous 4-30-12	04/30/12 12:05	05/09/12	Filter	Same As Above
G12050337-017	AMS#1 Continuous 5-7-12	05/07/12 12:14	05/09/12	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.



## ANALYTICAL SUMMARY REPORT

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:** Bear Lodge  
**Sample Delivery Group:** G12050337

**Report Date:** 06/28/12

## 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.

The Thorium recovery for LFB-62466 and LFBD-62466 was 35% and 37% respectively which is outside of the method recommended criteria of 80%-120%. It was determined in an in-house study that Thorium in concentrations greater than 1 mg/L recovers erratically through the digestion procedure outlined in 40 CFR 50G. The Thorium concentration in the LFB-62466 and LFBD-62466 was 100 mg/L. The Thorium concentration in the filters was below this concentration.

### LABORATORY ANALYTICAL REPORT

Prepared by Gillette, WY Branch

**Client:** Rare Element Resources Inc  
**Project:** Bear Lodge  
**Lab ID:** G12050337-001  
**Client Sample ID** AMS#1 Continuous 1-13-12

**Report Date:** 06/21/12  
**Collection Date:** 01/13/12 11:18  
**DateReceived:** 05/09/12  
**Matrix:** Filter

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By
<b>METALS IN AIR</b>							
Cerium	13	ug/filter		1	0.002	E200.8	05/21/12 17:40 / eli-b
Lanthanum	7	ug/filter		1	0.001	E200.8	05/21/12 17:40 / eli-b
Thorium	2	ug/filter		1	0.02	E200.8	05/17/12 13:33 / eli-b
Uranium	ND	ug/filter		1	0.00005	E200.8	05/17/12 01:04 / eli-b
<b>RADIONUCLIDES - TOTAL</b>							
Radium 226	5.9	pCi/Filter				E903.0	06/16/12 10:31 / eli-c
Radium 226 precision (±)	1.3	pCi/Filter				E903.0	06/16/12 10:31 / eli-c
Radium 226 MDC	0.9	pCi/Filter				E903.0	06/16/12 10:31 / eli-c
<b>RADIOCHEMICAL</b>							
Thorium 230	1.2	pCi/Filter				E908.0	05/31/12 08:47 / eli-c
Thorium 230 precision (±)	0.51	pCi/Filter				E908.0	05/31/12 08:47 / eli-c
Thorium 230 MDC	0.50	pCi/Filter				E908.0	05/31/12 08:47 / 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:** Bear Lodge  
**Lab ID:** G12050337-002  
**Client Sample ID** AMS#1 Continuous 3-09-12

**Report Date:** 06/21/12  
**Collection Date:** 03/09/12 11:29  
**DateReceived:** 05/09/12  
**Matrix:** Filter

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By
<b>METALS IN AIR</b>							
Cerium	13	ug/filter		1	0.002	E200.8	05/21/12 17:49 / eli-b
Lanthanum	6	ug/filter		1	0.001	E200.8	05/21/12 17:49 / eli-b
Thorium	2	ug/filter		1	0.02	E200.8	05/17/12 13:38 / eli-b
Uranium	ND	ug/filter		1	0.00005	E200.8	05/17/12 01:08 / eli-b
<b>RADIONUCLIDES - TOTAL</b>							
Radium 226	4.2	pCi/Filter				E903.0	06/16/12 10:31 / eli-c
Radium 226 precision (±)	1.1	pCi/Filter				E903.0	06/16/12 10:31 / eli-c
Radium 226 MDC	0.9	pCi/Filter				E903.0	06/16/12 10:31 / eli-c
<b>RADIOCHEMICAL</b>							
Thorium 230	0.74	pCi/Filter				E908.0	05/31/12 08:47 / eli-c
Thorium 230 precision (±)	0.40	pCi/Filter				E908.0	05/31/12 08:47 / eli-c
Thorium 230 MDC	0.48	pCi/Filter				E908.0	05/31/12 08:47 / 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:** Bear Lodge  
**Lab ID:** G12050337-003  
**Client Sample ID** AMS#1 Continuous 2-14-12

**Report Date:** 06/21/12  
**Collection Date:** 02/14/12 11:23  
**DateReceived:** 05/09/12  
**Matrix:** Filter

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By
<b>METALS IN AIR</b>							
Cerium	14	ug/filter		1	0.002	E200.8	05/21/12 17:51 / eli-b
Lanthanum	7	ug/filter		1	0.001	E200.8	05/21/12 17:51 / eli-b
Thorium	2	ug/filter		1	0.02	E200.8	05/17/12 13:42 / eli-b
Uranium	ND	ug/filter		1	0.00005	E200.8	05/17/12 01:12 / eli-b
<b>RADIONUCLIDES - TOTAL</b>							
Radium 226	6.8	pCi/Filter				E903.0	06/16/12 10:31 / eli-c
Radium 226 precision (±)	1.3	pCi/Filter				E903.0	06/16/12 10:31 / eli-c
Radium 226 MDC	0.9	pCi/Filter				E903.0	06/16/12 10:31 / eli-c
<b>RADIOCHEMICAL</b>							
Thorium 230	0.67	pCi/Filter				E908.0	05/31/12 08:47 / eli-c
Thorium 230 precision (±)	0.42	pCi/Filter				E908.0	05/31/12 08:47 / eli-c
Thorium 230 MDC	0.56	pCi/Filter				E908.0	05/31/12 08:47 / 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:** Bear Lodge  
**Lab ID:** G12050337-004  
**Client Sample ID** AMS#2 Continuous 1-20-12

**Report Date:** 06/21/12  
**Collection Date:** 01/20/12 11:10  
**DateReceived:** 05/09/12  
**Matrix:** Filter

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By
<b>METALS IN AIR</b>							
Cerium	11	ug/filter		1	0.002	E200.8	05/21/12 18:01 / eli-b
Lanthanum	6	ug/filter		1	0.001	E200.8	05/21/12 18:01 / eli-b
Thorium	2	ug/filter		1	0.02	E200.8	05/17/12 13:47 / eli-b
Uranium	ND	ug/filter		1	0.00005	E200.8	05/17/12 01:16 / eli-b
<b>RADIONUCLIDES - TOTAL</b>							
Radium 226	2.3	pCi/Filter				E903.0	06/16/12 10:31 / eli-c
Radium 226 precision (±)	0.8	pCi/Filter				E903.0	06/16/12 10:31 / eli-c
Radium 226 MDC	0.8	pCi/Filter				E903.0	06/16/12 10:31 / eli-c
<b>RADIOCHEMICAL</b>							
Thorium 230	0.61	pCi/Filter	U			E908.0	05/31/12 08:47 / eli-c
Thorium 230 precision (±)	0.51	pCi/Filter				E908.0	05/31/12 08:47 / eli-c
Thorium 230 MDC	0.82	pCi/Filter				E908.0	05/31/12 08:47 / eli-c

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

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:** Bear Lodge  
**Lab ID:** G12050337-005  
**Client Sample ID** AMS#2 Continuous 2-21-12

**Report Date:** 06/21/12  
**Collection Date:** 02/21/12 11:36  
**DateReceived:** 05/09/12  
**Matrix:** Filter

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By
<b>METALS IN AIR</b>							
Cerium	20	ug/filter		1	0.002	E200.8	05/21/12 18:02 / eli-b
Lanthanum	12	ug/filter		1	0.001	E200.8	05/21/12 18:02 / eli-b
Thorium	2	ug/filter		1	0.02	E200.8	05/17/12 13:51 / eli-b
Uranium	ND	ug/filter		1	0.00005	E200.8	05/17/12 01:21 / eli-b
<b>RADIONUCLIDES - TOTAL</b>							
Radium 226	7.4	pCi/Filter				E903.0	06/16/12 10:31 / eli-c
Radium 226 precision (±)	1.3	pCi/Filter				E903.0	06/16/12 10:31 / eli-c
Radium 226 MDC	0.9	pCi/Filter				E903.0	06/16/12 10:31 / eli-c
<b>RADIOCHEMICAL</b>							
Thorium 230	1.1	pCi/Filter				E908.0	05/31/12 08:47 / eli-c
Thorium 230 precision (±)	0.46	pCi/Filter				E908.0	05/31/12 08:47 / eli-c
Thorium 230 MDC	0.43	pCi/Filter				E908.0	05/31/12 08:47 / 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:** Bear Lodge  
**Lab ID:** G12050337-006  
**Client Sample ID** AMS#3 Continuous 1-30-12

**Report Date:** 06/21/12  
**Collection Date:** 01/30/12 12:05  
**DateReceived:** 05/09/12  
**Matrix:** Filter

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By
<b>METALS IN AIR</b>							
Cerium	11	ug/filter		1	0.002	E200.8	05/21/12 18:04 / eli-b
Lanthanum	6	ug/filter		1	0.001	E200.8	05/21/12 18:04 / eli-b
Thorium	1	ug/filter		1	0.02	E200.8	05/17/12 13:55 / eli-b
Uranium	ND	ug/filter		1	0.00005	E200.8	05/17/12 01:25 / eli-b
<b>RADIONUCLIDES - TOTAL</b>							
Radium 226	0.6	pCi/Filter	U			E903.0	06/16/12 10:31 / eli-c
Radium 226 precision (±)	0.6	pCi/Filter				E903.0	06/16/12 10:31 / eli-c
Radium 226 MDC	0.8	pCi/Filter				E903.0	06/16/12 10:31 / eli-c
<b>RADIOCHEMICAL</b>							
Thorium 230	0.56	pCi/Filter				E908.0	05/31/12 08:47 / eli-c
Thorium 230 precision (±)	0.36	pCi/Filter				E908.0	05/31/12 08:47 / eli-c
Thorium 230 MDC	0.48	pCi/Filter				E908.0	05/31/12 08:47 / eli-c

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

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:** Bear Lodge  
**Lab ID:** G12050337-007  
**Client Sample ID** AMS#3 Continuous 3-5-12

**Report Date:** 06/21/12  
**Collection Date:** 03/05/12 12:14  
**DateReceived:** 05/09/12  
**Matrix:** Filter

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By
<b>METALS IN AIR</b>							
Cerium	10	ug/filter		1	0.002	E200.8	05/21/12 18:06 / eli-b
Lanthanum	5	ug/filter		1	0.001	E200.8	05/21/12 18:06 / eli-b
Thorium	2	ug/filter		1	0.02	E200.8	05/17/12 14:00 / eli-b
Uranium	ND	ug/filter		1	0.00005	E200.8	05/17/12 01:29 / eli-b
<b>RADIONUCLIDES - TOTAL</b>							
Radium 226	2.2	pCi/Filter				E903.0	06/16/12 10:31 / eli-c
Radium 226 precision (±)	0.8	pCi/Filter				E903.0	06/16/12 10:31 / eli-c
Radium 226 MDC	0.9	pCi/Filter				E903.0	06/16/12 10:31 / eli-c
<b>RADIOCHEMICAL</b>							
Thorium 230	0.39	pCi/Filter	U			E908.0	05/31/12 08:47 / eli-c
Thorium 230 precision (±)	0.31	pCi/Filter				E908.0	05/31/12 08:47 / eli-c
Thorium 230 MDC	0.49	pCi/Filter				E908.0	05/31/12 08:47 / eli-c

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

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:** Bear Lodge  
**Lab ID:** G12050337-008  
**Client Sample ID** AMS#4 Continuous 1-9-12

**Report Date:** 06/21/12  
**Collection Date:** 01/09/12 10:30  
**DateReceived:** 05/09/12  
**Matrix:** Filter

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By
<b>METALS IN AIR</b>							
Cerium	11	ug/filter		1	0.002	E200.8	05/21/12 18:07 / eli-b
Lanthanum	6	ug/filter		1	0.001	E200.8	05/21/12 18:07 / eli-b
Thorium	2	ug/filter		1	0.02	E200.8	05/17/12 14:04 / eli-b
Uranium	ND	ug/filter		1	0.00005	E200.8	05/17/12 01:33 / eli-b
<b>RADIONUCLIDES - TOTAL</b>							
Radium 226	4.3	pCi/Filter				E903.0	06/16/12 10:31 / eli-c
Radium 226 precision (±)	1.0	pCi/Filter				E903.0	06/16/12 10:31 / eli-c
Radium 226 MDC	0.8	pCi/Filter				E903.0	06/16/12 10:31 / eli-c
<b>RADIOCHEMICAL</b>							
Thorium 230	0.94	pCi/Filter				E908.0	05/31/12 08:47 / eli-c
Thorium 230 precision (±)	0.47	pCi/Filter				E908.0	05/31/12 08:47 / eli-c
Thorium 230 MDC	0.54	pCi/Filter				E908.0	05/31/12 08:47 / 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:** Bear Lodge  
**Lab ID:** G12050337-009  
**Client Sample ID** AMS#4 Continuous 2-6-12

**Report Date:** 06/21/12  
**Collection Date:** 02/06/12 11:40  
**DateReceived:** 05/09/12  
**Matrix:** Filter

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By
<b>METALS IN AIR</b>							
Cerium	13	ug/filter		1	0.002	E200.8	05/21/12 18:09 / eli-b
Lanthanum	7	ug/filter		1	0.001	E200.8	05/21/12 18:09 / eli-b
Thorium	2	ug/filter		1	0.02	E200.8	05/17/12 14:09 / eli-b
Uranium	ND	ug/filter		1	0.00005	E200.8	05/17/12 01:38 / eli-b
<b>RADIONUCLIDES - TOTAL</b>							
Radium 226	5.2	pCi/Filter				E903.0	06/16/12 12:50 / eli-c
Radium 226 precision (±)	1.2	pCi/Filter				E903.0	06/16/12 12:50 / eli-c
Radium 226 MDC	0.9	pCi/Filter				E903.0	06/16/12 12:50 / eli-c
<b>RADIOCHEMICAL</b>							
Thorium 230	1.1	pCi/Filter				E908.0	05/31/12 08:48 / eli-c
Thorium 230 precision (±)	0.49	pCi/Filter				E908.0	05/31/12 08:48 / eli-c
Thorium 230 MDC	0.52	pCi/Filter				E908.0	05/31/12 08:48 / 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:** Bear Lodge  
**Lab ID:** G12050337-010  
**Client Sample ID** AMS#2 Continuous 3-19-12

**Report Date:** 06/21/12  
**Collection Date:** 03/19/12 13:46  
**DateReceived:** 05/09/12  
**Matrix:** Filter

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By
<b>METALS IN AIR</b>							
Cerium	15	ug/filter		1	0.002	E200.8	05/21/12 18:11 / eli-b
Lanthanum	8	ug/filter		1	0.001	E200.8	05/21/12 18:11 / eli-b
Thorium	5	ug/filter		1	0.02	E200.8	05/17/12 14:56 / eli-b
Uranium	ND	ug/filter		1	0.00005	E200.8	05/17/12 01:42 / eli-b
<b>RADIONUCLIDES - TOTAL</b>							
Radium 226	3.9	pCi/Filter				E903.0	06/16/12 12:50 / eli-c
Radium 226 precision (±)	1.0	pCi/Filter				E903.0	06/16/12 12:50 / eli-c
Radium 226 MDC	0.9	pCi/Filter				E903.0	06/16/12 12:50 / eli-c
<b>RADIOCHEMICAL</b>							
Thorium 230	0.84	pCi/Filter				E908.0	05/31/12 08:48 / eli-c
Thorium 230 precision (±)	0.45	pCi/Filter				E908.0	05/31/12 08:48 / eli-c
Thorium 230 MDC	0.55	pCi/Filter				E908.0	05/31/12 08:48 / 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:** Bear Lodge  
**Lab ID:** G12050337-011  
**Client Sample ID** AMS#3 Continuous 3-26-12

**Report Date:** 06/21/12  
**Collection Date:** 03/26/12 11:55  
**DateReceived:** 05/09/12  
**Matrix:** Filter

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By
<b>METALS IN AIR</b>							
Cerium	13	ug/filter		1	0.002	E200.8	05/21/12 18:12 / eli-b
Lanthanum	7	ug/filter		1	0.001	E200.8	05/21/12 18:12 / eli-b
Thorium	3	ug/filter		1	0.02	E200.8	05/17/12 15:01 / eli-b
Uranium	ND	ug/filter		1	0.00005	E200.8	05/17/12 02:04 / eli-b
<b>RADIONUCLIDES - TOTAL</b>							
Radium 226	1.8	pCi/Filter				E903.0	06/16/12 12:50 / eli-c
Radium 226 precision (±)	0.8	pCi/Filter				E903.0	06/16/12 12:50 / eli-c
Radium 226 MDC	0.8	pCi/Filter				E903.0	06/16/12 12:50 / eli-c
<b>RADIOCHEMICAL</b>							
Thorium 230	0.37	pCi/Filter	U			E908.0	05/31/12 08:48 / eli-c
Thorium 230 precision (±)	0.34	pCi/Filter				E908.0	05/31/12 08:48 / eli-c
Thorium 230 MDC	0.55	pCi/Filter				E908.0	05/31/12 08:48 / eli-c

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

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:** Bear Lodge  
**Lab ID:** G12050337-012  
**Client Sample ID** AMS#4 Continuous 3-30-12

**Report Date:** 06/21/12  
**Collection Date:** 03/30/12 10:12  
**DateReceived:** 05/09/12  
**Matrix:** Filter

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By
<b>METALS IN AIR</b>							
Cerium	18	ug/filter		1	0.002	E200.8	05/21/12 18:14 / eli-b
Lanthanum	9	ug/filter		1	0.001	E200.8	05/21/12 18:14 / eli-b
Thorium	3	ug/filter		1	0.02	E200.8	05/17/12 15:05 / eli-b
Uranium	ND	ug/filter		1	0.00005	E200.8	05/17/12 02:08 / eli-b
<b>RADIONUCLIDES - TOTAL</b>							
Radium 226	4.1	pCi/Filter				E903.0	06/16/12 12:50 / eli-c
Radium 226 precision (±)	1.0	pCi/Filter				E903.0	06/16/12 12:50 / eli-c
Radium 226 MDC	0.8	pCi/Filter				E903.0	06/16/12 12:50 / eli-c
<b>RADIOCHEMICAL</b>							
Thorium 230	0.52	pCi/Filter	U			E908.0	05/31/12 08:48 / eli-c
Thorium 230 precision (±)	0.37	pCi/Filter				E908.0	05/31/12 08:48 / eli-c
Thorium 230 MDC	0.53	pCi/Filter				E908.0	05/31/12 08:48 / eli-c

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

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:** Bear Lodge  
**Lab ID:** G12050337-013  
**Client Sample ID** AMS#1 Continuous 4-6-12

**Report Date:** 06/21/12  
**Collection Date:** 04/06/12 12:44  
**DateReceived:** 05/09/12  
**Matrix:** Filter

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By
<b>METALS IN AIR</b>							
Cerium	20	ug/filter		1	0.002	E200.8	05/21/12 18:24 / eli-b
Lanthanum	10	ug/filter		1	0.001	E200.8	05/21/12 18:24 / eli-b
Thorium	3	ug/filter		1	0.02	E200.8	05/17/12 15:09 / eli-b
Uranium	ND	ug/filter		1	0.00005	E200.8	05/17/12 02:12 / eli-b
<b>RADIONUCLIDES - TOTAL</b>							
Radium 226	3.1	pCi/Filter				E903.0	06/16/12 12:50 / eli-c
Radium 226 precision (±)	0.9	pCi/Filter				E903.0	06/16/12 12:50 / eli-c
Radium 226 MDC	0.8	pCi/Filter				E903.0	06/16/12 12:50 / eli-c
<b>RADIOCHEMICAL</b>							
Thorium 230	0.71	pCi/Filter				E908.0	05/31/12 08:48 / eli-c
Thorium 230 precision (±)	0.42	pCi/Filter				E908.0	05/31/12 08:48 / eli-c
Thorium 230 MDC	0.55	pCi/Filter				E908.0	05/31/12 08:48 / 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:** Bear Lodge  
**Lab ID:** G12050337-014  
**Client Sample ID** AMS#2 Continuous 4-13-12

**Report Date:** 06/21/12  
**Collection Date:** 04/13/12 10:36  
**DateReceived:** 05/09/12  
**Matrix:** Filter

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By
<b>METALS IN AIR</b>							
Cerium	20	ug/filter		1	0.002	E200.8	05/21/12 18:26 / eli-b
Lanthanum	11	ug/filter		1	0.001	E200.8	05/21/12 18:26 / eli-b
Thorium	4	ug/filter		1	0.02	E200.8	05/17/12 15:14 / eli-b
Uranium	ND	ug/filter		1	0.00005	E200.8	05/17/12 02:16 / eli-b
<b>RADIONUCLIDES - TOTAL</b>							
Radium 226	1.4	pCi/Filter				E903.0	06/16/12 12:50 / eli-c
Radium 226 precision (±)	0.7	pCi/Filter				E903.0	06/16/12 12:50 / eli-c
Radium 226 MDC	0.9	pCi/Filter				E903.0	06/16/12 12:50 / eli-c
<b>RADIOCHEMICAL</b>							
Thorium 230	0.72	pCi/Filter				E908.0	05/31/12 08:48 / eli-c
Thorium 230 precision (±)	0.41	pCi/Filter				E908.0	05/31/12 08:48 / eli-c
Thorium 230 MDC	0.52	pCi/Filter				E908.0	05/31/12 08:48 / 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:** Bear Lodge  
**Lab ID:** G12050337-015  
**Client Sample ID** AMS#3 Continuous 4-20-12

**Report Date:** 06/21/12  
**Collection Date:** 04/20/12 10:00  
**DateReceived:** 05/09/12  
**Matrix:** Filter

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By
<b>METALS IN AIR</b>							
Cerium	14	ug/filter		1	0.002	E200.8	05/21/12 18:28 / eli-b
Lanthanum	7	ug/filter		1	0.001	E200.8	05/21/12 18:28 / eli-b
Thorium	2	ug/filter		1	0.02	E200.8	05/17/12 15:18 / eli-b
Uranium	ND	ug/filter		1	0.00005	E200.8	05/17/12 02:21 / eli-b
<b>RADIONUCLIDES - TOTAL</b>							
Radium 226	0.05	pCi/Filter	U			E903.0	06/16/12 12:50 / eli-c
Radium 226 precision (±)	0.7	pCi/Filter				E903.0	06/16/12 12:50 / eli-c
Radium 226 MDC	1.2	pCi/Filter				E903.0	06/16/12 12:50 / eli-c
<b>RADIOCHEMICAL</b>							
Thorium 230	0.99	pCi/Filter				E908.0	05/31/12 08:48 / eli-c
Thorium 230 precision (±)	0.49	pCi/Filter				E908.0	05/31/12 08:48 / eli-c
Thorium 230 MDC	0.58	pCi/Filter				E908.0	05/31/12 08:48 / eli-c

**Report Definitions:**

RL - Analyte reporting limit.	MDL - Method detection limit
MCL - Maximum contaminant level.	QCL - Quality control limit.
ND - Not detected at the reporting limit.	MDC - Minimum detectable concentration
U - Not detected at minimum detectable concentration	



### LABORATORY ANALYTICAL REPORT

Prepared by Gillette, WY Branch

**Client:** Rare Element Resources Inc  
**Project:** Bear Lodge  
**Lab ID:** G12050337-016  
**Client Sample ID** AMS#4 Continuous 4-30-12

**Report Date:** 06/21/12  
**Collection Date:** 04/30/12 12:05  
**DateReceived:** 05/09/12  
**Matrix:** Filter

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By
<b>METALS IN AIR</b>							
Cerium	14	ug/filter		1	0.002	E200.8	05/21/12 18:30 / eli-b
Lanthanum	7	ug/filter		1	0.001	E200.8	05/21/12 18:30 / eli-b
Thorium	2	ug/filter		1	0.02	E200.8	05/17/12 15:23 / eli-b
Uranium	ND	ug/filter		1	0.00005	E200.8	05/17/12 02:25 / eli-b
<b>RADIONUCLIDES - TOTAL</b>							
Radium 226	3.7	pCi/Filter				E903.0	06/16/12 12:50 / eli-c
Radium 226 precision (±)	1.1	pCi/Filter				E903.0	06/16/12 12:50 / eli-c
Radium 226 MDC	0.9	pCi/Filter				E903.0	06/16/12 12:50 / eli-c
<b>RADIOCHEMICAL</b>							
Thorium 230	0.96	pCi/Filter				E908.0	05/31/12 08:48 / eli-c
Thorium 230 precision (±)	0.52	pCi/Filter				E908.0	05/31/12 08:48 / eli-c
Thorium 230 MDC	0.62	pCi/Filter				E908.0	05/31/12 08:48 / 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:** Bear Lodge  
**Lab ID:** G12050337-017  
**Client Sample ID** AMS#1 Continuous 5-7-12

**Report Date:** 06/21/12  
**Collection Date:** 05/07/12 12:14  
**DateReceived:** 05/09/12  
**Matrix:** Filter

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By
<b>METALS IN AIR</b>							
Cerium	15	ug/filter		1	0.002	E200.8	05/21/12 18:31 / eli-b
Lanthanum	8	ug/filter		1	0.001	E200.8	05/21/12 18:31 / eli-b
Thorium	2	ug/filter		1	0.02	E200.8	05/17/12 15:27 / eli-b
Uranium	ND	ug/filter		1	0.00005	E200.8	05/17/12 02:29 / eli-b
<b>RADIONUCLIDES - TOTAL</b>							
Radium 226	3.7	pCi/Filter				E903.0	06/16/12 21:26 / eli-c
Radium 226 precision (±)	1.1	pCi/Filter				E903.0	06/16/12 21:26 / eli-c
Radium 226 MDC	1	pCi/Filter				E903.0	06/16/12 21:26 / eli-c
<b>RADIOCHEMICAL</b>							
Thorium 230	1.1	pCi/Filter				E908.0	05/31/12 08:48 / eli-c
Thorium 230 precision (±)	0.46	pCi/Filter				E908.0	05/31/12 08:48 / eli-c
Thorium 230 MDC	0.41	pCi/Filter				E908.0	05/31/12 08:48 / 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:** Bear Lodge

**Report Date:** 06/07/12  
**Work Order:** G12050337

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
<b>Method: E200.8</b>								Analytical Run: ICPMS202-B_120516A		
<b>Sample ID: QCS</b>	Initial Calibration Verification Standard									05/16/12 23:30
Uranium		0.0188	mg/L	0.0010	94	90	110			
<b>Method: E200.8</b>								Batch: 62466		
<b>Sample ID: MB-62466</b>	Method Blank									Run: ICPMS202-B_120516A 05/17/12 00:42
Uranium		0.02	ug/filter	4E-06						
<b>Sample ID: G12050337-017ADUP</b>	Sample Duplicate									Run: ICPMS202-B_120516A 05/17/12 02:33
Uranium		0.702	ug/filter	1.0						20
<b>Sample ID: LFB-62466</b>	Laboratory Fortified Blank									Run: ICPMS202-B_120516A 05/17/12 02:42
Uranium		97.0	ug/filter	1.0	97	80	120			
<b>Sample ID: LFBD-62466</b>	Laboratory Fortified Blank Duplicate									Run: ICPMS202-B_120516A 05/17/12 03:04
Uranium		99.2	ug/filter	1.0	99	80	120	2.2		20
<b>Sample ID: G12050337-010AMS</b>	Sample Matrix Spike									Run: ICPMS202-B_120516A 05/17/12 03:08
Uranium		268	ug/filter	1.0	89	70	130			
<b>Sample ID: G12050337-010AMSD</b>	Sample Matrix Spike Duplicate									Run: ICPMS202-B_120516A 05/17/12 03:12
Uranium		272	ug/filter	1.0	90	70	130	1.6		20
<b>Sample ID: G12050337-001AMS</b>	Sample Matrix Spike									Run: ICPMS202-B_120516A 05/17/12 03:17
Uranium		264	ug/filter	1.0	88	70	130			
<b>Sample ID: G12050337-001AMSD</b>	Sample Matrix Spike Duplicate									Run: ICPMS202-B_120516A 05/17/12 03:21
Uranium		271	ug/filter	1.0	90	70	130	2.4		20

**Qualifiers:**

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

# QA/QC Summary Report

Prepared by Billings, MT Branch

**Client:** Rare Element Resources Inc  
**Project:** Bear Lodge

**Report Date:** 06/07/12  
**Work Order:** G12050337

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
<b>Method: E200.8</b>								Analytical Run: ICPMS202-B_120521B		
<b>Sample ID: QCS</b>	2	Initial Calibration Verification Standard								05/21/12 12:23
Cerium		0.0509	mg/L	0.0010	102	90	110			
Lanthanum		0.0503	mg/L	0.0010	101	90	110			
<b>Method: E200.8</b>								Batch: 62466		
<b>Sample ID: MB-62466</b>	2	Method Blank						Run: ICPMS202-B_120521B		05/21/12 17:10
Cerium		0.01	ug/filter	0.0002						
Lanthanum		0.01	ug/filter	0.0001						
<b>Sample ID: LFB-62466</b>	2	Laboratory Fortified Blank						Run: ICPMS202-B_120521B		05/21/12 17:23
Cerium		105	ug/filter	1.0	105	80	120			
Lanthanum		105	ug/filter	1.0	105	80	120			
<b>Sample ID: LFBD-62466</b>	2	Laboratory Fortified Blank Duplicate						Run: ICPMS202-B_120521B		05/21/12 17:35
Cerium		101	ug/filter	1.0	101	80	120			20
Lanthanum		101	ug/filter	1.0	101	80	120			20
<b>Sample ID: G12050337-001AMS</b>	2	Sample Matrix Spike						Run: ICPMS202-B_120521B		05/21/12 17:42
Cerium		292	ug/filter	1.0	93	70	130			
Lanthanum		286	ug/filter	1.0	93	70	130			
<b>Sample ID: G12050337-001AMSD</b>	2	Sample Matrix Spike Duplicate						Run: ICPMS202-B_120521B		05/21/12 17:44
Cerium		293	ug/filter	1.0	93	70	130	0.2		20
Lanthanum		287	ug/filter	1.0	93	70	130	0.2		20
<b>Sample ID: G12050337-017ADUP</b>	2	Sample Duplicate						Run: ICPMS202-B_120521B		05/21/12 18:33
Cerium		14.5	ug/filter	1.0				1.4		20
Lanthanum		7.51	ug/filter	1.0				3.1		20
<b>Sample ID: G12050337-010AMS</b>	2	Sample Matrix Spike						Run: ICPMS202-B_120521B		05/21/12 18:36
Cerium		290	ug/filter	1.0	92	70	130			
Lanthanum		282	ug/filter	1.0	91	70	130			
<b>Sample ID: G12050337-010AMSD</b>	2	Sample Matrix Spike Duplicate						Run: ICPMS202-B_120521B		05/21/12 18:38
Cerium		309	ug/filter	1.0	98	70	130	6.2		20
Lanthanum		299	ug/filter	1.0	97	70	130	6.0		20

**Qualifiers:**

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

# QA/QC Summary Report

Prepared by Billings, MT Branch

**Client:** Rare Element Resources Inc  
**Project:** Bear Lodge

**Report Date:** 06/07/12  
**Work Order:** G12050337

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
<b>Method: E200.8</b>								Analytical Run: ICPMS203-B_120517A		
<b>Sample ID: QCS</b>	Initial Calibration Verification Standard									05/17/12 12:31
Thorium		0.0204	mg/L	0.0010	102	90	110			
<b>Method: E200.8</b>								Batch: 62466		
<b>Sample ID: MB-62466</b>	Method Blank									Run: ICPMS203-B_120517A 05/17/12 13:29
Thorium		0.004	ug/filter	0.002						
<b>Sample ID: G12050337-017ADUP</b>	Sample Duplicate									Run: ICPMS203-B_120517A 05/17/12 15:31
Thorium		2.09	ug/filter	1.0				0.5	20	
<b>Sample ID: LFB-62466</b>	Laboratory Fortified Blank									Run: ICPMS203-B_120517A 05/17/12 15:58
Thorium		35.4	ug/filter	1.0	35	80	120			S
<b>Sample ID: LFBD-62466</b>	Laboratory Fortified Blank Duplicate									Run: ICPMS203-B_120517A 05/17/12 16:03
Thorium		37.3	ug/filter	1.0	37	80	120	35	20	SR
<b>Sample ID: G12050337-001AMS</b>	Sample Matrix Spike									Run: ICPMS203-B_120517A 05/17/12 16:07
Thorium		302	ug/filter	1.0	100	70	130			
<b>Sample ID: G12050337-001AMSD</b>	Sample Matrix Spike Duplicate									Run: ICPMS203-B_120517A 05/17/12 16:11
Thorium		310	ug/filter	1.0	103	70	130	2.6	20	
<b>Sample ID: G12050337-010AMS</b>	Sample Matrix Spike									Run: ICPMS203-B_120517A 05/17/12 16:16
Thorium		306	ug/filter	1.0	100	70	130			
<b>Sample ID: G12050337-010AMSD</b>	Sample Matrix Spike Duplicate									Run: ICPMS203-B_120517A 05/17/12 16:20
Thorium		304	ug/filter	1.0	100	70	130	0.8	20	

**Qualifiers:**

RL - Analyte reporting limit.  
R - RPD exceeds advisory limit.

ND - Not detected at the reporting limit.  
S - Spike recovery outside of advisory limits.



# QA/QC Summary Report

Prepared by Casper, WY Branch

**Client:** Rare Element Resources Inc  
**Project:** Bear Lodge

**Report Date:** 06/18/12  
**Work Order:** G12050337

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
<b>Method:</b> E903.0									Batch: 33674
<b>Sample ID:</b> LCS-33674 Radium 226	Laboratory Control Sample 8.66	pCi/Filter	74		70	130			Run: BERTHOLD 770-1_120608A 06/16/12 10:31
<b>Sample ID:</b> G12050337-015BMS Radium 226	Sample Matrix Spike 79.9	pCi/Filter	95		70	130			Run: BERTHOLD 770-1_120608A 06/16/12 12:50
<b>Sample ID:</b> G12050337-015BMSD Radium 226	Sample Matrix Spike Duplicate 77.4	pCi/Filter	92		70	130	3.2	25.4	Run: BERTHOLD 770-1_120608A 06/16/12 12:50
<b>Sample ID:</b> MB-33674 Radium 226	Method Blank -0.2	pCi/Filter							Run: BERTHOLD 770-1_120608A 06/16/12 21:26 U
Radium 226 precision (±)	0.1	pCi/Filter							
Radium 226 MDC	0.3	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





# QA/QC Summary Report

Prepared by Casper, WY Branch

**Client:** Rare Element Resources Inc  
**Project:** Bear Lodge

**Report Date:** 06/18/12  
**Work Order:** G12050337

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
<b>Method: E908.0</b>									
Batch: 33674									
<b>Sample ID: G12050337-017BMS</b> Thorium 230	Sample Matrix Spike 49.8	pCi/Filter		95	70	130			05/31/12 08:48
<b>Sample ID: G12050337-017BMSD</b> Thorium 230	Sample Matrix Spike Duplicate 51.6	pCi/Filter		98	70	130	3.5	30.3	05/31/12 08:48
<b>Sample ID: LCS-33674</b> Thorium 230	Laboratory Control Sample 10.9	pCi/Filter		110	80	120			05/31/12 08:48
<b>Sample ID: MB-33674</b> Thorium 230	Method Blank 0.1	pCi/Filter							05/31/12 08:48
Thorium 230 precision (±)	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.

# Workorder Receipt Checklist



G12050337

Login completed by: Misty Voegele

Date Received: 5/9/2012

Reviewed by: BL2000\kscotruff

Received by: amm

Reviewed Date: 5/11/2012

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"/> |  |
| 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

**PLEASE PRINT (Provide as much information as possible.)**

Project Name: PWS, Permit, Etc.

Sample Origin

EPA/State Compliance: Yes  No

Company Name: **PER**

Report Mail Address:

Contact Name: **Barbara Williams, 1001 Broadgate SW**

Phone/Fax:

State: **GA**

Sampler: (Please Print)

Invoice Address:

Invoice Contact & Phone:

Purchase Order:

Quote/Bottle Order:

Special Report/Formats:

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

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

**ANALYSIS REQUESTED**

**ANALYZE FOR CE, LA, LL, TH, AA24 TH-230**

SEE ATTACHED

Standard Turnaround (TAT)

**R U S H**

Contact EII prior to RUSH sample submission for charges and scheduling - See Instruction Page

Comments:

SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX	ANALYSIS REQUESTED	Standard Turnaround (TAT)	Comments:	Signature
AWS#1 Continuous 1-13-12	1-13-12	11:18	1-D				
AWS#1 Continuous 3-09-12	3-09-12	11:29					
AWS#1 Continuous 2-14-12	2-14-12	11:23					
AWS#2 Continuous 1-20-12	1-20-12	11:10					
AWS#2 Continuous 2-21-12	2-21-12	11:36					
AWS#3 Continuous 1-30-12	1-30-12	12:05					
AWS#3 Continuous 3-5-12	3-5-12	12:14					
AWS#4 Continuous 1-9-12	1-9-12	10:30					
AWS#4 Continuous 2-6-12	2-6-12	11:40					
AWS#4 Continuous 3-19-12	3-19-12	13:46					

**MUST be Signed**

Sample Disposal: Return to Client:

Lab Disposal:

Received by Laboratory:

Date/Time: **12/21/12 01:40**

Signature: **[Signature]**

Relinquished by (print): **Michelle Taylor**

Date/Time: **3-9-12 14:00**

Signature: **Michelle Taylor**

Received by (print):

Date/Time:

Signature:

**LABORATORY USE ONLY**

Receipt # **N/A**  
Cooler ID(s): **N/A**  
On Ice: **N/A**  
Custody Seal: **N/A**  
On Bottle: **Y**  
On Cooler: **Y**  
Intact: **Y**  
Signature Match: **Y**

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



PLEASE PRINT (Provide as much information as possible)

Project Name, PWS, Permit, Etc.

Sample Origin

EPA/State Compliance: Yes  No

Company Name: **ENERGY LABORATORIES**

Project Name: **BRIDGEWAY**

State: **VA**

Sampler: (Please Print) **Callie Taylor**

Report Mail Address:

Contact Name: **Wes Thompson**

Email: **Wes.T@energy.com**

Quote/Bottle Order:

Invoice Address:

Invoice Contact & Phone:

Purchase Order:

Quote/Bottle Order:

Special Report/Formats:

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

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

ANALYSIS REQUESTED

SEE ATTACHED

Standard Turnaround (TAT)  
**R U S H**

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

Comments:

Shipped by: **Hand**

Cooler/Dry:

Refrigerant: **N/A °C**

On Ice: **N**

Custody Seal: **N**

On Bottle: **N**

On Cooler: **N**

Intact: **N**

Signature: **N**

Match: **N**

SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX	ANALYSIS REQUESTED	Standard Turnaround (TAT)	Comments:	Signature
AMS #3 Continuous 3-26-12	3-26-12	11:55	1-C	X Analyze for X Ce, La, U, Th X Ra-226 and Th-230	X		12050337
AMS #4 Continuous 3-30-12	3-30-12	10:12					
AMS #1 Continuous 4-6-12	4-6-12	12:44					
AMS #2 Continuous 4-13-12	4-13-12	10:36					
AMS #3 Continuous 4-20-12	4-20-12	10:00					
AMS #4 Continuous 4-30-12	4-30-12	12:05					
AMS # Continuous 5-7-12	5-7-12	12:14					
9							
10							

Relinquished by (print): **Callie Taylor** Date/Time: **5-9-12 14:00** Signature: **Callie Taylor**

Relinquished by (print): \_\_\_\_\_ Date/Time: \_\_\_\_\_ Signature: \_\_\_\_\_

Received by Laboratory: **Callie Taylor** Date/Time: **5/9/12 9:00** Signature: **Callie Taylor**

Received by (print): \_\_\_\_\_ Date/Time: \_\_\_\_\_ Signature: \_\_\_\_\_

Sample Disposal: \_\_\_\_\_ Return to Client: \_\_\_\_\_ Lab Disposal: \_\_\_\_\_

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

AMS #1 Continuous

#7

Start: 12-23-11 9:00

Stop: 1-13-12 11:17

Collected: 1-13-12 11:18

TF 12149024SCF

1844283.8 ACF

56368.7 ET Min

Lab ID: G12050337-001A  
ID: AMS#1 Continuous 1-13-12  
Client ID: RR-ELMNT-RSRCS  
Received: 5/9/2012 2:00:00 PM  
Collected: 1/13/2012 11:18:00 AM  
Bottle: 1 of 1 Filter

Lab ID: G12050337-001B  
ID: AMS#1 Continuous 1-13-12  
Client ID: RR-ELMNT-RSRCS  
Received: 5/9/2012 2:00:00 PM  
Collected: 1/13/2012 11:18:00 AM  
Bottle: 1 of 1 Filter

AMS #1 Continuous

collect - 03-09-12 11:29

Start - 02-21-12 10:57

Stop - 03-09-12 11:29

IF

SCF - 975690.5

ACF - 2306885.7

ET Min - 24463.8

Lab ID: G12050337-002A  
ID: AMS #1 Continuous 3-09-12  
Client ID: RR-ELMNT-RSRCS  
Received: 5/9/2012 2:00:00 PM  
Collected: 3/9/2012 11:29:00 AM  
Bottle: 1 of 1 Filter

Lab ID: G12050337-002B  
ID: AMS #1 Continuous 3-09-12  
Client ID: RR-ELMNT-RSRCS  
Received: 5/9/2012 2:00:00 PM  
Collected: 3/9/2012 11:29:00 AM  
Bottle: 1 of 1 Filter

AVIP 1-20-12

Collecter 62-14-12 11:23  
start 01-20-12 10:25  
stop 02-14-12 11:23

Lab ID: G12050337-003A  
ID: AMS#1 Continuous 2-14-12  
Client ID: RR-ELMNT-RSRCS  
Received: 5/9/2012 2:00:00 PM  
Collected: 2/14/2012 11:23:00 AM  
Bottle: 1 of 1 Filter

Lab ID: G12050337-003B  
ID: AMS#1 Continuous 2-14-12  
Client ID: RR-ELMNT-RSRCS  
Received: 5/9/2012 2:00:00 PM  
Collected: 2/14/2012 11:23:00 AM  
Bottle: 1 of 1 Filter

1445335.9 SCF  
2448165.5 ACF  
3 6059.0 min ET

AMS#2 CC in/monitors

Collecter 1-20-12 11:10

start 12-30-11

stop 1-20-12 11:10

Lab ID: G12050337-004A  
ID: AMS#2 Continuous 1-20-12  
Client ID: RR-ELMNT-RSRCS  
Received: 5/9/2012 2:00:00 PM  
Collected: 1/20/2012 11:10:00 AM  
Bottle: 1 of 1 Filter

Lab ID: G12050337-004B  
ID: AMS#2 Continuous 1-20-12  
Client ID: RR-ELMNT-RSRCS  
Received: 5/9/2012 2:00:00 PM  
Collected: 1/20/2012 11:10:00 AM  
Bottle: 1 of 1 Filter

1282959.4 SCF  
2221650.7 ACF  
30279.4 ET min

Start: 1-30-12 10:53  
Stop: 2-21-12 11:36

TF 1273048.3 SCF  
2048341.3 ACF  
31727.6 ET min

Collected 2-21-12 11:36

Lab ID: G12050337-005A  
ID: AMS#2 Continuous 2-21-12  
Client ID: RR-ELMNT-RSRCS  
Received: 5/9/2012 2:00:00 PM  
Collected: 2/21/2012 11:36:00 AM  
Bottle: 1 of 1 Filter

Lab ID: G12050337-005B  
ID: AMS#2 Continuous 2-21-12  
Client ID: RR-ELMNT-RSRCS  
Received: 5/9/2012 2:00:00 PM  
Collected: 2/21/2012 11:36:00 AM  
Bottle: 1 of 1 Filter

AMS #3 Continuous

Start 1-9-12 9:48

END: 1-30-12 12:05

1279709.4 SCF

1964936.5 ACF

30.364.4 MINET

collected 1-30-12 12:05

Lab ID: G12050337-006A  
ID: AMS#3 Continuous 1-30-12  
Client ID: RR-ELMNT-RSRCS  
Received: 5/9/2012 2:00:00 PM  
Collected: 1/30/2012 12:05:00 PM  
Bottle: 1 of 1 Filter

Lab ID: G12050337-006B  
ID: AMS#3 Continuous 1-30-12  
Client ID: RR-ELMNT-RSRCS  
Received: 5/9/2012 2:00:00 PM  
Collected: 1/30/2012 12:05:00 PM  
Bottle: 1 of 1 Filter

T11140007

12.14 collect 03-05-12

1533773.4 SCF

2211212.1 ACF

30304.7 E T min

stop 02-13-12 11<sup>00</sup>

stop 03-05-12 12.14

AMS #4 Continuous

1563315.14 CF

1210744.8 SCF

30266.4 E T min

Collected 1-9-12 10:30

Stop ~~12-19-11~~

End 1-9-12 10:30

Lab ID: G12050337-007A  
ID: AMS#3 Continuous 3-5-12  
Client ID: RR-ELMNT-RSRCS  
Received: 5/9/2012 2:00:00 PM  
Collected: 3/5/2012 12:14:00 PM  
Bottle: 1 of 1 Filter

Lab ID: G12050337-007B  
ID: AMS#3 Continuous 3-5-12  
Client ID: RR-ELMNT-RSRCS  
Received: 5/9/2012 2:00:00 PM  
Collected: 3/5/2012 12:14:00 PM  
Bottle: 1 of 1 Filter

Lab ID: G12050337-008A  
ID: AMS#4 Continuous 1-9-12  
Client ID: RR-ELMNT-RSRCS  
Received: 5/9/2012 2:00:00 PM  
Collected: 1/9/2012 10:30:00 AM  
Bottle: 1 of 1 Filter

Lab ID: G12050337-008B  
ID: AMS#4 Continuous 1-9-12  
Client ID: RR-ELMNT-RSRCS  
Received: 5/9/2012 2:00:00 PM  
Collected: 1/9/2012 10:30:00 AM  
Bottle: 1 of 1 Filter



Lab ID: G12050337-009A  
ID: AMS#4 Continuous 2-6-12  
Client ID: RR-ELMNT-RSRCS  
Received: 5/9/2012 2:00:00 PM  
Collected: 2/6/2012 11:40:00 AM  
Bottle: 1 of 1 Filter

Lab ID: G12050337-009B  
ID: AMS#4 Continuous 2-6-12  
Client ID: RR-ELMNT-RSRCS  
Received: 5/9/2012 2:00:00 PM  
Collected: 2/6/2012 11:40:00 AM  
Bottle: 1 of 1 Filter

Start - 1-3-12 10:13  
END - 2-6-12 11:40  
11523331.0 SCF  
1767869.9 ACF  
28804.4 min ET  
collected 2-6-12 11:40

AMS # 2 Continuous

Collected - 3-19-12 Time: 1346  
TF

Lab ID: G12050337-010A  
ID: AMS#2 Continuous 3-19-12  
Client ID: RR-ELMNT-RSRCS  
Received: 5/9/2012 2:00:00 PM  
Collected: 3/19/2012 1:46:00 PM  
Bottle: 1 of 1 Filter

Lab ID: G12050337-010B  
ID: AMS#2 Continuous 3-19-12  
Client ID: RR-ELMNT-RSRCS  
Received: 5/9/2012 2:00:00 PM  
Collected: 3/19/2012 1:46:00 PM  
Bottle: 1 of 1 Filter

SCF 812255.2  
ACF 1061762.4  
BT min 20259.9

Start: 3-5-12 11:03  
Stop - 3-19-12 13:44

Collect 3-26-12 11:55  
Start 3-9-12 10:05  
Step 3-26-12 11:55  
TF 1309644.5 SCF

1527004.2 ACF  
24528.9 ET min

Lab ID: G12050337-011A  
ID: AMS#3 Continuous 3-26-12  
Client ID: RR-ELMNT-RSRCS  
Received: 5/9/2012 2:00:00 PM  
Collected: 3/26/2012 11:55:00 AM  
Bottle: 1 of 1 Filter

Lab ID: G12050337-011B  
ID: AMS#3 Continuous 3-26-12  
Client ID: RR-ELMNT-RSRCS  
Received: 5/9/2012 2:00:00 PM  
Collected: 3/26/2012 11:55:00 AM  
Bottle: 1 of 1 Filter

AMS #4 Continuous  
Collected 3-30-12 10:12

Start - 2-13-12 10:30  
Step - 3-30-12 10:12  
TF 1418062.2 SCF  
1751147.1 ACF  
35447.7 E/min

Lab ID: G12050337-012A  
ID: AMS#4 Continuous 3-30-12  
Client ID: RR-ELMNT-RSRCS  
Received: 5/9/2012 2:00:00 PM  
Collected: 3/30/2012 10:12:00 AM  
Bottle: 1 of 1 Filter

Lab ID: G12050337-012B  
ID: AMS#4 Continuous 3-30-12  
Client ID: RR-ELMNT-RSRCS  
Received: 5/9/2012 2:00:00 PM  
Collected: 3/30/2012 10:12:00 AM  
Bottle: 1 of 1 Filter

Collect 4-6-12 12:44

Street - 5-19-12 12:16

Stop . 4-6-12 12:44

TF 1038243.8 SCF

1157344.0 AC F

25948.5 e Trin

Lab ID: G12050337-013A  
ID: AMS#1 Continuous 4-6-12  
Client ID: RR-ELMNT-RSRCS  
Received: 5/9/2012 2:00:00 PM  
Collected: 4/6/2012 12:44:00 PM  
Bottle: 1 of 1 Filter

Lab ID: G12050337-013B  
ID: AMS#1 Continuous 4-6-12  
Client ID: RR-ELMNT-RSRCS  
Received: 5/9/2012 2:00:00 PM  
Collected: 4/6/2012 12:44:00 PM  
Bottle: 1 of 1 Filter

AMS#2 Antinurus

Collect . 4-13-12 10:36

Stop 3-26-12 10:30

Stop 4-13-12 10:36

TF 1796580.0 SCF

2235168.5 AC F

25907.4 ET min

Lab ID: G12050337-014A  
ID: AMS#2 Continuous 4-13-12  
Client ID: RR-ELMNT-RSRCS  
Received: 5/9/2012 2:00:00 PM  
Collected: 4/13/2012 10:36:00 AM  
Bottle: 1 of 1 Filter

Lab ID: G12050337-014B  
ID: AMS#2 Continuous 4-13-12  
Client ID: RR-ELMNT-RSRCS  
Received: 5/9/2012 2:00:00 PM  
Collected: 4/13/2012 10:36:00 AM  
Bottle: 1 of 1 Filter

Collect 4-20-12 10:00  
Start 3-30-12 9:15  
Stop 4-20-12 10:00

TF 17008977.2 SCF  
1964447.7 ACF  
30274.4 ETmin

Lab ID: G12050337-015A  
ID: AMS#3 Continuous 4-20-12  
Client ID: RR-ELMNT-RSRCS  
Received: 5/9/2012 2:00:00 PM  
Collected: 4/20/2012 10:00:00 AM  
Bottle: 1 of 1 Filter

Lab ID: G12050337-015B  
ID: AMS#3 Continuous 4-20-12  
Client ID: RR-ELMNT-RSRCS  
Received: 5/9/2012 2:00:00 PM  
Collected: 4/20/2012 10:00:00 AM  
Bottle: 1 of 1 Filter

AMS #4 Cont. min  
Collect 4-30-12 12:05  
Start 4-6-12 11:10  
Stop 4-30-12 12:05  
TF 1384084.2 SCF  
162278.9 ACF  
34598.6 ETmin

Lab ID: G12050337-016A  
ID: AMS#4 Continuous 4-30-12  
Client ID: RR-ELMNT-RSRCS  
Received: 5/9/2012 2:00:00 PM  
Collected: 4/30/2012 12:05:00 PM  
Bottle: 1 of 1 Filter

Lab ID: G12050337-016B  
ID: AMS#4 Continuous 4-30-12  
Client ID: RR-ELMNT-RSRCS  
Received: 5/9/2012 2:00:00 PM  
Collected: 4/30/2012 12:05:00 PM  
Bottle: 1 of 1 Filter

T<sup>th</sup>D  
 Collect 5-7-12 12:14  
 Start 4-13-12 10<sup>00</sup>  
 Stop 5-7-12 12:14  
 TF 1387825.5 SCF  
 1504531.3 ACF  
 34687.5 ET min

Lab ID: G12050337-017A  
 ID: AMS#1 Continuous 5-7-12  
 Client ID: RR-ELMNT-RSRCS  
 Received: 5/9/2012 2:00:00 PM  
 Collected: 5/7/2012 12:14:00 PM  
 Bottle: 1 of 1 Filter

Lab ID: G12050337-017B  
 ID: AMS#1 Continuous 5-7-12  
 Client ID: RR-ELMNT-RSRCS  
 Received: 5/9/2012 2:00:00 PM  
 Collected: 5/7/2012 12:14:00 PM  
 Bottle: 1 of 1 Filter