



Inter-Mountain Labs  
Sheridan, WY and Gillette, WY

- CHAIN OF CUSTODY RECORD -

Page 1 of 2

All shaded fields must be completed.

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

# 146803

Client Name <b>BER</b>		Project Identification <b>Bear Lodge baseline SAP</b>		Sampler (Signature/Attestation of Authenticity)		Telephone # <b>307-283-3500</b>	
Report Address		Contact Name <b>Kris Thompson</b>		ANALYSES / PARAMETERS			
Invoice Address		Email <b>kthompson@arcelematresources.com</b>					
		Phone <b>307-283-3500</b>					
		Purchase Order # <b>IML 13002</b>		Quote #			
						REMARKS	
ITEM	LAB ID (Lab Use Only)	DATE	TIME	SAMPLE IDENTIFICATION	Matrix	# of Containers	
1	<b>5131 02916-001</b>	<b>07/08/13</b>	<b>12:20</b>	<b>AMS1 Cont 8298194</b>	<b>OT</b>	<b>1</b>	<b>X X X X X X</b>
2	<b>002</b>	<b>7/15/13</b>	<b>1300</b>	<b>AMS 2 Cont. 8298196</b>			
3	<b>003</b>	<b>8/22/13</b>	<b>12:30</b>	<b>AMS 3 Cont. 8298188</b>			
4	<b>004</b>	<b>8/1/13</b>	<b>12:30</b>	<b>AMS4 Cont. 8298189</b>			
5	<b>005</b>	<b>8/6/13</b>	<b>10:45</b>	<b>AMS2 Cont. 8298191</b>			
6	<b>006</b>	<b>7/26/13</b>	<b>11:40</b>	<b>AMS 1 Cont. 6784100</b>			
7	<b>007</b>	<b>8/7/13</b>	<b>10:20</b>	<b>UAMS 1 Cont. 8671554</b>			
8	<b>008</b>	<b>7/25/13</b>	<b>0855</b>	<b>UAMS 5 Cont 8671555</b>			
9	<b>009</b>	<b>7/18/13</b>	<b>10:30</b>	<b>UAMS 4 Cont A/A</b>			
10	<b>-010</b>	<b>7/11/13</b>		<b>UAMS 3 Cont. 8671558</b>			
11	<b>010</b>	<b>8/19/13</b>	<b>0910</b>	<b>UAMS #3 Cont. 8671558</b>			
12	<b>011 012</b>	<b>8/7/13</b>	<b>1120</b>	<b>UAMS #2 Cont. 8671559</b>			
13	<b>012 013</b>	<b>7/25/13</b>	<b>1350</b>	<b>UAM #4 Cont. 8671560</b>			
14	<b>013014</b>	<b>7/18/13</b>	<b>09:50</b>	<b>UAM #5 Cont. 8298195</b>			
LAB COMMENTS		Relinquished By (Signature/Printed)		DATE	TIME	Received By (Signature/Printed)	
		<b>Joe Kellum</b>		<b>10/17/13</b>	<b>11:00</b>	<b>Shirley A. McNeil</b>	
						<b>Kathy Bump</b>	
						<b>10.21.13 9:04</b>	
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 checked="" 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	
ADDITIONAL REMARKS							





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- CHAIN OF CUSTODY RECORD -

Page 2 of 2

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# 146804

Client Name <b>BER</b>		Project Identification <b>Bear Lodge baseline SAP</b>		Sampler (Signature/Attestation of Authenticity)		Telephone # <b>307-283-3500</b>			
Report Address		Contact Name <b>Kris Thompson</b>		ANALYSES / PARAMETERS					
		Email <b>kthompson@rareelementresources.com</b>							
Invoice Address		Phone <b>307-283-3500</b>							
		Purchase Order # <b>IML 13002</b>		Quote #		REMARKS			
ITEM	LAB ID (Lab Use Only)	DATE	TIME	SAMPLE IDENTIFICATION	Matrix	# of Containers			
1	<b>51310296</b>	<b>07/14/13</b>	<b>10:20</b>	<b>UAMS #4 Cont. 8671561</b>	<b>OT</b>	<b>1</b>	<b>X X X X X X</b>		
2	<b>016</b>	<b>07/23/13</b>	<b>09:40</b>	<b>AMS #4 515875</b>	<b>1</b>	<b>1</b>	<b>1 1 1 1 1 1</b>		
3	<b>016</b>	<b>09/23/13</b>	<b>2359</b>	<b>UAMS-#1 514645</b>	<b>1</b>	<b>1</b>	<b>1 1 1 1 1 1</b>		
4	<b>01817</b>	<b>08/14/13</b>	<b>0845</b>	<b>UAMS-#2 Cont. 8671553</b>	<b>1</b>	<b>1</b>	<b>1 1 1 1 1 1</b>		
5	<b>018</b>	<b>08/11/13</b>	<b>1135</b>	<b>AMS #1 Cont 6784099</b>					
6	<b>018</b>	<b>10/10/13</b>	<b>11:30</b>	<b>AMS #2 Cont 8298187</b>					
7									
8									
9									
10									
11									
12									
13									
14									
LAB COMMENTS		Relinquished By (Signature/Printed)		DATE	TIME	Received By (Signature/Printed)		DATE	TIME
		<b>[Signature]</b>		<b>10/17/13</b>	<b>11:00</b>	<b>[Signature]</b>		<b>10/17/13</b>	<b>11:00</b>
						<b>[Signature]</b>		<b>10.21.13</b>	<b>9:04</b>
SHIPPING INFO		MATRIX CODES		TURNAROUND TIMES		COMPLIANCE INFORMATION		ADDITIONAL REMARKS	
<input type="checkbox"/> UPS		Water WT		<input checked="" type="checkbox"/> Check desired service		Compliance Monitoring? Y / N			
<input type="checkbox"/> Fed Express		Soil SL		<input checked="" 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: 11/12/2013

**CLIENT:** Rare Element Resources (RER)**Project:** Bear Lodge baseline SAP**Lab Order:** S1310296**CASE NARRATIVE****Report ID:** S1310296001

Samples AMS #1 cont 6784099, AMS #2 cont 8298187, AMS #4 515875, AMS1 cont 6784100, AMS1 cont 8298194, AMS2 cont 8298191, AMS2 cont 8298196, AMS3 cont 8298188, AMS4 cont 8298189, UAM #1 cont 8671560, UAM #5 cont 8298195, UAMs #2 cont 8671559, UAMS #3 cont 8671558, UAMS #4 cont 8671561, UAMS #4 cont N/A, UAMS #5 cont 8671555, UAMS- #2 cont 8671553, UAMS-#1 514645, and UAMS1 cont 8671554 were received on October 21, 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** 4/1/2014  
**Report ID** S1310296002  
(Replaces S1310296001)

**ProjectName:** Bear Lodge baseline SAP  
**Lab ID:** S1310296-001  
**ClientSample ID:** AMS1 cont 8298194  
**COC:** 146803

**WorkOrder:** S1310296  
**CollectionDate:** 7/8/2013 12:20:00 PM  
**DateReceived:** 10/21/2013 9:04:00 AM  
**FieldSampler:**  
**Matrix:** Filter

**Comments**

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init
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**Field**

Standard Volume (CF)	516370.4	ft <sup>3</sup>			Field	07/08/2013 1220
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**Radionuclides - Filter**

Radium 226	0.9	pCi/Filter	0.3	SM 7500RAB	11/01/2013 1120	SH
Radium 226 Precision (±)	1.2	pCi/Filter	0.3	SM 7500RAB	11/01/2013 1120	SH
Radium 226	2.21E-6	Bq/m <sup>3</sup>	3.70E-6	Calculation	04/01/2014 1628	WN
Radium 226 Precision (±)	2.21E-6	Bq/m <sup>3</sup>	3.70E-6	Calculation	04/01/2014 1628	WN
Thorium 230	ND	pCi/Filter	0.2	ACW10	10/31/2013 751	MB
Thorium-230 Precision (±)	ND	pCi/Filter	0.2	ACW10	10/31/2013 751	MB
Thorium 230	0.00E+0	Bq/m <sup>3</sup>	3.70E-6	Calculation	04/01/2014 1628	WN
Thorium 230 Precision (±)	0.00E+0	Bq/m <sup>3</sup>	3.70E-6	Calculation	04/01/2014 1628	WN

**Metals - Filter**

Cerium	ND	µg/Filter	16	IO-3.5	10/23/2013 1522	MS
Cerium	ND	µg/m <sup>3</sup>	16	IO-3.5	04/01/2014 1628	WN
Lanthanum	ND	µg/Filter	16	IO-3.5	10/23/2013 1522	MS
Lanthanum	ND	µg/m <sup>3</sup>	16	IO-3.5	04/01/2014 1628	WN
Thorium	ND	µg/Filter	16	IO-3.5	10/23/2013 1522	MS
Thorium	ND	µg/m <sup>3</sup>	16	IO-3.5	04/01/2014 1628	WN
Uranium	ND	µg/Filter	15	IO-3.5	10/23/2013 1522	MS
Uranium	ND	µg/m <sup>3</sup>	15	IO-3.5	04/01/2014 1628	WN

**These results apply only to the samples tested.****RL - Reporting Limit**

<b>Qualifiers:</b>	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** S1310296002  
(Replaces S1310296001)

**ProjectName:** Bear Lodge baseline SAP  
**Lab ID:** S1310296-002  
**ClientSample ID:** AMS2 cont 8298196  
**COC:** 146803

**WorkOrder:** S1310296  
**CollectionDate:** 7/15/2013 1:00:00 PM  
**DateReceived:** 10/21/2013 9:04:00 AM  
**FieldSampler:**  
**Matrix:** Filter

**Comments**

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init
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**Field**

Standard Volume (CF)	1296652.8	ft <sup>3</sup>			Field	07/15/2013 1300
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**Radionuclides - Filter**

Radium 226	1.2	pCi/Filter	0.3	SM 7500RAB	11/01/2013 1120	SH
Radium 226 Precision (±)	1.2	pCi/Filter	0.3	SM 7500RAB	11/01/2013 1120	SH
Radium 226	1.24E-6	Bq/m <sup>3</sup>	3.70E-6	Calculation	04/01/2014 1628	WN
Radium 226 Precision (±)	1.24E-6	Bq/m <sup>3</sup>	3.70E-6	Calculation	04/01/2014 1628	WN
Thorium 230	0.7	pCi/Filter	0.2	ACW10	10/31/2013 751	MB
Thorium-230 Precision (±)	1.2	pCi/Filter	0.2	ACW10	10/31/2013 751	MB
Thorium 230	6.20E-7	Bq/m <sup>3</sup>	3.70E-6	Calculation	04/01/2014 1628	WN
Thorium 230 Precision (±)	6.20E-7	Bq/m <sup>3</sup>	3.70E-6	Calculation	04/01/2014 1628	WN

**Metals - Filter**

Cerium	26	µg/Filter	16	IO-3.5	10/23/2013 1532	MS
Cerium	ND	µg/m <sup>3</sup>	16	IO-3.5	04/01/2014 1628	WN
Lanthanum	17	µg/Filter	16	IO-3.5	10/23/2013 1532	MS
Lanthanum	ND	µg/m <sup>3</sup>	16	IO-3.5	04/01/2014 1628	WN
Thorium	ND	µg/Filter	16	IO-3.5	10/23/2013 1532	MS
Thorium	ND	µg/m <sup>3</sup>	16	IO-3.5	04/01/2014 1628	WN
Uranium	ND	µg/Filter	15	IO-3.5	10/23/2013 1532	MS
Uranium	ND	µg/m <sup>3</sup>	15	IO-3.5	04/01/2014 1628	WN

**These results apply only to the samples tested.****RL - Reporting Limit**

<b>Qualifiers:</b>	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:** Bear Lodge baseline SAP  
**Lab ID:** S1310296-003  
**ClientSample ID:** AMS3 cont 8298188  
**COC:** 146803

**Date Reported:** 4/1/2014  
**Report ID:** S1310296002  
(Replaces S1310296001)  
**WorkOrder:** S1310296  
**CollectionDate:** 8/22/2013 12:30:00 PM  
**DateReceived:** 10/21/2013 9:04:00 AM  
**FieldSampler:**  
**Matrix:** Filter

## Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init
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## Field

Standard Volume (CF)	1334318.4	ft <sup>3</sup>			Field	08/22/2013 1230
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## Radionuclides - Filter

Radium 226	0.9	pCi/Filter	0.3	SM 7500RAB	11/01/2013 1120	SH
Radium 226 Precision (±)	1.2	pCi/Filter	0.3	SM 7500RAB	11/01/2013 1120	SH
Radium 226	8.83E-7	Bq/m <sup>3</sup>	3.70E-6	Calculation	04/01/2014 1628	WN
Radium 226 Precision (±)	8.83E-7	Bq/m <sup>3</sup>	3.70E-6	Calculation	04/01/2014 1628	WN
Thorium 230	ND	pCi/Filter	0.2	ACW10	10/31/2013 751	MB
Thorium-230 Precision (±)	ND	pCi/Filter	0.2	ACW10	10/31/2013 751	MB
Thorium 230	1.50E-7	Bq/m <sup>3</sup>	3.70E-6	Calculation	04/01/2014 1628	WN
Thorium 230 Precision (±)	1.50E-7	Bq/m <sup>3</sup>	3.70E-6	Calculation	04/01/2014 1628	WN

## Metals - Filter

Cerium	ND	µg/Filter	16	IO-3.5	10/23/2013 1535	MS
Cerium	ND	µg/m <sup>3</sup>	16	IO-3.5	04/01/2014 1628	WN
Lanthanum	ND	µg/Filter	16	IO-3.5	10/23/2013 1535	MS
Lanthanum	ND	µg/m <sup>3</sup>	16	IO-3.5	04/01/2014 1628	WN
Thorium	ND	µg/Filter	16	IO-3.5	10/23/2013 1535	MS
Thorium	ND	µg/m <sup>3</sup>	16	IO-3.5	04/01/2014 1628	WN
Uranium	ND	µg/Filter	15	IO-3.5	10/23/2013 1535	MS
Uranium	ND	µg/m <sup>3</sup>	15	IO-3.5	04/01/2014 1628	WN

These results apply only to the samples tested.

## RL - Reporting Limit

<b>Qualifiers:</b>	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** S1310296002  
(Replaces S1310296001)

**ProjectName:** Bear Lodge baseline SAP  
**Lab ID:** S1310296-004  
**ClientSample ID:** AMS4 cont 8298189  
**COC:** 146803

**WorkOrder:** S1310296  
**CollectionDate:** 8/1/2013 12:30:00 PM  
**DateReceived:** 10/21/2013 9:04:00 AM  
**FieldSampler:**  
**Matrix:** Filter

**Comments**

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init
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**Field**

Standard Volume (CF)	1417333.4	ft <sup>3</sup>			Field	08/01/2013 1230
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**Radionuclides - Filter**

Radium 226	1.1	pCi/Filter	0.3	SM 7500RAB	11/01/2013 1120	SH
Radium 226 Precision (±)	1.2	pCi/Filter	0.3	SM 7500RAB	11/01/2013 1120	SH
Radium 226	1.00E-6	Bq/m <sup>3</sup>	3.70E-6	Calculation	04/01/2014 1628	WN
Radium 226 Precision (±)	1.00E-6	Bq/m <sup>3</sup>	3.70E-6	Calculation	04/01/2014 1628	WN
Thorium 230	1.2	pCi/Filter	0.2	ACW10	10/31/2013 751	MB
Thorium-230 Precision (±)	1.2	pCi/Filter	0.2	ACW10	10/31/2013 751	MB
Thorium 230	1.11E-6	Bq/m <sup>3</sup>	3.70E-6	Calculation	04/01/2014 1628	WN
Thorium 230 Precision (±)	1.11E-6	Bq/m <sup>3</sup>	3.70E-6	Calculation	04/01/2014 1628	WN

**Metals - Filter**

Cerium	ND	µg/Filter	16	IO-3.5	10/23/2013 1538	MS
Cerium	ND	µg/m <sup>3</sup>	16	IO-3.5	04/01/2014 1628	WN
Lanthanum	ND	µg/Filter	16	IO-3.5	10/23/2013 1538	MS
Lanthanum	ND	µg/m <sup>3</sup>	16	IO-3.5	04/01/2014 1628	WN
Thorium	ND	µg/Filter	16	IO-3.5	10/23/2013 1538	MS
Thorium	ND	µg/m <sup>3</sup>	16	IO-3.5	04/01/2014 1628	WN
Uranium	ND	µg/Filter	15	IO-3.5	10/23/2013 1538	MS
Uranium	ND	µg/m <sup>3</sup>	15	IO-3.5	04/01/2014 1628	WN

**These results apply only to the samples tested.****RL - Reporting Limit**

<b>Qualifiers:</b>	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** S1310296002  
(Replaces S1310296001)

**ProjectName:** Bear Lodge baseline SAP  
**Lab ID:** S1310296-005  
**ClientSample ID:** AMS2 cont 8298191  
**COC:** 146803

**WorkOrder:** S1310296  
**CollectionDate:** 8/6/2013 10:45:00 AM  
**DateReceived:** 10/21/2013 9:04:00 AM  
**FieldSampler:**  
**Matrix:** Filter

## Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init
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## Field

Standard Volume (CF)	11616517.1	ft <sup>3</sup>			Field	08/06/2013 1045
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## Radionuclides - Filter

Radium 226	0.9	pCi/Filter	0.3	SM 7500RAB	11/01/2013 1120	SH
Radium 226 Precision (±)	0.6	pCi/Filter	0.3	SM 7500RAB	11/01/2013 1120	SH
Radium 226	9.61E-8	Bq/m <sup>3</sup>	3.70E-6	Calculation	04/01/2014 1628	WN
Radium 226 Precision (±)	9.61E-8	Bq/m <sup>3</sup>	3.70E-6	Calculation	04/01/2014 1628	WN
Thorium 230	ND	pCi/Filter	0.2	ACW10	10/31/2013 1157	MB
Thorium-230 Precision (±)	ND	pCi/Filter	0.2	ACW10	10/31/2013 1157	MB
Thorium 230	0.00E+0	Bq/m <sup>3</sup>	3.70E-6	Calculation	04/01/2014 1628	WN
Thorium 230 Precision (±)	0.00E+0	Bq/m <sup>3</sup>	3.70E-6	Calculation	04/01/2014 1628	WN

## Metals - Filter

Cerium	28	µg/Filter	16	IO-3.5	10/23/2013 1541	MS
Cerium	ND	µg/m <sup>3</sup>	16	IO-3.5	04/01/2014 1628	WN
Lanthanum	18	µg/Filter	16	IO-3.5	10/23/2013 1541	MS
Lanthanum	ND	µg/m <sup>3</sup>	16	IO-3.5	04/01/2014 1628	WN
Thorium	ND	µg/Filter	16	IO-3.5	10/23/2013 1541	MS
Thorium	ND	µg/m <sup>3</sup>	16	IO-3.5	04/01/2014 1628	WN
Uranium	ND	µg/Filter	15	IO-3.5	10/23/2013 1541	MS
Uranium	ND	µg/m <sup>3</sup>	15	IO-3.5	04/01/2014 1628	WN

These results apply only to the samples tested.

## RL - Reporting Limit

<b>Qualifiers:</b>	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:** Bear Lodge baseline SAP  
**Lab ID:** S1310296-006  
**ClientSample ID:** AMS1 cont 6784100  
**COC:** 146803

**Date Reported** 4/1/2014  
**Report ID** S1310296002  
(Replaces S1310296001)  
**WorkOrder:** S1310296  
**CollectionDate:** 7/26/2013 11:40:00 AM  
**DateReceived:** 10/21/2013 9:04:00 AM  
**FieldSampler:**  
**Matrix:** Filter

**Comments**

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init
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**Field**

Standard Volume (CF)	558930.4	ft <sup>3</sup>			Field	07/26/2013 1140
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**Radionuclides - Filter**

Radium 226	0.7	pCi/Filter	0.3	SM 7500RAB	11/01/2013 1120	SH
Radium 226 Precision (±)	0.6	pCi/Filter	0.3	SM 7500RAB	11/01/2013 1120	SH
Radium 226	1.62E-6	Bq/m <sup>3</sup>	3.70E-6	Calculation	04/01/2014 1628	WN
Radium 226 Precision (±)	1.62E-6	Bq/m <sup>3</sup>	3.70E-6	Calculation	04/01/2014 1628	WN
Thorium 230	ND	pCi/Filter	0.2	ACW10	10/31/2013 1157	MB
Thorium-230 Precision (±)	ND	pCi/Filter	0.2	ACW10	10/31/2013 1157	MB
Thorium 230	0.00E+0	Bq/m <sup>3</sup>	3.70E-6	Calculation	04/01/2014 1628	WN
Thorium 230 Precision (±)	0.00E+0	Bq/m <sup>3</sup>	3.70E-6	Calculation	04/01/2014 1628	WN

**Metals - Filter**

Cerium	ND	µg/Filter	16	IO-3.5	10/23/2013 1547	MS
Cerium	ND	µg/m <sup>3</sup>	16	IO-3.5	04/01/2014 1628	WN
Lanthanum	ND	µg/Filter	16	IO-3.5	10/23/2013 1547	MS
Lanthanum	ND	µg/m <sup>3</sup>	16	IO-3.5	04/01/2014 1628	WN
Thorium	ND	µg/Filter	16	IO-3.5	10/23/2013 1547	MS
Thorium	ND	µg/m <sup>3</sup>	16	IO-3.5	04/01/2014 1628	WN
Uranium	ND	µg/Filter	15	IO-3.5	10/23/2013 1547	MS
Uranium	ND	µg/m <sup>3</sup>	15	IO-3.5	04/01/2014 1628	WN

**These results apply only to the samples tested.****RL - Reporting Limit**

<b>Qualifiers:</b>	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:** Bear Lodge baseline SAP  
**Lab ID:** S1310296-007  
**ClientSample ID:** UAMS1 cont 8671554  
**COC:** 146803

**Date Reported** 4/1/2014  
**Report ID** S1310296002  
(Replaces S1310296001)  
**WorkOrder:** S1310296  
**CollectionDate:** 8/7/2013 10:20:00 AM  
**DateReceived:** 10/21/2013 9:04:00 AM  
**FieldSampler:**  
**Matrix:** Filter

**Comments**

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init
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**Field**

Standard Volume (CF)	1538414.7	ft <sup>3</sup>			Field	08/07/2013 1020
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**Radionuclides - Filter**

Radium 226	1.5	pCi/Filter	0.3	SM 7500RAB	11/01/2013 1120	SH
Radium 226 Precision (±)	1.2	pCi/Filter	0.3	SM 7500RAB	11/01/2013 1120	SH
Radium 226	1.31E-6	Bq/m <sup>3</sup>	3.70E-6	Calculation	04/01/2014 1628	WN
Radium 226 Precision (±)	1.31E-6	Bq/m <sup>3</sup>	3.70E-6	Calculation	04/01/2014 1628	WN
Thorium 230	1.6	pCi/Filter	0.2	ACW10	10/31/2013 1157	MB
Thorium-230 Precision (±)	1.2	pCi/Filter	0.2	ACW10	10/31/2013 1157	MB
Thorium 230	1.42E-6	Bq/m <sup>3</sup>	3.70E-6	Calculation	04/01/2014 1628	WN
Thorium 230 Precision (±)	1.42E-6	Bq/m <sup>3</sup>	3.70E-6	Calculation	04/01/2014 1628	WN

**Metals - Filter**

Cerium	50	µg/Filter	16	IO-3.5	10/23/2013 1554	MS
Cerium	ND	µg/m <sup>3</sup>	16	IO-3.5	04/01/2014 1628	WN
Lanthanum	26	µg/Filter	16	IO-3.5	10/23/2013 1554	MS
Lanthanum	ND	µg/m <sup>3</sup>	16	IO-3.5	04/01/2014 1628	WN
Thorium	ND	µg/Filter	16	IO-3.5	10/23/2013 1554	MS
Thorium	ND	µg/m <sup>3</sup>	16	IO-3.5	04/01/2014 1628	WN
Uranium	ND	µg/Filter	15	IO-3.5	10/23/2013 1554	MS
Uranium	ND	µg/m <sup>3</sup>	15	IO-3.5	04/01/2014 1628	WN

**These results apply only to the samples tested.****RL - Reporting Limit**

<b>Qualifiers:</b>	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** S1310296002  
(Replaces S1310296001)

**ProjectName:** Bear Lodge baseline SAP  
**Lab ID:** S1310296-008  
**ClientSample ID:** UAMS #5 cont 8671555  
**COC:** 146803

**WorkOrder:** S1310296  
**CollectionDate:** 7/25/2013 8:55:00 AM  
**DateReceived:** 10/21/2013 9:04:00 AM  
**FieldSampler:**  
**Matrix:** Filter

**Comments**

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init
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**Field**

Standard Volume (CF)	2437049.6	ft <sup>3</sup>			Field	07/25/2013 855
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**Radionuclides - Filter**

Radium 226	5.1	pCi/Filter	0.3	SM 7500RAB	11/01/2013 1120	SH
Radium 226 Precision (±)	1.2	pCi/Filter	0.3	SM 7500RAB	11/01/2013 1120	SH
Radium 226	2.72E-6	Bq/m <sup>3</sup>	3.70E-6	Calculation	04/01/2014 1628	WN
Radium 226 Precision (±)	2.72E-6	Bq/m <sup>3</sup>	3.70E-6	Calculation	04/01/2014 1628	WN
Thorium 230	1.8	pCi/Filter	0.2	ACW10	10/31/2013 1157	MB
Thorium-230 Precision (±)	1.2	pCi/Filter	0.2	ACW10	10/31/2013 1157	MB
Thorium 230	9.51E-7	Bq/m <sup>3</sup>	3.70E-6	Calculation	04/01/2014 1628	WN
Thorium 230 Precision (±)	9.51E-7	Bq/m <sup>3</sup>	3.70E-6	Calculation	04/01/2014 1628	WN

**Metals - Filter**

Cerium	70	µg/Filter	16	IO-3.5	10/23/2013 1600	MS
Cerium	ND	µg/m <sup>3</sup>	16	IO-3.5	04/01/2014 1628	WN
Lanthanum	37	µg/Filter	16	IO-3.5	10/23/2013 1600	MS
Lanthanum	ND	µg/m <sup>3</sup>	16	IO-3.5	04/01/2014 1628	WN
Thorium	ND	µg/Filter	16	IO-3.5	10/23/2013 1600	MS
Thorium	ND	µg/m <sup>3</sup>	16	IO-3.5	04/01/2014 1628	WN
Uranium	ND	µg/Filter	15	IO-3.5	10/23/2013 1600	MS
Uranium	ND	µg/m <sup>3</sup>	15	IO-3.5	04/01/2014 1628	WN

**These results apply only to the samples tested.****RL - Reporting Limit**

<b>Qualifiers:</b>	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** S1310296002  
(Replaces S1310296001)

**ProjectName:** Bear Lodge baseline SAP  
**Lab ID:** S1310296-009  
**ClientSample ID:** UAMS #4 cont N/A  
**COC:** 146803

**WorkOrder:** S1310296  
**CollectionDate:** 7/18/2013 10:30:00 AM  
**DateReceived:** 10/21/2013 9:04:00 AM  
**FieldSampler:**  
**Matrix:** Filter

**Comments**

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init
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**Field**

Standard Volume (CF)	2220362.7	ft <sup>3</sup>			Field	07/18/2013 1030
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**Radionuclides - Filter**

Radium 226	2.9	pCi/Filter	0.3	SM 7500RAB	11/01/2013 1120	SH
Radium 226 Precision (±)	1.2	pCi/Filter	0.3	SM 7500RAB	11/01/2013 1120	SH
Radium 226	1.71E-6	Bq/m <sup>3</sup>	3.70E-6	Calculation	04/01/2014 1628	WN
Radium 226 Precision (±)	1.71E-6	Bq/m <sup>3</sup>	3.70E-6	Calculation	04/01/2014 1628	WN
Thorium 230	0.7	pCi/Filter	0.2	ACW10	10/31/2013 1157	MB
Thorium-230 Precision (±)	1.2	pCi/Filter	0.2	ACW10	10/31/2013 1157	MB
Thorium 230	3.93E-7	Bq/m <sup>3</sup>	3.70E-6	Calculation	04/01/2014 1628	WN
Thorium 230 Precision (±)	3.93E-7	Bq/m <sup>3</sup>	3.70E-6	Calculation	04/01/2014 1628	WN

**Metals - Filter**

Cerium	28	µg/Filter	16	IO-3.5	10/23/2013 1610	MS
Cerium	ND	µg/m <sup>3</sup>	16	IO-3.5	04/01/2014 1628	WN
Lanthanum	ND	µg/Filter	16	IO-3.5	10/23/2013 1610	MS
Lanthanum	ND	µg/m <sup>3</sup>	16	IO-3.5	04/01/2014 1628	WN
Thorium	ND	µg/Filter	16	IO-3.5	10/23/2013 1610	MS
Thorium	ND	µg/m <sup>3</sup>	16	IO-3.5	04/01/2014 1628	WN
Uranium	ND	µg/Filter	15	IO-3.5	10/23/2013 1610	MS
Uranium	ND	µg/m <sup>3</sup>	15	IO-3.5	04/01/2014 1628	WN

**These results apply only to the samples tested.****RL - Reporting Limit**

<b>Qualifiers:</b>	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** S1310296002  
(Replaces S1310296001)

**ProjectName:** Bear Lodge baseline SAP  
**Lab ID:** S1310296-010  
**ClientSample ID:** UAMS #3 cont 8671558  
**COC:** 146803

**WorkOrder:** S1310296  
**CollectionDate:** 8/19/2013 9:10:00 AM  
**DateReceived:** 10/21/2013 9:04:00 AM  
**FieldSampler:**  
**Matrix:** Filter

**Comments**

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init
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**Field**

Standard Volume (CF)	1967897.3	ft <sup>3</sup>			Field	08/19/2013 910
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**Radionuclides - Filter**

Radium 226	1.5	pCi/Filter	0.3	SM 7500RAB	11/01/2013 1120	SH
Radium 226 Precision (±)	1.2	pCi/Filter	0.3	SM 7500RAB	11/01/2013 1120	SH
Radium 226	1.04E-6	Bq/m <sup>3</sup>	3.70E-6	Calculation	04/01/2014 1628	WN
Radium 226 Precision (±)	1.04E-6	Bq/m <sup>3</sup>	3.70E-6	Calculation	04/01/2014 1628	WN
Thorium 230	0.5	pCi/Filter	0.2	ACW10	10/31/2013 1157	MB
Thorium-230 Precision (±)	1.2	pCi/Filter	0.2	ACW10	10/31/2013 1157	MB
Thorium 230	3.61E-7	Bq/m <sup>3</sup>	3.70E-6	Calculation	04/01/2014 1628	WN
Thorium 230 Precision (±)	3.61E-7	Bq/m <sup>3</sup>	3.70E-6	Calculation	04/01/2014 1628	WN

**Metals - Filter**

Cerium	19	µg/Filter	16	IO-3.5	10/23/2013 1613	MS
Cerium	ND	µg/m <sup>3</sup>	16	IO-3.5	04/01/2014 1628	WN
Lanthanum	ND	µg/Filter	16	IO-3.5	10/23/2013 1613	MS
Lanthanum	ND	µg/m <sup>3</sup>	16	IO-3.5	04/01/2014 1628	WN
Thorium	ND	µg/Filter	16	IO-3.5	10/23/2013 1613	MS
Thorium	ND	µg/m <sup>3</sup>	16	IO-3.5	04/01/2014 1628	WN
Uranium	ND	µg/Filter	15	IO-3.5	10/23/2013 1613	MS
Uranium	ND	µg/m <sup>3</sup>	15	IO-3.5	04/01/2014 1628	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:** Bear Lodge baseline SAP  
**Lab ID:** S1310296-011  
**ClientSample ID:** UAMs #2 cont 8671559  
**COC:** 146803

**Date Reported** 4/1/2014  
**Report ID** S1310296002  
(Replaces S1310296001)  
**WorkOrder:** S1310296  
**CollectionDate:** 8/7/2013 11:20:00 AM  
**DateReceived:** 10/21/2013 9:04:00 AM  
**FieldSampler:**  
**Matrix:** Filter

**Comments**

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init
<b>Field</b>						
Standard Volume (CF)	2277129	ft <sup>3</sup>			Field	08/07/2013 1120
<b>Radionuclides - Filter</b>						
Radium 226	2.5	pCi/Filter	0.3		SM 7500RAB	11/01/2013 1120 SH
Radium 226 Precision (±)	1.2	pCi/Filter	0.3		SM 7500RAB	11/01/2013 1120 SH
Radium 226	1.45E-6	Bq/m <sup>3</sup>	3.70E-6		Calculation	04/01/2014 1628 WN
Radium 226 Precision (±)	1.45E-6	Bq/m <sup>3</sup>	3.70E-6		Calculation	04/01/2014 1628 WN
Thorium 230	0.3	pCi/Filter	0.2		ACW10	10/31/2013 1157 MB
Thorium-230 Precision (±)	0.4	pCi/Filter	0.2		ACW10	10/31/2013 1157 MB
Thorium 230	1.72E-7	Bq/m <sup>3</sup>	3.70E-6		Calculation	04/01/2014 1628 WN
Thorium 230 Precision (±)	1.72E-7	Bq/m <sup>3</sup>	3.70E-6		Calculation	04/01/2014 1628 WN
<b>Metals - Filter</b>						
Cerium	24	µg/Filter	16		IO-3.5	10/23/2013 1616 MS
Cerium	ND	µg/m <sup>3</sup>	16		IO-3.5	04/01/2014 1628 WN
Lanthanum	ND	µg/Filter	16		IO-3.5	10/23/2013 1616 MS
Lanthanum	ND	µg/m <sup>3</sup>	16		IO-3.5	04/01/2014 1628 WN
Thorium	ND	µg/Filter	16		IO-3.5	10/23/2013 1616 MS
Thorium	ND	µg/m <sup>3</sup>	16		IO-3.5	04/01/2014 1628 WN
Uranium	ND	µg/Filter	15		IO-3.5	10/23/2013 1616 MS
Uranium	ND	µg/m <sup>3</sup>	15		IO-3.5	04/01/2014 1628 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** S1310296002  
(Replaces S1310296001)

**ProjectName:** Bear Lodge baseline SAP  
**Lab ID:** S1310296-012  
**ClientSample ID:** UAM #1 cont 8671560  
**COC:** 146803

**WorkOrder:** S1310296  
**CollectionDate:** 7/25/2013 1:50:00 PM  
**DateReceived:** 10/21/2013 9:04:00 AM  
**FieldSampler:**  
**Matrix:** Filter

## Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init
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## Field

Standard Volume (CF)	1237033	ft <sup>3</sup>			Field	07/25/2013 1350
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## Radionuclides - Filter

Radium 226	2.2	pCi/Filter	0.3	SM 7500RAB	11/01/2013 1120	SH
Radium 226 Precision (±)	1.2	pCi/Filter	0.3	SM 7500RAB	11/01/2013 1120	SH
Radium 226	2.42E-6	Bq/m <sup>3</sup>	3.70E-6	Calculation	04/01/2014 1628	WN
Radium 226 Precision (±)	2.42E-6	Bq/m <sup>3</sup>	3.70E-6	Calculation	04/01/2014 1628	WN
Thorium 230	0.5	pCi/Filter	0.2	ACW10	10/31/2013 1157	MB
Thorium-230 Precision (±)	0.5	pCi/Filter	0.2	ACW10	10/31/2013 1157	MB
Thorium 230	4.96E-7	Bq/m <sup>3</sup>	3.70E-6	Calculation	04/01/2014 1628	WN
Thorium 230 Precision (±)	4.96E-7	Bq/m <sup>3</sup>	3.70E-6	Calculation	04/01/2014 1628	WN

## Metals - Filter

Cerium	49	µg/Filter	16	IO-3.5	10/23/2013 1619	MS
Cerium	ND	µg/m <sup>3</sup>	16	IO-3.5	04/01/2014 1628	WN
Lanthanum	26	µg/Filter	16	IO-3.5	10/23/2013 1619	MS
Lanthanum	ND	µg/m <sup>3</sup>	16	IO-3.5	04/01/2014 1628	WN
Thorium	ND	µg/Filter	16	IO-3.5	10/23/2013 1619	MS
Thorium	ND	µg/m <sup>3</sup>	16	IO-3.5	04/01/2014 1628	WN
Uranium	ND	µg/Filter	15	IO-3.5	10/23/2013 1619	MS
Uranium	ND	µg/m <sup>3</sup>	15	IO-3.5	04/01/2014 1628	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** S1310296002  
(Replaces S1310296001)

**ProjectName:** Bear Lodge baseline SAP  
**Lab ID:** S1310296-013  
**ClientSample ID:** UAM #5 cont 8298195  
**COC:** 146803

**WorkOrder:** S1310296  
**CollectionDate:** 7/18/2013 9:50:00 AM  
**DateReceived:** 10/21/2013 9:04:00 AM  
**FieldSampler:**  
**Matrix:** Filter

**Comments**

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init
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**Field**

Standard Volume (CF)	1745990.8	ft <sup>3</sup>			Field	07/18/2013 950
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**Radionuclides - Filter**

Radium 226	6.6	pCi/Filter	0.3	SM 7500RAB	11/01/2013 1120	SH
Radium 226 Precision (±)	1.2	pCi/Filter	0.3	SM 7500RAB	11/01/2013 1120	SH
Radium 226	4.98E-6	Bq/m <sup>3</sup>	3.70E-6	Calculation	04/01/2014 1628	WN
Radium 226 Precision (±)	8.88E-7	Bq/m <sup>3</sup>	3.70E-6	Calculation	04/01/2014 1628	WN
Thorium 230	2.0	pCi/Filter	0.2	ACW10	11/01/2013 804	MB
Thorium-230 Precision (±)	1.2	pCi/Filter	0.2	ACW10	11/01/2013 804	MB
Thorium 230	1.52E-6	Bq/m <sup>3</sup>	3.70E-6	Calculation	04/01/2014 1628	WN
Thorium 230 Precision (±)	1.52E-6	Bq/m <sup>3</sup>	3.70E-6	Calculation	04/01/2014 1628	WN

**Metals - Filter**

Cerium	55	µg/Filter	16	IO-3.5	10/23/2013 1622	MS
Cerium	ND	µg/m <sup>3</sup>	16	IO-3.5	04/01/2014 1628	WN
Lanthanum	30	µg/Filter	16	IO-3.5	10/23/2013 1622	MS
Lanthanum	ND	µg/m <sup>3</sup>	16	IO-3.5	04/01/2014 1628	WN
Thorium	ND	µg/Filter	16	IO-3.5	10/23/2013 1622	MS
Thorium	ND	µg/m <sup>3</sup>	16	IO-3.5	04/01/2014 1628	WN
Uranium	ND	µg/Filter	15	IO-3.5	10/23/2013 1622	MS
Uranium	ND	µg/m <sup>3</sup>	15	IO-3.5	04/01/2014 1628	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:** Bear Lodge baseline SAP  
**Lab ID:** S1310296-014  
**ClientSample ID:** UAMS #4 cont 8671561  
**COC:** 146803

**Date Reported** 4/1/2014  
**Report ID** S1310296002  
(Replaces S1310296001)  
**WorkOrder:** S1310296  
**CollectionDate:** 7/9/2013 10:20:00 AM  
**DateReceived:** 10/21/2013 9:04:00 AM  
**FieldSampler:**  
**Matrix:** Filter

**Comments**

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init
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**Field**

Standard Volume (CF)	2696440.4	ft <sup>3</sup>			Field	07/09/2013 1020
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**Radionuclides - Filter**

Radium 226	2.5	pCi/Filter	0.3	SM 7500RAB	11/01/2013 1349	SH
Radium 226 Precision (±)	1.2	pCi/Filter	0.3	SM 7500RAB	11/01/2013 1349	SH
Radium 226	1.26E-6	Bq/m <sup>3</sup>	3.70E-6	Calculation	04/01/2014 1628	WN
Radium 226 Precision (±)	1.26E-6	Bq/m <sup>3</sup>	3.70E-6	Calculation	04/01/2014 1628	WN
Thorium 230	0.6	pCi/Filter	0.2	ACW10	11/01/2013 804	MB
Thorium-230 Precision (±)	0.6	pCi/Filter	0.2	ACW10	11/01/2013 804	MB
Thorium 230	2.84E-7	Bq/m <sup>3</sup>	3.70E-6	Calculation	04/01/2014 1628	WN
Thorium 230 Precision (±)	2.84E-7	Bq/m <sup>3</sup>	3.70E-6	Calculation	04/01/2014 1628	WN

**Metals - Filter**

Cerium	60	µg/Filter	16	IO-3.5	10/23/2013 1625	MS
Cerium	ND	µg/m <sup>3</sup>	16	IO-3.5	04/01/2014 1628	WN
Lanthanum	33	µg/Filter	16	IO-3.5	10/23/2013 1625	MS
Lanthanum	ND	µg/m <sup>3</sup>	16	IO-3.5	04/01/2014 1628	WN
Thorium	ND	µg/Filter	16	IO-3.5	10/23/2013 1625	MS
Thorium	ND	µg/m <sup>3</sup>	16	IO-3.5	04/01/2014 1628	WN
Uranium	ND	µg/Filter	15	IO-3.5	10/23/2013 1625	MS
Uranium	ND	µg/m <sup>3</sup>	15	IO-3.5	04/01/2014 1628	WN

**These results apply only to the samples tested.****RL - Reporting Limit**

<b>Qualifiers:</b>	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** S1310296002  
(Replaces S1310296001)

**ProjectName:** Bear Lodge baseline SAP  
**Lab ID:** S1310296-015  
**ClientSample ID:** AMS #4 515875  
**COC:** 146803

**WorkOrder:** S1310296  
**CollectionDate:** 7/23/2013 9:40:00 AM  
**DateReceived:** 10/21/2013 9:04:00 AM  
**FieldSampler:**  
**Matrix:** Filter

## Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init
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## Field

Standard Volume (CF)	803150.7	ft <sup>3</sup>			Field	07/23/2013 940
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## Radionuclides - Filter

Radium 226	0.8	pCi/Filter	0.3	SM 7500RAB	11/01/2013 1349	SH
Radium 226 Precision (±)	0.6	pCi/Filter	0.3	SM 7500RAB	11/01/2013 1349	SH
Radium 226	1.26E-6	Bq/m <sup>3</sup>	3.70E-6	Calculation	04/01/2014 1628	WN
Radium 226 Precision (±)	1.26E-6	Bq/m <sup>3</sup>	3.70E-6	Calculation	04/01/2014 1628	WN
Thorium 230	0.4	pCi/Filter	0.2	ACW10	11/01/2013 804	MB
Thorium-230 Precision (±)	0.6	pCi/Filter	0.2	ACW10	11/01/2013 804	MB
Thorium 230	6.66E-7	Bq/m <sup>3</sup>	3.70E-6	Calculation	04/01/2014 1628	WN
Thorium 230 Precision (±)	6.66E-7	Bq/m <sup>3</sup>	3.70E-6	Calculation	04/01/2014 1628	WN

## Metals - Filter

Cerium	ND	µg/Filter	16	IO-3.5	10/23/2013 1628	MS
Cerium	ND	µg/m <sup>3</sup>	16	IO-3.5	04/01/2014 1628	WN
Lanthanum	ND	µg/Filter	16	IO-3.5	10/23/2013 1628	MS
Lanthanum	ND	µg/m <sup>3</sup>	16	IO-3.5	04/01/2014 1628	WN
Thorium	ND	µg/Filter	16	IO-3.5	10/23/2013 1628	MS
Thorium	ND	µg/m <sup>3</sup>	16	IO-3.5	04/01/2014 1628	WN
Uranium	ND	µg/Filter	15	IO-3.5	10/23/2013 1628	MS
Uranium	ND	µg/m <sup>3</sup>	15	IO-3.5	04/01/2014 1628	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:** Bear Lodge baseline SAP  
**Lab ID:** S1310296-016  
**ClientSample ID:** UAMS-#1 514645  
**COC:** 146803

**Date Reported** 4/1/2014  
**Report ID** S1310296002  
(Replaces S1310296001)  
**WorkOrder:** S1310296  
**CollectionDate:** 9/23/2013 11:59:00 PM  
**DateReceived:** 10/21/2013 9:04:00 AM  
**FieldSampler:**  
**Matrix:** Filter

**Comments**

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

Radium 226	ND	pCi/Filter		0.3	SM 7500RAB	11/01/2013 1349 SH
Radium 226 Precision (±)	ND	pCi/Filter		0.3	SM 7500RAB	11/01/2013 1349 SH
Radium 226	0.00E+0	Bq/m <sup>3</sup>		3.70E-6	Calculation	04/01/2014 1628 WN
Radium 226 Precision (±)	0.00E+0	Bq/m <sup>3</sup>		3.70E-6	Calculation	04/01/2014 1628 WN
Thorium 230	ND	pCi/Filter		0.2	ACW10	11/01/2013 804 MB
Thorium-230 Precision (±)	ND	pCi/Filter		0.2	ACW10	11/01/2013 804 MB
Thorium 230	0.00E+0	Bq/m <sup>3</sup>		3.70E-6	Calculation	04/01/2014 1628 WN
Thorium 230 Precision (±)	0.00E+0	Bq/m <sup>3</sup>		3.70E-6	Calculation	04/01/2014 1628 WN

**Metals - Filter**

Cerium	ND	µg/Filter		16	IO-3.5	10/23/2013 1632 MS
Cerium	ND	µg/m <sup>3</sup>		16	IO-3.5	04/01/2014 1628 WN
Lanthanum	ND	µg/Filter		16	IO-3.5	10/23/2013 1632 MS
Lanthanum	ND	µg/m <sup>3</sup>		16	IO-3.5	04/01/2014 1628 WN
Thorium	ND	µg/Filter		16	IO-3.5	10/23/2013 1632 MS
Thorium	ND	µg/m <sup>3</sup>		16	IO-3.5	04/01/2014 1628 WN
Uranium	ND	µg/Filter		15	IO-3.5	10/23/2013 1632 MS
Uranium	ND	µg/m <sup>3</sup>		15	IO-3.5	04/01/2014 1628 WN

**These results apply only to the samples tested.****RL - Reporting Limit**

<b>Qualifiers:</b>	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** S1310296002  
(Replaces S1310296001)

**ProjectName:** Bear Lodge baseline SAP  
**Lab ID:** S1310296-017  
**ClientSample ID:** UAMS- #2 cont 8671553  
**COC:** 146803

**WorkOrder:** S1310296  
**CollectionDate:** 8/19/2013 8:45:00 AM  
**DateReceived:** 10/21/2013 9:04:00 AM  
**FieldSampler:**  
**Matrix:** Filter

## Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init
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## Field

Standard Volume (CF)	2432883.4	ft <sup>3</sup>			Field	08/19/2013 845
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## Radionuclides - Filter

Radium 226	0.7	pCi/Filter	0.3	SM 7500RAB	11/01/2013 1349	SH
Radium 226 Precision (±)	1.2	pCi/Filter	0.3	SM 7500RAB	11/01/2013 1349	SH
Radium 226	3.91E-7	Bq/m <sup>3</sup>	3.70E-6	Calculation	04/01/2014 1628	WN
Radium 226 Precision (±)	3.91E-7	Bq/m <sup>3</sup>	3.70E-6	Calculation	04/01/2014 1628	WN
Thorium 230	0.3	pCi/Filter	0.2	ACW10	11/01/2013 804	MB
Thorium-230 Precision (±)	0.4	pCi/Filter	0.2	ACW10	11/01/2013 804	MB
Thorium 230	1.73E-7	Bq/m <sup>3</sup>	3.70E-6	Calculation	04/01/2014 1628	WN
Thorium 230 Precision (±)	1.73E-7	Bq/m <sup>3</sup>	3.70E-6	Calculation	04/01/2014 1628	WN

## Metals - Filter

Cerium	ND	µg/Filter	16	IO-3.5	10/23/2013 1635	MS
Cerium	ND	µg/m <sup>3</sup>	16	IO-3.5	04/01/2014 1628	WN
Lanthanum	ND	µg/Filter	16	IO-3.5	10/23/2013 1635	MS
Lanthanum	ND	µg/m <sup>3</sup>	16	IO-3.5	04/01/2014 1628	WN
Thorium	ND	µg/Filter	16	IO-3.5	10/23/2013 1635	MS
Thorium	ND	µg/m <sup>3</sup>	16	IO-3.5	04/01/2014 1628	WN
Uranium	ND	µg/Filter	15	IO-3.5	10/23/2013 1635	MS
Uranium	ND	µg/m <sup>3</sup>	15	IO-3.5	04/01/2014 1628	WN

These results apply only to the samples tested.

## RL - Reporting Limit

<b>Qualifiers:</b>	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:** Bear Lodge baseline SAP  
**Lab ID:** S1310296-018  
**ClientSample ID:** AMS #1 cont 6784099  
**COC:** 146803

**Date Reported** 4/1/2014  
**Report ID** S1310296002  
(Replaces S1310296001)  
**WorkOrder:** S1310296  
**CollectionDate:** 8/1/2013 11:35:00 AM  
**DateReceived:** 10/21/2013 9:04:00 AM  
**FieldSampler:**  
**Matrix:** Filter

**Comments**

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init
<b>Field</b>						
Standard Volume (CF)	1311721.4	ft <sup>3</sup>			Field	08/01/2013 1135
<b>Radionuclides - Filter</b>						
Radium 226	1.2	pCi/Filter	0.3		SM 7500RAB	11/01/2013 1349 SH
Radium 226 Precision (±)	1.2	pCi/Filter	0.3		SM 7500RAB	11/01/2013 1349 SH
Radium 226	1.21E-6	Bq/m <sup>3</sup>	3.70E-6		Calculation	04/01/2014 1628 WN
Radium 226 Precision (±)	1.21E-6	Bq/m <sup>3</sup>	3.70E-6		Calculation	04/01/2014 1628 WN
Thorium 230	1.1	pCi/Filter	0.2		ACW10	11/01/2013 804 MB
Thorium-230 Precision (±)	.2	pCi/Filter	0.2		ACW10	11/01/2013 804 MB
Thorium 230	1.14E-6	Bq/m <sup>3</sup>	3.70E-6		Calculation	04/01/2014 1628 WN
Thorium 230 Precision (±)	1.14E-6	Bq/m <sup>3</sup>	3.70E-6		Calculation	04/01/2014 1628 WN
<b>Metals - Filter</b>						
Cerium	20	µg/Filter		16	IO-3.5	10/23/2013 1638 MS
Cerium	ND	µg/m <sup>3</sup>		16	IO-3.5	04/01/2014 1628 WN
Lanthanum	ND	µg/Filter		16	IO-3.5	10/23/2013 1638 MS
Lanthanum	ND	µg/m <sup>3</sup>		16	IO-3.5	04/01/2014 1628 WN
Thorium	ND	µg/Filter		16	IO-3.5	10/23/2013 1638 MS
Thorium	ND	µg/m <sup>3</sup>		16	IO-3.5	04/01/2014 1628 WN
Uranium	ND	µg/Filter		15	IO-3.5	10/23/2013 1638 MS
Uranium	ND	µg/m <sup>3</sup>		15	IO-3.5	04/01/2014 1628 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:** Bear Lodge baseline SAP  
**Lab ID:** S1310296-019  
**ClientSample ID:** AMS #2 cont 8298187  
**COC:** 146803

**Date Reported** 4/1/2014  
**Report ID** S1310296002  
(Replaces S1310296001)  
**WorkOrder:** S1310296  
**CollectionDate:** 10/10/2013 11:30:00 AM  
**DateReceived:** 10/21/2013 9:04:00 AM  
**FieldSampler:**  
**Matrix:** Filter

## Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init
<b>Field</b>						
Standard Volume (CF)	884574.8	ft <sup>3</sup>			Field	10/10/2013 1130
<b>Radionuclides - Filter</b>						
Radium 226	ND	pCi/Filter	0.3		SM 7500RAB	11/01/2013 1349 SH
Radium 226 Precision (±)	ND	pCi/Filter	0.3		SM 7500RAB	11/01/2013 1349 SH
Radium 226	2.62E-7	Bq/m <sup>3</sup>	3.70E-6		Calculation	04/01/2014 1628 WN
Radium 226 Precision (±)	2.62E-7	Bq/m <sup>3</sup>	3.70E-6		Calculation	04/01/2014 1628 WN
Thorium 230	0.4	pCi/Filter	0.2		ACW10	11/01/2013 804 MB
Thorium-230 Precision (±)	0.5	pCi/Filter	0.2		ACW10	11/01/2013 804 MB
Thorium 230	5.67E-7	Bq/m <sup>3</sup>	3.70E-6		Calculation	04/01/2014 1628 WN
Thorium 230 Precision (±)	5.67E-7	Bq/m <sup>3</sup>	3.70E-6		Calculation	04/01/2014 1628 WN
<b>Metals - Filter</b>						
Cerium	ND	µg/Filter	16		IO-3.5	10/23/2013 1647 MS
Cerium	ND	µg/m <sup>3</sup>	16		IO-3.5	04/01/2014 1628 WN
Lanthanum	ND	µg/Filter	16		IO-3.5	10/23/2013 1647 MS
Lanthanum	ND	µg/m <sup>3</sup>	16		IO-3.5	04/01/2014 1628 WN
Thorium	ND	µg/Filter	16		IO-3.5	10/23/2013 1647 MS
Thorium	ND	µg/m <sup>3</sup>	16		IO-3.5	04/01/2014 1628 WN
Uranium	ND	µg/Filter	15		IO-3.5	10/23/2013 1647 MS
Uranium	ND	µg/m <sup>3</sup>	15		IO-3.5	04/01/2014 1628 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