

ANALYTICAL SUMMARY REPORT

May 23, 2012

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

Workorder No.: G12050330

Project Name: Bear Lodge

Energy Laboratories Inc. Gillette WY received the following 16 samples for Rare Element Resources Inc on 5/9/2012 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
G12050330-001	AMS #1 pm10 #58595	05/09/12 9:10	05/09/12	Filter	PM-10 Filter Analysis
G12050330-002	AMS#4 pm10 #58594	05/07/12 11:15	05/09/12	Filter	Same As Above
G12050330-003	AMS#4 pm2.5 #58593	05/02/12 9:30	05/09/12	Filter	Same As Above
G12050330-004	AMS#3 pm2.5 #58592	04/30/12 11:05	05/09/12	Filter	Same As Above
G12050330-005	AMS#3 pm10 #58591	04/25/12 12:05	05/09/12	Filter	Same As Above
G12050330-006	AMS#2 pm10 #58590	04/20/12 8:59	05/09/12	Filter	Same As Above
G12050330-007	AMS#2 pm2.5 #58589	04/18/12 8:45	05/09/12	Filter	Same As Above
G12050330-008	AMS#1 pm2.5 #58588	04/13/12 9:52	05/09/12	Filter	Same As Above
G12050330-009	AMS#1 pm10 #58587	04/11/12 11:35	05/09/12	Filter	Same As Above
G12050330-010	AMS#4 pm10 #58586	04/06/12 11:05	05/09/12	Filter	Same As Above
G12050330-011	AMS#4 pm2.5 #58585	04/04/12 10:22	05/09/12	Filter	Same As Above
G12050330-012	AMS#3 pm2.5 #58584	03/30/12 9:11	05/09/12	Filter	Same As Above
G12050330-013	AMS#3 pm10 #58583	03/28/12 10:30	05/09/12	Filter	Same As Above
G12050330-014	AMS #2 pm10 #58582	03/26/12 10:30	05/09/12	Filter	Same As Above
G12050330-015	AMS#2 pm2.5 #58581	03/21/12 9:50	05/09/12	Filter	Same As Above
G12050330-016	AMS#1 pm2.5 #58580	03/19/12 12:03	05/09/12	Filter	Same As Above

The analyses presented in this report were performed by Energy Laboratories, Inc., 400 W. Boxelder Rd., Gillette, WY 82718, unless otherwise noted.

As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

The results as reported relate only to the item(s) submitted for testing.

If you have any questions regarding these tests results, please call.

Report Approved By:



CLIENT: Rare Element Resources Inc
Project: Bear Lodge
Sample Delivery Group: G12050330

Report Date: 05/23/12

CASE NARRATIVE

Tests associated with analyst identified as ELI-B were subcontracted to Energy Laboratories, 1120 S. 27th St., Billings, MT, EPA Number MT00005.

Date: 05/23/12

2012 FILTER DATA
AMS#1, PM10
Site: Rare Element Resources

Lab. No.	Sample Date	Filter No.	Gross Wt. Date	Tare Wt. Date	Sampling Time,min	Gross Wt, grams	Tare Wt, grams	Net Wt, grams
B12051202-009	04/09/12	58587	05/15/12	12/14/11	1440	4.5901	4.5647	0.0254
B12051202-001	05/07/12	58595	05/15/12	12/14/11	1440	4.5234	4.5127	0.0107

Date: 05/23/12

2012 FILTER DATA
AMS#2, PM10
Site: Rare Element Resources

Lab. No.	Sample Date	Filter No.	Gross Wt. Date	Tare Wt. Date	Sampling Time,min	Gross Wt, grams	Tare Wt, grams	Net Wt, grams
B12051202-014	03/21/12	58582	05/15/12	12/14/11	1440	4.6208	4.6154	0.0054
B12051202-006	04/18/12	58590	05/15/12	12/14/11	1440	4.6396	4.6364	0.0032

Date: 05/23/12

2012 FILTER DATA
AMS#3, PM10
Site: Rare Element Resources

Lab. No.	Sample Date	Filter No.	Gross Wt. Date	Tare Wt. Date	Sampling Time,min	Gross Wt, grams	Tare Wt, grams	Net Wt, grams
B12051202-013	03/26/12	58583	05/15/12	12/14/11	1440	4.5381	4.5363	0.0018
B12051202-005	04/23/12	58591	05/15/12	12/14/11	1440	4.6342	4.6313	0.0029

Date: 05/23/12

2012 FILTER DATA
AMS#4, PM10
Site: Rare Element Resources

Lab. No.	Sample Date	Filter No.	Gross Wt. Date	Tare Wt. Date	Sampling Time,min	Gross Wt, grams	Tare Wt, grams	Net Wt, grams
B12051202-010	04/04/12	58586	05/15/12	12/14/11	1440	4.5385	4.5210	0.0175
B12051202-002	05/02/12	58594	05/15/12	12/14/11	1440	4.6180	4.6031	0.0149

Date: 05/23/12

2012 FILTER DATA
AMS#1, PM2.5
Site: Rare Element Resources

Lab. No.	Sample Date	Filter No.	Gross Wt. Date	Tare Wt. Date	Sampling Time,min	Gross Wt, grams	Tare Wt, grams	Net Wt, grams
B12051202-016	03/14/12	58580	05/15/12	12/14/11	1440	4.5791	4.5776	0.0015
B12051202-008	04/11/12	58588	05/15/12	12/14/11	1440	4.6146	4.6085	0.0061

Date: 05/23/12

2012 FILTER DATA
AMS#2, PM2.5
Site: Rare Element Resources

Lab. No.	Sample Date	Filter No.	Gross Wt. Date	Tare Wt. Date	Sampling Time,min	Gross Wt, grams	Tare Wt, grams	Net Wt, grams
B12051202-015	03/19/12	58581	05/15/12	12/14/11	1440	4.6524	4.6245	0.0279
B12051202-007	04/16/12	58589	05/15/12	12/14/11	1440	4.6008	4.5682	0.0326

Date: 05/23/12

2012 FILTER DATA
AMS#3, PM2.5
Site: Rare Element Resources

Lab. No.	Sample Date	Filter No.	Gross Wt. Date	Tare Wt. Date	Sampling Time,min	Gross Wt, grams	Tare Wt, grams	Net Wt, grams
B12051202-012	03/28/12	58584	05/15/12	12/14/11	1440	5.1717	4.6027	0.5690
B12051202-004	04/25/12	58592	05/15/12	12/14/11	1440	4.5107	4.5094	0.0013

Date: 05/23/12

2012 FILTER DATA
AMS#4, PM2.5
Site: Rare Element Resources

Lab. No.	Sample Date	Filter No.	Gross Wt. Date	Tare Wt. Date	Sampling Time,min	Gross Wt, grams	Tare Wt, grams	Net Wt, grams
B12051202-011	04/02/12	58585	05/15/12	12/14/11	1440	4.6387	4.6350	0.0037
B12051202-003	04/30/12	58593	05/15/12	12/14/11	1440	4.6040	4.5967	0.0073

Workorder Receipt Checklist



G12050330

Login completed by: Misty Voegelé

Date Received: 5/9/2012

Reviewed by: BL2000\kscottruff

Received by: amm

Reviewed Date: 5/11/2012

Carrier Hand Del
name:

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time? (Exclude analyses that are considered field parameters such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature:	°C NA		
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Applicable <input checked="" type="checkbox"/>

Contact and Corrective Action Comments:

None

PLEASE PRINT (Provide as much information as possible.)

Project Name, PWS, Permit, Etc.

Sample Origin

EPA/State Compliance:

Company Name:

Contact Name:

Phone/Fax:

State:

Sampler: (Please Print)

Report Mail Address:

Contact Name:

Phone/Fax:

Email:

Signature: (Please Print)

Invoice Address:

Invoice Contact & Phone:

Purchase Order:

Quote/Bottle Order:

Special Report/Formats:

☐ DW
☐ POTW/WWTP
☐ State: _____
☐ Other: _____

☒ EED/EDT (Electronic Data)
Format: _____
☐ LEVEL IV
☐ NELAC

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

ANALYSIS REQUESTED

SEE ATTACHED

Standard Turnaround (TAT)

R U S H

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

Comments:

Shipped by:
Cobler ID(s):

Receipt Temp
N/A °C

On Ice: ☒ Y ☐ N
Custody Seal
On Bottle: ☒ Y ☐ N
On Cooler: ☒ Y ☐ N
Intact: ☒ Y ☐ N
Signature Match: ☒ Y ☐ N

SAMPLE IDENTIFICATION
(Name, Location, Interval, etc.)

Collection Date

Collection Time

MATRIX

For Gravimetric
Analysis only
DO NOT CUT

SEE ATTACHED

Standard Turnaround (TAT)

R U S H

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

Comments:

Shipped by:
Cobler ID(s):

Receipt Temp
N/A °C

On Ice: ☒ Y ☐ N
Custody Seal
On Bottle: ☒ Y ☐ N
On Cooler: ☒ Y ☐ N
Intact: ☒ Y ☐ N
Signature Match: ☒ Y ☐ N

LABORATORY USE ONLY

SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX	ANALYSIS REQUESTED	SEE ATTACHED	Standard Turnaround (TAT)	R U S H	Contact ELI prior to RUSH sample submittal for charges and scheduling - See Instruction Page	Comments:	Shipped by: Cobler ID(s):	Receipt Temp N/A °C	On Ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Custody Seal On Bottle: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N On Cooler: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Intact: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Signature Match: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N
AMS #1 pm10 #58595	5-9-12	9:10	1-0	X	X	X						
AMS #1 pm10 #58594	5-7-12	11:15										
AMS #1 pm2.5 #58593	5-2-12	9:30										
AMS #3 pm2.5 #58592	4-30-11	11:05										
AMS #3 pm10 #58591	4-25-12	12:05										
AMS #2 pm10 #58590	4-20-12	8:59										
AMS #2 pm2.5 #58589	4-18-12	8:45										
AMS #1 pm2.5 #58588	4-13-12	9:52										
AMS #1 pm10 #58587	4-11-12	11:35										
AMS #4 pm10 #58586	4-6-12	11:05										

Custody Record
Relinquished by (print): Calvin Taylor Date/Time: 5-9-12 4:00 Signature: Calvin Taylor

Received by (print): _____ Date/Time: _____ Signature: _____

Received by Laboratory: DS/89/20014:00 Date/Time: 5/9/12 4:00 Signature: Calvin Taylor

MUST be Signed

PLEASE PRINT (Provide as much information as possible.)

Company Name: PER

Report Mail Address: Bar ledge Baseline SFP

Invoice Address: Kris Thompson 307-283-3500 Thompson@wreckedtrucks.com

Project Name, PWS, Permit, Etc.: Bar ledge Baseline SFP

Contact Name: Bar ledge Baseline SFP

Phone/Fax: 307-283-3500

State: WY

Email: Callie Taylor

Sample Origin: Callie Taylor

EPA/State Compliance: Yes ☐ No ☐

Sampler: (Please Print) Callie Taylor

Invoice Contact & Phone: Kris Thompson 307-283-3500 Thompson@wreckedtrucks.com

Purchase Order: 15.com

Quote/Bottle Order: 15.com

Special Report/Formats:

☐ DW

☐ POTW/WWTP

☐ State: _____

☐ Other: _____

☒ EDD/EDT (Electronic Data)

Format: LEVEL IV

☐ LEVEL IV

☐ NELAC

Number of Containers _____

Sample Type: AWS V B O DW

Air Water Soils/Solids

Vegetation Bioassay Other

DW - Drinking Water

ANALYSIS REQUESTED

For Gravimetric Analysis only

DO NOT CUT

SEE ATTACHED

Standard Turnaround (TAT)

RUSH

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

Comments:

SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX	ANALYSIS REQUESTED	SEE ATTACHED	Standard Turnaround (TAT)	Comments:	Signature
AMS #4 pm 25 #58585	4-4-12	10:22		X		X		
AMS #3 pm 25 #58584	3-30-12	9:11		X				
AMS #3 pm 10 #58583	3-28-12	10:30		X				
AMS #2 pm 10 #58582	3-26-12	10:30		X				
AMS #2 pm 25 #58581	3-21-12	9:50		X				
AMS #1 pm 25 #58580	3-19-12	12:03		X				
8								
9								
10								

Custody Record MUST be Signed

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

Received by (print): _____ Date/Time: _____ Signature: _____

Relinquished by (print): _____ Date/Time: _____ Signature: _____

Received by (print): _____ Date/Time: _____ Signature: _____

Received by Laboratory: 05/09/2012 14:00 Signature: [Signature]

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

LABORATORY USE ONLY

Signature by: [Signature]

Cooler ID(s): _____

Receipt Temp: 14 °C

On Ice: N/A

Custody Seal: N/A

Intact: N

Signature Match: N

AMS #1 pm10
Filter # S8595

Start - 5-7-12 23:59

Stop - 5-8-12 23:59

TF 57626.0 SCF

63765.8 ACF

1440.06 Tm

Collect 5-9-12 9:10

Do Not Cut

Lab ID: G12050330-001A
ID: AMS #1 pm10 #S8595
Client ID: RR-ELMNT-RSRCs
Received: 5/9/2012 2:00:00 PM
Collected: 5/9/2012 9:10:00 AM
Bottle: 1 of 1 Filter

AMS #11 pm10

Filter # S8594

Collect 5-7-12 11:15

Start 5-2-12 23:59

Stop 5-3-12 23:59

TF 57235.8 SCF

68640.8 ACF

1439.96 Tm

For Gravimetric Analysis only

Do Not Cut

Lab ID: G12050330-002A
ID: AMS #4 pm10 #S8594
Client ID: RR-ELMNT-RSRCs
Received: 5/9/2012 2:00:00 PM
Collected: 5/7/2012 11:15:00 AM
Bottle: 1 of 1 Filter

TEC - Environmental, University of
Do Not Cut

Filter # 58593
collect 5-2-12 9:30
start 4-30-12 23:59
stop 5-1-12 23:59
TF 66075.3 SCF
68298.3 ALF
1440.0 E T min

Lab ID: G12050330-003A
ID: AMS#4 pm2.5 #58593
Client ID: RR-ELMNT-RSRCS
Received: 5/9/2012 2:00:00 PM
Collected: 5/2/2012 9:30:00 AM
Bottle: 1 of 1 Filter

For Fluorimetric Analysis Only
Do Not Cut

AMS #3 pm 2.5
Filter # 58592
collect 4-30-12 11:05
start 4-25-12 23:59
stop 4-26-12 23:59
TF 65066.7 SCF
77605.1 ALF
1439.9 E T min

Lab ID: G12050330-004A
ID: AMS#3 pm2.5 #58592
Client ID: RR-ELMNT-RSRCS
Received: 5/9/2012 2:00:00 PM
Collected: 4/30/2012 11:05:00 AM
Bottle: 1 of 1 Filter

PM10

Collection Date 4/25/12
Collection Time 12:05

Start 4/23/12 23:59
Stop 4/24/12 23:59
Filter # 58591

TF: SCF: 66722.3
ACF: 80436.6
ETmin: 1440

For Environmental Analysis Only
Do Not Cut

Lab ID: G12050330-005A
ID: AMS#3 pm10 #58591
Client ID: RR-ELMNT-RSRCs
Received: 5/9/2012 2:00:00 PM
Collected: 4/25/2012 12:05:00 PM
Bottle: 1 of 1 Filter

For Gravimetric Analysis Only
Do Not Cut

AMS#2 pm10
Filter # 58590
Start 4-18-12 23:59
Stop 4-19-12 23:59
TF: SCF: 67543.0
ACF: 1440 ETmin
Collect 4-20-12 8:59

Lab ID: G12050330-006A
ID: AMS#2 pm10 #58590
Client ID: RR-ELMNT-RSRCs
Received: 5/9/2012 2:00:00 PM
Collected: 4/20/2012 8:59:00 AM
Bottle: 1 of 1 Filter

Filter # 58589
 Collect 4-18-12 23:54 8:45
 Start - 4-16-12 23:59
 Stop - 4-18-12 23:59
 IF 58082, 8 SCF
 68093, 7 ACF
 1440 EImh

AMS #1 pm2.5
 Filter # 58588
 Collect - 4-13-12 9:52
 Start 4-11-12 23:59
 Stop 4-12-12 23:59
 IF 53249, 5 SCF
 61622, 9 ACF
 1439.9 EImh

For examination via state use
 do not empty test

For Gravimetric Analysis Only
 do not test

Lab ID: G12050330-007A
 ID: AMS#2 pm2.5 #585819
 Client ID: RR-ELMNT-RSRCS
 Received: 5/9/2012 2:00:00 PM
 Collected: 4/18/2012 8:45:00 AM
 Bottle: 1 of 1 Filter

Lab ID: G12050330-008A
 ID: AMS#1 pm2.5 #58588
 Client ID: RR-ELMNT-RSRCS
 Received: 5/9/2012 2:00:00 PM
 Collected: 4/13/2012 9:52:00 AM
 Bottle: 1 of 1 Filter

Filter # 38587
 Collect 4-11-12 11:35
 Start 4-9-12 23:59
 Stop 4-10-12 23:59
 TF 5759 S 3 SCF
 64281.4 ACF
 1439.9 ETmin

For Examination
 Be Not Out

Lab ID: G12050330-009A
 ID: AMS#1 pm10 #58587
 Client ID: RR-ELMNT-RSRCS
 Received: 5/9/2012 2:00:00 PM
 Collected: 4/11/2012 11:35:00 AM
 Bottle: 1 of 1 Filter

For Examination Analysis Only
 Be Not Out

Lab ID: G12050330-010A
 ID: AMS#4 pm10 #58586
 Client ID: RR-ELMNT-RSRCS
 Received: 5/9/2012 2:00:00 PM
 Collected: 4/6/2012 11:05:00 AM
 Bottle: 1 of 1 Filter

AMS # 4 pm10
 Filter # 58586
 Start 4-4-12 23:59
 Stop 4-5-12 23:59
 Collect 4-6-12 11:05
 TF 57617.3 SCF
 64425.2 ACF
 1440 ETmin

for - downstreamer Thompson University
De Matti

F/Her # 58585
TF 57613.2 SCF
66166.0 ACF
1439.9 ETmin
Start 4-2-12 23:59
Stop 4-3-12 23:59
Collected 4-4-12 10:22

Lab ID: G12050330-011A
ID: AMS#4 pm2.5 #58585
Client ID: RR-ELMNT-RSRCs
Received: 5/9/2012 2:00:00 PM
Collected: 4/4/2012 10:22:00 AM
Bottle: 1 of 1 Filter

For Gravimetric Analysis Only
De Matti

AMS #3 pm2.5
Filter # 58584
Start - 3-28-12 23:59
Stop - 3-29-12 23:59
TF 58065.9 SCF
69039.8 ACF
1439.9 ETmin

Collected 3-30-12 94

Lab ID: G12050330-012A
ID: AMS#3 pm2.5 #58584
Client ID: RR-ELMNT-RSRCs
Received: 5/9/2012 2:00:00 PM
Collected: 3/30/2012 9:11:00 AM
Bottle: 1 of 1 Filter

Filter # 58583

Start 3-26-12 23:59

Stop 3-27-12 23:59

Collect 3-28-12 10:30

TF 71013.45CF

82233.54CF

1440 ETmin.

AMS #2 pm10

Filter # 58582

Start 3-21-12 23:59

Stop 3-22-12 23:59

Collected 3-26-12 10:30

57850.2 SCF

70357.4 ACF

1440 ETmin

For Environmental Use - uncalibrated

DeVet Air

Lab ID: G12050330-013A
ID: AMS#3 pm10 #58583
Client ID: RR-ELMNT-RSRCS
Received: 5/9/2012 2:00:00 PM
Collected: 3/26/2012 10:30:00 AM
Bottle: 1 of 1 Filter

For Environmental Analysis Only

Lab ID: G12050330-014A
ID: AMS #2 pm10 #58582
Client ID: RR-ELMNT-RSRCS
Received: 5/9/2012 2:00:00 PM
Collected: 3/26/2012 10:30:00 AM
Bottle: 1 of 1 Filter

PM 2.5

Start 3-19-12 23:59

Stop 3-20-12 23:59

Collected 3-21-12 9:50am

TF 57596.3 SCF

68017.2 ACF

1440. ETmin

Do NOT Cut

Lab ID: G12050330-015A
ID: AMS#2 pm2.5 #58581
Client ID: RR-ELMNT-RSRCs
Received: 5/9/2012 2:00:00 PM
Collected: 3/21/2012 9:50:00 AM
Bottle: 1 of 1 Filter

AMS #1 pm 2.5

Filter # 58580

Collected: 3-19-12 Time: 12:03

TF

SCF 55514.4

ACF 65148.3

ET min 1440.0

Start 3-14-12 23:59

Stop 3-15-12 23:59

For Gravimetric Analysis only
DO NOT CUT

Lab ID: G12050330-016A
ID: AMS#1 pm2.5 #58580
Client ID: RR-ELMNT-RSRCs
Received: 5/9/2012 2:00:00 PM
Collected: 3/19/2012 12:03:00 PM
Bottle: 1 of 1 Filter