



Inter-Mountain Labs
Sheridan, WY and Gillette, WY

- CHAIN OF CUSTODY RECORD -

Page of

All shaded fields must be completed.

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

149440

Client Name RRR		Project Identification UPTON AIR		Sampler (Signature/Attestation of Authenticity)		Telephone #	
Report Address		Contact Name KRIS THOMPSON		ANALYSES / PARAMETERS			
		Email KThompson@resourceelementresources.com					
Invoice Address		Phone 283-3500					
		Purchase Order # IML 13002		Quote #			
ITEM	LAB ID (Lab Use Only)	DATE SAMPLED	TIME	SAMPLE IDENTIFICATION	Matrix	# of Containers	REMARKS
1	514 01249-00	9/10/13	0740	UAMS 4 8671551	OT	1	4th QUARTER 2013
2	002	8/28/13	0610	UAMS 3 8671552			
3	003	9/18/13	0715	UAMS 5 8671550			
4	004	10/30/13	0910	UAMS 1 8671549			
5	005	10/22/13		UAMS 2 8671548			
6	006	10/16/13	1050	UAMS 2 8671548			
7	007b	10/22/13	1620	UAMS 3 8671547			
8	008f	10/31/13	1230	UAMS 4 8671546			
9	0090	11/12/13	1250	UAMS 5 8671545			
10	010	12/3/13	1120	UAMS 2 8671543			
11	010H	11/21/13	1030	UAMS 1 8671544			
12							
13							
14							
LAB COMMENTS		Relinquished By (Signature/Printed)		DATE	TIME	Received By (Signature/Printed)	
						Kathy Boyd P	
						1.22.14 11:35	
SHIPPING INFO		MATRIX CODES		TURNAROUND TIMES		COMPLIANCE INFORMATION	
<input type="checkbox"/> UPS		Water WT		<input type="checkbox"/> Check desired service		Compliance Monitoring? Y / N	
<input type="checkbox"/> Fed Express		Soil SL		<input type="checkbox"/> Standard turnaround		Program (SDWA, NPDES,...)	
<input type="checkbox"/> US Mail		Solid SD		<input type="checkbox"/> RUSH - 5 Working Days		PWSID / Permit #	
<input type="checkbox"/> Hand Carried		Filter FT		<input type="checkbox"/> URGENT - < 2 Working Days		Chlorinated? Y / N	
<input type="checkbox"/> Other		Other OT		Rush & Urgent Surcharges will be applied		Sample Disposal: Lab Client	

**Date:** 3/5/2014**CLIENT:** Rare Element Resources (RER)**Project:** Upton Air**Lab Order:** S1401249**CASE NARRATIVE****Report ID:** S1401249001

Samples UAMS 1 8671544, UAMS 1 8671549, UAMS 2 8671543, UAMS 2 8671548, UAMS 3 8671547, UAMS 3 8671552, UAMS 4 8671546, UAMS 4 8671551, UAMS 5 8671545, and UAMS 5 8671550 were received on January 22, 2014.

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 4/1/2014
Report ID S1401249002
(Replaces S1401249001)

ProjectName: Upton Air
Lab ID: S1401249-001
ClientSample ID: UAMS 4 8671551
COC: 149440

WorkOrder: S1401249
CollectionDate: 9/10/2013 7:40:00 AM
DateReceived: 1/22/2014 11:35:00 AM
FieldSampler:
Matrix: Filter

Comments 4th Quarter 2013

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init
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Field

Standard Volume (CF)	2247361.8	ft ³			Field	09/10/2013 740
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Radionuclides - Filter

Radium 226	1.5	pCi/Filter	0.6	SM 7500RAB	02/13/2014 946	SH
Radium 226 Precision (±)	0.6	pCi/Filter	0.6	SM 7500RAB	02/13/2014 946	SH
Radium 226	8.86E-7	Bq/m ³	3.70E-6	Calculation	04/01/2014 1630	WN
Radium 226 Precision (±)	8.86E-7	Bq/m ³	3.70E-6	Calculation	04/01/2014 1630	WN
Thorium 230	ND	pCi/Filter	0.6	ACW10	02/24/2014 947	KK
Thorium-230 Precision (±)	ND	pCi/Filter	0.6	ACW10	02/24/2014 947	KK
Thorium 230	1.14E-7	Bq/m ³	3.70E-6	Calculation	04/01/2014 1630	WN
Thorium 230 Precision (±)	1.14E-7	Bq/m ³	3.70E-6	Calculation	04/01/2014 1630	WN

Metals - Filter

Cerium	ND	µg/Filter	16	IO-3.5	02/03/2014 1642	MS
Cerium	ND	µg/m ³	16	IO-3.5	04/01/2014 1630	WN
Lanthanum	ND	µg/Filter	16	IO-3.5	02/03/2014 1642	MS
Lanthanum	ND	µg/m ³	16	IO-3.5	04/01/2014 1630	WN
Thorium	ND	µg/Filter	16	IO-3.5	02/03/2014 1642	MS
Thorium	ND	µg/m ³	16	IO-3.5	04/01/2014 1630	WN
Uranium	ND	µg/Filter	15	IO-3.5	02/03/2014 1642	MS
Uranium	ND	µg/m ³	15	IO-3.5	04/01/2014 1630	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers: B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
M Value exceeds Monthly Ave or MCL or is less than LCL
O Outside the Range of Dilutions
X Matrix Effect

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

Reviewed by:

Wade Nieuwsma, Assistant Laboratory Manager

**Sample Analysis Report**

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

Date Reported 4/1/2014
Report ID S1401249002
(Replaces S1401249001)

ProjectName: Upton Air
Lab ID: S1401249-002
ClientSample ID: UAMS 3 8671552
COC: 149440

WorkOrder: S1401249
CollectionDate: 8/28/2013 6:10:00 AM
DateReceived: 1/22/2014 11:35:00 AM
FieldSampler:
Matrix: Filter

Comments 4th Quarter 2013

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init
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Field

Standard Volume (CF)	2097511.4	ft ³			Field	08/28/2013 610
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Radionuclides - Filter

Radium 226	1.9	pCi/Filter	0.6	SM 7500RAB	02/13/2014 946	SH
Radium 226 Precision (±)	0.6	pCi/Filter	0.6	SM 7500RAB	02/13/2014 946	SH
Radium 226	1.21E-6	Bq/m ³	3.70E-6	Calculation	04/01/2014 1630	WN
Radium 226 Precision (±)	1.21E-6	Bq/m ³	3.70E-6	Calculation	04/01/2014 1630	WN
Thorium 230	ND	pCi/Filter	0.6	ACW10	02/24/2014 947	KK
Thorium-230 Precision (±)	ND	pCi/Filter	0.6	ACW10	02/24/2014 947	KK
Thorium 230	2.64E-7	Bq/m ³	3.70E-6	Calculation	04/01/2014 1630	WN
Thorium 230 Precision (±)	2.64E-7	Bq/m ³	3.70E-6	Calculation	04/01/2014 1630	WN

Metals - Filter

Cerium	29	µg/Filter	16	IO-3.5	02/03/2014 1645	MS
Cerium	ND	µg/m ³	16	IO-3.5	04/01/2014 1630	WN
Lanthanum	ND	µg/Filter	16	IO-3.5	02/03/2014 1645	MS
Lanthanum	ND	µg/m ³	16	IO-3.5	04/01/2014 1630	WN
Thorium	ND	µg/Filter	16	IO-3.5	02/03/2014 1645	MS
Thorium	ND	µg/m ³	16	IO-3.5	04/01/2014 1630	WN
Uranium	ND	µg/Filter	15	IO-3.5	02/03/2014 1645	MS
Uranium	ND	µg/m ³	15	IO-3.5	04/01/2014 1630	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers: B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
M Value exceeds Monthly Ave or MCL or is less than LCL
O Outside the Range of Dilutions
X Matrix Effect

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

Reviewed by:

Wade Nieuwsma, Assistant Laboratory Manager

**Sample Analysis Report**

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

Date Reported 4/1/2014
Report ID S1401249002
(Replaces S1401249001)

ProjectName: Upton Air
Lab ID: S1401249-003
ClientSample ID: UAMS 5 8671550
COC: 149440

WorkOrder: S1401249
CollectionDate: 9/18/2013 7:15:00 AM
DateReceived: 1/22/2014 11:35:00 AM
FieldSampler:
Matrix: Filter

Comments 4th Quarter 2013

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init
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Field

Standard Volume (CF)	2306054.6	ft ³			Field	09/18/2013 715
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Radionuclides - Filter

Radium 226	4.4	pCi/Filter	0.6	SM 7500RAB	02/13/2014 946	SH
Radium 226 Precision (±)	0.6	pCi/Filter	0.6	SM 7500RAB	02/13/2014 946	SH
Radium 226	2.51E-6	Bq/m ³	3.70E-6	Calculation	04/01/2014 1630	WN
Radium 226 Precision (±)	2.51E-6	Bq/m ³	3.70E-6	Calculation	04/01/2014 1630	WN
Thorium 230	0.7	pCi/Filter	0.6	ACW10	02/24/2014 1357	KK
Thorium-230 Precision (±)	0.6	pCi/Filter	0.6	ACW10	02/24/2014 1357	KK
Thorium 230	4.16E-7	Bq/m ³	3.70E-6	Calculation	04/01/2014 1630	WN
Thorium 230 Precision (±)	4.16E-7	Bq/m ³	3.70E-6	Calculation	04/01/2014 1630	WN

Metals - Filter

Cerium	33	µg/Filter	16	IO-3.5	02/03/2014 1648	MS
Cerium	ND	µg/m ³	16	IO-3.5	04/01/2014 1630	WN
Lanthanum	17	µg/Filter	16	IO-3.5	02/03/2014 1648	MS
Lanthanum	ND	µg/m ³	16	IO-3.5	04/01/2014 1630	WN
Thorium	ND	µg/Filter	16	IO-3.5	02/03/2014 1648	MS
Thorium	ND	µg/m ³	16	IO-3.5	04/01/2014 1630	WN
Uranium	ND	µg/Filter	15	IO-3.5	02/03/2014 1648	MS
Uranium	ND	µg/m ³	15	IO-3.5	04/01/2014 1630	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:	B	Analyte detected in the associated Method Blank	C	Calculated Value
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
	M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
	O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
	X	Matrix Effect		

Reviewed by:

Wade Nieuwsma, Assistant Laboratory Manager

**Sample Analysis Report**

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

Date Reported 4/1/2014
Report ID S1401249002
(Replaces S1401249001)

ProjectName: Upton Air
Lab ID: S1401249-004
ClientSample ID: UAMS 1 8671549
COC: 149440

WorkOrder: S1401249
CollectionDate: 10/30/2013 9:10:00 AM
DateReceived: 1/22/2014 11:35:00 AM
FieldSampler:
Matrix: Filter

Comments 4th Quarter 2013

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init
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Field

Standard Volume (CF)	1805111.8	ft ³			Field	10/30/2013 910
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Radionuclides - Filter

Radium 226	2.1	pCi/Filter	0.6	SM 7500RAB	02/13/2014 946	SH
Radium 226 Precision (±)	0.6	pCi/Filter	0.6	SM 7500RAB	02/13/2014 946	SH
Radium 226	1.48E-6	Bq/m ³	3.70E-6	Calculation	04/01/2014 1630	WN
Radium 226 Precision (±)	1.48E-6	Bq/m ³	3.70E-6	Calculation	04/01/2014 1630	WN
Thorium 230	0.9	pCi/Filter	0.6	ACW10	02/24/2014 1357	KK
Thorium-230 Precision (±)	0.6	pCi/Filter	0.6	ACW10	02/24/2014 1357	KK
Thorium 230	6.28E-7	Bq/m ³	3.70E-6	Calculation	04/01/2014 1630	WN
Thorium 230 Precision (±)	6.28E-7	Bq/m ³	3.70E-6	Calculation	04/01/2014 1630	WN

Metals - Filter

Cerium	35	µg/Filter	16	IO-3.5	02/03/2014 1651	MS
Cerium	ND	µg/m ³	16	IO-3.5	04/01/2014 1630	WN
Lanthanum	17	µg/Filter	16	IO-3.5	02/03/2014 1651	MS
Lanthanum	ND	µg/m ³	16	IO-3.5	04/01/2014 1630	WN
Thorium	ND	µg/Filter	16	IO-3.5	02/03/2014 1651	MS
Thorium	ND	µg/m ³	16	IO-3.5	04/01/2014 1630	WN
Uranium	ND	µg/Filter	15	IO-3.5	02/03/2014 1651	MS
Uranium	ND	µg/m ³	15	IO-3.5	04/01/2014 1630	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers: B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
M Value exceeds Monthly Ave or MCL or is less than LCL
O Outside the Range of Dilutions
X Matrix Effect

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

Reviewed by:

Wade Nieuwsma, Assistant Laboratory Manager

**Sample Analysis Report**

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

ProjectName: Upton Air
Lab ID: S1401249-005
ClientSample ID: UAMS 2 8671548
COC: 149440

Date Reported 4/1/2014
Report ID S1401249002
(Replaces S1401249001)

WorkOrder: S1401249
CollectionDate: 10/16/2013 10:50:00 AM
DateReceived: 1/22/2014 11:35:00 AM
FieldSampler:
Matrix: Filter

Comments 4th Quarter 2013

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init
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Field

Standard Volume (CF)	2081199.2	ft ³			Field	10/16/2013 1050
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Radionuclides - Filter

Radium 226	ND	pCi/Filter	0.6	SM 7500RAB	02/13/2014 946	SH
Radium 226 Precision (±)	ND	pCi/Filter	0.6	SM 7500RAB	02/13/2014 946	SH
Radium 226	2.44E-7	Bq/m ³	3.70E-6	Calculation	04/01/2014 1630	WN
Radium 226 Precision (±)	2.44E-7	Bq/m ³	3.70E-6	Calculation	04/01/2014 1630	WN
Thorium 230	ND	pCi/Filter	0.6	ACW10	02/24/2014 1357	KK
Thorium-230 Precision (±)	ND	pCi/Filter	0.6	ACW10	02/24/2014 1357	KK
Thorium 230	8.51E-8	Bq/m ³	3.70E-6	Calculation	04/01/2014 1630	WN
Thorium 230 Precision (±)	8.51E-8	Bq/m ³	3.70E-6	Calculation	04/01/2014 1630	WN

Metals - Filter

Cerium	ND	µg/Filter	16	IO-3.5	02/03/2014 1654	MS
Cerium	ND	µg/m ³	16	IO-3.5	04/01/2014 1630	WN
Lanthanum	ND	µg/Filter	16	IO-3.5	02/03/2014 1654	MS
Lanthanum	ND	µg/m ³	16	IO-3.5	04/01/2014 1630	WN
Thorium	ND	µg/Filter	16	IO-3.5	02/03/2014 1654	MS
Thorium	ND	µg/m ³	16	IO-3.5	04/01/2014 1630	WN
Uranium	ND	µg/Filter	15	IO-3.5	02/03/2014 1654	MS
Uranium	ND	µg/m ³	15	IO-3.5	04/01/2014 1630	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers: B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
M Value exceeds Monthly Ave or MCL or is less than LCL
O Outside the Range of Dilutions
X Matrix Effect

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

Reviewed by:

Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

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

Date Reported 4/1/2014
Report ID S1401249002
(Replaces S1401249001)

ProjectName: Upton Air
Lab ID: S1401249-006
ClientSample ID: UAMS 3 8671547
COC: 149440

WorkOrder: S1401249
CollectionDate: 10/22/2013 4:20:00 PM
DateReceived: 1/22/2014 11:35:00 AM
FieldSampler:
Matrix: Filter

Comments 4th Quarter 2013

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init
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Field

Standard Volume (CF)	1587401.3	ft ³			Field	10/22/2013 1620
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Radionuclides - Filter

Radium 226	ND	pCi/Filter	0.6	SM 7500RAB	02/13/2014 1154	SH
Radium 226 Precision (±)	ND	pCi/Filter	0.6	SM 7500RAB	02/13/2014 1154	SH
Radium 226	4.12E-7	Bq/m ³	3.70E-6	Calculation	04/01/2014 1630	WN
Radium 226 Precision (±)	4.12E-7	Bq/m ³	3.70E-6	Calculation	04/01/2014 1630	WN
Thorium 230	ND	pCi/Filter	0.6	ACW10	02/24/2014 1357	KK
Thorium-230 Precision (±)	ND	pCi/Filter	0.6	ACW10	02/24/2014 1357	KK
Thorium 230	3.83E-7	Bq/m ³	3.70E-6	Calculation	04/01/2014 1630	WN
Thorium 230 Precision (±)	3.83E-7	Bq/m ³	3.70E-6	Calculation	04/01/2014 1630	WN

Metals - Filter

Cerium	ND	µg/Filter	16	IO-3.5	02/03/2014 1704	MS
Cerium	ND	µg/m ³	16	IO-3.5	04/01/2014 1630	WN
Lanthanum	ND	µg/Filter	16	IO-3.5	02/03/2014 1704	MS
Lanthanum	ND	µg/m ³	16	IO-3.5	04/01/2014 1630	WN
Thorium	ND	µg/Filter	16	IO-3.5	02/03/2014 1704	MS
Thorium	ND	µg/m ³	16	IO-3.5	04/01/2014 1630	WN
Uranium	ND	µg/Filter	15	IO-3.5	02/03/2014 1704	MS
Uranium	ND	µg/m ³	15	IO-3.5	04/01/2014 1630	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers: B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
M Value exceeds Monthly Ave or MCL or is less than LCL
O Outside the Range of Dilutions
X Matrix Effect

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

Reviewed by:

Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

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

Date Reported 4/1/2014
Report ID S1401249002
(Replaces S1401249001)

ProjectName: Upton Air
Lab ID: S1401249-007
ClientSample ID: UAMS 4 8671546
COC: 149440

WorkOrder: S1401249
CollectionDate: 10/31/2013 12:30:00 PM
DateReceived: 1/22/2014 11:35:00 AM
FieldSampler:
Matrix: Filter

Comments 4th Quarter 2013

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init
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Field

Standard Volume (CF)	2814298	ft ³			Field	10/31/2013 1230
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Radionuclides - Filter

Radium 226	1.1	pCi/Filter	0.6	SM 7500RAB	02/13/2014 1154	SH
Radium 226 Precision (±)	0.3	pCi/Filter	0.6	SM 7500RAB	02/13/2014 1154	SH
Radium 226	4.89E-7	Bq/m ³	3.70E-6	Calculation	04/01/2014 1630	WN
Radium 226 Precision (±)	4.89E-7	Bq/m ³	3.70E-6	Calculation	04/01/2014 1630	WN
Thorium 230	ND	pCi/Filter	0.6	ACW10	02/24/2014 1357	KK
Thorium-230 Precision (±)	ND	pCi/Filter	0.6	ACW10	02/24/2014 1357	KK
Thorium 230	1.12E-7	Bq/m ³	3.70E-6	Calculation	04/01/2014 1630	WN
Thorium 230 Precision (±)	1.12E-7	Bq/m ³	3.70E-6	Calculation	04/01/2014 1630	WN

Metals - Filter

Cerium	ND	µg/Filter	16	IO-3.5	02/03/2014 1707	MS
Cerium	ND	µg/m ³	16	IO-3.5	04/01/2014 1630	WN
Lanthanum	ND	µg/Filter	16	IO-3.5	02/03/2014 1707	MS
Lanthanum	ND	µg/m ³	16	IO-3.5	04/01/2014 1630	WN
Thorium	ND	µg/Filter	16	IO-3.5	02/03/2014 1707	MS
Thorium	ND	µg/m ³	16	IO-3.5	04/01/2014 1630	WN
Uranium	ND	µg/Filter	15	IO-3.5	02/03/2014 1707	MS
Uranium	ND	µg/m ³	15	IO-3.5	04/01/2014 1630	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:	B	Analyte detected in the associated Method Blank	C	Calculated Value
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
	M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
	O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
	X	Matrix Effect		

Reviewed by:

Wade Nieuwsma, Assistant Laboratory Manager

**Sample Analysis Report**

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

Date Reported 4/1/2014
Report ID S1401249002
(Replaces S1401249001)

ProjectName: Upton Air
Lab ID: S1401249-008
ClientSample ID: UAMS 5 8671545
COC: 149440

WorkOrder: S1401249
CollectionDate: 11/12/2013 12:50:00 PM
DateReceived: 1/22/2014 11:35:00 AM
FieldSampler:
Matrix: Filter

Comments 4th Quarter 2013

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init
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Field

Standard Volume (CF)	2425680.1	ft ³			Field	11/12/2013 1250
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Radionuclides - Filter

Radium 226	3.2	pCi/Filter	0.6	SM 7500RAB	02/13/2014 1154	SH
Radium 226 Precision (±)	0.6	pCi/Filter	0.6	SM 7500RAB	02/13/2014 1154	SH
Radium 226	1.75E-6	Bq/m ³	3.70E-6	Calculation	04/01/2014 1630	WN
Radium 226 Precision (±)	1.75E-6	Bq/m ³	3.70E-6	Calculation	04/01/2014 1630	WN
Thorium 230	ND	pCi/Filter	0.6	ACW10	02/24/2014 1357	KK
Thorium-230 Precision (±)	ND	pCi/Filter	0.6	ACW10	02/24/2014 1357	KK
Thorium 230	2.57E-7	Bq/m ³	3.70E-6	Calculation	04/01/2014 1630	WN
Thorium 230 Precision (±)	2.57E-7	Bq/m ³	3.70E-6	Calculation	04/01/2014 1630	WN

Metals - Filter

Cerium	22	µg/Filter	16	IO-3.5	02/03/2014 1710	MS
Cerium	ND	µg/m ³	16	IO-3.5	04/01/2014 1630	WN
Lanthanum	ND	µg/Filter	16	IO-3.5	02/03/2014 1710	MS
Lanthanum	ND	µg/m ³	16	IO-3.5	04/01/2014 1630	WN
Thorium	ND	µg/Filter	16	IO-3.5	02/03/2014 1710	MS
Thorium	ND	µg/m ³	16	IO-3.5	04/01/2014 1630	WN
Uranium	ND	µg/Filter	15	IO-3.5	02/03/2014 1710	MS
Uranium	ND	µg/m ³	15	IO-3.5	04/01/2014 1630	WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers: B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
M Value exceeds Monthly Ave or MCL or is less than LCL
O Outside the Range of Dilutions
X Matrix Effect

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

Reviewed by:

Wade Nieuwsma, Assistant Laboratory Manager

**Sample Analysis Report**

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

Date Reported 4/1/2014
Report ID S1401249002
(Replaces S1401249001)

ProjectName: Upton Air
Lab ID: S1401249-009
ClientSample ID: UAMS 2 8671543
COC: 149440

WorkOrder: S1401249
CollectionDate: 12/3/2013 11:20:00 AM
DateReceived: 1/22/2014 11:35:00 AM
FieldSampler:
Matrix: Filter

Comments 4th Quarter 2013

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

Radium 226	1.1	pCi/Filter		0.6	SM 7500RAB	02/13/2014 1154 SH
Radium 226 Precision (±)	0.6	pCi/Filter		0.6	SM 7500RAB	02/13/2014 1154 SH
Radium 226	0.00E+0	Bq/m ³		3.70E-6	Calculation	04/01/2014 1630 WN
Radium 226 Precision (±)	0.00E+0	Bq/m ³		3.70E-6	Calculation	04/01/2014 1630 WN
Thorium 230	ND	pCi/Filter		0.6	ACW10	02/24/2014 1357 KK
Thorium-230 Precision (±)	ND	pCi/Filter		0.6	ACW10	02/24/2014 1357 KK
Thorium 230	0.00E+0	Bq/m ³		3.70E-6	Calculation	04/01/2014 1630 WN
Thorium 230 Precision (±)	0.00E+0	Bq/m ³		3.70E-6	Calculation	04/01/2014 1630 WN

Metals - Filter

Cerium	16	µg/Filter		16	IO-3.5	02/03/2014 1713 MS
Cerium	ND	µg/m ³		16	IO-3.5	04/01/2014 1630 WN
Lanthanum	ND	µg/Filter		16	IO-3.5	02/03/2014 1713 MS
Lanthanum	ND	µg/m ³		16	IO-3.5	04/01/2014 1630 WN
Thorium	ND	µg/Filter		16	IO-3.5	02/03/2014 1713 MS
Thorium	ND	µg/m ³		16	IO-3.5	04/01/2014 1630 WN
Uranium	ND	µg/Filter		15	IO-3.5	02/03/2014 1713 MS
Uranium	ND	µg/m ³		15	IO-3.5	04/01/2014 1630 WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:	B	Analyte detected in the associated Method Blank	C	Calculated Value
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	L	Analyzed by a contract laboratory
	M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
	O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
	X	Matrix Effect		

Reviewed by:

Wade Nieuwsma, Assistant Laboratory Manager

**Sample Analysis Report**

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

ProjectName: Upton Air
Lab ID: S1401249-010
ClientSample ID: UAMS 1 8671544
COC: 149440

Date Reported 4/1/2014
Report ID S1401249002
(Replaces S1401249001)

WorkOrder: S1401249
CollectionDate: 11/21/2013 10:30:00 AM
DateReceived: 1/22/2014 11:35:00 AM
FieldSampler:
Matrix: Filter

Comments 4th Quarter 2013

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

Radium 226	ND	pCi/Filter		0.6	SM 7500RAB	02/13/2014 1154 SH
Radium 226 Precision (±)	ND	pCi/Filter		0.6	SM 7500RAB	02/13/2014 1154 SH
Radium 226	0.00E+0	Bq/m ³		3.70E-6	Calculation	04/01/2014 1630 WN
Radium 226 Precision (±)	0.00E+0	Bq/m ³		3.70E-6	Calculation	04/01/2014 1630 WN
Thorium 230	ND	pCi/Filter		0.6	ACW10	02/24/2014 1357 KK
Thorium-230 Precision (±)	ND	pCi/Filter		0.6	ACW10	02/24/2014 1357 KK
Thorium 230	0.00E+0	Bq/m ³		3.70E-6	Calculation	04/01/2014 1630 WN
Thorium 230 Precision (±)	0.00E+0	Bq/m ³		3.70E-6	Calculation	04/01/2014 1630 WN

Metals - Filter

Cerium	ND	µg/Filter		16	IO-3.5	02/03/2014 1716 MS
Cerium	ND	µg/m ³		16	IO-3.5	04/01/2014 1630 WN
Lanthanum	ND	µg/Filter		16	IO-3.5	02/03/2014 1716 MS
Lanthanum	ND	µg/m ³		16	IO-3.5	04/01/2014 1630 WN
Thorium	ND	µg/Filter		16	IO-3.5	02/03/2014 1716 MS
Thorium	ND	µg/m ³		16	IO-3.5	04/01/2014 1630 WN
Uranium	ND	µg/Filter		15	IO-3.5	02/03/2014 1716 MS
Uranium	ND	µg/m ³		15	IO-3.5	04/01/2014 1630 WN

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers: B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
M Value exceeds Monthly Ave or MCL or is less than LCL
O Outside the Range of Dilutions
X Matrix Effect

C Calculated Value
H Holding times for preparation or analysis exceeded
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ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted recovery limits

Reviewed by:

Wade Nieuwsma, Assistant Laboratory Manager