



Inter-Mountain Labs
Sheridan, WY and Gillette, WY

- CHAIN OF CUSTODY RECORD -

Page 1 of 1

All shaded fields must be completed.

This is a legal document: any misrepresentation may be construed as fraud.

142380

Client Name RER	Project Identification UPTON	Sampler (Signature/Attestation of Authenticity)	Telephone # 307-283-3500
---------------------------	--	---	------------------------------------

Report Address	Contact Name Kris Thompson	ANALYSES / PARAMETERS
Invoice Address	Email kthompson@rareelementresources.com	
	Phone 307-283-3500	
	Purchase Order # IML 13002	
	Quote #	

ITEM	LAB ID (Lab Use Only)	DATE SAMPLED	TIME	SAMPLE IDENTIFICATION	Matrix	# of Containers	CE	Co	O	Th	Ra-226	Th-230	REMARKS
1	51307332-001	4/18/13	1145	UAMS1 Cont 8671580	OT	1	X	X	X	X	X	X	
2	002	6/11/13	0715	UAMS1 Cont 8671565									
3	003	4/25/13	1000	UAMS2 Cont 8671579									
4	004	6/20/13	1555	UAMS2 Cont 8671563									
5	005	4/30/13	1100	UAMS3 Cont 8671578									
6	006	6/27/13	1430	UAMS3 Cont 8671562									
7	007	4/12/13	1120	UAMS4 Cont 8671581									
8	008	5/9/13	1110	UAMS4 Cont 8671577									
9	009	5/25/13	1220	UAMS5 Cont 8671576									
10													
11													
12													
13													
14													

LAB COMMENTS	Relinquished By (Signature/Printed)	DATE	TIME	Received By (Signature/Printed)	DATE	TIME
	<i>Mike Marsh</i> Mike Marsh	7/17/13	11:22	<i>Alien X McNeil</i> Kathy Boyd	7/17/13	11:22
					7.23.13	8:41

SHIPPING INFO	MATRIX CODES	TURNAROUND TIMES	COMPLIANCE INFORMATION	ADDITIONAL REMARKS
<input type="checkbox"/> UPS <input type="checkbox"/> Fed Express <input type="checkbox"/> US Mail <input type="checkbox"/> Hand Carried <input type="checkbox"/> Other _____	Water WT Soil SL Solid SD Filter FT Other OT	<input checked="" type="checkbox"/> Check desired service <input checked="" type="checkbox"/> Standard turnaround <input type="checkbox"/> RUSH - 5 Working Days <input type="checkbox"/> URGENT - < 2 Working Days Rush & Urgent Surcharges will be applied	Compliance Monitoring? Y / N Program (SDWA, NPDES,...) PWSID / Permit # Chlorinated? Y / N Sample Disposal: Lab Client	

**Date:** 8/29/2013**CLIENT:** Rare Element Resources (RER)**Project:** Upton**Lab Order:** S1307332**CASE NARRATIVE****Report ID:** S1307332001

Samples UAMS1 Cont 8671565, UAMS1 Cont 8671580, UAMS2 Cont 8671563, UAMS2 Cont 8671579, UAMS3 Cont 8671562, UAMS3 Cont 8671578, UAMS4 Cont 8671577, UAMS4 Cont 8671581, and UAMS5 Cont 8671576 were received on July 17, 2013.

All samples were received and analyzed within the EPA recommended holding times, except those noted below in this case narrative. Samples were analyzed using the methods outlined in the following references:

"Standard Methods For The Examination of Water and Wastewater", approved method versions

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846, 3rd Edition

40 CFR Parts 136 and 141

40 CFR Part 50, Appendices B, J, L, and O

Methods indicated in the Methods Update Rule published in the Federal Register Friday, May 18, 2012

ASTM approved and recognized standards

All Quality Control parameters met the acceptance criteria defined by EPA and Inter-Mountain Laboratories except as indicated in this case narrative.

Reviewed by:

Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

Company: Rare Element Resources (RER)
P.O. Box 1475
Sundance, WY 82729

Date Reported 8/29/2013
Report ID: S1307332001

ProjectName: Upton
Lab ID: S1307332-001
ClientSample ID: UAMS1 Cont 8671580
COC: 142380

WorkOrder: S1307332
CollectionDate: 4/18/2013 11:45:00 AM
DateReceived: 7/17/2013 11:22:00 AM
FieldSampler:
Matrix: Filter

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init
----------	--------	-------	------	----	--------	--------------------

Radionuclides - Filter

Radium 226	0.7	pCi/Filter		0.6	SM 7500RAB	08/19/2013 1333	SH
Radium 226 Precision (±)	0.3	pCi/Filter			SM 7500RAB	08/19/2013 1333	SH
Thorium 230	ND	pCi/Filter		0.6	ACW10	08/20/2013 802	MB
Thorium-230 Precision (±)	NA	pCi/Filter			ACW10	08/20/2013 802	MB

Metals - Filter

Cerium	ND	µg/Filter		16	IO-3.5	07/25/2013 1114	CS
Lanthanum	ND	µg/Filter		16	IO-3.5	07/25/2013 1114	CS
Thorium	ND	µg/Filter		16	IO-3.5	07/25/2013 1114	CS
Uranium	ND	µg/Filter		15	IO-3.5	07/25/2013 1114	CS

These results apply only to the samples tested.

Qualifiers:

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

RL - Reporting Limit

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

Reviewed by:

Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

Company: Rare Element Resources (RER)
P.O. Box 1475
Sundance, WY 82729

Date Reported 8/29/2013
Report ID: S1307332001

ProjectName: Upton
Lab ID: S1307332-002
ClientSample ID: UAMS1 Cont 8671565
COC: 142380

WorkOrder: S1307332
CollectionDate: 6/11/2013 7:15:00 AM
DateReceived: 7/17/2013 11:22:00 AM
FieldSampler:
Matrix: Filter

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init
----------	--------	-------	------	----	--------	--------------------

Radionuclides - Filter

Radium 226	2.1	pCi/Filter		0.6	SM 7500RAB	08/19/2013 1333 SH
Radium 226 Precision (±)	0.6	pCi/Filter			SM 7500RAB	08/19/2013 1333 SH
Thorium 230	ND	pCi/Filter		0.6	ACW10	08/20/2013 802 MB
Thorium-230 Precision (±)	NA	pCi/Filter			ACW10	08/20/2013 802 MB

Metals - Filter

Cerium	71	µg/Filter		16	IO-3.5	07/25/2013 1120 CS
Lanthanum	36	µg/Filter		16	IO-3.5	07/25/2013 1120 CS
Thorium	ND	µg/Filter		16	IO-3.5	07/25/2013 1120 CS
Uranium	ND	µg/Filter		15	IO-3.5	07/25/2013 1120 CS

These results apply only to the samples tested.

Qualifiers:

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

RL - Reporting Limit

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

Reviewed by:

Wade Nieuwsma, Assistant Laboratory Manager

**Sample Analysis Report**

Company: Rare Element Resources (RER)
P.O. Box 1475
Sundance, WY 82729

Date Reported 8/29/2013
Report ID: S1307332001

ProjectName: Upton
Lab ID: S1307332-003
ClientSample ID: UAMS2 Cont 8671579
COC: 142380

WorkOrder: S1307332
CollectionDate: 4/25/2013 10:00:00 AM
DateReceived: 7/17/2013 11:22:00 AM
FieldSampler:
Matrix: Filter

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init
----------	--------	-------	------	----	--------	--------------------

Radionuclides - Filter

Radium 226	ND	pCi/Filter		0.6	SM 7500RAB	08/19/2013 1333 SH
Radium 226 Precision (±)	NA	pCi/Filter			SM 7500RAB	08/19/2013 1333 SH
Thorium 230	ND	pCi/Filter		0.6	ACW10	08/20/2013 802 MB
Thorium-230 Precision (±)	NA	pCi/Filter			ACW10	08/20/2013 802 MB

Metals - Filter

Cerium	ND	µg/Filter		16	IO-3.5	07/25/2013 1126 CS
Lanthanum	ND	µg/Filter		16	IO-3.5	07/25/2013 1126 CS
Thorium	ND	µg/Filter		16	IO-3.5	07/25/2013 1126 CS
Uranium	ND	µg/Filter		15	IO-3.5	07/25/2013 1126 CS

These results apply only to the samples tested.

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

RL - Reporting Limit

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

Reviewed by:

Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

Company: Rare Element Resources (RER)
P.O. Box 1475
Sundance, WY 82729

Date Reported 8/29/2013
Report ID: S1307332001

ProjectName: Upton
Lab ID: S1307332-004
ClientSample ID: UAMS2 Cont 8671563
COC: 142380

WorkOrder: S1307332
CollectionDate: 6/20/2013 3:55:00 PM
DateReceived: 7/17/2013 11:22:00 AM
FieldSampler:
Matrix: Filter

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Filter							
Radium 226	1.9	pCi/Filter		0.6	SM 7500RAB	08/19/2013 1333	SH
Radium 226 Precision (±)	0.6	pCi/Filter			SM 7500RAB	08/19/2013 1333	SH
Thorium 230	ND	pCi/Filter		0.6	ACW10	08/20/2013 802	MB
Thorium-230 Precision (±)	NA	pCi/Filter			ACW10	08/20/2013 802	MB
Metals - Filter							
Cerium	41	µg/Filter		16	IO-3.5	07/25/2013 1133	CS
Lanthanum	21	µg/Filter		16	IO-3.5	07/25/2013 1133	CS
Thorium	ND	µg/Filter		16	IO-3.5	07/25/2013 1133	CS
Uranium	ND	µg/Filter		15	IO-3.5	07/25/2013 1133	CS

These results apply only to the samples tested.

Qualifiers:

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

RL - Reporting Limit

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

Reviewed by: Wade Nieuwsma
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

Company: Rare Element Resources (RER)
P.O. Box 1475
Sundance, WY 82729

Date Reported 8/29/2013
Report ID: S1307332001

ProjectName: Upton
Lab ID: S1307332-005
ClientSample ID: UAMS3 Cont 8671578
COC: 142380

WorkOrder: S1307332
CollectionDate: 4/30/2013 11:00:00 AM
DateReceived: 7/17/2013 11:22:00 AM
FieldSampler:
Matrix: Filter

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Filter							
Radium 226	ND	pCi/Filter		0.6	SM 7500RAB	08/19/2013 1333	SH
Radium 226 Precision (±)	NA	pCi/Filter			SM 7500RAB	08/19/2013 1333	SH
Thorium 230	ND	pCi/Filter		0.6	ACW10	08/20/2013 1205	MB
Thorium-230 Precision (±)	NA	pCi/Filter			ACW10	08/20/2013 1205	MB
Metals - Filter							
Cerium	ND	µg/Filter		16	IO-3.5	07/25/2013 1136	CS
Lanthanum	ND	µg/Filter		16	IO-3.5	07/25/2013 1136	CS
Thorium	ND	µg/Filter		16	IO-3.5	07/25/2013 1136	CS
Uranium	ND	µg/Filter		15	IO-3.5	07/25/2013 1136	CS

These results apply only to the samples tested.

Qualifiers:

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

RL - Reporting Limit

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

Reviewed by: Wade Nieuwsma
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

Company: Rare Element Resources (RER)
P.O. Box 1475
Sundance, WY 82729

Date Reported 8/29/2013
Report ID: S1307332001

ProjectName: Upton
Lab ID: S1307332-006
ClientSample ID: UAMS3 Cont 8671562
COC: 142380

WorkOrder: S1307332
CollectionDate: 6/27/2013 2:30:00 PM
DateReceived: 7/17/2013 11:22:00 AM
FieldSampler:
Matrix: Filter

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Filter							
Radium 226	1.6	pCi/Filter		0.6	SM 7500RAB	08/19/2013 1333	SH
Radium 226 Precision (±)	0.6	pCi/Filter			SM 7500RAB	08/19/2013 1333	SH
Thorium 230	ND	pCi/Filter		0.6	ACW10	08/20/2013 1205	MB
Thorium-230 Precision (±)	NA	pCi/Filter			ACW10	08/20/2013 1205	MB
Metals - Filter							
Cerium	34	µg/Filter		16	IO-3.5	07/25/2013 1139	CS
Lanthanum	16	µg/Filter		16	IO-3.5	07/25/2013 1139	CS
Thorium	ND	µg/Filter		16	IO-3.5	07/25/2013 1139	CS
Uranium	ND	µg/Filter		15	IO-3.5	07/25/2013 1139	CS

These results apply only to the samples tested.

Qualifiers:

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

RL - Reporting Limit

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

Reviewed by: Wade Nieuwsma
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

Company: Rare Element Resources (RER)
P.O. Box 1475
Sundance, WY 82729

Date Reported 8/29/2013
Report ID: S1307332001

ProjectName: Upton
Lab ID: S1307332-007
ClientSample ID: UAMS4 Cont 8671581
COC: 142380

WorkOrder: S1307332
CollectionDate: 4/12/2013 11:20:00 AM
DateReceived: 7/17/2013 11:22:00 AM
FieldSampler:
Matrix: Filter

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Filter							
Radium 226	0.8	pCi/Filter		0.6	SM 7500RAB	08/19/2013 1333	SH
Radium 226 Precision (±)	0.3	pCi/Filter			SM 7500RAB	08/19/2013 1333	SH
Thorium 230	ND	pCi/Filter		0.6	ACW10	08/20/2013 1205	MB
Thorium-230 Precision (±)	NA	pCi/Filter			ACW10	08/20/2013 1205	MB
Metals - Filter							
Cerium	ND	µg/Filter		16	IO-3.5	07/25/2013 1148	CS
Lanthanum	ND	µg/Filter		16	IO-3.5	07/25/2013 1148	CS
Thorium	ND	µg/Filter		16	IO-3.5	07/25/2013 1148	CS
Uranium	ND	µg/Filter		15	IO-3.5	07/25/2013 1148	CS

These results apply only to the samples tested.

Qualifiers:

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

RL - Reporting Limit

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

Reviewed by: Wade Nieuwsma
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

Company: Rare Element Resources (RER)
P.O. Box 1475
Sundance, WY 82729

Date Reported 8/29/2013
Report ID: S1307332001

ProjectName: Upton
Lab ID: S1307332-008
ClientSample ID: UAMS4 Cont 8671577
COC: 142380

WorkOrder: S1307332
CollectionDate: 5/9/2013 11:01:00 AM
DateReceived: 7/17/2013 11:22:00 AM
FieldSampler:
Matrix: Filter

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init
----------	--------	-------	------	----	--------	--------------------

Radionuclides - Filter

Radium 226	1.7	pCi/Filter		0.6	SM 7500RAB	08/19/2013 1333 SH
Radium 226 Precision (±)	0.6	pCi/Filter			SM 7500RAB	08/19/2013 1333 SH
Thorium 230	0.6	pCi/Filter		0.6	ACW10	08/20/2013 1205 MB
Thorium-230 Precision (±)	0.6	pCi/Filter			ACW10	08/20/2013 1205 MB

Metals - Filter

Cerium	33	µg/Filter		16	IO-3.5	07/25/2013 1152 CS
Lanthanum	16	µg/Filter		16	IO-3.5	07/25/2013 1152 CS
Thorium	ND	µg/Filter		16	IO-3.5	07/25/2013 1152 CS
Uranium	ND	µg/Filter		15	IO-3.5	07/25/2013 1152 CS

These results apply only to the samples tested.

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

RL - Reporting Limit

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

Reviewed by: Wade Nieuwsma
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

Company: Rare Element Resources (RER)
P.O. Box 1475
Sundance, WY 82729

Date Reported 8/29/2013
Report ID: S1307332001

ProjectName: Upton
Lab ID: S1307332-009
ClientSample ID: UAMS5 Cont 8671576
COC: 142380

WorkOrder: S1307332
CollectionDate: 5/25/2013 12:20:00 PM
DateReceived: 7/17/2013 11:22:00 AM
FieldSampler:
Matrix: Filter

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Radionuclides - Filter							
Radium 226	4.2	pCi/Filter		0.6	SM 7500RAB	08/19/2013 1333	SH
Radium 226 Precision (±)	0.6	pCi/Filter			SM 7500RAB	08/19/2013 1333	SH
Thorium 230	1.0	pCi/Filter		0.6	ACW10	08/20/2013 1205	MB
Thorium-230 Precision (±)	0.6	pCi/Filter			ACW10	08/20/2013 1205	MB
Metals - Filter							
Cerium	62	µg/Filter		16	IO-3.5	07/25/2013 1155	CS
Lanthanum	31	µg/Filter		16	IO-3.5	07/25/2013 1155	CS
Thorium	ND	µg/Filter		16	IO-3.5	07/25/2013 1155	CS
Uranium	ND	µg/Filter		15	IO-3.5	07/25/2013 1155	CS

These results apply only to the samples tested.

Qualifiers:

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

RL - Reporting Limit

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

Reviewed by:

Wade Nieuwsma, Assistant Laboratory Manager