



# ANALYTICAL SUMMARY REPORT

February 10, 2012

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

Workorder No.: G12010383

Project Name: Bear Lodge

Energy Laboratories Inc. Gillette WY received the following 8 samples for Rare Element Resources Inc on 1/17/2012 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
G12010383-001	AMS#1 pm10	12/23/11 9:00	01/17/12	Filter	Metals on air filter by ICP/ICPMS Digestion, Total Metals Nitric acid-extraction Radium 226 Thorium, Isotopic
G12010383-002	AMS#1 pm2.5	12/21/11 9:00	01/17/12	Filter	Same As Above
G12010383-003	AMS#2 pm10	12/28/11 16:30	01/17/12	Filter	Same As Above
G12010383-004	AMS#2 pm2.5	12/30/11 9:00	01/17/12	Filter	Same As Above
G12010383-005	AMS#3 pm2.5	01/04/12 9:30	01/17/12	Filter	Same As Above
G12010383-006	AMS#3 pm10	01/09/12 9:48	01/17/12	Filter	Same As Above
G12010383-007	AMS#4 pm2.5	01/13/12 10:30	01/17/12	Filter	Same As Above
G12010383-008	AMS#4 pm10	01/11/12 9:00	01/17/12	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:** Bear Lodge  
**Sample Delivery Group:** G12010383

**Report Date:** 02/10/12

## **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:** Bear Lodge  
**Lab ID:** G12010383-001  
**Client Sample ID** AMS#1 pm10

**Report Date:** 02/10/12  
**Collection Date:** 12/23/11 09:00  
**DateReceived:** 01/17/12  
**Matrix:** Filter

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By
<b>METALS IN AIR</b>							
Cerium	ND	ug/filter		1	0.009	E200.8	01/22/12 09:55 / eli-b
Lanthanum	ND	ug/filter		1	0.004	E200.8	01/22/12 09:55 / eli-b
Thorium	4	ug/filter		1	0.02	E200.8	01/24/12 15:10 / eli-b
Uranium	ND	ug/filter		1	0.00008	E200.8	01/24/12 15:10 / eli-b
<b>RADIONUCLIDES - TOTAL</b>							
Radium 226	-0.8	pCi/Filter	U			E903.0	02/09/12 02:13 / eli-c
Radium 226 precision (±)	0.5	pCi/Filter				E903.0	02/09/12 02:13 / eli-c
Radium 226 MDC	1.2	pCi/Filter				E903.0	02/09/12 02:13 / eli-c
<b>RADIOCHEMICAL</b>							
Thorium 230	0.42	pCi/Filter	U			E908.0	02/07/12 09:03 / eli-c
Thorium 230 precision (±)	0.37	pCi/Filter				E908.0	02/07/12 09:03 / eli-c
Thorium 230 MDC	0.60	pCi/Filter				E908.0	02/07/12 09:03 / 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:** G12010383-002  
**Client Sample ID** AMS#1 pm2.5

**Report Date:** 02/10/12  
**Collection Date:** 12/21/11 09:00  
**DateReceived:** 01/17/12  
**Matrix:** Filter

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By
<b>METALS IN AIR</b>							
Cerium	ND	ug/filter		1	0.009	E200.8	01/22/12 09:57 / eli-b
Lanthanum	ND	ug/filter		1	0.004	E200.8	01/22/12 09:57 / eli-b
Thorium	3	ug/filter		1	0.02	E200.8	01/24/12 15:16 / eli-b
Uranium	ND	ug/filter		1	0.00008	E200.8	01/24/12 15:16 / eli-b
<b>RADIONUCLIDES - TOTAL</b>							
Radium 226	-0.8	pCi/Filter	U			E903.0	02/09/12 02:13 / eli-c
Radium 226 precision (±)	0.5	pCi/Filter				E903.0	02/09/12 02:13 / eli-c
Radium 226 MDC	1.2	pCi/Filter				E903.0	02/09/12 02:13 / eli-c
<b>RADIOCHEMICAL</b>							
Thorium 230	0.46	pCi/Filter	U			E908.0	02/07/12 09:03 / eli-c
Thorium 230 precision (±)	0.39	pCi/Filter				E908.0	02/07/12 09:03 / eli-c
Thorium 230 MDC	0.61	pCi/Filter				E908.0	02/07/12 09:03 / 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:** G12010383-003  
**Client Sample ID** AMS#2 pm10

**Report Date:** 02/10/12  
**Collection Date:** 12/28/11 16:30  
**DateReceived:** 01/17/12  
**Matrix:** Filter

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By
<b>METALS IN AIR</b>							
Cerium	ND	ug/filter		1	0.009	E200.8	01/22/12 10:05 / eli-b
Lanthanum	ND	ug/filter		1	0.004	E200.8	01/22/12 10:05 / eli-b
Thorium	5	ug/filter		1	0.02	E200.8	01/24/12 16:03 / eli-b
Uranium	ND	ug/filter		1	0.00008	E200.8	01/24/12 16:03 / eli-b
<b>RADIONUCLIDES - TOTAL</b>							
Radium 226	-0.8	pCi/Filter	U			E903.0	02/09/12 02:13 / eli-c
Radium 226 precision (±)	0.5	pCi/Filter				E903.0	02/09/12 02:13 / eli-c
Radium 226 MDC	1.2	pCi/Filter				E903.0	02/09/12 02:13 / eli-c
<b>RADIOCHEMICAL</b>							
Thorium 230	0.32	pCi/Filter	U			E908.0	02/07/12 09:03 / eli-c
Thorium 230 precision (±)	0.31	pCi/Filter				E908.0	02/07/12 09:03 / eli-c
Thorium 230 MDC	0.53	pCi/Filter				E908.0	02/07/12 09:03 / 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:** G12010383-004  
**Client Sample ID** AMS#2 pm2.5

**Report Date:** 02/10/12  
**Collection Date:** 12/30/11 09:00  
**DateReceived:** 01/17/12  
**Matrix:** Filter

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By
<b>METALS IN AIR</b>							
Cerium	ND	ug/filter		1	0.009	E200.8	01/22/12 10:07 / eli-b
Lanthanum	ND	ug/filter		1	0.004	E200.8	01/22/12 10:07 / eli-b
Thorium	4	ug/filter		1	0.02	E200.8	01/24/12 16:07 / eli-b
Uranium	ND	ug/filter		1	0.00008	E200.8	01/24/12 16:07 / eli-b
<b>RADIONUCLIDES - TOTAL</b>							
Radium 226	-0.3	pCi/Filter	U			E903.0	02/09/12 02:13 / eli-c
Radium 226 precision (±)	0.6	pCi/Filter				E903.0	02/09/12 02:13 / eli-c
Radium 226 MDC	1.2	pCi/Filter				E903.0	02/09/12 02:13 / eli-c
<b>RADIOCHEMICAL</b>							
Thorium 230	0.32	pCi/Filter	U			E908.0	02/07/12 09:03 / eli-c
Thorium 230 precision (±)	0.55	pCi/Filter				E908.0	02/07/12 09:03 / eli-c
Thorium 230 MDC	1.0	pCi/Filter				E908.0	02/07/12 09:03 / 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:** G12010383-005  
**Client Sample ID** AMS#3 pm2.5

**Report Date:** 02/10/12  
**Collection Date:** 01/04/12 09:30  
**DateReceived:** 01/17/12  
**Matrix:** Filter

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By
<b>METALS IN AIR</b>							
Cerium	ND	ug/filter		1	0.009	E200.8	01/22/12 10:09 / eli-b
Lanthanum	ND	ug/filter		1	0.004	E200.8	01/22/12 10:09 / eli-b
Thorium	3	ug/filter		1	0.02	E200.8	01/24/12 16:12 / eli-b
Uranium	ND	ug/filter		1	0.00008	E200.8	01/24/12 16:12 / eli-b
<b>RADIONUCLIDES - TOTAL</b>							
Radium 226	-0.1	pCi/Filter	U			E903.0	02/09/12 02:13 / eli-c
Radium 226 precision (±)	0.7	pCi/Filter				E903.0	02/09/12 02:13 / eli-c
Radium 226 MDC	1.2	pCi/Filter				E903.0	02/09/12 02:13 / eli-c
<b>RADIOCHEMICAL</b>							
Thorium 230	0.47	pCi/Filter	U			E908.0	02/07/12 09:03 / eli-c
Thorium 230 precision (±)	0.37	pCi/Filter				E908.0	02/07/12 09:03 / eli-c
Thorium 230 MDC	0.56	pCi/Filter				E908.0	02/07/12 09:03 / 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:** G12010383-006  
**Client Sample ID** AMS#3 pm10

**Report Date:** 02/10/12  
**Collection Date:** 01/09/12 09:48  
**DateReceived:** 01/17/12  
**Matrix:** Filter

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By
<b>METALS IN AIR</b>							
Cerium	ND	ug/filter		1	0.009	E200.8	01/22/12 10:10 / eli-b
Lanthanum	ND	ug/filter		1	0.004	E200.8	01/22/12 10:10 / eli-b
Thorium	3	ug/filter		1	0.02	E200.8	01/24/12 16:16 / eli-b
Uranium	ND	ug/filter		1	0.00008	E200.8	01/24/12 16:16 / eli-b
<b>RADIONUCLIDES - TOTAL</b>							
Radium 226	-0.6	pCi/Filter	U			E903.0	02/09/12 08:14 / eli-c
Radium 226 precision (±)	0.5	pCi/Filter				E903.0	02/09/12 08:14 / eli-c
Radium 226 MDC	1.2	pCi/Filter				E903.0	02/09/12 08:14 / eli-c
<b>RADIOCHEMICAL</b>							
Thorium 230	0.27	pCi/Filter	U			E908.0	02/07/12 09:03 / eli-c
Thorium 230 precision (±)	0.30	pCi/Filter				E908.0	02/07/12 09:03 / eli-c
Thorium 230 MDC	0.53	pCi/Filter				E908.0	02/07/12 09:03 / 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:** G12010383-007  
**Client Sample ID** AMS#4 pm2.5

**Report Date:** 02/10/12  
**Collection Date:** 01/13/12 10:30  
**DateReceived:** 01/17/12  
**Matrix:** Filter

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By
<b>METALS IN AIR</b>							
Cerium	ND	ug/filter		1	0.009	E200.8	01/22/12 10:12 / eli-b
Lanthanum	ND	ug/filter		1	0.004	E200.8	01/22/12 10:12 / eli-b
Thorium	2	ug/filter		1	0.02	E200.8	01/24/12 16:21 / eli-b
Uranium	ND	ug/filter		1	0.00008	E200.8	01/24/12 16:21 / eli-b
<b>RADIONUCLIDES - TOTAL</b>							
Radium 226	-0.8	pCi/Filter	U			E903.0	02/09/12 08:14 / eli-c
Radium 226 precision (±)	0.5	pCi/Filter				E903.0	02/09/12 08:14 / eli-c
Radium 226 MDC	1.1	pCi/Filter				E903.0	02/09/12 08:14 / eli-c
<b>RADIOCHEMICAL</b>							
Thorium 230	0.21	pCi/Filter	U			E908.0	02/07/12 09:03 / eli-c
Thorium 230 precision (±)	0.41	pCi/Filter				E908.0	02/07/12 09:03 / eli-c
Thorium 230 MDC	0.79	pCi/Filter				E908.0	02/07/12 09:03 / 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:** G12010383-008  
**Client Sample ID** AMS#4 pm10

**Report Date:** 02/10/12  
**Collection Date:** 01/11/12 09:00  
**DateReceived:** 01/17/12  
**Matrix:** Filter

Analyses	Result	Units	Qualifiers	RL	MDL	Method	Analysis Date / By
<b>METALS IN AIR</b>							
Cerium	ND	ug/filter		1	0.009	E200.8	01/22/12 10:14 / eli-b
Lanthanum	ND	ug/filter		1	0.004	E200.8	01/22/12 10:14 / eli-b
Thorium	12	ug/filter		1	0.02	E200.8	01/24/12 20:04 / eli-b
Uranium	ND	ug/filter		1	0.00008	E200.8	01/24/12 16:43 / eli-b
<b>RADIONUCLIDES - TOTAL</b>							
Radium 226	-0.5	pCi/Filter	U			E903.0	02/09/12 08:14 / eli-c
Radium 226 precision (±)	0.5	pCi/Filter				E903.0	02/09/12 08:14 / eli-c
Radium 226 MDC	1.2	pCi/Filter				E903.0	02/09/12 08:14 / eli-c
<b>RADIOCHEMICAL</b>							
Thorium 230	0.15	pCi/Filter	U			E908.0	02/07/12 09:03 / eli-c
Thorium 230 precision (±)	0.31	pCi/Filter				E908.0	02/07/12 09:03 / eli-c
Thorium 230 MDC	0.64	pCi/Filter				E908.0	02/07/12 09:03 / 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



# QA/QC Summary Report

Prepared by Billings, MT Branch

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

**Report Date:** 01/26/12  
**Work Order:** G12010383

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
<b>Method: E200.8</b>							Analytical Run: ICPMS202-B_120122A		
<b>Sample ID: QCS</b>	Initial Calibration Verification Standard								01/22/12 08:59
Cerium	0.0489	mg/L	0.010	98	90	110			
Lanthanum	0.0498	mg/L	0.10	100	90	110			
<b>Method: E200.8</b>							Batch: 59955		
<b>Sample ID: MB-59955</b>	Method Blank								01/22/12 09:53
Cerium	0.005	ug/filter	0.0004						
Lanthanum	0.003	ug/filter	0.0002						
<b>Sample ID: LFB-59955</b>	Laboratory Fortified Blank								01/22/12 10:15
Cerium	85.7	ug/filter	1.0	86	80	120			
Lanthanum	86.8	ug/filter	1.0	87	80	120			
<b>Sample ID: LFBD-59955</b>	Laboratory Fortified Blank Duplicate								01/22/12 10:17
Cerium	87.1	ug/filter	1.0	87	80	120			
Lanthanum	88.8	ug/filter	1.0	89	80	120			
<b>Sample ID: B12011270-001AMS</b>	Sample Matrix Spike								01/22/12 10:19
Cerium	126	ug/filter	1.0	104	70	130			
Lanthanum	127	ug/filter	1.0	105	70	130			
<b>Sample ID: B12011270-001AMSD</b>	Sample Matrix Spike Duplicate								01/22/12 10:20
Cerium	124	ug/filter	1.0	103	70	130	1.4	20	
Lanthanum	125	ug/filter	1.0	104	70	130	1.5	20	
<b>Sample ID: B12011270-008ADUP</b>	Sample Duplicate								01/22/12 10:41
Cerium	0.422	ug/filter	1.0					20	
Lanthanum	0.310	ug/filter	1.0					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:** 01/26/12  
**Work Order:** G12010383

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
<b>Method: E200.8</b>							Analytical Run: ICPMS203-B_120124A			
<b>Sample ID: QCS</b>	Initial Calibration Verification Standard									
Thorium	0.0217	mg/L	0.0010	109	90	110			01/24/12 11:09	
<b>Sample ID: U QCS</b>	Initial Calibration Verification Standard									
Uranium	0.0184	mg/L	0.0010	92	90	110			01/24/12 11:32	
<b>Method: E200.8</b>							Batch: 59955			
<b>Sample ID: B12011270-008ADUP</b>	Sample Duplicate				Run: ICPMS203-B_120124A		01/24/12 16:47			
Uranium	0.0240	ug/filter	1.0						20	
<b>Sample ID: MB-59955</b>	Method Blank				Run: ICPMS203-B_120124A		01/25/12 10:25			
Thorium	ND	ug/filter	0.002							
Uranium	0.0003	ug/filter	7E-06							
<b>Sample ID: B12011270-008ADUP</b>	Sample Duplicate				Run: ICPMS203-B_120124A		01/24/12 16:47			
Thorium	9.01	ug/filter	1.0						20	
Uranium	0.0240	ug/filter	1.0						20	
<b>Sample ID: B12011270-008AMS</b>	Sample Matrix Spike				Run: ICPMS203-B_120124A		01/24/12 17:00			
Thorium	289	ug/filter	1.0	96	70	130				
Uranium	322	ug/filter	1.0	107	70	130				
<b>Sample ID: B12011270-008AMSD</b>	Sample Matrix Spike Duplicate				Run: ICPMS203-B_120124A		01/24/12 17:04			
Thorium	350	ug/filter	1.0	117	70	130			20	
Uranium	325	ug/filter	1.0	108	70	130	0.8		20	

**Qualifiers:**

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



# QA/QC Summary Report

Prepared by Casper, WY Branch

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

**Report Date:** 02/10/12  
**Work Order:** G12010383

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
<b>Method: E903.0</b>							Batch: 32571		
<b>Sample ID: MB-32571</b>	Method Blank						Run: BERTHOLD 770-2_120202B	02/09/12 02:13	
Radium 226	-0.3	pCi/Filter							U
Radium 226 precision (±)	0.2	pCi/Filter							
Radium 226 MDC	0.4	pCi/Filter							
<b>Sample ID: LCS-32571</b>	Laboratory Control Sample						Run: BERTHOLD 770-2_120202B	02/09/12 02:13	
Radium 226	12.7	pCi/Filter	108		70	130			
<b>Sample ID: C12010767-004BMS</b>	Sample Matrix Spike						Run: BERTHOLD 770-2_120202B	02/09/12 02:13	
Radium 226	89.6	pCi/Filter	106		70	130			
<b>Sample ID: C12010767-004BMSD</b>	Sample Matrix Spike Duplicate						Run: BERTHOLD 770-2_120202B	02/09/12 02:13	
Radium 226	90.5	pCi/Filter	108		70	130	1.0	25.6	

**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:** 02/10/12  
**Work Order:** G12010383

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
<b>Method:</b> E908.0									Batch: 32571
<b>Sample ID:</b> C12010767-006BMS Thorium 230	Sample Matrix Spike 113	pCi/Filter		110	70	130			Run: ALPHANALYST_120202A 02/07/12 09:03
<b>Sample ID:</b> C12010767-006BMSD Thorium 230	Sample Matrix Spike Duplicate 112	pCi/Filter		109	70	130	0.8		Run: ALPHANALYST_120202A 02/07/12 09:03 31.7
<b>Sample ID:</b> LCS-32571 Thorium 230	Laboratory Control Sample 11.2	pCi/Filter		114	70	130			Run: ALPHANALYST_120202A 02/07/12 09:03
<b>Sample ID:</b> MB-32571 Thorium 230	Method Blank 0.08	pCi/Filter							Run: ALPHANALYST_120202A 02/07/12 09:03 U
Thorium 230 precision (±)	0.06	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

# Workorder Receipt Checklist



G12010383

Login completed by: Misty Voegele

Date Received: 1/17/2012

Reviewed by: BL2000\kscotruff

Received by: caf

Reviewed Date: 1/18/2012

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"/>         |

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Contact and Corrective Action Comments:

None

**Chain of Custody and Analytical Request Record**

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

Company Name: PER  
 Report Mail Address: Bar Lodge, Baseline SFP  
 Project Name, PWS, Permit, Etc.: Bar Lodge, Baseline SFP  
 Contact Name: Paul Bergstrom Phone/Fax: 1-720-278-2469  
 State: CO Email: Paul.Bergstrom@energylab.com  
 EPA/State Compliance: Yes  No   
 Sampler: (Please Print) Calie Taylor  
 Invoice Address: Paul Bergstrom Invoice Contact & Phone: 1-720-278-2469  
 Purchase Order: 192010583 Quote/Bottle Order: Calie Taylor

Special Report/Formats:  
 DW  
 POT/WWWTP  
 State: \_\_\_\_\_  
 Other: \_\_\_\_\_  
 EDD/EDT (Electronic Data)  
 Format: \_\_\_\_\_  
 LEVEL IV  
 NELAC

SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX	ANALYSIS REQUESTED		Comments:	Shipped by: Caddy ID(s):
				Standard Turnaround (TAT)	Standard Turnaround (TAT)		
1 <u>AMS #1 pm10</u>	<u>12-23-11</u>	<u>9:00</u>	<u>1-C</u>	<u>on file</u>			<u>192010583</u>
2 <u>AMS #1 pm2.5</u>	<u>12-21-11</u>	<u>9:00</u>					
3 <u>AMS #2 pm10</u>	<u>12-28-11</u>	<u>10:30</u>					
4 <u>AMS #2 pm2.5</u>	<u>12-30-11</u>	<u>9:00</u>					
5 <u>AMS #3 pm2.5</u>	<u>1-4-12</u>	<u>9:30</u>					
6 <u>AMS #3 pm10</u>	<u>1-9-12</u>	<u>9:48</u>					
7 <u>AMS #4 pm2.5</u>	<u>1-13-12</u>	<u>10:30</u>					
8 <u>AMS #4 pm10</u>	<u>1-11-12</u>	<u>9:00</u>					
9							
10							

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

Relinquished by (print): Calie Taylor Date/Time: 17 01 12 14:42 Signature: Calie Taylor  
 Relinquished by (print): \_\_\_\_\_ Date/Time: \_\_\_\_\_ Signature: \_\_\_\_\_

Received by (print): \_\_\_\_\_ Date/Time: \_\_\_\_\_ Signature: \_\_\_\_\_  
 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 pm 10

collected 12-23-11 9:00

TF 57778.1 SCF

118468 .5 ACF

1440 ET min

start 12-21-11 23:59

12-22-11 23:59

Filter # 58509

AMS # 1 pm 2.5 Filter # 58508

Collected 12-21-11 9:00

start 12-19-11 23:59

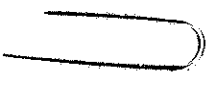
End 12-20-11 23:59

TF 54069.8 SCF

55815.8 ACF

1440 ET min

AMS#2 pm10  
collected 12-28-11 11:30  
126737.45CF  
157810.6ACF  
144 min ET  
Filter # 58510



AMS#2 pm 2.5  
Filter # 58511  
collected 12-30-11 9:00

Collected 1-11-12 9:00

Filter # 58514

57619.7 SCF

65983.9 ACF

1440 ET min

AMS #4 PM2.5

Filter # 58515

Start 1-11-12 23:59

End 1-12-12 23:59

Collected 1-13-12 10:30

AMS #3 PM10 Filter # 58513

Collected 1-9-12 9:48

58273.7 SCF

68780.1 ACF

1440 ET min

Start 1-4-12 23:59

End 1-5-12 23:59

AMS #3 PM2.5

Filter # 58512

Start 1-2-12 23:59

Stop 1-3-12 23:59

Collected 1-4-12 9:30