



Epperly 14C-23 Pad (Facility ID 335451)
Form 19 (Report of Corrective Actions Completed)
Spill 438146
Narrative Attachment
Document Date – 08/28/2014

This Form 19 (Report of Corrective Actions Completed) was prepared for the purpose of requesting No Further Action (NFA) determination be made for a release (Spill 438146) at the Epperly 14C-23 Pad (Facility ID 335451) in Bill Barrett Corporation's (BBC) Piceance area of operations. This document presents analytical evidence that observed hydrocarbon impacts have been remediated to Colorado Oil and Gas Conservation Commission (COGCC) standards. A topographic Site Location Map is included as an attachment to this form (Figure 1).

REMEDIATION WORKPLAN

Describe initial action taken (if previously provided, refer to that form or document):

An initial from 19 was submitted on 7/18/2014 (Document # 400646732).

Describe how source is to be removed:

Impacted soil within the release area was removed through excavation activities. After excavation activities were completed, confirmation soil samples were collected and submitted for the following analytical suite: total petroleum hydrocarbons (TPH), benzene, toluene, ethylbenzene, and total xylenes (BTEX), Table 910-1 polycyclic aromatic hydrocarbons (PAHs), COGCC Table 910-1 metals, electrical conductivity (EC), pH, and sodium adsorption ratio (SAR). Please refer to the attached Table 1 for a summary of confirmation sample results. A Site Map is provided as Figure 2. Laboratory analytical reports are included as an attachment.

Describe how remediation of existing impacts is to be accomplished, including removal and disposal at an injection well or licensed facility, land treatment on site, removal of impacted groundwater, insitu bioremediation, burning of oily vegetation, etc.:

Soil was excavated from the release area and stockpiled on site. Excavated soil represented by samples CS04 and CS05 was sampled and submitted for a reduced laboratory analytical suite per the approval of Carlos Lujan of the COGCC. Once laboratory analytical results indicated that the excavated soil was compliant with the COGCC Table 910-1 Concentration Levels, Mr. Lujan approved the beneficial re-use of the excavated material to construct containment berms on site.

If groundwater has been impacted, describe proposed monitoring plan (# of wells or sample points, sampling schedule, analytical methods, etc.):

Groundwater was not encountered during remedial activities. Groundwater is estimated to be 42 feet below ground surface (bgs).



Describe reclamation plan. Discuss existing and new grade recontouring; method and testing of compaction alleviation; and reseeding program, including location of new seed, seed mix and noxious weed prevention. Attach diagram or drawing. Use additional sheet for description if required.

The excavation was backfilled to match original grade.

Attach samples and analytical results taken to verify remediation of impacts. Show locations of samples on an onsite schematic or drawing. Is further site investigation required? If yes, describe:

Confirmation soil samples were collected from the sidewalls and the bottom of the excavated area (West Wall@5', SS02, SS04, SS05, SS06, SS07, SS08, and East Wall02@6'). Laboratory analytical results of the confirmation soil samples indicate all analytes are either compliant with COGCC Table 910-1 Concentration Levels or were within the COGCC's allowable arsenic range (1.25x background arsenic concentration), except for the pH result of soil sample SS08. However, Frequently Asked Question Number 32 on the COGCC website explains that the COGCC will apply the Table 910-1 Concentration Levels for EC, SAR, and pH only to soils that are within 3 feet of the ground surface as these analytes relate to reclamation. Soil sample SS08 was collected at approximately six feet bgs. The excavation extents and soil sample locations are depicted on the attached Site Map (Figure 2) and laboratory analytical results are provided in Table 1. Laboratory analytical reports are included as an attachment.

Based on these recent analytical results, BBC is requesting a NFA determination for this release. If the information provided is satisfactory, please provide a letter of No Further Action and closure documentation for this project.

Final disposition of E&P waste (landtreated and disposed onsite, name of licensed disposal facility, recycling, reuse, etc.):

The excavated area was backfilled using clean imported fill material and clean overburden that was preserved during excavation. The excavated material was sampled and submitted for a reduced laboratory analytical suite per the approval of the COGCC. Based on laboratory analytical results, the COGCC approved the beneficial re-use of the excavated material to construct containment berms on site.

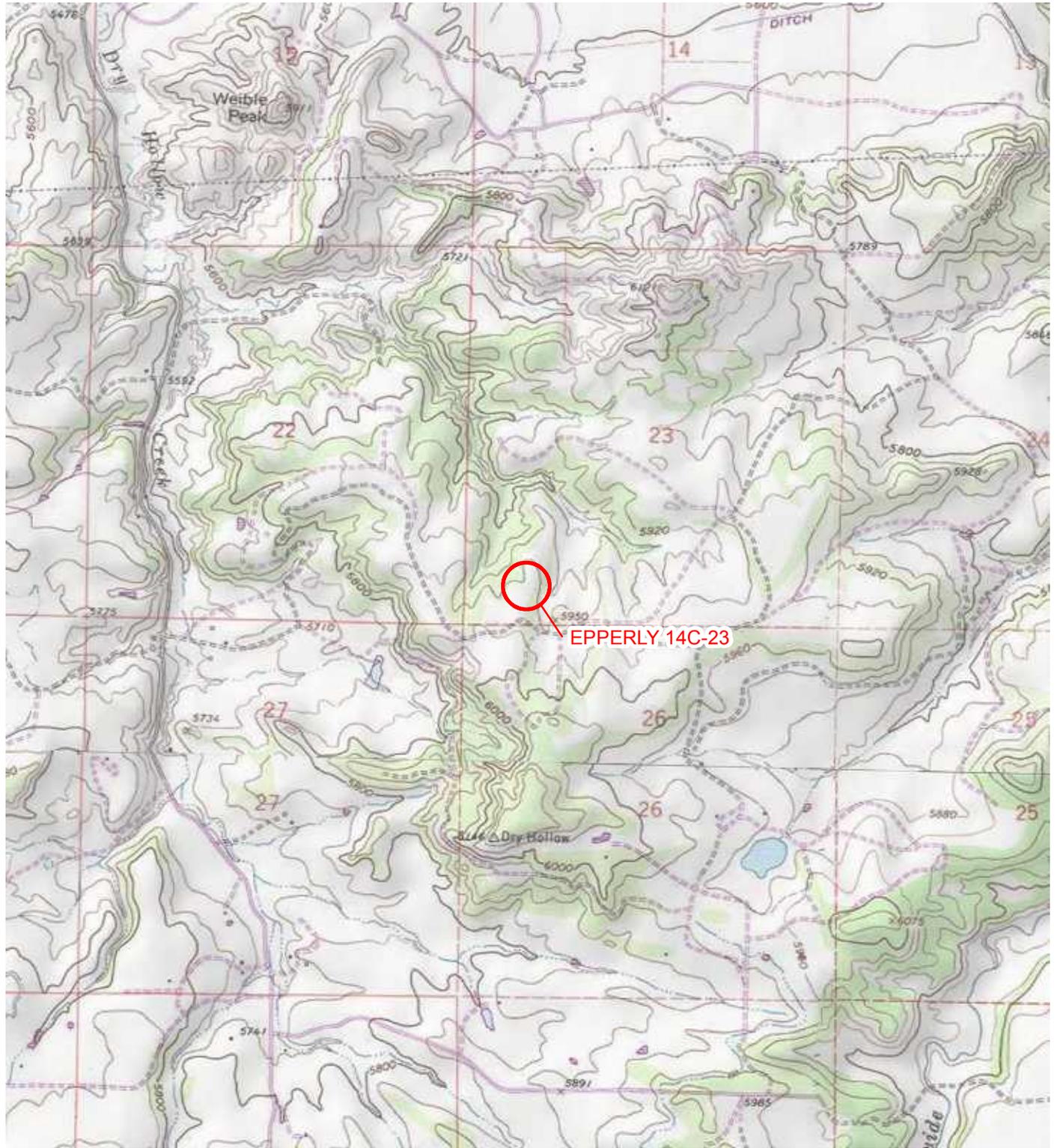


IMAGE COURTESY OF ESRI/USGS

LEGEND

 SITE LOCATION

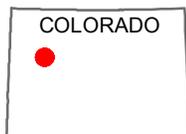
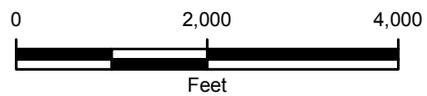


FIGURE 1
SITE LOCATION MAP
EPPERLY 14C-23
GARFIELD COUNTY, COLORADO
BILL BARRETT CORPORATION



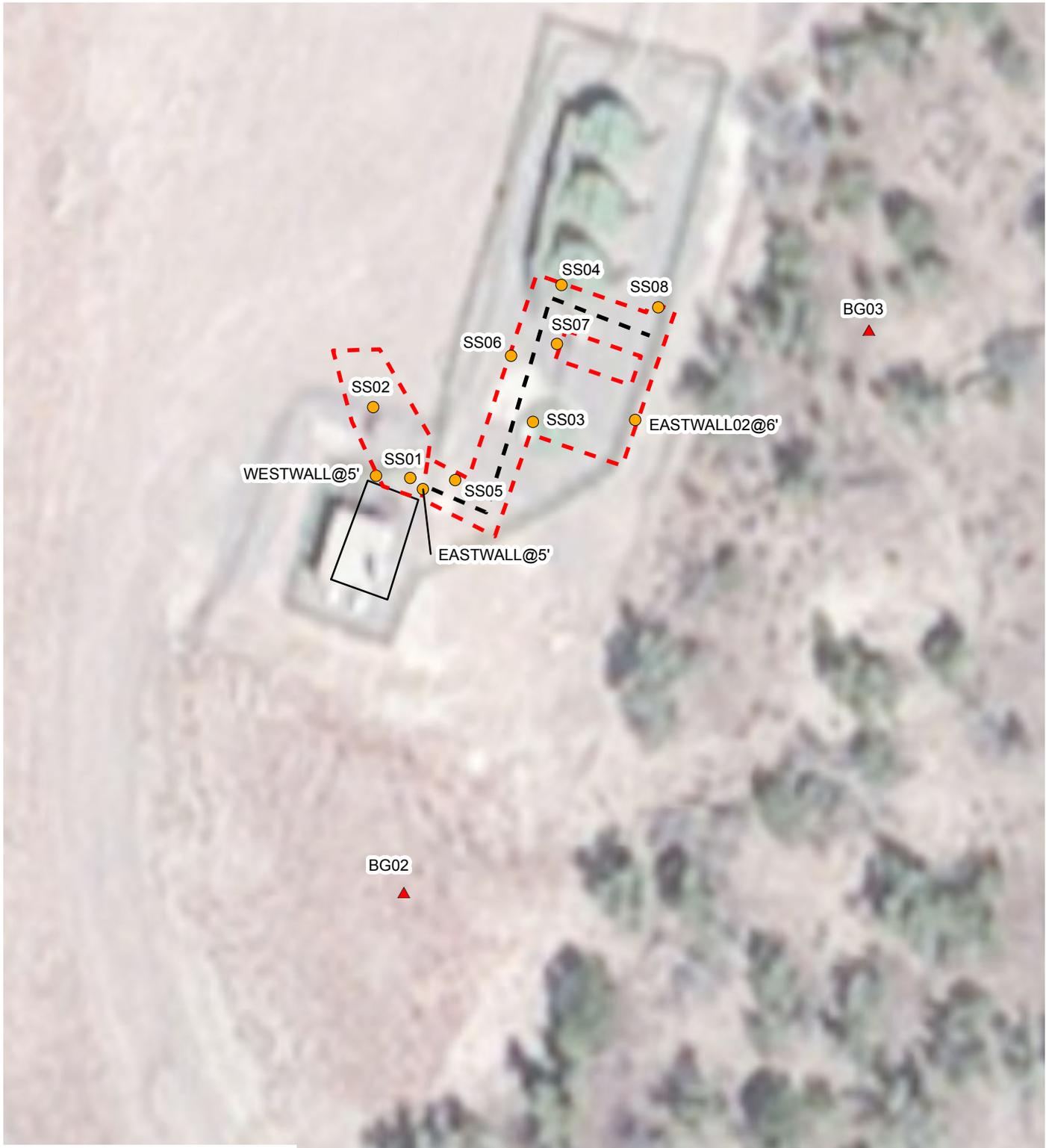


IMAGE COURTESY OF ESRI

LEGEND

- SOIL SAMPLE
- ▲ BACKGROUND SOIL SAMPLE
- - - EXCAVATION TRENCH
- - - EXCAVATION EXTENT
- ▭ SEPARATOR

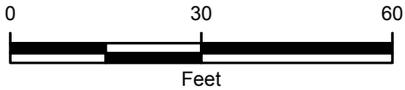


FIGURE 2
SITE MAP
EPPERLY 14C-23
GARFIELD COUNTY, COLORADO
BILL BARRETT CORPORATION



TABLE 1
SOIL ANALYTICAL RESULTS
EPPERLY 14C-23
GARFIELD COUNTY, COLORADO
BILL BARRETT CORPORATION

Parameter	Standard	BG01	BG02	BG03	BG04
Depth (feet)					
Sample Date		7/8/2014	7/8/2014	7/8/2014	7/8/2014

Inorganics

Electrical Conductivity (mmhos/cm)	4	0.459	0.106	0.695	0.370
SAR (meq/meq)	12	0.320	0.120	0.120	0.600
pH, Lab (Standard Units)	6 to 9	8.47	7.61	8.17	8.23

Metals

Arsenic (mg/kg)	0.39	6.27	3.08	10.1	4.19
Barium (mg/kg)	15000				
Cadmium (mg/kg)	70				
Chromium+3 Calculated (mg/kg)	120000				
Chromium, Hexavalent (mg/kg)	23				
Copper (mg/kg)	3100				
Lead (mg/kg)	400				
Mercury (mg/kg)	23				
Nickel (mg/kg)	1600				
Selenium (mg/kg)	390				
Silver (mg/kg)	390				
Zinc (mg/kg)	23000				

Organic Compounds

TPH-DRO (mg/kg)	
TPH-GRO (mg/kg)	
TPH-Total (mg/kg)	500
Benzene (mg/kg)	0.17
Toluene (mg/kg)	85
Ethylbenzene (mg/kg)	100
Xylenes, Total (mg/kg)	175
Acenaphthene (mg/kg)	1000
Anthracene (mg/kg)	1000
Benzo (a) anthracene (mg/kg)	0.22
Benzo (b) fluoranthene (mg/kg)	0.22
Benzo (k) fluoranthene (mg/kg)	2.2
Benzo (a) pyrene (mg/kg)	0.022
Chrysene (mg/kg)	22
Dibenz (a,h) anthracene (mg/kg)	0.022
Fluoranthene (mg/kg)	1000
Fluorene (mg/kg)	1000
Indeno (1,2,3-cd) pyrene (mg/kg)	0.22
Naphthalene (mg/kg)	23
Pyrene (mg/kg)	1000

Notes:

< - less than stated laboratory reporting limit
Bold indicates result is equal to or exceeds the applicable standard
 Basic Standards for Soil are from 2 CCR 404-1, Table 910-1, effective April 2009
 GRO - Gasoline range organics
 TPH-Total - sum of TPH-GRO and TPH-DRO

mg/kg - milligrams per kilogram
 mmhos/cm - millimhos per centimeter
 TPH - Total petroleum hydrocarbons (C6-C28)
 DRO - Diesel range organics
 SAR - Sodium adsorption ratio



TABLE 1 (Continued)
SOIL ANALYTICAL RESULTS
EPPERLY 14C-23
GARFIELD COUNTY, COLORADO
BILL BARRETT CORPORATION

Parameter	Standard	CS04	CS05	East Wall	EastWall02
Depth (feet)				5.0	6.0
Sample Date		7/29/2014	7/29/2014	7/14/2014	7/24/2014

Inorganics

Electrical Conductivity (mmhos/cm)	4	3.8	6.6	1.45	2.47
SAR (meq/meq)	12	2.9	3.4	4.59	2.70
pH, Lab (Standard Units)	6 to 9	8.8	8.6	8.51	8.45

Metals

Arsenic (mg/kg)	0.39			5.16	10.7
Barium (mg/kg)	15000			549	227
Cadmium (mg/kg)	70			0.323	0.879
Chromium+3 Calculated (mg/kg)	120000			8.68	7.60
Chromium, Hexavalent (mg/kg)	23			<1.23	<1.02
Copper (mg/kg)	3100			6.96	8.50
Lead (mg/kg)	400			15.2	20.3
Mercury (mg/kg)	23			<0.0616	0.141
Nickel (mg/kg)	1600			13.1	16.3
Selenium (mg/kg)	390			0.105	0.456
Silver (mg/kg)	390			<0.123	<0.113
Zinc (mg/kg)	23000			45.7	34.8

Organic Compounds

TPH-DRO (mg/kg)		370	210	1300	98
TPH-GRO (mg/kg)		<2.8	<2.7	3800	<0.45
TPH-Total (mg/kg)	500	370	210	5100	98
Benzene (mg/kg)	0.17	<0.033	<0.033	0.91	<0.0018
Toluene (mg/kg)	85	<0.033	<0.033	0.18	<0.0045
Ethylbenzene (mg/kg)	100	<0.033	<0.033	2.3	<0.0045
Xylenes, Total (mg/kg)	175	<0.1	<0.099	45	<0.0045
Acenaphthene (mg/kg)	1000	<0.015	<0.0072	<0.00500	<0.00500
Anthracene (mg/kg)	1000	<0.015	0.012	<0.00500	<0.00500
Benzo (a) anthracene (mg/kg)	0.22	<0.015	0.013	<0.00500	<0.00500
Benzo (b) fluoranthene (mg/kg)	0.22	<0.015	<0.0072	0.0292	<0.00500
Benzo (k) fluoranthene (mg/kg)	2.2	<0.015	<0.0072	0.0142	<0.00500
Benzo (a) pyrene (mg/kg)	0.022	<0.015	<0.0072	0.0206	<0.00500
Chrysene (mg/kg)	22	<0.015	<0.0072	0.0748	<0.00500
Dibenz (a,h) anthracene (mg/kg)	0.022	<0.015	<0.0072	<0.00500	<0.00500
Fluoranthene (mg/kg)	1000	<0.015	<0.0072	<0.00500	<0.00500
Fluorene (mg/kg)	1000	<0.015	<0.0072	0.157	<0.00500
Indeno (1,2,3-cd) pyrene (mg/kg)	0.22	<0.015	<0.0072	<0.00500	<0.00500
Naphthalene (mg/kg)	23	<0.015	<0.0072	1.05	<0.00500
Pyrene (mg/kg)	1000	<0.015	0.01	0.0682	<0.00500

Notes:

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 Basic Standards for Soil are from 2 CCR 404-1, Table 910-1, effective April 2009
 GRO - Gasoline range organics
 TPH-Total - sum of TPH-GRO and TPH-DRO

mg/kg - milligrams per kilogram
 mmhos/cm - millimhos per centimeter
 TPH - Total petroleum hydrocarbons (C6-C28)
 DRO - Diesel range organics
 SAR - Sodium adsorption ratio



TABLE 1 (Continued)
SOIL ANALYTICAL RESULTS
EPPERLY 14C-23
GARFIELD COUNTY, COLORADO
BILL BARRETT CORPORATION

Parameter	Standard	SS01	SS02	SS03	SS04
Depth (feet)		6.0	6.0	6.0	6.0
Sample Date		7/8/2014	7/8/2014	7/21/2014	7/21/2014

Inorganics

Electrical Conductivity (mmhos/cm)	4	1.86	0.463	0.710	0.675
SAR (meq/meq)	12	2.80	1.68	2.28	1.73
pH, Lab (Standard Units)	6 to 9	8.06	8.28	8.79	8.50

Metals

Arsenic (mg/kg)	0.39	5.46	6.07	8.01	11.5
Barium (mg/kg)	15000	681	324	829	324
Cadmium (mg/kg)	70	0.253	0.353	0.335	0.279
Chromium+3 Calculated (mg/kg)	120000	12.2	9.11	6.66	5.23
Chromium, Hexavalent (mg/kg)	23	<1.26	<0.988	<1.13	<1.02
Copper (mg/kg)	3100	9.84	7.03	9.36	7.16
Lead (mg/kg)	400	13.6	11.4	13.6	13.1
Mercury (mg/kg)	23	0.0244	0.172	0.0690	0.0695
Nickel (mg/kg)	1600	14.7	10.7	10.5	7.71
Selenium (mg/kg)	390	0.290	0.142	0.393	0.309
Silver (mg/kg)	390	<0.126	<0.106	<0.113	<0.102
Zinc (mg/kg)	23000	31.9	25.5	26.6	22.3

Organic Compounds

TPH-DRO (mg/kg)		640	150	1300	410
TPH-GRO (mg/kg)		75	2.5	440	<0.50
TPH-Total (mg/kg)	500	715	152.5	1740	410
Benzene (mg/kg)	0.17	1.1	<0.0020	0.35	<0.0020
Toluene (mg/kg)	85	0.14	<0.0050	0.81	<0.0050
Ethylbenzene (mg/kg)	100	2.8	<0.0050	0.27	<0.0050
Xylenes, Total (mg/kg)	175	46	<0.0050	13	<0.0050
Acenaphthene (mg/kg)	1000	<0.00500	<0.00500	<0.00500	<0.00500
Anthracene (mg/kg)	1000	<0.00500	<0.00500	<0.00500	<0.00500
Benzo (a) anthracene (mg/kg)	0.22	<0.00500	<0.00500	<0.00500	<0.00500
Benzo (b) fluoranthene (mg/kg)	0.22	0.0266	<0.00500	<0.00500	<0.00500
Benzo (k) fluoranthene (mg/kg)	2.2	0.0201	<0.00500	<0.00500	<0.00500
Benzo (a) pyrene (mg/kg)	0.022	0.0255	<0.00500	0.0163	<0.00500
Chrysene (mg/kg)	22	0.0495	0.00832	0.0353	<0.00500
Dibenz (a,h) anthracene (mg/kg)	0.022	<0.00500	<0.00500	<0.00500	<0.00500
Fluoranthene (mg/kg)	1000	<0.00500	<0.00500	<0.00500	<0.00500
Fluorene (mg/kg)	1000	0.972	<0.00500	0.165	<0.00500
Indeno (1,2,3-cd) pyrene (mg/kg)	0.22	<0.00500	<0.00500	<0.00500	<0.00500
Naphthalene (mg/kg)	23	2.15	<0.00500	0.465	<0.00500
Pyrene (mg/kg)	1000	0.0436	<0.00500	0.0325	<0.00500

Notes:

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Basic Standards for Soil are from 2 CCR 404-1, Table 910-1, effective April 2009
GRO - Gasoline range organics
TPH-Total - sum of TPH-GRO and TPH-DRO

mg/kg - milligrams per kilogram
mmhos/cm - millimhos per centimeter
TPH - Total petroleum hydrocarbons (C6-C28)
DRO - Diesel range organics
SAR - Sodium adsorption ratio



TABLE 1 (Continued)
SOIL ANALYTICAL RESULTS
EPPERLY 14C-23
GARFIELD COUNTY, COLORADO
BILL BARRETT CORPORATION

Parameter	Standard	SS05	SS06	SS07	SS08
Depth (feet)		6.0	6.0	6.0	6.0
Sample Date		7/21/2014	7/21/2014	7/21/2014	7/21/2014

Inorganics

Electrical Conductivity (mmhos/cm)	4	1.96	0.804	0.687	0.509
SAR (meq/meq)	12	2.76	2.46	1.80	1.16
pH, Lab (Standard Units)	6 to 9	8.38	8.82	8.89	9.08

Metals

Arsenic (mg/kg)	0.39	12.4	9.51	7.01	6.44
Barium (mg/kg)	15000	580	453	594	232
Cadmium (mg/kg)	70	0.353	0.323	0.263	0.262
Chromium+3 Calculated (mg/kg)	120000	5.28	5.60	6.41	5.52
Chromium, Hexavalent (mg/kg)	23	<1.03	<1.01	<1.02	<1.09
Copper (mg/kg)	3100	8.27	7.41	7.50	8.50
Lead (mg/kg)	400	14.5	12.7	11.7	10.5
Mercury (mg/kg)	23	0.110	0.0876	0.0705	0.0772
Nickel (mg/kg)	1600	9.17	12.6	8.96	9.06
Selenium (mg/kg)	390	0.245	0.301	0.250	0.320
Silver (mg/kg)	390	<0.103	<0.101	<0.102	<0.109
Zinc (mg/kg)	23000	23.7	22.4	22.3	24.7

Organic Compounds

TPH-DRO (mg/kg)		110	180	110	<50
TPH-GRO (mg/kg)		<0.45	0.69	<0.50	<0.50
TPH-Total (mg/kg)	500	110	180.69	110	<50.5
Benzene (mg/kg)	0.17	<0.0018	<0.0020	<0.0020	<0.0020
Toluene (mg/kg)	85	<0.0045	<0.0050	<0.0050	<0.0050
Ethylbenzene (mg/kg)	100	<0.0045	<0.0050	<0.0050	<0.0050
Xylenes, Total (mg/kg)	175	<0.0045	0.050	<0.0050	<0.0050
Acenaphthene (mg/kg)	1000	<0.00500	<0.00500	<0.00500	<0.00500
Anthracene (mg/kg)	1000	<0.00500	<0.00500	<0.00500	<0.00500
Benzo (a) anthracene (mg/kg)	0.22	<0.00500	<0.00500	<0.00500	<0.00500
Benzo (b) fluoranthene (mg/kg)	0.22	<0.00500	<0.00500	<0.00500	<0.00500
Benzo (k) fluoranthene (mg/kg)	2.2	<0.00500	<0.00500	<0.00500	<0.00500
Benzo (a) pyrene (mg/kg)	0.022	<0.00500	<0.00500	<0.00500	<0.00500
Chrysene (mg/kg)	22	<0.00500	<0.00500	<0.00500	<0.00500
Dibenz (a,h) anthracene (mg/kg)	0.022	<0.00500	<0.00500	<0.00500	<0.00500
Fluoranthene (mg/kg)	1000	<0.00500	<0.00500	<0.00500	<0.00500
Fluorene (mg/kg)	1000	<0.00500	0.0127	<0.00500	<0.00500
Indeno (1,2,3-cd) pyrene (mg/kg)	0.22	<0.00500	<0.00500	<0.00500	<0.00500
Naphthalene (mg/kg)	23	<0.00500	<0.00500	<0.00500	<0.00500
Pyrene (mg/kg)	1000	<0.00500	<0.00500	<0.00500	<0.00500

Notes:

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 GRO - Gasoline range organics
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 TPH - Total petroleum hydrocarbons (C6-C28)
 DRO - Diesel range organics
 SAR - Sodium adsorption ratio



TABLE 1 (Continued)
SOIL ANALYTICAL RESULTS
EPPERLY 14C-23
GARFIELD COUNTY, COLORADO
BILL BARRETT CORPORATION

Parameter	Standard	West Wall
Depth (feet)		5.0
Sample Date		7/14/2014

Inorganics

Electrical Conductivity (mmhos/cm)	4	0.858
SAR (meq/meq)	12	1.69
pH, Lab (Standard Units)	6 to 9	8.58

Metals

Arsenic (mg/kg)	0.39	4.96
Barium (mg/kg)	15000	355
Cadmium (mg/kg)	70	0.274
Chromium+3 Calculated (mg/kg)	120000	8.51
Chromium, Hexavalent (mg/kg)	23	<1.26
Copper (mg/kg)	3100	6.11
Lead (mg/kg)	400	14.5
Mercury (mg/kg)	23	<0.0556
Nickel (mg/kg)	1600	13.2
Selenium (mg/kg)	390	<0.0632
Silver (mg/kg)	390	<0.126
Zinc (mg/kg)	23000	44.2

Organic Compounds

TPH-DRO (mg/kg)		63
TPH-GRO (mg/kg)		12
TPH-Total (mg/kg)	500	75
Benzene (mg/kg)	0.17	0.0044
Toluene (mg/kg)	85	<0.0050
Ethylbenzene (mg/kg)	100	<0.0050
Xylenes, Total (mg/kg)	175	0.086
Acenaphthene (mg/kg)	1000	<0.00500
Anthracene (mg/kg)	1000	<0.00500
Benzo (a) anthracene (mg/kg)	0.22	<0.00500
Benzo (b) fluoranthene (mg/kg)	0.22	<0.00500
Benzo (k) fluoranthene (mg/kg)	2.2	<0.00500
Benzo (a) pyrene (mg/kg)	0.022	<0.00500
Chrysene (mg/kg)	22	<0.00500
Dibenz (a,h) anthracene (mg/kg)	0.022	<0.00500
Fluoranthene (mg/kg)	1000	<0.00500
Fluorene (mg/kg)	1000	0.0176
Indeno (1,2,3-cd) pyrene (mg/kg)	0.22	<0.00500
Naphthalene (mg/kg)	23	0.0164
Pyrene (mg/kg)	1000	<0.00500

Notes:

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 DRO - Diesel range organics
 SAR - Sodium adsorption ratio



Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

July 11, 2014

Jake Janicek

LT Environmental, Inc.

4600 West 60th Avenue

Arvada, CO 80003

RE: BBC - Epperly 14C-23

Enclosed are the results of analyses for samples received by Summit Scientific on 07/09/14 10:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to be 'BS', with a long, sweeping horizontal line extending to the right.

Ben Shrewsbury

President / Laboratory Manager



LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: BBC - Epperly 14C-23

Project Number: 0273-14020
Project Manager: Jake Janicek

Reported:
07/11/14 17:55

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS01	1407045-01	Soil	07/08/14 11:20	07/09/14 10:00
SS02	1407045-02	Soil	07/08/14 11:30	07/09/14 10:00
CS01	1407045-03	Soil	07/08/14 11:45	07/09/14 10:00
CS02	1407045-04	Soil	07/08/14 11:55	07/09/14 10:00
BG01	1407045-05	Soil	07/08/14 12:00	07/09/14 10:00
BG02	1407045-06	Soil	07/08/14 12:05	07/09/14 10:00
BG03	1407045-07	Soil	07/08/14 12:10	07/09/14 10:00
BG04	1407045-08	Soil	07/08/14 12:15	07/09/14 10:00

Summit Scientific

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: BBC - Epperly 14C-23

Project Number: 0273-14020
Project Manager: Jake Janicek

Reported:
07/11/14 17:55

1407045

Summit Scientific

741 Corporate Circle Suite 1 • Golden, Colorado 80401
303-277-9910 • 303-374-5933 Fax

Client: LT Environmental Inc. Project Manager: Jake Janicek
Address: 820 Megan Ave Unit B City/State/Zip: Rifle, CO 81650
Phone: 970-285-5995 Fax: 970-285-2467
Sampler Name: Ryan Zernis Project Number: 0273-14020

Page 1 of 1

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative				Matrix				Analyze For				Special Instructions	
				HCl	HNO ₃	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)	As, EC, pH, SAR	Table 910 Metals	TPH - GRO/DRO	BTEX		
SS01	7/8/2014	1120	4	X				X					X	X	X	X	
SS02	7/8/2014	1130	4	X				X					X	X	X	X	
CS01	7/8/2014	1145	3	X				X					X	X	X	X	
CS02	7/8/2014	1155	4	X				X					X	X	X	X	
BC01	7/8/2014	1200	1	X				X					X				HOLD: BC01, BC02, BC03, BC04 for EC, pH, SAR
BC02	7/8/2014	1205	1	X				X					X				
BC03	7/8/2014	1210	1	X				X					X				
BC04	7/8/2014	1215	1	X				X					X				

Retransmitted by: [Signature] Date/Time: 7/8/2014 14:50
 Date/Time: 7/8/2014 14:50
 Retransmitted by: [Signature] Date/Time: 7/11/14 17:55
 Date/Time: 7/11/14 17:55

Notes: Turn Around Time (Check) Same Day 72 Hours Standard 24 Hours 48 Hours
 Sample Integrity: Temperature Upon Receipt Intact: Yes [X] No []
 5.1

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: BBC - Epperly 14C-23

Project Number: 0273-14020
Project Manager: Jake Janicek

Reported:
07/11/14 17:55

SS01
1407045-01 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/08/14 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	640	50	mg/kg	1	1407070	07/09/14	07/09/14	8015M	

Date Sampled: **07/08/14 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: o-Terphenyl</i>		105 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/08/14 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	1.1	0.020	mg/kg	10	1407071	07/09/14	07/09/14	EPA 8260B	
Toluene	0.14	0.050	"	"	"	"	"	"	
Ethylbenzene	2.8	0.050	"	"	"	"	"	"	
Xylenes (total)	46	1.0	"	200	"	"	"	"	
Gasoline Range Hydrocarbons	75	5.0	"	10	"	"	"	"	

Date Sampled: **07/08/14 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		107 %	23-173		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		105 %	20-170		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		105 %	21-167		"	"	"	"	

Semivolatile Organic Compounds by EPA Method 8270D SIM

Date Sampled: **07/08/14 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	1407083	07/10/14	07/10/14	EPA 8270D SIM	
Acenaphthylene	ND	0.00500	"	"	"	"	"	"	

Summit Scientific

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: BBC - Epperly 14C-23

Project Number: 0273-14020
Project Manager: Jake Janicek

Reported:
07/11/14 17:55

SS01

1407045-01 (Soil)

Summit Scientific

Semivolatile Organic Compounds by EPA Method 8270D SIM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anthracene	ND	0.00500	mg/kg	1	1407083	07/10/14	07/10/14	EPA 8270D SIM	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	"
Benzo (b) fluoranthene	0.0266	0.00500	"	"	"	"	"	"	"
Benzo (k) fluoranthene	0.0201	0.00500	"	"	"	"	"	"	"
Benzo (g,h,i) perylene	ND	0.00500	"	"	"	"	"	"	"
Benzo (a) pyrene	0.0255	0.00500	"	"	"	"	"	"	"
Chrysene	0.0495	0.00500	"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	"
Fluoranthene	ND	0.00500	"	"	"	"	"	"	"
Fluorene	0.972	0.0500	"	10	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	1	"	"	"	"	"
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	"
Naphthalene	2.15	0.0500	"	10	"	"	"	"	"
Phenanthrene	1.04	0.0500	"	"	"	"	"	"	"
Pyrene	0.0436	0.00500	"	1	"	"	"	"	"

Date Sampled: 07/08/14 11:20

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		116 %	50-150		"	"	"	"	
Surrogate: Fluoranthene-d10		186 %	50-150		"	"	"	"	S-02

Total Metals by EPA Method 6020 - Dry Weight Basis

Date Sampled: 07/08/14 11:20

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	5.46	0.126	mg/kg dry	1	1407069	07/09/14	07/10/14	EPA 6020A	
Barium	681	1.26	"	"	"	"	"	"	
Cadmium	0.253	0.126	"	"	"	"	"	"	
Chromium	13.5	0.632	"	"	"	"	"	"	
Copper	9.84	1.26	"	"	"	"	"	"	
Lead	13.6	0.126	"	"	"	"	"	"	
Nickel	14.7	0.632	"	"	"	"	"	"	
Selenium	0.290	0.0632	"	"	"	"	"	"	
Silver	ND	0.126	"	"	"	"	"	"	
Zinc	31.9	12.6	"	"	"	"	"	"	

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: BBC - Epperly 14C-23

Project Number: 0273-14020
Project Manager: Jake Janicek

Reported:
07/11/14 17:55

SS01

1407045-01 (Soil)

Summit Scientific

Total Metals by EPA Method 6020 - Dry Weight Basis

Total Mercury by EPA Method 7471/7470/245.1

Date Sampled: **07/08/14 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Mercury	0.0244	0.0150	mg/kg dry	1	1407076	07/09/14	07/10/14	EPA 7471	

Hexavalent Chromium by EPA 7196

Date Sampled: **07/08/14 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	1.26	mg/kg dry	1	1407079	07/10/14	07/11/14	EPA 7196	

Calculated Analytes

Date Sampled: **07/08/14 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium+3 Calculated	12.2	1.00	mg/kg	1	1407097	07/11/14	07/11/14	Calculation	

Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **07/08/14 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	1690	12.6	mg/kg dry	1	1407091	07/11/14	07/11/14	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	962	6.32	"	"	"	"	"	"	
Sodium	859	6.32	"	"	"	"	"	"	

Date Sampled: **07/08/14 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.80		units	"	1407089	07/10/14	07/11/14	"	

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LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO, 80003

Project: BBC - Epperly 14C-23

Project Number: 0273-14020
 Project Manager: Jake Janicek

Reported:
 07/11/14 17:55

SS01

1407045-01 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/08/14 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.86	0.0100	mmhos/cm	1	1407068	07/09/14	07/09/14	SM 2510B	

Date Sampled: **07/08/14 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.06	0.100	pH Units	"	1407072	07/09/14	07/09/14	EPA 9045	

Date Sampled: **07/08/14 11:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	79.1		%	"	1407077	07/09/14	07/10/14	% calculation	

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: BBC - Epperly 14C-23

Project Number: 0273-14020
Project Manager: Jake Janicek

Reported:
07/11/14 17:55

SS02

1407045-02 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/08/14 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	150	50	mg/kg	1	1407070	07/09/14	07/09/14	8015M	

Date Sampled: **07/08/14 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: o-Terphenyl</i>		109 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/08/14 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1407071	07/09/14	07/09/14	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	2.5	0.50	"	"	"	"	"	"	

Date Sampled: **07/08/14 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		111 %	23-173		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		105 %	20-170		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		103 %	21-167		"	"	"	"	

Semivolatile Organic Compounds by EPA Method 8270D SIM

Date Sampled: **07/08/14 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	1407083	07/10/14	07/10/14	EPA 8270D SIM	
Acenaphthylene	ND	0.00500	"	"	"	"	"	"	

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: BBC - Epperly 14C-23

Project Number: 0273-14020
Project Manager: Jake Janicek

Reported:
07/11/14 17:55

SS02

1407045-02 (Soil)

Summit Scientific

Semivolatile Organic Compounds by EPA Method 8270D SIM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anthracene	ND	0.00500	mg/kg	1	1407083	07/10/14	07/10/14	EPA 8270D SIM	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Chrysene	0.00832	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
Naphthalene	ND	0.00500	"	"	"	"	"	"	
Phenanthrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **07/08/14 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		79.2 %	50-150		"	"	"	"	
Surrogate: Fluoranthene-d10		70.9 %	50-150		"	"	"	"	

Total Metals by EPA Method 6020 - Dry Weight Basis

Date Sampled: **07/08/14 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	6.07	0.106	mg/kg dry	1	1407069	07/09/14	07/10/14	EPA 6020A	
Barium	324	1.06	"	"	"	"	"	"	
Cadmium	0.353	0.106	"	"	"	"	"	"	
Chromium	10.1	0.531	"	"	"	"	"	"	
Copper	7.03	1.06	"	"	"	"	"	"	
Lead	11.4	0.106	"	"	"	"	"	"	
Nickel	10.7	0.531	"	"	"	"	"	"	
Selenium	0.142	0.0531	"	"	"	"	"	"	
Silver	ND	0.106	"	"	"	"	"	"	

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: BBC - Epperly 14C-23

Project Number: 0273-14020
Project Manager: Jake Janicek

Reported:
07/11/14 17:55

SS02

1407045-02 (Soil)

Summit Scientific

Total Metals by EPA Method 6020 - Dry Weight Basis

Zinc	25.5	10.6 mg/kg dry	1	1407069	07/09/14	07/10/14	EPA 6020A
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Total Mercury by EPA Method 7471/7470/245.1

Date Sampled: **07/08/14 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Mercury	0.172	0.0147	mg/kg dry	1	1407076	07/09/14	07/10/14	EPA 7471	

Hexavalent Chromium by EPA 7196

Date Sampled: **07/08/14 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.988	mg/kg dry	1	1407079	07/10/14	07/11/14	EPA 7196	

Calculated Analytes

Date Sampled: **07/08/14 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium+3 Calculated	9.11	1.00	mg/kg	1	1407097	07/11/14	07/11/14	Calculation	

Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **07/08/14 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	1840	11.8	mg/kg dry	1	1407091	07/11/14	07/11/14	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	774	5.88	"	"	"	"	"	"	
Sodium	94.2	5.88	"	"	"	"	"	"	

Date Sampled: **07/08/14 11:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: BBC - Epperly 14C-23

Project Number: 0273-14020
Project Manager: Jake Janicek

Reported:
07/11/14 17:55

SS02

1407045-02 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis

Sodium Adsorption Ratio	1.68	units	1	1407089	07/10/14	07/11/14	EPA 6020/Mod. USDA60 6(2, 3A)
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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/08/14 11:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	0.463	0.0100	mmhos/cm	1	1407068	07/09/14	07/09/14	SM 2510B	

Date Sampled: **07/08/14 11:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	8.28	0.100	pH Units	"	1407072	07/09/14	07/09/14	EPA 9045	

Date Sampled: **07/08/14 11:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	85.0		%	"	1407077	07/09/14	07/10/14	% calculation	

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: BBC - Epperly 14C-23

Project Number: 0273-14020
Project Manager: Jake Janicek

Reported:
07/11/14 17:55

CS01

1407045-03 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/08/14 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1407070	07/09/14	07/09/14	8015M	

Date Sampled: **07/08/14 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		106 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/08/14 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1407071	07/09/14	07/09/14	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **07/08/14 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane- <i>d</i> 4		112 %	23-173		"	"	"	"	
Surrogate: Toluene- <i>d</i> 8		103 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	21-167		"	"	"	"	

Semivolatile Organic Compounds by EPA Method 8270D SIM

Date Sampled: **07/08/14 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	1407083	07/10/14	07/10/14	EPA 8270D SIM	
Acenaphthylene	ND	0.00500	"	"	"	"	"	"	

Summit Scientific

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: BBC - Epperly 14C-23

Project Number: 0273-14020
Project Manager: Jake Janicek

Reported:
07/11/14 17:55

CS01

1407045-03 (Soil)

Summit Scientific

Semivolatile Organic Compounds by EPA Method 8270D SIM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anthracene	ND	0.00500	mg/kg	1	1407083	07/10/14	07/10/14	EPA 8270D SIM	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	"
Benzo (g,h,i) perylene	ND	0.00500	"	"	"	"	"	"	"
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	"
Chrysene	ND	0.00500	"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	"
Fluoranthene	ND	0.00500	"	"	"	"	"	"	"
Fluorene	ND	0.00500	"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	"
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	"
Naphthalene	ND	0.00500	"	"	"	"	"	"	"
Phenanthrene	ND	0.00500	"	"	"	"	"	"	"
Pyrene	ND	0.00500	"	"	"	"	"	"	"

Date Sampled: 07/08/14 11:45

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		83.9 %	50-150		"	"	"	"	
Surrogate: Fluoranthene-d10		77.3 %	50-150		"	"	"	"	

Total Metals by EPA Method 6020 - Dry Weight Basis

Date Sampled: 07/08/14 11:45

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	7.16	0.0867	mg/kg dry	1	1407069	07/09/14	07/10/14	EPA 6020A	
Barium	326	0.867	"	"	"	"	"	"	
Cadmium	0.317	0.0867	"	"	"	"	"	"	
Chromium	6.82	0.434	"	"	"	"	"	"	
Copper	9.08	0.867	"	"	"	"	"	"	
Lead	10.5	0.0867	"	"	"	"	"	"	
Nickel	9.63	0.434	"	"	"	"	"	"	
Selenium	0.280	0.0434	"	"	"	"	"	"	
Silver	ND	0.0867	"	"	"	"	"	"	

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: BBC - Epperly 14C-23

Project Number: 0273-14020
Project Manager: Jake Janicek

Reported:
07/11/14 17:55

CS01
1407045-03 (Soil)

Summit Scientific

Total Metals by EPA Method 6020 - Dry Weight Basis

Zinc	28.7	8.67 mg/kg dry	1	1407069	07/09/14	07/10/14	EPA 6020A
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Total Mercury by EPA Method 7471/7470/245.1

Date Sampled: **07/08/14 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Mercury	0.0915	0.0129	mg/kg dry	1	1407076	07/09/14	07/10/14	EPA 7471	

Hexavalent Chromium by EPA 7196

Date Sampled: **07/08/14 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.937	mg/kg dry	1	1407079	07/10/14	07/11/14	EPA 7196	

Calculated Analytes

Date Sampled: **07/08/14 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium+3 Calculated	5.88	1.00	mg/kg	1	1407097	07/11/14	07/11/14	Calculation	

Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **07/08/14 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	1090	10.8	mg/kg dry	1	1407091	07/11/14	07/11/14	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	284	5.40	"	"	"	"	"	"	
Sodium	402	5.40	"	"	"	"	"	"	

Date Sampled: **07/08/14 11:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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LT Environmental, Inc.
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Project: BBC - Epperly 14C-23

Project Number: 0273-14020
Project Manager: Jake Janicek

Reported:
07/11/14 17:55

CS01

1407045-03 (Soil)

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Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis

Sodium Adsorption Ratio	4.13	units	1	1407089	07/10/14	07/11/14	EPA 6020/Mod. USDA60 6(2, 3A)
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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/08/14 11:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	3.77	0.0100	mmhos/cm	1	1407068	07/09/14	07/09/14	SM 2510B	

Date Sampled: **07/08/14 11:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	8.31	0.100	pH Units	"	1407072	07/09/14	07/09/14	EPA 9045	

Date Sampled: **07/08/14 11:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	92.6		%	"	1407077	07/09/14	07/10/14	% calculation	

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Arvada CO, 80003

Project: BBC - Epperly 14C-23

Project Number: 0273-14020
Project Manager: Jake Janicek

Reported:
07/11/14 17:55

CS02
1407045-04 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/08/14 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	150	50	mg/kg	1	1407070	07/09/14	07/09/14	8015M	

Date Sampled: **07/08/14 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: o-Terphenyl</i>		111 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/08/14 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1407071	07/09/14	07/09/14	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	1.5	0.50	"	"	"	"	"	"	

Date Sampled: **07/08/14 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		110 %	23-173		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		99.8 %	20-170		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		101 %	21-167		"	"	"	"	

Semivolatile Organic Compounds by EPA Method 8270D SIM

Date Sampled: **07/08/14 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	1407083	07/10/14	07/10/14	EPA 8270D SIM	
Acenaphthylene	ND	0.00500	"	"	"	"	"	"	

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4600 West 60th Avenue
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Project: BBC - Epperly 14C-23

Project Number: 0273-14020
Project Manager: Jake Janicek

Reported:
07/11/14 17:55

CS02

1407045-04 (Soil)

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Semivolatile Organic Compounds by EPA Method 8270D SIM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anthracene	ND	0.00500	mg/kg	1	1407083	07/10/14	07/10/14	EPA 8270D SIM	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
Naphthalene	ND	0.00500	"	"	"	"	"	"	
Phenanthrene	0.00903	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: 07/08/14 11:55

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		83.4 %	50-150		"	"	"	"	
Surrogate: Fluoranthene-d10		76.1 %	50-150		"	"	"	"	

Total Metals by EPA Method 6020 - Dry Weight Basis

Date Sampled: 07/08/14 11:55

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	8.11	0.0894	mg/kg dry	1	1407069	07/09/14	07/10/14	EPA 6020A	
Barium	457	0.894	"	"	"	"	"	"	
Cadmium	0.223	0.0894	"	"	"	"	"	"	
Chromium	10.6	0.447	"	"	"	"	"	"	
Copper	7.46	0.894	"	"	"	"	"	"	
Lead	12.1	0.0894	"	"	"	"	"	"	
Nickel	12.1	0.447	"	"	"	"	"	"	
Selenium	0.270	0.0447	"	"	"	"	"	"	
Silver	ND	0.0894	"	"	"	"	"	"	

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: BBC - Epperly 14C-23

Project Number: 0273-14020
Project Manager: Jake Janicek

Reported:
07/11/14 17:55

CS02
1407045-04 (Soil)

Summit Scientific

Total Metals by EPA Method 6020 - Dry Weight Basis

Zinc	26.9	8.94 mg/kg dry	1	1407069	07/09/14	07/10/14	EPA 6020A
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Total Mercury by EPA Method 7471/7470/245.1

Date Sampled: **07/08/14 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Mercury	0.115	0.0134	mg/kg dry	1	1407076	07/09/14	07/10/14	EPA 7471	

Hexavalent Chromium by EPA 7196

Date Sampled: **07/08/14 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.940	mg/kg dry	1	1407079	07/10/14	07/11/14	EPA 7196	

Calculated Analytes

Date Sampled: **07/08/14 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium+3 Calculated	9.66	1.00	mg/kg	1	1407097	07/11/14	07/11/14	Calculation	

Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **07/08/14 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	1290	11.0	mg/kg dry	1	1407091	07/11/14	07/11/14	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	519	5.51	"	"	"	"	"	"	
Sodium	282	5.51	"	"	"	"	"	"	

Date Sampled: **07/08/14 11:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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LT Environmental, Inc.
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 Arvada CO, 80003

Project: BBC - Epperly 14C-23

Project Number: 0273-14020
 Project Manager: Jake Janicek

Reported:
 07/11/14 17:55

CS02

1407045-04 (Soil)

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Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis

Sodium Adsorption Ratio	0.460	units	1	1407089	07/10/14	07/11/14	EPA 6020/Mod. USDA60 6(2, 3A)
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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/08/14 11:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	1.22	0.0100	mmhos/cm	1	1407068	07/09/14	07/09/14	SM 2510B	

Date Sampled: **07/08/14 11:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	8.60	0.100	pH Units	"	1407072	07/09/14	07/09/14	EPA 9045	

Date Sampled: **07/08/14 11:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	90.7		%	"	1407077	07/09/14	07/10/14	% calculation	

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LT Environmental, Inc.
 4600 West 60th Avenue
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Project: BBC - Epperly 14C-23

Project Number: 0273-14020
 Project Manager: Jake Janicek

Reported:
 07/11/14 17:55

BG01
1407045-05 (Soil)

Summit Scientific

Total Metals by EPA Method 6020 - Dry Weight Basis

Date Sampled: **07/08/14 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	6.27	0.0862	mg/kg dry	1	1407069	07/09/14	07/10/14	EPA 6020A	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/08/14 12:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.4		%	1	1407077	07/09/14	07/10/14	% calculation	

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LT Environmental, Inc.
 4600 West 60th Avenue
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Project: BBC - Epperly 14C-23

Project Number: 0273-14020
 Project Manager: Jake Janicek

Reported:
 07/11/14 17:55

BG02
1407045-06 (Soil)

Summit Scientific

Total Metals by EPA Method 6020 - Dry Weight Basis

Date Sampled: **07/08/14 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	3.08	0.0770	mg/kg dry	1	1407069	07/09/14	07/10/14	EPA 6020A	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/08/14 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	97.3		%	1	1407077	07/09/14	07/10/14	% calculation	

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Project: BBC - Epperly 14C-23

Project Number: 0273-14020
 Project Manager: Jake Janicek

Reported:
 07/11/14 17:55

BG03
1407045-07 (Soil)

Summit Scientific

Total Metals by EPA Method 6020 - Dry Weight Basis

Date Sampled: **07/08/14 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	10.1	0.0831	mg/kg dry	1	1407069	07/09/14	07/10/14	EPA 6020A	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/08/14 12:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	96.8		%	1	1407077	07/09/14	07/10/14	% calculation	

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 4600 West 60th Avenue
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Project: BBC - Epperly 14C-23

Project Number: 0273-14020
 Project Manager: Jake Janicek

Reported:
 07/11/14 17:55

BG04
1407045-08 (Soil)

Summit Scientific

Total Metals by EPA Method 6020 - Dry Weight Basis

Date Sampled: **07/08/14 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	4.19	0.0835	mg/kg dry	1	1407069	07/09/14	07/10/14	EPA 6020A	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/08/14 12:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	97.9		%	1	1407077	07/09/14	07/10/14	% calculation	

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Arvada CO, 80003

Project: BBC - Epperly 14C-23

Project Number: 0273-14020
Project Manager: Jake Janicek

Reported:
07/11/14 17:55

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 1407070 - EPA 3550A

Blank (1407070-BLK1)					Prepared & Analyzed: 07/09/14						
C10-C28 (DRO)	ND	50	mg/kg								
LCS (1407070-BS1)					Prepared & Analyzed: 07/09/14						
C10-C28 (DRO)	481	50	mg/kg	501		95.9	73-134				
Matrix Spike (1407070-MS1)					Source: 1407043-01 Prepared & Analyzed: 07/09/14						
C10-C28 (DRO)	413	50	mg/kg	469	ND	88.1	50-148				
Matrix Spike Dup (1407070-MSD1)					Source: 1407043-01 Prepared & Analyzed: 07/09/14						
C10-C28 (DRO)	423	50	mg/kg	492	ND	86.0	50-148	2.33	13		

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Project: BBC - Epperly 14C-23

Project Number: 0273-14020
Project Manager: Jake Janicek

Reported:
07/11/14 17:55

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 1407071 - EPA 5030 Soil MS

Blank (1407071-BLK1)

Prepared & Analyzed: 07/09/14

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.0050	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0471</i>		<i>"</i>	<i>0.0397</i>		<i>119</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0444</i>		<i>"</i>	<i>0.0400</i>		<i>111</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0379</i>		<i>"</i>	<i>0.0400</i>		<i>94.8</i>	<i>21-167</i>			

LCS (1407071-BS1)

Prepared & Analyzed: 07/09/14

Benzene	0.112	0.0020	mg/kg	0.100		112	58-130			
Toluene	0.116	0.0050	"	0.100		116	61-134			
Ethylbenzene	0.117	0.0050	"	0.0992		118	74-139			
m,p-Xylene	0.232	0.010	"	0.200		116	73-137			
o-Xylene	0.109	0.0050	"	0.0984		110	73-141			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0445</i>		<i>"</i>	<i>0.0397</i>		<i>112</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0414</i>		<i>"</i>	<i>0.0400</i>		<i>104</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0410</i>		<i>"</i>	<i>0.0400</i>		<i>102</i>	<i>21-167</i>			

Matrix Spike (1407071-MS1)

Source: 1407054-01

Prepared & Analyzed: 07/09/14

Benzene	0.140	0.0020	mg/kg	0.0963	0.0285	116	30-131			
Toluene	0.213	0.0050	"	0.0963	0.132	83.4	30-134			
Ethylbenzene	0.127	0.0050	"	0.0956	0.00574	127	22-153			
m,p-Xylene	0.286	0.010	"	0.192	0.0902	102	10-159			
o-Xylene	0.138	0.0050	"	0.0948	0.0318	112	31-151			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0392</i>		<i>"</i>	<i>0.0382</i>		<i>103</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0392</i>		<i>"</i>	<i>0.0385</i>		<i>102</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0377</i>		<i>"</i>	<i>0.0385</i>		<i>97.9</i>	<i>21-167</i>			

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4600 West 60th Avenue
Arvada CO, 80003

Project: BBC - Epperly 14C-23

Project Number: 0273-14020
Project Manager: Jake Janicek

Reported:
07/11/14 17:55

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 1407071 - EPA 5030 Soil MS

Matrix Spike Dup (1407071-MSD1)	Source: 1407054-01			Prepared & Analyzed: 07/09/14						
Benzene	0.182	0.0020	mg/kg	0.0949	0.0285	162	30-131	26.3	34	QM-07
Toluene	0.395	0.0050	"	0.0949	0.132	276	30-134	59.9	30	QM-07
Ethylbenzene	0.132	0.0050	"	0.0941	0.00574	134	22-153	4.08	24	
m,p-Xylene	0.389	0.010	"	0.189	0.0902	158	10-159	30.7	68	
o-Xylene	0.180	0.0050	"	0.0934	0.0318	159	31-151	26.7	38	QM-07
Surrogate: 1,2-Dichloroethane-d4	0.0391		"	0.0377		104	23-173			
Surrogate: Toluene-d8	0.0386		"	0.0380		102	20-170			
Surrogate: 4-Bromofluorobenzene	0.0366		"	0.0380		96.4	21-167			

Summit Scientific

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: BBC - Epperly 14C-23

Project Number: 0273-14020
Project Manager: Jake Janicek

Reported:
07/11/14 17:55

Semivolatile Organic Compounds by EPA Method 8270D SIM - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 1407083 - EPA 5030 Soil MS

Blank (1407083-BLK1)

Prepared & Analyzed: 07/10/14

Acenaphthene	ND	0.00500	mg/kg							
Acenaphthylene	ND	0.00500	"							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Benzo (g,h,i) perylene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Naphthalene	ND	0.00500	"							
Phenanthrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0318</i>		"	<i>0.0346</i>		<i>91.9</i>	<i>50-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0317</i>		"	<i>0.0348</i>		<i>91.0</i>	<i>50-150</i>			

LCS (1407083-BS1)

Prepared & Analyzed: 07/10/14

Acenaphthene	0.0296	0.00500	mg/kg	0.0333		88.9	50-150			
Acenaphthylene	0.0293	0.00500	"	0.0333		87.8	50-150			
Anthracene	0.0270	0.00500	"	0.0333		80.9	50-150			
Benzo (a) anthracene	0.0302	0.00500	"	0.0333		90.7	50-150			
Benzo (b) fluoranthene	0.0301	0.00500	"	0.0333		90.4	50-150			
Benzo (k) fluoranthene	0.0284	0.00500	"	0.0333		85.3	50-150			
Benzo (g,h,i) perylene	0.0327	0.00500	"	0.0333		98.2	50-150			
Benzo (a) pyrene	0.0312	0.00500	"	0.0333		93.7	50-150			
Chrysene	0.0294	0.00500	"	0.0333		88.3	50-150			
Dibenz (a,h) anthracene	0.0311	0.00500	"	0.0333		93.4	50-150			
Fluoranthene	0.0259	0.00500	"	0.0333		77.7	50-150			
Fluorene	0.0312	0.00500	"	0.0333		93.5	50-150			
Indeno (1,2,3-cd) pyrene	0.0327	0.00500	"	0.0333		98.0	50-150			
2-Methylnaphthalene	0.0301	0.00500	"	0.0332		90.6	0-200			
Naphthalene	0.0287	0.00500	"	0.0333		86.1	50-150			
Phenanthrene	0.0303	0.00500	"	0.0333		91.0	50-150			
Pyrene	0.0309	0.00500	"	0.0333		92.8	50-150			

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: BBC - Epperly 14C-23

Project Number: 0273-14020
Project Manager: Jake Janicek

Reported:
07/11/14 17:55

Semivolatile Organic Compounds by EPA Method 8270D SIM - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 1407083 - EPA 5030 Soil MS

LCS (1407083-BS1)

Prepared & Analyzed: 07/10/14

Surrogate: 2-Methylnaphthalene-d10	0.0307		mg/kg	0.0346		88.7	50-150			
Surrogate: Fluoranthene-d10	0.0283		"	0.0348		81.4	50-150			

Duplicate (1407083-DUP1)

Source: 1407045-03

Prepared & Analyzed: 07/10/14

Acenaphthene	ND	0.00500	mg/kg		ND					200
Acenaphthylene	ND	0.00500	"		ND					200
Anthracene	ND	0.00500	"		ND					200
Benzo (a) anthracene	ND	0.00500	"		ND					200
Benzo (b) fluoranthene	ND	0.00500	"		ND					200
Benzo (k) fluoranthene	ND	0.00500	"		ND					200
Benzo (g,h,i) perylene	ND	0.00500	"		ND					200
Benzo (a) pyrene	ND	0.00500	"		ND					200
Chrysene	ND	0.00500	"		ND					200
Dibenz (a,h) anthracene	ND	0.00500	"		ND					200
Fluoranthene	ND	0.00500	"		ND					200
Fluorene	ND	0.00500	"		ND					200
Indeno (1,2,3-cd) pyrene	ND	0.00500	"		ND					200
2-Methylnaphthalene	0.00239	0.00500	"		0.00293			20.1		200
Naphthalene	ND	0.00500	"		ND					200
Phenanthrene	ND	0.00500	"		ND					200
Pyrene	ND	0.00500	"		ND					200
Surrogate: 2-Methylnaphthalene-d10	0.0296		"	0.0346		85.5	50-150			
Surrogate: Fluoranthene-d10	0.0267		"	0.0348		76.6	50-150			

Matrix Spike (1407083-MS1)

Source: 1407045-02

Prepared & Analyzed: 07/10/14

Acenaphthene	0.0294	0.00500	mg/kg	0.0333	ND	88.3	50-150			
Acenaphthylene	0.0304	0.00500	"	0.0333	ND	91.3	50-150			
Anthracene	0.0255	0.00500	"	0.0333	ND	76.4	50-150			
Benzo (a) anthracene	0.0349	0.00500	"	0.0333	ND	105	50-150			
Benzo (b) fluoranthene	0.0382	0.00500	"	0.0333	ND	115	50-150			
Benzo (k) fluoranthene	0.0296	0.00500	"	0.0333	ND	88.8	50-150			
Benzo (g,h,i) perylene	0.0170	0.00500	"	0.0333	ND	51.0	50-150			
Benzo (a) pyrene	0.0308	0.00500	"	0.0333	ND	92.4	50-150			
Chrysene	0.0394	0.00500	"	0.0333	0.00832	93.2	50-150			
Dibenz (a,h) anthracene	0.0181	0.00500	"	0.0333	ND	54.3	50-150			
Fluoranthene	0.0235	0.00500	"	0.0333	ND	70.6	50-150			
Fluorene	0.0337	0.00500	"	0.0333	ND	101	50-150			
Indeno (1,2,3-cd) pyrene	0.0193	0.00500	"	0.0333	ND	58.0	50-150			

Summit Scientific

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: BBC - Epperly 14C-23

Project Number: 0273-14020
Project Manager: Jake Janicek

Reported:
07/11/14 17:55

Semivolatile Organic Compounds by EPA Method 8270D SIM - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 1407083 - EPA 5030 Soil MS

Matrix Spike (1407083-MS1)	Source: 1407045-02			Prepared & Analyzed: 07/10/14							
2-Methylnaphthalene	0.0662	0.00500	mg/kg	0.0332	ND	199	0-200				
Naphthalene	0.0403	0.00500	"	0.0333	0.00443	108	50-150				
Phenanthrene	0.0350	0.00500	"	0.0333	ND	105	50-150				
Pyrene	0.0419	0.00500	"	0.0333	0.00238	119	50-150				
Surrogate: 2-Methylnaphthalene-d10	0.0308		"	0.0346		89.1	50-150				
Surrogate: Fluoranthene-d10	0.0248		"	0.0348		71.3	50-150				

Summit Scientific

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: BBC - Epperly 14C-23

Project Number: 0273-14020
Project Manager: Jake Janicek

Reported:
07/11/14 17:55

Total Metals by EPA Method 6020 - Dry Weight Basis - Quality Control
Summit Scientific

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD		Notes
		Limit	Units		Result	%REC	Limits	RPD	Limit		

Batch 1407069 - EPA 3050B

Blank (1407069-BLK1)

Prepared: 07/09/14 Analyzed: 07/10/14

Arsenic	ND	0.100	mg/kg wet							
Arsenic	ND	0.100	"							
Barium	ND	1.00	"							
Cadmium	ND	0.100	"							
Chromium	ND	0.500	"							
Copper	ND	1.00	"							
Lead	ND	0.100	"							
Nickel	ND	0.500	"							
Selenium	ND	0.0500	"							
Silver	ND	0.100	"							
Zinc	ND	10.0	"							

LCS (1407069-BS1)

Prepared: 07/09/14 Analyzed: 07/10/14

Arsenic	4.51	0.100	mg/kg wet	5.00	90.1	80-120				
Arsenic	4.77	0.100	"	5.00	95.5	80-120				
Barium	48.2	1.00	"	50.0	96.4	80-120				
Cadmium	0.492	0.100	"	0.500	98.4	80-120				
Chromium	49.9	0.500	"	50.0	99.9	80-120				
Copper	5.54	1.00	"	5.00	111	80-120				
Lead	5.26	0.100	"	5.00	105	80-120				
Nickel	5.16	0.500	"	5.00	103	80-120				
Selenium	4.65	0.0500	"	5.00	93.1	80-120				
Silver	0.504	0.100	"	0.500	101	80-120				
Zinc	46.3	10.0	"	50.0	92.5	80-120				

LCS Dup (1407069-BSD1)

Prepared: 07/09/14 Analyzed: 07/10/14

Arsenic	3.72	0.100	mg/kg wet	5.00	74.4	80-120	19.2	20		
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Summit Scientific

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: BBC - Epperly 14C-23

Project Number: 0273-14020
Project Manager: Jake Janicek

Reported:
07/11/14 17:55

Total Metals by EPA Method 6020 - Dry Weight Basis - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit		

Batch 1407069 - EPA 3050B

Matrix Spike (1407069-MS1)

Source: 1407045-01

Prepared: 07/09/14

Analyzed: 07/10/14

Arsenic	7.37	0.0865	mg/kg dry	4.32	5.71	38.5	75-125				QM-07
Arsenic	7.20	0.0865	"	4.32	5.46	40.2	75-125				QM-07
Barium	288	0.865	"	43.2	681	NR	75-125				QM-07
Cadmium	0.575	0.0865	"	0.432	0.253	74.4	75-125				QM-07
Chromium	49.0	0.432	"	43.2	13.5	82.2	75-125				
Copper	10.8	0.865	"	4.32	9.84	21.4	75-125				QM-07
Lead	16.1	0.0865	"	4.32	13.6	58.5	75-125				QM-07
Nickel	17.5	0.432	"	4.32	14.7	65.5	75-125				QM-07
Selenium	2.58	0.0432	"	4.32	0.290	53.0	75-125				QM-07
Silver	0.478	0.0865	"	0.432	0.101	87.2	75-125				
Zinc	53.7	8.65	"	43.2	31.9	50.3	75-125				QM-07

Matrix Spike Dup (1407069-MSD1)

Source: 1407045-01

Prepared: 07/09/14

Analyzed: 07/10/14

Arsenic	5.53	0.0871	mg/kg dry	4.35	5.46	1.58	75-125	26.2	25		QM-07
Arsenic	5.84	0.0871	"	4.35	5.71	3.17	75-125	23.1	25		QM-07
Barium	241	0.871	"	43.5	681	NR	75-125	17.9	25		QM-07
Cadmium	0.540	0.0871	"	0.435	0.253	65.9	75-125	6.21	25		QM-07
Chromium	41.4	0.435	"	43.5	13.5	64.0	75-125	16.9	25		QM-07
Copper	8.87	0.871	"	4.35	9.84	NR	75-125	19.4	25		QM-07
Lead	13.5	0.0871	"	4.35	13.6	NR	75-125	17.7	25		QM-07
Nickel	13.5	0.435	"	4.35	14.7	NR	75-125	25.8	25		QM-07
Selenium	2.37	0.0435	"	4.35	0.290	47.8	75-125	8.49	25		QM-07
Silver	0.435	0.0871	"	0.435	0.101	76.7	75-125	9.46	25		
Zinc	46.2	8.71	"	43.5	31.9	32.8	75-125	14.9	25		QM-07

Summit Scientific

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LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO, 80003

Project: BBC - Epperly 14C-23

Project Number: 0273-14020
 Project Manager: Jake Janicek

Reported:
 07/11/14 17:55

Total Mercury by EPA Method 7471/7470/245.1 - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD		

Batch 1407076 - EPA 7471A

Blank (1407076-BLK1)				Prepared: 07/09/14 Analyzed: 07/10/14						
Mercury	ND	0.0125	mg/kg wet							
LCS (1407076-BS1)				Prepared: 07/09/14 Analyzed: 07/10/14						
Mercury	0.420	0.0125	mg/kg wet	0.500		84.0	80-120			
Duplicate (1407076-DUP1)				Source: 1407045-01 Prepared: 07/09/14 Analyzed: 07/10/14						
Mercury	0.0348	0.0152	mg/kg dry		0.0244			35.0	20	
Matrix Spike (1407076-MS1)				Source: 1407045-01 Prepared: 07/09/14 Analyzed: 07/10/14						
Mercury	0.518	0.0150	mg/kg dry	0.600	0.0244	82.2	80-120			
Matrix Spike Dup (1407076-MSD1)				Source: 1407045-01 Prepared: 07/09/14 Analyzed: 07/10/14						
Mercury	0.517	0.0151	mg/kg dry	0.605	0.0244	81.4	80-120	0.137	20	

Summit Scientific

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LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO, 80003

Project: BBC - Epperly 14C-23

Project Number: 0273-14020
 Project Manager: Jake Janicek

Reported:
 07/11/14 17:55

Hexavalent Chromium by EPA 7196 - Quality Control
Summit Scientific

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD		Notes
		Limit	Units		Result	%REC	Limits	RPD	Limit		

Batch 1407079 - 3060A_Mod

Blank (1407079-BLK1)		Prepared: 07/10/14 Analyzed: 07/11/14									
Chromium, Hexavalent	ND	1.00	mg/kg wet								
LCS (1407079-BS1)		Prepared: 07/10/14 Analyzed: 07/11/14									
Chromium, Hexavalent	18.9	1.00	mg/kg wet	20.0		94.5	80-120				
Matrix Spike (1407079-MS1)		Source: 1406236-01 Prepared: 07/10/14 Analyzed: 07/11/14									
Chromium, Hexavalent	ND	1.01	mg/kg dry	20.1	ND		80-120				QM-07
Matrix Spike Dup (1407079-MSD1)		Source: 1406236-01 Prepared: 07/10/14 Analyzed: 07/11/14									
Chromium, Hexavalent	ND	1.03	mg/kg dry	20.5	ND		80-120		20		QM-07

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: BBC - Epperly 14C-23

Project Number: 0273-14020
Project Manager: Jake Janicek

Reported:
07/11/14 17:55

Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit		

Batch 1407091 - General Preparation

Blank (1407091-BLK1)

Prepared & Analyzed: 07/11/14

Calcium	ND	10.0	mg/kg wet							
Magnesium	ND	5.00	"							
Sodium	ND	5.00	"							

LCS (1407091-BS1)

Prepared & Analyzed: 07/11/14

Calcium	1020	10.0	mg/kg wet	1000		102	80-120			
Magnesium	1060	5.00	"	1000		106	80-120			
Sodium	1050	5.00	"	1000		105	80-120			

Matrix Spike (1407091-MS1)

Source: 1407045-01

Prepared & Analyzed: 07/11/14

Calcium	2570	12.6	mg/kg dry	1210	1690	72.7	75-125			QM-07
Magnesium	1490	6.32	"	1210	962	43.5	75-125			QM-07
Sodium	1550	6.32	"	1210	859	57.0	75-125			QM-07

Matrix Spike Dup (1407091-MSD1)

Source: 1407045-01

Prepared & Analyzed: 07/11/14

Calcium	2210	12.6	mg/kg dry	1230	1690	41.9	75-125	15.1	25	QM-07
Magnesium	1130	6.32	"	1230	962	13.4	75-125	27.5	25	QM-07
Sodium	1090	6.32	"	1230	859	19.2	75-125	34.2	25	QM-07

Summit Scientific

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: BBC - Epperly 14C-23

Project Number: 0273-14020
Project Manager: Jake Janicek

Reported:
07/11/14 17:55

Physical Parameters by APHA/ASTM/EPA Methods - Quality Control
Summit Scientific

Analyte	Reporting		Spike Level	Source		%REC		RPD		Notes
	Result	Limit		Units	Result	%REC	Limits	RPD	Limit	

Batch 1407068 - General Preparation

Blank (1407068-BLK1)			Prepared & Analyzed: 07/09/14							
Specific Conductance (EC)	ND	0.0100	mmhos/cm							
Duplicate (1407068-DUP1)			Source: 1407045-01		Prepared & Analyzed: 07/09/14					
Specific Conductance (EC)	1.85	0.0100	mmhos/cm		1.86			0.765	20	

Batch 1407072 - General Preparation

LCS (1407072-BS1)			Prepared & Analyzed: 07/09/14							
pH	8.07	0.100	pH Units	8.00		101	0-200			
Duplicate (1407072-DUP1)			Source: 1407045-01		Prepared & Analyzed: 07/09/14					
pH	8.15	0.100	pH Units		8.06			1.11	20	

Batch 1407077 - General Preparation

Duplicate (1407077-DUP1)			Source: 1407045-01		Prepared: 07/09/14		Analyzed: 07/10/14			
% Solids	80.1		%		79.1			1.26	20	

Summit Scientific

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: BBC - Epperly 14C-23

Project Number: 0273-14020
Project Manager: Jake Janicek

Reported:
07/11/14 17:55

Notes and Definitions

- S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

July 19, 2014

Jake Janicek

LT Environmental, Inc.

4600 West 60th Avenue

Arvada, CO 80003

RE: BBC - Epperly 14C-23

Enclosed are the results of analyses for samples received by Summit Scientific on 07/16/14 10:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'BS', with a long, sweeping horizontal line extending to the right.

Ben Shrewsbury

President / Laboratory Manager



LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: BBC - Epperly 14C-23

Project Number: 0273-14020
Project Manager: Jake Janicek

Reported:
07/19/14 00:46

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EastWall@5'	1407094-01	Soil	07/14/14 14:45	07/16/14 10:15
WestWall@5'	1407094-02	Soil	07/14/14 15:15	07/16/14 10:15
CS03	1407094-03	Soil	07/14/14 15:45	07/16/14 10:15

Summit Scientific

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: BBC - Epperly 14C-23

Project Number: 0273-14020
Project Manager: Jake Janicek

Reported:
07/19/14 00:46

EastWall@5'
1407094-01 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/14/14 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	1300	50	mg/kg	1	1407129	07/16/14	07/16/14	8015M	

Date Sampled: **07/14/14 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: o-Terphenyl</i>		96.7 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/14/14 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	0.91	0.020	mg/kg	10	1407130	07/16/14	07/16/14	EPA 8260B	
Toluene	0.18	0.050	"	"	"	"	"	"	
Ethylbenzene	2.3	0.050	"	"	"	"	"	"	
Xylenes (total)	45	0.050	"	"	"	"	"	"	E
Gasoline Range Hydrocarbons	3800	5.0	"	"	"	"	"	"	E

Date Sampled: **07/14/14 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		114 %	23-173		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		174 %	20-170		"	"	"	"	S-02
<i>Surrogate: 4-Bromofluorobenzene</i>		493 %	21-167		"	"	"	"	S-02

Semivolatile Organic Compounds by EPA Method 8270D SIM

Date Sampled: **07/14/14 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	1407131	07/16/14	07/16/14	EPA 8270D SIM	
Acenaphthylene	ND	0.00500	"	"	"	"	"	"	

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: BBC - Epperly 14C-23

Project Number: 0273-14020
Project Manager: Jake Janicek

Reported:
07/19/14 00:46

EastWall@5'
1407094-01 (Soil)

Summit Scientific

Semivolatile Organic Compounds by EPA Method 8270D SIM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anthracene	ND	0.00500	mg/kg	1	1407131	07/16/14	07/16/14	EPA 8270D SIM	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	"
Benzo (b) fluoranthene	0.0292	0.00500	"	"	"	"	"	"	"
Benzo (k) fluoranthene	0.0142	0.00500	"	"	"	"	"	"	"
Benzo (g,h,i) perylene	ND	0.00500	"	"	"	"	"	"	"
Benzo (a) pyrene	0.0206	0.00500	"	"	"	"	"	"	"
Chrysene	0.0748	0.00500	"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	"
Fluoranthene	ND	0.00500	"	"	"	"	"	"	"
Fluorene	0.157	0.00500	"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	"
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	"
Naphthalene	1.05	0.500	"	100	"	"	07/16/14	"	"
Phenanthrene	0.644	0.500	"	"	"	"	"	"	"
Pyrene	0.0682	0.00500	"	1	"	"	07/16/14	"	"

Date Sampled: **07/14/14 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		80.2 %	50-150		"	"	"	"	
Surrogate: Fluoranthene-d10		97.8 %	50-150		"	"	"	"	

Total Metals by EPA Method 6020 - Dry Weight Basis

Date Sampled: **07/14/14 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	5.16	0.123	mg/kg dry	1	1407119	07/15/14	07/18/14	EPA 6020A	
Barium	549	0.123	"	"	"	"	"	"	
Cadmium	0.323	0.123	"	"	"	"	"	"	
Chromium	9.91	0.616	"	"	"	"	"	"	
Copper	6.96	0.616	"	"	"	"	"	"	
Lead	15.2	0.123	"	"	"	"	"	"	
Nickel	13.1	1.23	"	"	"	"	"	"	
Selenium	0.105	0.0616	"	"	"	"	"	"	
Silver	ND	0.123	"	"	"	"	"	"	
Zinc	45.7	12.3	"	"	"	"	"	"	

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LT Environmental, Inc.
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Arvada CO, 80003

Project: BBC - Epperly 14C-23

Project Number: 0273-14020
Project Manager: Jake Janicek

Reported:
07/19/14 00:46

EastWall@5'
1407094-01 (Soil)

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Total Metals by EPA Method 6020 - Dry Weight Basis

Total Mercury by EPA Method 7471/7470/245.1

Date Sampled: **07/14/14 14:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Mercury	ND	0.0616	mg/kg dry	1	1407118	07/15/14	07/18/14	EPA 7471	

Hexavalent Chromium by EPA 7196

Date Sampled: **07/14/14 14:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	1.23	mg/kg dry	1	1407133	07/16/14	07/18/14	EPA 7196	

Calculated Analytes

Date Sampled: **07/14/14 14:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium+3 Calculated	8.68	1.00	mg/kg	1	1407154	07/18/14	07/19/14	Calculation	

Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **07/14/14 14:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	1010	11.1	mg/kg dry	1	1407139	07/17/14	07/18/14	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	606	5.56	"	"	"	"	"	"	
Sodium	747	5.56	"	"	"	"	"	"	

Date Sampled: **07/14/14 14:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	4.59		units	"	1407144	07/17/14	07/18/14	"	

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 Arvada CO, 80003

Project: BBC - Epperly 14C-23

Project Number: 0273-14020
 Project Manager: Jake Janicek

Reported:
 07/19/14 00:46

EastWall@5'
1407094-01 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/14/14 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.45	0.0100	mmhos/cm	1	1407135	07/16/14	07/16/14	SM 2510B	

Date Sampled: **07/14/14 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.51	0.100	pH Units	"	1407136	07/16/14	07/16/14	EPA 9045	

Date Sampled: **07/14/14 14:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	81.2		%	"	1407137	07/17/14	07/17/14	% calculation	

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LT Environmental, Inc.
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Arvada CO, 80003

Project: BBC - Epperly 14C-23

Project Number: 0273-14020
Project Manager: Jake Janicek

Reported:
07/19/14 00:46

WestWall@5'
1407094-02 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/14/14 15:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	63	50	mg/kg	1	1407129	07/16/14	07/16/14	8015M	

Date Sampled: **07/14/14 15:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: o-Terphenyl</i>		96.1 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/14/14 15:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	0.0044	0.0020	mg/kg	1	1407130	07/16/14	07/16/14	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.086	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	12	0.50	"	"	"	"	"	"	

Date Sampled: **07/14/14 15:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		116 %	23-173		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		97.2 %	20-170		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		112 %	21-167		"	"	"	"	

Semivolatile Organic Compounds by EPA Method 8270D SIM

Date Sampled: **07/14/14 15:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	1407131	07/16/14	07/16/14	EPA 8270D SIM	
Acenaphthylene	ND	0.00500	"	"	"	"	"	"	

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: BBC - Epperly 14C-23

Project Number: 0273-14020
Project Manager: Jake Janicek

Reported:
07/19/14 00:46

WestWall@5'
1407094-02 (Soil)

Summit Scientific

Semivolatile Organic Compounds by EPA Method 8270D SIM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anthracene	ND	0.00500	mg/kg	1	1407131	07/16/14	07/16/14	EPA 8270D SIM	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	"
Benzo (g,h,i) perylene	ND	0.00500	"	"	"	"	"	"	"
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	"
Chrysene	ND	0.00500	"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	"
Fluoranthene	ND	0.00500	"	"	"	"	"	"	"
Fluorene	0.0176	0.00500	"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	"
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	"
Naphthalene	0.0164	0.00500	"	"	"	"	"	"	"
Phenanthrene	0.0250	0.00500	"	"	"	"	"	"	"
Pyrene	ND	0.00500	"	"	"	"	"	"	"

Date Sampled: **07/14/14 15:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		68.3 %	50-150		"	"	"	"	
Surrogate: Fluoranthene-d10		57.3 %	50-150		"	"	"	"	

Total Metals by EPA Method 6020 - Dry Weight Basis

Date Sampled: **07/14/14 15:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	4.96	0.126	mg/kg dry	1	1407119	07/15/14	07/19/14	EPA 6020A	
Barium	355	0.126	"	"	"	"	"	"	
Cadmium	0.274	0.126	"	"	"	"	"	"	
Chromium	9.77	0.632	"	"	"	"	"	"	
Copper	6.11	0.632	"	"	"	"	"	"	
Lead	14.5	0.126	"	"	"	"	"	"	
Nickel	13.2	1.26	"	"	"	"	"	"	
Selenium	ND	0.0632	"	"	"	"	"	"	
Silver	ND	0.126	"	"	"	"	"	"	

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: BBC - Epperly 14C-23

Project Number: 0273-14020
Project Manager: Jake Janicek

Reported:
07/19/14 00:46

WestWall@5'
1407094-02 (Soil)

Summit Scientific

Total Metals by EPA Method 6020 - Dry Weight Basis

Zinc	44.2	12.6 mg/kg dry	1	1407119	07/15/14	07/19/14	EPA 6020A
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Total Mercury by EPA Method 7471/7470/245.1

Date Sampled: **07/14/14 15:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Mercury	ND	0.0556	mg/kg dry	1	1407118	07/15/14	07/18/14	EPA 7471	

Hexavalent Chromium by EPA 7196

Date Sampled: **07/14/14 15:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	1.26	mg/kg dry	1	1407133	07/16/14	07/18/14	EPA 7196	

Calculated Analytes

Date Sampled: **07/14/14 15:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium+3 Calculated	8.51	1.00	mg/kg	1	1407154	07/18/14	07/19/14	Calculation	

Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **07/14/14 15:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	3220	12.6	mg/kg dry	1	1407139	07/17/14	07/18/14	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	1280	6.32	"	"	"	"	"	"	
Sodium	447	6.32	"	"	"	"	"	"	

Date Sampled: **07/14/14 15:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: BBC - Epperly 14C-23

Project Number: 0273-14020
Project Manager: Jake Janicek

Reported:
07/19/14 00:46

WestWall@5'
1407094-02 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis

Sodium Adsorption Ratio	1.69	units	1	1407144	07/17/14	07/18/14	EPA 6020/Mod. USDA60 6(2, 3A)
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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/14/14 15:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	0.858	0.0100	mmhos/cm	1	1407135	07/16/14	07/16/14	SM 2510B	

Date Sampled: **07/14/14 15:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	8.58	0.100	pH Units	"	1407136	07/16/14	07/16/14	EPA 9045	

Date Sampled: **07/14/14 15:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	79.1		%	"	1407137	07/17/14	07/17/14	% calculation	

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: BBC - Epperly 14C-23

Project Number: 0273-14020
Project Manager: Jake Janicek

Reported:
07/19/14 00:46

CS03
1407094-03 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/14/14 15:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	250	50	mg/kg	1	1407129	07/16/14	07/16/14	8015M	

Date Sampled: **07/14/14 15:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: o-Terphenyl</i>		90.0 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/14/14 15:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	0.023	0.0020	mg/kg	1	1407130	07/16/14	07/16/14	EPA 8260B	
Toluene	0.14	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.036	0.0050	"	"	"	"	"	"	
Xylenes (total)	2.0	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	32	0.50	"	"	"	"	"	"	

Date Sampled: **07/14/14 15:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		107 %	23-173		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		91.8 %	20-170		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		122 %	21-167		"	"	"	"	

Semivolatile Organic Compounds by EPA Method 8270D SIM

Date Sampled: **07/14/14 15:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	1407131	07/16/14	07/16/14	EPA 8270D SIM	
Acenaphthylene	ND	0.00500	"	"	"	"	"	"	

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Project Number: 0273-14020
Project Manager: Jake Janicek

Reported:
07/19/14 00:46

CS03
1407094-03 (Soil)

Summit Scientific

Semivolatile Organic Compounds by EPA Method 8270D SIM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anthracene	ND	0.00500	mg/kg	1	1407131	07/16/14	07/16/14	EPA 8270D SIM	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	"
Benzo (g,h,i) perylene	ND	0.00500	"	"	"	"	"	"	"
Benzo (a) pyrene	0.00597	0.00500	"	"	"	"	"	"	"
Chrysene	ND	0.00500	"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	"
Fluoranthene	ND	0.00500	"	"	"	"	"	"	"
Fluorene	0.101	0.00500	"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	"
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	"
Naphthalene	0.309	0.0500	"	10	"	"	07/16/14	"	"
Phenanthrene	0.145	0.00500	"	1	"	"	07/16/14	"	"
Pyrene	0.00805	0.00500	"	"	"	"	"	"	"

Date Sampled: **07/14/14 15:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		80.4 %	50-150		"	"	"	"	
Surrogate: Fluoranthene-d10		65.8 %	50-150		"	"	"	"	

Total Metals by EPA Method 6020 - Dry Weight Basis

Date Sampled: **07/14/14 15:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	10.6	0.115	mg/kg dry	1	1407119	07/15/14	07/19/14	EPA 6020A	
Barium	746	0.115	"	"	"	"	"	"	
Cadmium	0.321	0.115	"	"	"	"	"	"	
Chromium	7.65	0.573	"	"	"	"	"	"	
Copper	6.76	0.573	"	"	"	"	"	"	
Lead	14.5	0.115	"	"	"	"	"	"	
Nickel	10.5	1.15	"	"	"	"	"	"	
Selenium	0.111	0.0573	"	"	"	"	"	"	
Silver	ND	0.115	"	"	"	"	"	"	
Zinc	43.1	11.5	"	"	"	"	"	"	

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Arvada CO, 80003

Project: BBC - Epperly 14C-23

Project Number: 0273-14020
Project Manager: Jake Janicek

Reported:
07/19/14 00:46

CS03

1407094-03 (Soil)

Summit Scientific

Total Metals by EPA Method 6020 - Dry Weight Basis

Total Mercury by EPA Method 7471/7470/245.1

Date Sampled: **07/14/14 15:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Mercury	ND	0.0573	mg/kg dry	1	1407118	07/15/14	07/18/14	EPA 7471	

Hexavalent Chromium by EPA 7196

Date Sampled: **07/14/14 15:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	1.15	mg/kg dry	1	1407133	07/16/14	07/18/14	EPA 7196	

Calculated Analytes

Date Sampled: **07/14/14 15:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium+3 Calculated	6.50	1.00	mg/kg	1	1407154	07/18/14	07/19/14	Calculation	

Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **07/14/14 15:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	1560	10.1	mg/kg dry	1	1407139	07/17/14	07/18/14	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	627	5.03	"	"	"	"	"	"	
Sodium	456	5.03	"	"	"	"	"	"	

Date Sampled: **07/14/14 15:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	2.47		units	"	1407144	07/17/14	07/18/14	"	

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Project: BBC - Epperly 14C-23

Project Number: 0273-14020
 Project Manager: Jake Janicek

Reported:
 07/19/14 00:46

CS03

1407094-03 (Soil)

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Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/14/14 15:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.90	0.0100	mmhos/cm	1	1407135	07/16/14	07/16/14	SM 2510B	

Date Sampled: **07/14/14 15:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.91	0.100	pH Units	"	1407136	07/16/14	07/16/14	EPA 9045	

Date Sampled: **07/14/14 15:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	87.3		%	"	1407137	07/17/14	07/17/14	% calculation	

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Project: BBC - Epperly 14C-23

Project Number: 0273-14020
Project Manager: Jake Janicek

Reported:
07/19/14 00:46

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD		Notes
		Limit	Units		Result	%REC	Limits	RPD	Limit		

Batch 1407129 - EPA 3550A

Blank (1407129-BLK1)				Prepared & Analyzed: 07/16/14							
C10-C28 (DRO)	ND	50	mg/kg								
LCS (1407129-BS1)				Prepared & Analyzed: 07/16/14							
C10-C28 (DRO)	426	50	mg/kg	499	85.4	73-134					
Matrix Spike (1407129-MS1)				Source: 1407094-02		Prepared & Analyzed: 07/16/14					
C10-C28 (DRO)	490	50	mg/kg	501	63.1	85.1	50-148				
Matrix Spike Dup (1407129-MSD1)				Source: 1407094-02		Prepared & Analyzed: 07/16/14					
C10-C28 (DRO)	474	50	mg/kg	462	63.1	88.9	50-148	3.25	13		

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Project: BBC - Epperly 14C-23

Project Number: 0273-14020
Project Manager: Jake Janicek

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07/19/14 00:46

Volatile Organic Compounds by EPA Method 8260B - Quality Control
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Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 1407130 - EPA 5030 Soil MS

Blank (1407130-BLK1)

Prepared & Analyzed: 07/16/14

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.0050	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0386</i>		"	<i>0.0377</i>		<i>102</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0382</i>		"	<i>0.0380</i>		<i>100</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0386</i>		"	<i>0.0380</i>		<i>101</i>	<i>21-167</i>			

LCS (1407130-BS1)

Prepared & Analyzed: 07/16/14

Benzene	0.116	0.0020	mg/kg	0.0980		118	58-130			
Toluene	0.118	0.0050	"	0.0980		120	61-134			
Ethylbenzene	0.128	0.0050	"	0.0973		132	74-139			
m,p-Xylene	0.249	0.010	"	0.196		127	73-137			
o-Xylene	0.119	0.0050	"	0.0965		123	73-141			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0377</i>		"	<i>0.0389</i>		<i>96.9</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0391</i>		"	<i>0.0392</i>		<i>99.7</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0383</i>		"	<i>0.0392</i>		<i>97.6</i>	<i>21-167</i>			

Matrix Spike (1407130-MS1)

Source: 1407094-02

Prepared & Analyzed: 07/16/14

Benzene	0.120	0.0020	mg/kg	0.0977	0.00438	119	30-131			
Toluene	0.119	0.0050	"	0.0977	ND	122	30-134			
Ethylbenzene	0.132	0.0050	"	0.0969	0.00489	131	22-153			
m,p-Xylene	0.355	0.010	"	0.195	0.0713	146	10-159			
o-Xylene	0.145	0.0050	"	0.0961	0.0142	136	31-151			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0398</i>		"	<i>0.0388</i>		<i>103</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0400</i>		"	<i>0.0391</i>		<i>102</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0379</i>		"	<i>0.0391</i>		<i>97.1</i>	<i>21-167</i>			

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Project: BBC - Epperly 14C-23

Project Number: 0273-14020
 Project Manager: Jake Janicek

Reported:
 07/19/14 00:46

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 1407130 - EPA 5030 Soil MS

Matrix Spike Dup (1407130-MSD1)	Source: 1407094-02			Prepared & Analyzed: 07/16/14						
Benzene	0.118	0.0020	mg/kg	0.0960	0.00438	118	30-131	2.30	34	
Toluene	0.115	0.0050	"	0.0960	ND	120	30-134	3.21	30	
Ethylbenzene	0.127	0.0050	"	0.0952	0.00489	128	22-153	4.03	24	
m,p-Xylene	0.280	0.010	"	0.192	0.0713	109	10-159	23.7	68	
o-Xylene	0.131	0.0050	"	0.0944	0.0142	124	31-151	10.0	38	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0390</i>		<i>"</i>	<i>0.0381</i>		<i>102</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0387</i>		<i>"</i>	<i>0.0384</i>		<i>101</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0376</i>		<i>"</i>	<i>0.0384</i>		<i>97.9</i>	<i>21-167</i>			

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Project: BBC - Epperly 14C-23

Project Number: 0273-14020
Project Manager: Jake Janicek

Reported:
07/19/14 00:46

Semivolatile Organic Compounds by EPA Method 8270D SIM - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 1407131 - EPA 5030 Soil MS

Blank (1407131-BLK1)

Prepared & Analyzed: 07/16/14

Acenaphthene	ND	0.00500	mg/kg							
Acenaphthylene	ND	0.00500	"							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Benzo (g,h,i) perylene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Naphthalene	ND	0.00500	"							
Phenanthrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0309</i>		<i>"</i>	<i>0.0346</i>		<i>89.2</i>	<i>50-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0299</i>		<i>"</i>	<i>0.0348</i>		<i>85.8</i>	<i>50-150</i>			

LCS (1407131-BS1)

Prepared & Analyzed: 07/16/14

Acenaphthene	0.0306	0.00500	mg/kg	0.0333		91.9	50-150			
Acenaphthylene	0.0305	0.00500	"	0.0333		91.5	50-150			
Anthracene	0.0290	0.00500	"	0.0333		86.9	50-150			
Benzo (a) anthracene	0.0315	0.00500	"	0.0333		94.5	50-150			
Benzo (b) fluoranthene	0.0320	0.00500	"	0.0333		96.1	50-150			
Benzo (k) fluoranthene	0.0300	0.00500	"	0.0333		89.9	50-150			
Benzo (g,h,i) perylene	0.0327	0.00500	"	0.0333		98.1	50-150			
Benzo (a) pyrene	0.0318	0.00500	"	0.0333		95.5	50-150			
Chrysene	0.0308	0.00500	"	0.0333		92.5	50-150			
Dibenz (a,h) anthracene	0.0330	0.00500	"	0.0333		99.0	50-150			
Fluoranthene	0.0267	0.00500	"	0.0333		80.2	50-150			
Fluorene	0.0322	0.00500	"	0.0333		96.6	50-150			
Indeno (1,2,3-cd) pyrene	0.0333	0.00500	"	0.0333		99.9	50-150			
2-Methylnaphthalene	0.0311	0.00500	"	0.0332		93.6	0-200			
Naphthalene	0.0292	0.00500	"	0.0333		87.7	50-150			
Phenanthrene	0.0306	0.00500	"	0.0333		91.7	50-150			
Pyrene	0.0330	0.00500	"	0.0333		99.1	50-150			

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LT Environmental, Inc.
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Project: BBC - Epperly 14C-23

Project Number: 0273-14020
Project Manager: Jake Janicek

Reported:
07/19/14 00:46

Semivolatile Organic Compounds by EPA Method 8270D SIM - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 1407131 - EPA 5030 Soil MS

LCS (1407131-BS1)

Prepared & Analyzed: 07/16/14

Surrogate: 2-Methylnaphthalene-d10	0.0286		mg/kg	0.0346		82.6	50-150			
Surrogate: Fluoranthene-d10	0.0256		"	0.0348		73.5	50-150			

Duplicate (1407131-DUP1)

Source: 1407094-02

Prepared & Analyzed: 07/16/14

Acenaphthene	ND	0.00500	mg/kg		ND				200	
Acenaphthylene	ND	0.00500	"		ND				200	
Anthracene	ND	0.00500	"		ND				200	
Benzo (a) anthracene	ND	0.00500	"		ND				200	
Benzo (b) fluoranthene	ND	0.00500	"		ND				200	
Benzo (k) fluoranthene	ND	0.00500	"		ND				200	
Benzo (g,h,i) perylene	ND	0.00500	"		ND				200	
Benzo (a) pyrene	ND	0.00500	"		ND				200	
Chrysene	0.00435	0.00500	"		ND				200	
Dibenz (a,h) anthracene	ND	0.00500	"		ND				200	
Fluoranthene	ND	0.00500	"		ND				200	
Fluorene	0.0214	0.00500	"		0.0176			19.2	200	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"		ND				200	
2-Methylnaphthalene	ND	0.00500	"		ND				200	
Naphthalene	0.0157	0.00500	"		0.0164			4.23	200	
Phenanthrene	0.0258	0.00500	"		0.0250			3.08	200	
Pyrene	0.00180	0.00500	"		0.00195			8.03	200	
Surrogate: 2-Methylnaphthalene-d10	0.0273		"	0.0346		78.9	50-150			
Surrogate: Fluoranthene-d10	0.0229		"	0.0348		65.8	50-150			

Matrix Spike (1407131-MS1)

Source: 1407094-01

Prepared & Analyzed: 07/16/14

Acenaphthene	0.0382	0.00500	mg/kg	0.0333	ND	114	50-150			
Acenaphthylene	0.0361	0.00500	"	0.0333	ND	108	50-150			
Anthracene	0.526	0.00500	"	0.0333	ND	NR	50-150			E
Benzo (a) anthracene	0.106	0.00500	"	0.0333	ND	319	50-150			QM-07
Benzo (b) fluoranthene	0.0627	0.00500	"	0.0333	0.0292	101	50-150			
Benzo (k) fluoranthene	0.0324	0.00500	"	0.0333	0.0142	54.5	50-150			
Benzo (g,h,i) perylene	0.0202	0.00500	"	0.0333	0.00270	52.5	50-150			
Benzo (a) pyrene	0.0305	0.00500	"	0.0333	0.0206	29.6	50-150			QM-07
Chrysene	0.102	0.00500	"	0.0333	0.0748	81.3	50-150			
Dibenz (a,h) anthracene	0.0220	0.00500	"	0.0333	ND	66.0	50-150			
Fluoranthene	0.0719	0.00500	"	0.0333	ND	216	50-150			QM-07
Fluorene	0.115	0.00500	"	0.0333	0.157	NR	50-150			QM-07
Indeno (1,2,3-cd) pyrene	0.0189	0.00500	"	0.0333	ND	56.7	50-150			

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LT Environmental, Inc.
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Project: BBC - Epperly 14C-23

Project Number: 0273-14020
 Project Manager: Jake Janicek

Reported:
 07/19/14 00:46

Semivolatile Organic Compounds by EPA Method 8270D SIM - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit		

Batch 1407131 - EPA 5030 Soil MS

Matrix Spike (1407131-MS1)	Source: 1407094-01			Prepared & Analyzed: 07/16/14							
2-Methylnaphthalene	2.26	0.00500	mg/kg	0.0332	ND	NR	0-200				E
Naphthalene	0.476	0.00500	"	0.0333	1.05	NR	50-150				E
Phenanthrene	0.813	0.00500	"	0.0333	0.644	508	50-150				E
Pyrene	0.112	0.00500	"	0.0333	0.0682	132	50-150				
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0271</i>		<i>"</i>	<i>0.0346</i>		<i>78.4</i>	<i>50-150</i>				
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0241</i>		<i>"</i>	<i>0.0348</i>		<i>69.3</i>	<i>50-150</i>				

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Arvada CO, 80003

Project: BBC - Epperly 14C-23

Project Number: 0273-14020
Project Manager: Jake Janicek

Reported:
07/19/14 00:46

Total Metals by EPA Method 6020 - Dry Weight Basis - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit		

Batch 1407119 - EPA 3050B

Blank (1407119-BLK1)

Prepared: 07/15/14 Analyzed: 07/18/14

Arsenic	ND	0.100	mg/kg wet							
Barium	ND	0.500	"							
Cadmium	ND	0.100	"							
Chromium	ND	0.500	"							
Copper	ND	0.500	"							
Lead	ND	0.100	"							
Nickel	ND	1.00	"							
Selenium	ND	0.0500	"							
Silver	ND	0.100	"							
Zinc	ND	10.0	"							

LCS (1407119-BS2)

Prepared: 07/15/14 Analyzed: 07/18/14

Arsenic	4.59	0.100	mg/kg wet	4.00		115	80-120			
Barium	44.7	0.500	"	40.0		112	80-120			
Cadmium	0.443	0.100	"	0.400		111	80-120			
Chromium	45.7	0.500	"	40.0		114	80-120			
Copper	3.29	0.500	"	4.00		82.2	80-120			
Lead	4.69	0.100	"	4.00		117	80-120			
Nickel	5.26	1.00	"	4.00		132	80-120			
Selenium	4.72	0.0500	"	4.00		118	80-120			
Silver	0.451	0.100	"	0.400		113	80-120			
Zinc	45.2	10.0	"	40.0		113	80-120			

Matrix Spike (1407119-MS1)

Source: 1407069-01

Prepared: 07/15/14 Analyzed: 07/18/14

Arsenic	8.91	0.126	mg/kg dry	4.64	4.03	105	75-125			
Barium	1020	0.631	"	46.4	877	317	75-125			QM-07
Cadmium	2.72	0.126	"	0.464	1.28	312	75-125			QM-07
Chromium	60.7	0.631	"	46.4	7.75	114	75-125			
Copper	21.5	0.631	"	4.64	13.2	178	75-125			QM-07
Lead	19.6	0.126	"	4.64	12.6	151	75-125			QM-07
Nickel	26.2	1.26	"	4.64	13.3	278	75-125			QM-07
Selenium	5.27	0.0631	"	4.64	1.24	86.9	75-125			
Silver	0.739	0.126	"	0.464	0.103	137	75-125			QM-07
Zinc	133	12.6	"	46.4	54.4	170	75-125			QM-07

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LT Environmental, Inc.
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Project: BBC - Epperly 14C-23

Project Number: 0273-14020
 Project Manager: Jake Janicek

Reported:
 07/19/14 00:46

Total Metals by EPA Method 6020 - Dry Weight Basis - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 1407119 - EPA 3050B

Matrix Spike Dup (1407119-MSD1)	Source: 1407069-01			Prepared: 07/15/14		Analyzed: 07/18/14				
Arsenic	8.70	0.126	mg/kg dry	4.74	4.03	98.5	75-125	2.49	25	
Barium	1080	0.631	"	47.4	877	431	75-125	5.46	25	QM-07
Cadmium	2.19	0.126	"	0.474	1.28	193	75-125	21.7	25	QM-07
Chromium	59.9	0.631	"	47.4	7.75	110	75-125	1.31	25	
Copper	19.2	0.631	"	4.74	13.2	125	75-125	11.4	25	
Lead	21.5	0.126	"	4.74	12.6	188	75-125	9.42	25	QM-07
Nickel	22.9	1.26	"	4.74	13.3	202	75-125	13.6	25	QM-07
Selenium	4.62	0.0631	"	4.74	1.24	71.3	75-125	13.2	25	QM-07
Silver	0.749	0.126	"	0.474	0.103	136	75-125	1.33	25	QM-07
Zinc	127	12.6	"	47.4	54.4	152	75-125	5.21	25	QM-07

Summit Scientific

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LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO, 80003

Project: BBC - Epperly 14C-23

Project Number: 0273-14020
 Project Manager: Jake Janicek

Reported:
 07/19/14 00:46

Total Mercury by EPA Method 7471/7470/245.1 - Quality Control
Summit Scientific

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD		Notes
		Limit	Units		Result	%REC	Limits	RPD	Limit		

Batch 1407118 - EPA 7471A

Blank (1407118-BLK1)		Prepared: 07/15/14 Analyzed: 07/18/14									
Mercury	ND	0.0500	mg/kg wet								
LCS (1407118-BS1)		Prepared: 07/15/14 Analyzed: 07/18/14									
Mercury	0.441	0.0500	mg/kg wet	0.500		88.2	80-120				
Matrix Spike (1407118-MS1)		Source: 1407069-01		Prepared: 07/15/14 Analyzed: 07/18/14							
Mercury	0.597	0.0631	mg/kg dry	0.606	ND	98.4	80-120				
Matrix Spike Dup (1407118-MSD1)		Source: 1407069-01		Prepared: 07/15/14 Analyzed: 07/18/14							
Mercury	0.527	0.0631	mg/kg dry	0.605	ND	87.0	80-120	12.5	20		

Summit Scientific

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: BBC - Epperly 14C-23

Project Number: 0273-14020
Project Manager: Jake Janicek

Reported:
07/19/14 00:46

Hexavalent Chromium by EPA 7196 - Quality Control
Summit Scientific

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD		Notes
		Limit	Units		Result	%REC	Limits	RPD	Limit		

Batch 1407133 - 3060A_Mod

Blank (1407133-BLK1)

Prepared: 07/16/14 Analyzed: 07/18/14

Chromium, Hexavalent ND 1.00 mg/kg wet

LCS (1407133-BS1)

Prepared: 07/16/14 Analyzed: 07/18/14

Chromium, Hexavalent 25.1 1.00 mg/kg wet 20.0 126 80-120

LCS Dup (1407133-BSD1)

Prepared: 07/16/14 Analyzed: 07/18/14

Chromium, Hexavalent 20.0 1.00 mg/kg wet 20.0 100 80-120 22.7 20

Duplicate (1407133-DUP1)

Source: 1407094-01

Prepared: 07/16/14 Analyzed: 07/18/14

Chromium, Hexavalent ND 1.23 mg/kg dry ND 20

Matrix Spike (1407133-MS1)

Source: 1407094-01

Prepared: 07/16/14 Analyzed: 07/18/14

Chromium, Hexavalent ND 1.23 mg/kg dry 22.6 ND 80-120

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Arvada CO, 80003

Project: BBC - Epperly 14C-23

Project Number: 0273-14020
Project Manager: Jake Janicek

Reported:
07/19/14 00:46

Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis - Quality Control
Summit Scientific

Analyte	Reporting		Spike Level	Source Result	%REC		RPD		Notes
	Result	Limit			Units	%REC	Limits	RPD	

Batch 1407139 - General Preparation

Blank (1407139-BLK1)

Prepared: 07/17/14 Analyzed: 07/18/14

Calcium	ND	10.0	mg/kg wet						
Magnesium	ND	5.00	"						
Sodium	ND	5.00	"						

LCS (1407139-BS1)

Prepared: 07/17/14 Analyzed: 07/18/14

Calcium	1010	10.0	mg/kg wet	1000	101	80-120			
Magnesium	986	5.00	"	1000	98.6	80-120			
Sodium	991	5.00	"	1000	99.1	80-120			

LCS Dup (1407139-BSD1)

Prepared: 07/17/14 Analyzed: 07/18/14

Calcium	989	10.0	mg/kg wet	1000	98.9	80-120	1.73	20	
Magnesium	975	5.00	"	1000	97.5	80-120	1.16	20	
Sodium	995	5.00	"	1000	99.5	80-120	0.393	20	

Matrix Spike (1407139-MS1)

Source: 1407094-01

Prepared: 07/17/14 Analyzed: 07/18/14

Calcium	2530	10.8	mg/kg dry	1080	1010	141	75-125		QM-07
Magnesium	1500	5.38	"	1080	606	83.6	75-125		
Sodium	1720	5.38	"	1080	747	90.7	75-125		

Matrix Spike Dup (1407139-MSD1)

Source: 1407094-01

Prepared: 07/17/14 Analyzed: 07/18/14

Calcium	2500	10.6	mg/kg dry	1060	1010	140	75-125	1.39	25	QM-07
Magnesium	1350	5.29	"	1060	606	70.2	75-125	10.9	25	QM-07
Sodium	1620	5.29	"	1060	747	82.7	75-125	5.98	25	

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: BBC - Epperly 14C-23

Project Number: 0273-14020
Project Manager: Jake Janicek

Reported:
07/19/14 00:46

Physical Parameters by APHA/ASTM/EPA Methods - Quality Control
Summit Scientific

Analyte	Reporting		Spike Level	Source		%REC		RPD		Notes
	Result	Limit		Units	Result	%REC	Limits	RPD	Limit	

Batch 1407135 - General Preparation

Blank (1407135-BLK1)			Prepared & Analyzed: 07/16/14							
Specific Conductance (EC)	ND	0.0100	mmhos/cm							
Duplicate (1407135-DUP1)			Source: 1407094-02		Prepared & Analyzed: 07/16/14					
Specific Conductance (EC)	0.884	0.0100	mmhos/cm	0.858			3.08	20		

Batch 1407136 - General Preparation

LCS (1407136-BS1)			Prepared & Analyzed: 07/16/14							
pH	8.14	0.100	pH Units	8.00	102	0-200				
Duplicate (1407136-DUP1)			Source: 1407094-02		Prepared & Analyzed: 07/16/14					
pH	8.49	0.100	pH Units	8.58			1.05	20		

Batch 1407137 - General Preparation

Duplicate (1407137-DUP1)			Source: 1407094-01		Prepared & Analyzed: 07/17/14					
% Solids	81.3		%	81.2			0.123	20		

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: BBC - Epperly 14C-23

Project Number: 0273-14020
Project Manager: Jake Janicek

Reported:
07/19/14 00:46

Notes and Definitions

- S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
- E The concentration indicated for this analyte is an estimated value above the calibration range of the instrument.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

July 23, 2014

Jake Janicek

LT Environmental, Inc.

4600 West 60th Avenue

Arvada, CO 80003

RE: BBC - Epperly 14C-23

Enclosed are the results of analyses for samples received by Summit Scientific on 07/22/14 10:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to be 'BS', with a long, sweeping horizontal line extending to the right.

Ben Shrewsbury

President / Laboratory Manager



LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: BBC - Epperly 14C-23

Project Number: 0273-14020
Project Manager: Jake Janicek

Reported:
07/23/14 18:48

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS08	1407131-01	Soil	07/21/14 14:00	07/22/14 10:30
SS03	1407131-02	Soil	07/21/14 14:10	07/22/14 10:30
SS04	1407131-03	Soil	07/21/14 14:15	07/22/14 10:30
SS05	1407131-04	Soil	07/21/14 14:20	07/22/14 10:30
SS06	1407131-05	Soil	07/21/14 14:30	07/22/14 10:30
SS07	1407131-06	Soil	07/21/14 14:35	07/22/14 10:30

Summit Scientific

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: BBC - Epperly 14C-23

Project Number: 0273-14020
Project Manager: Jake Janicek

Reported:
07/23/14 18:48

SS08
1407131-01 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/21/14 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1407175	07/22/14	07/22/14	8015M	

Date Sampled: **07/21/14 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		86.1 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/21/14 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1407174	07/22/14	07/22/14	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **07/21/14 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		116 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		100 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	21-167		"	"	"	"	

Semivolatile Organic Compounds by EPA Method 8270D SIM

Date Sampled: **07/21/14 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	1407178	07/22/14	07/22/14	EPA 8270D SIM	

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: BBC - Epperly 14C-23

Project Number: 0273-14020
Project Manager: Jake Janicek

Reported:
07/23/14 18:48

SS08

1407131-01 (Soil)

Summit Scientific

Semivolatile Organic Compounds by EPA Method 8270D SIM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthylene	ND	0.00500	mg/kg	1	1407178	07/22/14	07/22/14	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
Naphthalene	ND	0.00500	"	"	"	"	"	"	
Phenanthrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: 07/21/14 14:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		76.0 %	50-150		"	"	"	"	
Surrogate: Fluoranthene-d10		65.5 %	50-150		"	"	"	"	

Total Metals by EPA Method 6020 - Dry Weight Basis

Date Sampled: 07/21/14 14:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	6.44	0.109	mg/kg dry	1	1407172	07/22/14	07/22/14	EPA 6020A	
Barium	232	1.09	"	"	"	"	"	"	
Cadmium	0.262	0.109	"	"	"	"	"	"	
Chromium	6.61	1.09	"	"	"	"	"	"	
Copper	8.50	0.543	"	"	"	"	"	"	
Lead	10.5	0.109	"	"	"	"	"	"	
Nickel	9.06	0.543	"	"	"	"	"	"	
Selenium	0.320	0.109	"	"	"	"	"	"	

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: BBC - Epperly 14C-23

Project Number: 0273-14020
Project Manager: Jake Janicek

Reported:
07/23/14 18:48

SS08

1407131-01 (Soil)

Summit Scientific

Total Metals by EPA Method 6020 - Dry Weight Basis

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Silver	ND	0.109	mg/kg dry	1	1407172	07/22/14	07/22/14	EPA 6020A	
Zinc	24.7	10.9	"	"	"	"	"	"	

Total Mercury by EPA Method 7471/7470/245.1

Date Sampled: **07/21/14 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Mercury	0.0772	0.0460	mg/kg dry	1	1407169	07/22/14	07/22/14	EPA 7471	

Hexavalent Chromium by EPA 7196

Date Sampled: **07/21/14 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	1.09	mg/kg dry	1	1407171	07/22/14	07/22/14	EPA 7196	

Calculated Analytes

Date Sampled: **07/21/14 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium+3 Calculated	5.52	1.00	mg/kg	1	1407187	07/23/14	07/23/14	Calculation	

Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **07/21/14 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	1070	10.9	mg/kg dry	1	1407173	07/22/14	07/22/14	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	326	5.43	"	"	"	"	"	"	
Sodium	169	27.1	"	"	"	"	"	"	

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LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO, 80003

Project: BBC - Epperly 14C-23

Project Number: 0273-14020
 Project Manager: Jake Janicek

Reported:
 07/23/14 18:48

SS08

1407131-01 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **07/21/14 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.16		units	1	1407188	07/23/14	07/23/14	EPA 6020/Mod. USDA60 6(2, 3A)	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/21/14 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.509	0.0100	mmhos/cm	1	1407176	07/22/14	07/22/14	SM 2510B	

Date Sampled: **07/21/14 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.08	0.100	pH Units	"	1407177	07/22/14	07/22/14	EPA 9045	

Date Sampled: **07/21/14 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	92.1		%	"	1407186	07/23/14	07/23/14	% calculation	

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Arvada CO, 80003

Project: BBC - Epperly 14C-23

Project Number: 0273-14020
Project Manager: Jake Janicek

Reported:
07/23/14 18:48

SS03

1407131-02 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/21/14 14:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	1300	50	mg/kg	1	1407175	07/22/14	07/22/14	8015M	

Date Sampled: **07/21/14 14:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: o-Terphenyl</i>		95.8 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/21/14 14:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	0.35	0.020	mg/kg	10	1407174	07/22/14	07/22/14	EPA 8260B	
Toluene	0.81	0.050	"	"	"	"	"	"	
Ethylbenzene	0.27	0.050	"	"	"	"	"	"	
Xylenes (total)	13	0.050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	440	5.0	"	"	"	"	"	"	

Date Sampled: **07/21/14 14:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		112 %	23-173		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		84.5 %	20-170		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		141 %	21-167		"	"	"	"	

Semivolatile Organic Compounds by EPA Method 8270D SIM

Date Sampled: **07/21/14 14:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	1407178	07/22/14	07/22/14	EPA 8270D SIM	
Acenaphthylene	ND	0.00500	"	"	"	"	"	"	

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Arvada CO, 80003

Project: BBC - Epperly 14C-23

Project Number: 0273-14020
Project Manager: Jake Janicek

Reported:
07/23/14 18:48

SS03

1407131-02 (Soil)

Summit Scientific

Semivolatile Organic Compounds by EPA Method 8270D SIM

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anthracene	ND	0.00500	mg/kg	1	1407178	07/22/14	07/22/14	EPA 8270D SIM	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	"
Benzo (g,h,i) perylene	ND	0.00500	"	"	"	"	"	"	"
Benzo (a) pyrene	0.0163	0.00500	"	"	"	"	"	"	"
Chrysene	0.0353	0.00500	"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	"
Fluoranthene	ND	0.00500	"	"	"	"	"	"	"
Fluorene	0.165	0.00500	"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	"
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	"
Naphthalene	0.465	0.0500	"	10	"	"	"	"	"
Phenanthrene	0.403	0.0500	"	"	"	"	"	"	"
Pyrene	0.0325	0.00500	"	1	"	"	"	"	"

Date Sampled: **07/21/14 14:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 2-Methylnaphthalene-d10		101 %	50-150		"	"	"	"	
Surrogate: Fluoranthene-d10		86.4 %	50-150		"	"	"	"	

Total Metals by EPA Method 6020 - Dry Weight Basis

Date Sampled: **07/21/14 14:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	8.01	0.113	mg/kg dry	1	1407172	07/22/14	07/22/14	EPA 6020A	
Barium	829	1.13	"	"	"	"	"	"	
Cadmium	0.335	0.113	"	"	"	"	"	"	
Chromium	7.79	1.13	"	"	"	"	"	"	
Copper	9.36	0.566	"	"	"	"	"	"	
Lead	13.6	0.113	"	"	"	"	"	"	
Nickel	10.5	0.566	"	"	"	"	"	"	
Selenium	0.393	0.113	"	"	"	"	"	"	
Silver	ND	0.113	"	"	"	"	"	"	
Zinc	26.6	11.3	"	"	"	"	"	"	

Summit Scientific

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: BBC - Epperly 14C-23

Project Number: 0273-14020
Project Manager: Jake Janicek

Reported:
07/23/14 18:48

SS03

1407131-02 (Soil)

Summit Scientific

Total Metals by EPA Method 6020 - Dry Weight Basis

Total Mercury by EPA Method 7471/7470/245.1

Date Sampled: **07/21/14 14:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Mercury	0.0690	0.0566	mg/kg dry	1	1407169	07/22/14	07/22/14	EPA 7471	

Hexavalent Chromium by EPA 7196

Date Sampled: **07/21/14 14:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	1.13	mg/kg dry	1	1407171	07/22/14	07/22/14	EPA 7196	

Calculated Analytes

Date Sampled: **07/21/14 14:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium+3 Calculated	6.66	1.00	mg/kg	1	1407187	07/23/14	07/23/14	Calculation	

Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **07/21/14 14:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	1150	11.3	mg/kg dry	1	1407173	07/22/14	07/22/14	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	480	5.66	"	"	"	"	"	"	
Sodium	365	28.3	"	"	"	"	"	"	

Date Sampled: **07/21/14 14:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.28		units	"	1407188	07/23/14	07/23/14	"	

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LT Environmental, Inc.
 4600 West 60th Avenue
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Project: BBC - Epperly 14C-23

Project Number: 0273-14020
 Project Manager: Jake Janicek

Reported:
 07/23/14 18:48

SS03

1407131-02 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/21/14 14:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.710	0.0100	mmhos/cm	1	1407176	07/22/14	07/22/14	SM 2510B	

Date Sampled: **07/21/14 14:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.79	0.100	pH Units	"	1407177	07/22/14	07/22/14	EPA 9045	

Date Sampled: **07/21/14 14:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.4		%	"	1407186	07/23/14	07/23/14	% calculation	

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Project: BBC - Epperly 14C-23

Project Number: 0273-14020
Project Manager: Jake Janicek

Reported:
07/23/14 18:48

SS04

1407131-03 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/21/14 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	410	50	mg/kg	1	1407175	07/22/14	07/22/14	8015M	

Date Sampled: **07/21/14 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		116 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/21/14 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1407174	07/22/14	07/22/14	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **07/21/14 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		134 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		100 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		107 %	21-167		"	"	"	"	

Semivolatile Organic Compounds by EPA Method 8270D SIM

Date Sampled: **07/21/14 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	1407178	07/22/14	07/22/14	EPA 8270D SIM	
Acenaphthylene	ND	0.00500	"	"	"	"	"	"	

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LT Environmental, Inc.
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Project: BBC - Epperly 14C-23

Project Number: 0273-14020
Project Manager: Jake Janicek

Reported:
07/23/14 18:48

SS04

1407131-03 (Soil)

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Semivolatile Organic Compounds by EPA Method 8270D SIM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anthracene	ND	0.00500	mg/kg	1	1407178	07/22/14	07/22/14	EPA 8270D SIM	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	"
Benzo (g,h,i) perylene	ND	0.00500	"	"	"	"	"	"	"
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	"
Chrysene	ND	0.00500	"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	"
Fluoranthene	ND	0.00500	"	"	"	"	"	"	"
Fluorene	ND	0.00500	"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	"
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	"
Naphthalene	ND	0.00500	"	"	"	"	"	"	"
Phenanthrene	ND	0.00500	"	"	"	"	"	"	"
Pyrene	ND	0.00500	"	"	"	"	"	"	"

Date Sampled: 07/21/14 14:15

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		76.1 %	50-150		"	"	"	"	
Surrogate: Fluoranthene-d10		60.9 %	50-150		"	"	"	"	

Total Metals by EPA Method 6020 - Dry Weight Basis

Date Sampled: 07/21/14 14:15

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	11.5	0.102	mg/kg dry	1	1407172	07/22/14	07/22/14	EPA 6020A	
Barium	324	1.02	"	"	"	"	"	"	
Cadmium	0.279	0.102	"	"	"	"	"	"	
Chromium	6.25	1.02	"	"	"	"	"	"	
Copper	7.16	0.511	"	"	"	"	"	"	
Lead	13.1	0.102	"	"	"	"	"	"	
Nickel	7.71	0.511	"	"	"	"	"	"	
Selenium	0.309	0.102	"	"	"	"	"	"	
Silver	ND	0.102	"	"	"	"	"	"	

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Project: BBC - Epperly 14C-23

Project Number: 0273-14020
Project Manager: Jake Janicek

Reported:
07/23/14 18:48

SS04

1407131-03 (Soil)

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Total Metals by EPA Method 6020 - Dry Weight Basis

Zinc	22.3	10.2 mg/kg dry	1	1407172	07/22/14	07/22/14	EPA 6020A
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Total Mercury by EPA Method 7471/7470/245.1

Date Sampled: **07/21/14 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Mercury	0.0695	0.0511	mg/kg dry	1	1407169	07/22/14	07/22/14	EPA 7471	

Hexavalent Chromium by EPA 7196

Date Sampled: **07/21/14 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	1.02	mg/kg dry	1	1407171	07/22/14	07/22/14	EPA 7196	

Calculated Analytes

Date Sampled: **07/21/14 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium+3 Calculated	5.23	1.00	mg/kg	1	1407187	07/23/14	07/23/14	Calculation	

Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **07/21/14 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	657	10.2	mg/kg dry	1	1407173	07/22/14	07/22/14	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	134	5.11	"	"	"	"	"	"	
Sodium	186	25.5	"	"	"	"	"	"	

Date Sampled: **07/21/14 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: BBC - Epperly 14C-23

Project Number: 0273-14020
Project Manager: Jake Janicek

Reported:
07/23/14 18:48

SS04

1407131-03 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis

Sodium Adsorption Ratio	1.73	units	1	1407188	07/23/14	07/23/14	EPA 6020/Mod. USDA60 6(2, 3A)
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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/21/14 14:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	0.675	0.0100	mmhos/cm	1	1407176	07/22/14	07/22/14	SM 2510B	

Date Sampled: **07/21/14 14:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	8.50	0.100	pH Units	"	1407177	07/22/14	07/22/14	EPA 9045	

Date Sampled: **07/21/14 14:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	97.9		%	"	1407186	07/23/14	07/23/14	% calculation	

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Project: BBC - Epperly 14C-23

Project Number: 0273-14020
Project Manager: Jake Janicek

Reported:
07/23/14 18:48

SS05

1407131-04 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/21/14 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	110	50	mg/kg	1	1407175	07/22/14	07/22/14	8015M	

Date Sampled: **07/21/14 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: o-Terphenyl</i>		99.9 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/21/14 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0018	mg/kg	1	1407174	07/22/14	07/22/14	EPA 8260B	
Toluene	ND	0.0045	"	"	"	"	"	"	
Ethylbenzene	ND	0.0045	"	"	"	"	"	"	
Xylenes (total)	ND	0.0045	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.45	"	"	"	"	"	"	

Date Sampled: **07/21/14 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		129 %	23-173		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		99.4 %	20-170		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		107 %	21-167		"	"	"	"	

Semivolatile Organic Compounds by EPA Method 8270D SIM

Date Sampled: **07/21/14 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	1407178	07/22/14	07/23/14	EPA 8270D SIM	
Acenaphthylene	ND	0.00500	"	"	"	"	"	"	

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Project: BBC - Epperly 14C-23

Project Number: 0273-14020
Project Manager: Jake Janicek

Reported:
07/23/14 18:48

SS05

1407131-04 (Soil)

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Semivolatile Organic Compounds by EPA Method 8270D SIM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anthracene	ND	0.00500	mg/kg	1	1407178	07/22/14	07/23/14	EPA 8270D SIM	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
Naphthalene	ND	0.00500	"	"	"	"	"	"	
Phenanthrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **07/21/14 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		75.7 %	50-150		"	"	"	"	
Surrogate: Fluoranthene-d10		62.0 %	50-150		"	"	"	"	

Total Metals by EPA Method 6020 - Dry Weight Basis

Date Sampled: **07/21/14 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	12.4	0.103	mg/kg dry	1	1407172	07/22/14	07/22/14	EPA 6020A	
Barium	580	1.03	"	"	"	"	"	"	
Cadmium	0.353	0.103	"	"	"	"	"	"	
Chromium	6.31	1.03	"	"	"	"	"	"	
Copper	8.27	0.515	"	"	"	"	"	"	
Lead	14.5	0.103	"	"	"	"	"	"	
Nickel	9.17	0.515	"	"	"	"	"	"	
Selenium	0.245	0.103	"	"	"	"	"	"	
Silver	ND	0.103	"	"	"	"	"	"	

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Project: BBC - Epperly 14C-23

Project Number: 0273-14020
Project Manager: Jake Janicek

Reported:
07/23/14 18:48

SS05

1407131-04 (Soil)

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Total Metals by EPA Method 6020 - Dry Weight Basis

Zinc	23.7	10.3 mg/kg dry	1	1407172	07/22/14	07/22/14	EPA 6020A
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Total Mercury by EPA Method 7471/7470/245.1

Date Sampled: **07/21/14 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Mercury	0.110	0.0444	mg/kg dry	1	1407169	07/22/14	07/22/14	EPA 7471	

Hexavalent Chromium by EPA 7196

Date Sampled: **07/21/14 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	1.03	mg/kg dry	1	1407171	07/22/14	07/22/14	EPA 7196	

Calculated Analytes

Date Sampled: **07/21/14 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium+3 Calculated	5.28	1.00	mg/kg	1	1407187	07/23/14	07/23/14	Calculation	

Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **07/21/14 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	872	10.3	mg/kg dry	1	1407173	07/22/14	07/22/14	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	256	5.15	"	"	"	"	"	"	
Sodium	361	25.7	"	"	"	"	"	"	

Date Sampled: **07/21/14 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project Number: 0273-14020
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Reported:
07/23/14 18:48

SS05

1407131-04 (Soil)

Summit Scientific

Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis

Sodium Adsorption Ratio	2.76	units	1	1407188	07/23/14	07/23/14	EPA 6020/Mod. USDA60 6(2, 3A)
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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/21/14 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.96	0.0100	mmhos/cm	1	1407176	07/22/14	07/22/14	SM 2510B	

Date Sampled: **07/21/14 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.38	0.100	pH Units	"	1407177	07/22/14	07/22/14	EPA 9045	

Date Sampled: **07/21/14 14:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	97.1		%	"	1407186	07/23/14	07/23/14	% calculation	

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Project: BBC - Epperly 14C-23

Project Number: 0273-14020
Project Manager: Jake Janicek

Reported:
07/23/14 18:48

SS06

1407131-05 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/21/14 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	180	50	mg/kg	1	1407175	07/22/14	07/22/14	8015M	

Date Sampled: **07/21/14 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: o-Terphenyl</i>		105 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/21/14 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1407174	07/22/14	07/22/14	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.050	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	0.69	0.50	"	"	"	"	"	"	

Date Sampled: **07/21/14 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		128 %	23-173		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		98.8 %	20-170		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		106 %	21-167		"	"	"	"	

Semivolatile Organic Compounds by EPA Method 8270D SIM

Date Sampled: **07/21/14 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	1407178	07/22/14	07/23/14	EPA 8270D SIM	
Acenaphthylene	ND	0.00500	"	"	"	"	"	"	

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Project Number: 0273-14020
Project Manager: Jake Janicek

Reported:
07/23/14 18:48

SS06

1407131-05 (Soil)

Summit Scientific

Semivolatile Organic Compounds by EPA Method 8270D SIM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anthracene	ND	0.00500	mg/kg	1	1407178	07/22/14	07/23/14	EPA 8270D SIM	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	0.0127	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
Naphthalene	ND	0.00500	"	"	"	"	"	"	
Phenanthrene	0.0182	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **07/21/14 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		72.6 %	50-150		"	"	"	"	
Surrogate: Fluoranthene-d10		58.6 %	50-150		"	"	"	"	

Total Metals by EPA Method 6020 - Dry Weight Basis

Date Sampled: **07/21/14 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	9.51	0.101	mg/kg dry	1	1407172	07/22/14	07/22/14	EPA 6020A	
Barium	453	1.01	"	"	"	"	"	"	
Cadmium	0.323	0.101	"	"	"	"	"	"	
Chromium	6.61	1.01	"	"	"	"	"	"	
Copper	7.41	0.506	"	"	"	"	"	"	
Lead	12.7	0.101	"	"	"	"	"	"	
Nickel	12.6	0.506	"	"	"	"	"	"	
Selenium	0.301	0.101	"	"	"	"	"	"	
Silver	ND	0.101	"	"	"	"	"	"	

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4600 West 60th Avenue
Arvada CO, 80003

Project: BBC - Epperly 14C-23

Project Number: 0273-14020
Project Manager: Jake Janicek

Reported:
07/23/14 18:48

SS06
1407131-05 (Soil)

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Total Metals by EPA Method 6020 - Dry Weight Basis

Zinc	22.4	10.1 mg/kg dry	1	1407172	07/22/14	07/22/14	EPA 6020A
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Total Mercury by EPA Method 7471/7470/245.1

Date Sampled: **07/21/14 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Mercury	0.0876	0.0460	mg/kg dry	1	1407169	07/22/14	07/22/14	EPA 7471	

Hexavalent Chromium by EPA 7196

Date Sampled: **07/21/14 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	1.01	mg/kg dry	1	1407171	07/22/14	07/22/14	EPA 7196	

Calculated Analytes

Date Sampled: **07/21/14 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium+3 Calculated	5.60	1.00	mg/kg	1	1407187	07/23/14	07/23/14	Calculation	

Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **07/21/14 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	553	10.1	mg/kg dry	1	1407173	07/22/14	07/22/14	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	126	5.06	"	"	"	"	"	"	
Sodium	246	25.3	"	"	"	"	"	"	

Date Sampled: **07/21/14 14:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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 Project Manager: Jake Janicek

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1407131-05 (Soil)

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Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis

Sodium Adsorption Ratio	2.46	units	1	1407188	07/23/14	07/23/14	EPA 6020/Mod. USDA60 6(2, 3A)
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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/21/14 14:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	0.804	0.0100	mmhos/cm	1	1407176	07/22/14	07/22/14	SM 2510B	

Date Sampled: **07/21/14 14:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	8.82	0.100	pH Units	"	1407177	07/22/14	07/22/14	EPA 9045	

Date Sampled: **07/21/14 14:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	98.9		%	"	1407186	07/23/14	07/23/14	% calculation	

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Project: BBC - Epperly 14C-23

Project Number: 0273-14020
Project Manager: Jake Janicek

Reported:
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SS07

1407131-06 (Soil)

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Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **07/21/14 14:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	110	50	mg/kg	1	1407175	07/22/14	07/22/14	8015M	

Date Sampled: **07/21/14 14:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		109 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/21/14 14:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1407174	07/22/14	07/22/14	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **07/21/14 14:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		129 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		98.9 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %	21-167		"	"	"	"	

Semivolatile Organic Compounds by EPA Method 8270D SIM

Date Sampled: **07/21/14 14:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	1407178	07/22/14	07/23/14	EPA 8270D SIM	
Acenaphthylene	ND	0.00500	"	"	"	"	"	"	

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1407131-06 (Soil)

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Semivolatile Organic Compounds by EPA Method 8270D SIM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anthracene	ND	0.00500	mg/kg	1	1407178	07/22/14	07/23/14	EPA 8270D SIM	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	"
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	"
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	"
Benzo (g,h,i) perylene	ND	0.00500	"	"	"	"	"	"	"
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	"
Chrysene	ND	0.00500	"	"	"	"	"	"	"
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	"
Fluoranthene	ND	0.00500	"	"	"	"	"	"	"
Fluorene	ND	0.00500	"	"	"	"	"	"	"
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	"
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	"
Naphthalene	ND	0.00500	"	"	"	"	"	"	"
Phenanthrene	ND	0.00500	"	"	"	"	"	"	"
Pyrene	ND	0.00500	"	"	"	"	"	"	"

Date Sampled: 07/21/14 14:35

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		75.9 %	50-150		"	"	"	"	
Surrogate: Fluoranthene-d10		55.2 %	50-150		"	"	"	"	

Total Metals by EPA Method 6020 - Dry Weight Basis

Date Sampled: 07/21/14 14:35

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	7.01	0.102	mg/kg dry	1	1407172	07/22/14	07/22/14	EPA 6020A	
Barium	594	1.02	"	"	"	"	"	"	
Cadmium	0.263	0.102	"	"	"	"	"	"	
Chromium	7.43	1.02	"	"	"	"	"	"	
Copper	7.50	0.508	"	"	"	"	"	"	
Lead	11.7	0.102	"	"	"	"	"	"	
Nickel	8.96	0.508	"	"	"	"	"	"	
Selenium	0.250	0.102	"	"	"	"	"	"	
Silver	ND	0.102	"	"	"	"	"	"	

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Project: BBC - Epperly 14C-23

Project Number: 0273-14020
Project Manager: Jake Janicek

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1407131-06 (Soil)

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Total Metals by EPA Method 6020 - Dry Weight Basis

Zinc	22.3	10.2 mg/kg dry	1	1407172	07/22/14	07/22/14	EPA 6020A
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Total Mercury by EPA Method 7471/7470/245.1

Date Sampled: **07/21/14 14:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Mercury	0.0705	0.0508	mg/kg dry	1	1407169	07/22/14	07/22/14	EPA 7471	

Hexavalent Chromium by EPA 7196

Date Sampled: **07/21/14 14:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	1.02	mg/kg dry	1	1407171	07/22/14	07/22/14	EPA 7196	

Calculated Analytes

Date Sampled: **07/21/14 14:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium+3 Calculated	6.41	1.00	mg/kg	1	1407187	07/23/14	07/23/14	Calculation	

Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **07/21/14 14:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	511	10.2	mg/kg dry	1	1407173	07/22/14	07/22/14	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	126	5.08	"	"	"	"	"	"	
Sodium	175	25.4	"	"	"	"	"	"	

Date Sampled: **07/21/14 14:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project: BBC - Epperly 14C-23

Project Number: 0273-14020
 Project Manager: Jake Janicek

Reported:
 07/23/14 18:48

SS07

1407131-06 (Soil)

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Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis

Sodium Adsorption Ratio	1.80	units	1	1407188	07/23/14	07/23/14	EPA 6020/Mod. USDA60 6(2, 3A)
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Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/21/14 14:35**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	0.687	0.0100	mmhos/cm	1	1407176	07/22/14	07/22/14	SM 2510B	

Date Sampled: **07/21/14 14:35**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	8.89	0.100	pH Units	"	1407177	07/22/14	07/22/14	EPA 9045	

Date Sampled: **07/21/14 14:35**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
% Solids	98.4		%	"	1407186	07/23/14	07/23/14	% calculation	

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Project: BBC - Epperly 14C-23

Project Number: 0273-14020
Project Manager: Jake Janicek

Reported:
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Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 1407175 - EPA 3550A

Blank (1407175-BLK1)

Prepared & Analyzed: 07/22/14

C10-C28 (DRO) ND 50 mg/kg

LCS (1407175-BS1)

Prepared & Analyzed: 07/22/14

C10-C28 (DRO) 534 50 mg/kg 501 107 73-134

Matrix Spike (1407175-MS1)

Source: 1407132-01

Prepared & Analyzed: 07/22/14

C10-C28 (DRO) 506 50 mg/kg 486 ND 104 50-148

Matrix Spike Dup (1407175-MSD1)

Source: 1407132-01

Prepared & Analyzed: 07/22/14

C10-C28 (DRO) 515 50 mg/kg 488 ND 105 50-148 1.77 13

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Project: BBC - Epperly 14C-23

Project Number: 0273-14020
Project Manager: Jake Janicek

Reported:
07/23/14 18:48

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 1407174 - EPA 5030 Soil MS

Blank (1407174-BLK1)

Prepared & Analyzed: 07/22/14

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.0050	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0479		"	0.0397		121	23-173			
Surrogate: Toluene-d8	0.0387		"	0.0400		96.8	20-170			
Surrogate: 4-Bromofluorobenzene	0.0419		"	0.0400		105	21-167			

LCS (1407174-BS1)

Prepared & Analyzed: 07/22/14

Benzene	0.0988	0.0020	mg/kg	0.100		98.8	58-130			
Toluene	0.104	0.0050	"	0.100		104	61-134			
Ethylbenzene	0.106	0.0050	"	0.0992		107	74-139			
m,p-Xylene	0.218	0.010	"	0.200		109	73-137			
o-Xylene	0.106	0.0050	"	0.0984		108	73-141			
Surrogate: 1,2-Dichloroethane-d4	0.0467		"	0.0397		118	23-173			
Surrogate: Toluene-d8	0.0392		"	0.0400		97.9	20-170			
Surrogate: 4-Bromofluorobenzene	0.0407		"	0.0400		102	21-167			

Matrix Spike (1407174-MS1)

Source: 1407131-01

Prepared & Analyzed: 07/22/14

Benzene	0.0985	0.0020	mg/kg	0.0978	ND	101	30-131			
Toluene	0.0999	0.0050	"	0.0978	ND	102	30-134			
Ethylbenzene	0.101	0.0050	"	0.0971	ND	105	22-153			
m,p-Xylene	0.208	0.010	"	0.195	ND	106	10-159			
o-Xylene	0.104	0.0050	"	0.0963	ND	108	31-151			
Surrogate: 1,2-Dichloroethane-d4	0.0489		"	0.0388		126	23-173			
Surrogate: Toluene-d8	0.0389		"	0.0391		99.4	20-170			
Surrogate: 4-Bromofluorobenzene	0.0409		"	0.0391		104	21-167			

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Project: BBC - Epperly 14C-23

Project Number: 0273-14020
Project Manager: Jake Janicek

Reported:
07/23/14 18:48

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 1407174 - EPA 5030 Soil MS

Matrix Spike Dup (1407174-MSD1)	Source: 1407131-01			Prepared & Analyzed: 07/22/14						
Benzene	0.0900	0.0020	mg/kg	0.0940	ND	95.8	30-131	9.00	34	
Toluene	0.0920	0.0050	"	0.0940	ND	97.9	30-134	8.19	30	
Ethylbenzene	0.0908	0.0050	"	0.0932	ND	97.4	22-153	11.1	24	
m,p-Xylene	0.191	0.010	"	0.188	ND	102	10-159	8.15	68	
o-Xylene	0.0943	0.0050	"	0.0925	ND	102	31-151	9.54	38	
Surrogate: 1,2-Dichloroethane-d4	0.0468		"	0.0373		125	23-173			
Surrogate: Toluene-d8	0.0372		"	0.0376		99.1	20-170			
Surrogate: 4-Bromofluorobenzene	0.0374		"	0.0376		99.5	21-167			

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Project Number: 0273-14020
Project Manager: Jake Janicek

Reported:
07/23/14 18:48

Semivolatile Organic Compounds by EPA Method 8270D SIM - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 1407178 - EPA 5030 Soil MS

Blank (1407178-BLK1)

Prepared & Analyzed: 07/22/14

Acenaphthene	ND	0.00500	mg/kg							
Acenaphthylene	ND	0.00500	"							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Benzo (g,h,i) perylene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Naphthalene	ND	0.00500	"							
Phenanthrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0251</i>		<i>"</i>	<i>0.0346</i>	<i>72.6</i>	<i>50-150</i>				
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0243</i>		<i>"</i>	<i>0.0348</i>	<i>69.9</i>	<i>50-150</i>				

LCS (1407178-BS1)

Prepared & Analyzed: 07/22/14

Acenaphthene	0.0286	0.00500	mg/kg	0.0333	85.7	50-150				
Acenaphthylene	0.0283	0.00500	"	0.0333	84.9	50-150				
Anthracene	0.0274	0.00500	"	0.0333	82.2	50-150				
Benzo (a) anthracene	0.0306	0.00500	"	0.0333	91.7	50-150				
Benzo (b) fluoranthene	0.0314	0.00500	"	0.0333	94.1	50-150				
Benzo (k) fluoranthene	0.0301	0.00500	"	0.0333	90.2	50-150				
Benzo (g,h,i) perylene	0.0337	0.00500	"	0.0333	101	50-150				
Benzo (a) pyrene	0.0315	0.00500	"	0.0333	94.6	50-150				
Chrysene	0.0295	0.00500	"	0.0333	88.6	50-150				
Dibenz (a,h) anthracene	0.0314	0.00500	"	0.0333	94.3	50-150				
Fluoranthene	0.0272	0.00500	"	0.0333	81.5	50-150				
Fluorene	0.0305	0.00500	"	0.0333	91.6	50-150				
Indeno (1,2,3-cd) pyrene	0.0328	0.00500	"	0.0333	98.3	50-150				
2-Methylnaphthalene	0.0300	0.00500	"	0.0332	90.3	0-200				
Naphthalene	0.0281	0.00500	"	0.0333	84.2	50-150				
Phenanthrene	0.0304	0.00500	"	0.0333	91.2	50-150				
Pyrene	0.0323	0.00500	"	0.0333	96.8	50-150				

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Project: BBC - Epperly 14C-23

Project Number: 0273-14020
Project Manager: Jake Janicek

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Semivolatile Organic Compounds by EPA Method 8270D SIM - Quality Control
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Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 1407178 - EPA 5030 Soil MS

LCS (1407178-BS1)

Prepared & Analyzed: 07/22/14

Surrogate: 2-Methylnaphthalene-d10	0.0272		mg/kg	0.0346		78.7	50-150		
Surrogate: Fluoranthene-d10	0.0251		"	0.0348		72.2	50-150		

Duplicate (1407178-DUP1)

Source: 1407131-03

Prepared & Analyzed: 07/22/14

Acenaphthene	ND	0.00500	mg/kg		ND				200
Acenaphthylene	ND	0.00500	"		ND				200
Anthracene	ND	0.00500	"		ND				200
Benzo (a) anthracene	ND	0.00500	"		ND				200
Benzo (b) fluoranthene	ND	0.00500	"		ND				200
Benzo (k) fluoranthene	ND	0.00500	"		ND				200
Benzo (g,h,i) perylene	ND	0.00500	"		ND				200
Benzo (a) pyrene	ND	0.00500	"		ND				200
Chrysene	ND	0.00500	"		ND				200
Dibenz (a,h) anthracene	ND	0.00500	"		ND				200
Fluoranthene	ND	0.00500	"		ND				200
Fluorene	ND	0.00500	"		ND				200
Indeno (1,2,3-cd) pyrene	ND	0.00500	"		ND				200
2-Methylnaphthalene	ND	0.00500	"		ND				200
Naphthalene	ND	0.00500	"		ND				200
Phenanthrene	ND	0.00500	"		ND				200
Pyrene	ND	0.00500	"		ND				200

Surrogate: 2-Methylnaphthalene-d10	0.0262		"	0.0346		75.7	50-150		
Surrogate: Fluoranthene-d10	0.0234		"	0.0348		67.2	50-150		

Matrix Spike (1407178-MS1)

Source: 1407131-01

Prepared & Analyzed: 07/22/14

Acenaphthene	0.0285	0.00500	mg/kg	0.0333	ND	85.4	50-150		
Acenaphthylene	0.0282	0.00500	"	0.0333	ND	84.5	50-150		
Anthracene	0.0253	0.00500	"	0.0333	ND	75.8	50-150		
Benzo (a) anthracene	0.0301	0.00500	"	0.0333	ND	90.4	50-150		
Benzo (b) fluoranthene	0.0303	0.00500	"	0.0333	ND	90.9	50-150		
Benzo (k) fluoranthene	0.0275	0.00500	"	0.0333	ND	82.4	50-150		
Benzo (g,h,i) perylene	0.0310	0.00500	"	0.0333	ND	93.0	50-150		
Benzo (a) pyrene	0.0295	0.00500	"	0.0333	ND	88.6	50-150		
Chrysene	0.0281	0.00500	"	0.0333	ND	84.2	50-150		
Dibenz (a,h) anthracene	0.0292	0.00500	"	0.0333	ND	87.6	50-150		
Fluoranthene	0.0259	0.00500	"	0.0333	ND	77.6	50-150		
Fluorene	0.0309	0.00500	"	0.0333	ND	92.8	50-150		
Indeno (1,2,3-cd) pyrene	0.0304	0.00500	"	0.0333	ND	91.2	50-150		

Summit Scientific

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LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO, 80003

Project: BBC - Epperly 14C-23

Project Number: 0273-14020
 Project Manager: Jake Janicek

Reported:
 07/23/14 18:48

Semivolatile Organic Compounds by EPA Method 8270D SIM - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 1407178 - EPA 5030 Soil MS

Matrix Spike (1407178-MS1)	Source: 1407131-01			Prepared & Analyzed: 07/22/14						
2-Methylnaphthalene	0.0287	0.00500	mg/kg	0.0332	ND	86.4	0-200			
Naphthalene	0.0279	0.00500	"	0.0333	ND	83.8	50-150			
Phenanthrene	0.0318	0.00500	"	0.0333	ND	95.5	50-150			
Pyrene	0.0329	0.00500	"	0.0333	ND	98.6	50-150			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0278</i>		<i>"</i>	<i>0.0346</i>		<i>80.3</i>	<i>50-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0240</i>		<i>"</i>	<i>0.0348</i>		<i>69.0</i>	<i>50-150</i>			

Summit Scientific

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: BBC - Epperly 14C-23

Project Number: 0273-14020
Project Manager: Jake Janicek

Reported:
07/23/14 18:48

Total Metals by EPA Method 6020 - Dry Weight Basis - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 1407172 - EPA 3050B

Blank (1407172-BLK1)

Prepared & Analyzed: 07/22/14

Arsenic	ND	0.100	mg/kg wet							
Barium	ND	1.00	"							
Cadmium	ND	0.100	"							
Chromium	ND	1.00	"							
Copper	ND	0.500	"							
Lead	ND	0.100	"							
Nickel	ND	0.500	"							
Selenium	ND	0.100	"							
Silver	ND	0.100	"							
Zinc	ND	10.0	"							

LCS (1407172-BS1)

Prepared & Analyzed: 07/22/14

Arsenic	5.82	0.125	mg/kg wet	5.00		116	80-120			
Barium	56.6	1.25	"	50.0		113	80-120			
Cadmium	0.588	0.125	"	0.500		118	80-120			
Chromium	60.0	1.25	"	50.0		120	80-120			
Copper	5.16	0.625	"	5.00		103	80-120			
Lead	6.35	0.125	"	5.00		127	80-120			
Nickel	6.16	0.625	"	5.00		123	80-120			
Selenium	4.97	0.125	"	5.00		99.4	80-120			
Silver	0.682	0.125	"	0.500		136	80-120			
Zinc	58.8	12.5	"	50.0		118	80-120			

Matrix Spike (1407172-MS1)

Source: 1407131-01

Prepared & Analyzed: 07/22/14

Arsenic	11.1	0.109	mg/kg dry	4.34	6.44	108	75-125			
Barium	287	1.09	"	43.4	232	129	75-125			QM-07
Cadmium	0.784	0.109	"	0.434	0.262	120	75-125			
Chromium	54.4	1.09	"	43.4	6.61	110	75-125			
Copper	13.2	0.543	"	4.34	8.50	109	75-125			
Lead	17.0	0.109	"	4.34	10.5	149	75-125			QM-07
Nickel	14.3	0.543	"	4.34	9.06	121	75-125			
Selenium	4.39	0.109	"	4.34	0.320	93.8	75-125			
Silver	0.621	0.109	"	0.434	0.0551	130	75-125			QM-07
Zinc	59.5	10.9	"	43.4	24.7	80.2	75-125			

Summit Scientific

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LT Environmental, Inc.
 4600 West 60th Avenue
 Arvada CO, 80003

Project: BBC - Epperly 14C-23

Project Number: 0273-14020
 Project Manager: Jake Janicek

Reported:
 07/23/14 18:48

Total Metals by EPA Method 6020 - Dry Weight Basis - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 1407172 - EPA 3050B

Matrix Spike Dup (1407172-MSD1)	Source: 1407131-01			Prepared & Analyzed: 07/22/14						
Arsenic	9.81	0.109	mg/kg dry	4.21	6.44	80.0	75-125	12.7	25	
Barium	242	1.09	"	42.1	232	25.3	75-125	17.1	25	QM-07
Cadmium	0.947	0.109	"	0.421	0.262	163	75-125	18.8	25	QM-07
Chromium	45.6	1.09	"	42.1	6.61	92.7	75-125	17.5	25	
Copper	10.8	0.543	"	4.21	8.50	54.6	75-125	20.3	25	QM-07
Lead	14.6	0.109	"	4.21	10.5	95.6	75-125	15.5	25	
Nickel	11.9	0.543	"	4.21	9.06	67.2	75-125	18.5	25	QM-07
Selenium	3.93	0.109	"	4.21	0.320	85.7	75-125	11.3	25	
Silver	0.536	0.109	"	0.421	0.0551	114	75-125	14.7	25	
Zinc	51.6	10.9	"	42.1	24.7	63.9	75-125	14.3	25	QM-07

Summit Scientific

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: BBC - Epperly 14C-23

Project Number: 0273-14020
Project Manager: Jake Janicek

Reported:
07/23/14 18:48

Total Mercury by EPA Method 7471/7470/245.1 - Quality Control
Summit Scientific

Analyte	Result	Reporting		Spike Level	Source		%REC		RPD		Notes
		Limit	Units		Result	%REC	Limits	RPD	Limit		

Batch 1407169 - EPA 7471A

Blank (1407169-BLK1)

Prepared: 07/21/14 Analyzed: 07/22/14

Mercury ND 0.0500 mg/kg wet

LCS (1407169-BS1)

Prepared: 07/21/14 Analyzed: 07/22/14

Mercury 0.527 0.0500 mg/kg wet 0.500 105 80-120

Matrix Spike (1407169-MS1)

Source: 1407101-01

Prepared: 07/21/14 Analyzed: 07/22/14

Mercury 0.823 0.0580 mg/kg dry 0.548 0.285 98.3 80-120

Matrix Spike Dup (1407169-MSD1)

Source: 1407101-01

Prepared: 07/21/14 Analyzed: 07/22/14

Mercury 0.901 0.0580 mg/kg dry 0.578 0.285 107 80-120 9.03 20

Summit Scientific

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: BBC - Epperly 14C-23

Project Number: 0273-14020
Project Manager: Jake Janicek

Reported:
07/23/14 18:48

Hexavalent Chromium by EPA 7196 - Quality Control
Summit Scientific

Analyte	Result	Reporting		Spike	Source		%REC		RPD		Notes
		Limit	Units	Level	Result	%REC	Limits	RPD	Limit		

Batch 1407171 - 3060A_Mod

Blank (1407171-BLK1)		Prepared & Analyzed: 07/22/14									
Chromium, Hexavalent	ND	1.00	mg/kg wet								
LCS (1407171-BS1)		Prepared & Analyzed: 07/22/14									
Chromium, Hexavalent	20.7	1.00	mg/kg wet	20.0	104	80-120					
LCS Dup (1407171-BSD1)		Prepared & Analyzed: 07/22/14									
Chromium, Hexavalent	23.0	1.00	mg/kg wet	20.0	115	80-120	10.4	20			
Matrix Spike (1407171-MS1)		Source: 1407131-01		Prepared & Analyzed: 07/22/14							
Chromium, Hexavalent	16.4	1.09	mg/kg dry	21.7	ND	75.5	80-120				QM-07
Matrix Spike Dup (1407171-MSD1)		Source: 1407131-01		Prepared & Analyzed: 07/22/14							
Chromium, Hexavalent	14.9	1.09	mg/kg dry	21.2	ND	70.1	80-120	9.53	20		QM-07

Summit Scientific

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: BBC - Epperly 14C-23

Project Number: 0273-14020
Project Manager: Jake Janicek

Reported:
07/23/14 18:48

Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit		

Batch 1407173 - General Preparation

Blank (1407173-BLK1)

Prepared & Analyzed: 07/22/14

Calcium	ND	10.0	mg/kg wet
Magnesium	ND	5.00	"
Sodium	ND	25.0	"

LCS (1407173-BS1)

Prepared & Analyzed: 07/22/14

Calcium	932	10.0	mg/kg wet	1000	93.2	80-120
Magnesium	930	5.00	"	1000	93.0	80-120
Sodium	1010	25.0	"	1000	101	80-120

Matrix Spike (1407173-MS1)

Source: 1407131-01

Prepared & Analyzed: 07/22/14

Calcium	1530	10.9	mg/kg dry	998	1070	46.0	75-125			QM-07
Magnesium	940	5.43	"	998	326	61.6	75-125			QM-07
Sodium	941	27.1	"	998	169	77.3	75-125			

Matrix Spike Dup (1407173-MSD1)

Source: 1407131-01

Prepared & Analyzed: 07/22/14

Calcium	1890	10.9	mg/kg dry	1020	1070	80.2	75-125	21.1	25	
Magnesium	1040	5.43	"	1020	326	70.1	75-125	10.2	25	QM-07
Sodium	934	27.1	"	1020	169	74.8	75-125	0.662	25	QM-07

Summit Scientific

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: BBC - Epperly 14C-23

Project Number: 0273-14020
Project Manager: Jake Janicek

Reported:
07/23/14 18:48

Physical Parameters by APHA/ASTM/EPA Methods - Quality Control
Summit Scientific

Analyte	Reporting		Spike Level	Source		%REC		RPD		Notes
	Result	Limit		Units	Result	%REC	Limits	RPD	Limit	

Batch 1407176 - General Preparation

Blank (1407176-BLK1)			Prepared & Analyzed: 07/22/14							
Specific Conductance (EC)	ND	0.0100	mmhos/cm							
Duplicate (1407176-DUP1)			Source: 1407131-01		Prepared & Analyzed: 07/22/14					
Specific Conductance (EC)	0.536	0.0100	mmhos/cm	0.509	5.21	20				

Batch 1407177 - General Preparation

LCS (1407177-BS1)			Prepared & Analyzed: 07/22/14							
pH	8.06	0.100	pH Units	8.00	101	0-200				
Duplicate (1407177-DUP1)			Source: 1407131-01		Prepared & Analyzed: 07/22/14					
pH	9.06	0.100	pH Units	9.08	0.221	20				

Batch 1407186 - General Preparation

Duplicate (1407186-DUP1)			Source: 1407131-01		Prepared & Analyzed: 07/23/14					
% Solids	91.9		%	92.1	0.217	20				

Summit Scientific

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: BBC - Epperly 14C-23

Project Number: 0273-14020
Project Manager: Jake Janicek

Reported:
07/23/14 18:48

Notes and Definitions

- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

July 28, 2014

Jake Janicek

LT Environmental, Inc.

4600 West 60th Avenue

Arvada, CO 80003

RE: BBC - Epperly 14C-23

Enclosed are the results of analyses for samples received by Summit Scientific on 07/25/14 08:50. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to be 'BS', with a long, sweeping horizontal line extending to the right.

Ben Shrewsbury

President / Laboratory Manager



LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: BBC - Epperly 14C-23

Project Number: 0273-14020
Project Manager: Jake Janicek

Reported:
07/28/14 15:52

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EastWall02@6' bgs	1407149-01	Soil	07/24/14 09:15	07/25/14 08:50

1407149

Summit Scientific

741 Corporate Circle Suite 1 • Golden, Colorado 80401
303-277-4310 • 303-374-4933 Fax

Client: LT Environmental
Address: 820 Megan Ave, Unit B
City/State/Zip: Rifle, CO 81650
Phone: 970-285-9985 Fax:
Sampler Name: Dustin Held
Project Manager: Jake Janicek
E-Mail: jjanicek@ltenv.com, rfishburn@ltenv.com
Project Name: Epperly 14C-23
Project Number: 0273-14020

Page 1 of 1

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative	Matrix	Analyze For:	Special Instructions
EastWall02@6' bgs	7/24/14	0915	2	HCl None Other (Specify)	Soil Groundwater Air - Canister Serial #	TPH GRO/DRO BTX Table 910 PAHs Table 910 Metals E C PH SAR	
Relinquished by:	Date/Time: Received by:	Date/Time: Received by:	Date/Time: Received by:	Date/Time: Received by:	Date/Time: Received by:	Turn Around Time (Check) Same Day 24 Hours 48 Hours 72 Hours Standard	Notes:
	7/24/14 1300	7/24/14 8:30					
Relinquished by:	Date/Time: Received in Lab by:	Date/Time: Received in Lab by:	Date/Time: Received in Lab by:	Date/Time: Received in Lab by:	Date/Time: Received in Lab by:	Sample Integrity: Temperature Upon Receipt: 5.7 Inact: Yes No	

www.s2scientific.com

Summit Scientific

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: BBC - Epperly 14C-23

Project Number: 0273-14020
Project Manager: Jake Janicek

Reported:
07/28/14 15:52

**EastWall02@6' bgs
1407149-01 (Soil)**

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 07/24/14 09:15

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	98	50	mg/kg	1	1407206	07/25/14	07/26/14	8015M	

Date Sampled: 07/24/14 09:15

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		113 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 07/24/14 09:15

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0018	mg/kg	1	1407205	07/25/14	07/25/14	EPA 8260B	
Toluene	ND	0.0045	"	"	"	"	"	"	
Ethylbenzene	ND	0.0045	"	"	"	"	"	"	
Xylenes (total)	ND	0.0045	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.45	"	"	"	"	"	"	

Date Sampled: 07/24/14 09:15

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		103 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		99.6 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	21-167		"	"	"	"	

Semivolatile Organic Compounds by EPA Method 8270D SIM

Date Sampled: 07/24/14 09:15

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	1407203	07/25/14	07/25/14	EPA 8270D SIM	

Summit Scientific

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: BBC - Epperly 14C-23

Project Number: 0273-14020
Project Manager: Jake Janicek

Reported:
07/28/14 15:52

EastWall02@6' bgs
1407149-01 (Soil)

Summit Scientific

Semivolatile Organic Compounds by EPA Method 8270D SIM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthylene	ND	0.00500	mg/kg	1	1407203	07/25/14	07/25/14	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
Naphthalene	ND	0.00500	"	"	"	"	"	"	
Phenanthrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: 07/24/14 09:15

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10		81.2 %	50-150		"	"	"	"	
Surrogate: Fluoranthene-d10		67.8 %	50-150		"	"	"	"	

Total Metals by EPA Method 6020 - Dry Weight Basis

Date Sampled: 07/24/14 09:15

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	10.7	0.113	mg/kg dry	1	1407199	07/25/14	07/25/14	EPA 6020A	
Barium	227	0.113	"	"	"	"	"	"	
Cadmium	0.879	0.113	"	"	"	"	"	"	
Chromium	8.62	0.564	"	"	"	"	"	"	
Copper	8.50	0.564	"	"	"	"	"	"	
Lead	20.3	0.113	"	"	"	"	"	"	
Nickel	16.3	0.113	"	"	"	"	"	"	
Selenium	0.456	0.0564	"	"	"	"	"	"	

Summit Scientific

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: BBC - Epperly 14C-23

Project Number: 0273-14020
Project Manager: Jake Janicek

Reported:
07/28/14 15:52

**EastWall02@6' bgs
1407149-01 (Soil)**

Summit Scientific

Total Metals by EPA Method 6020 - Dry Weight Basis

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Silver	ND	0.113	mg/kg dry	1	1407199	07/25/14	07/25/14	EPA 6020A	
Zinc	34.8	11.3	"	"	"	"	"	"	

Total Mercury by EPA Method 7471/7470/245.1

Date Sampled: 07/24/14 09:15

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Mercury	0.141	0.0564	mg/kg dry	1	1407200	07/25/14	07/25/14	EPA 7471	

Hexavalent Chromium by EPA 7196

Date Sampled: 07/24/14 09:15

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	1.02	mg/kg dry	1	1407209	07/28/14	07/28/14	EPA 7196	

Calculated Analytes

Date Sampled: 07/24/14 09:15

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium+3 Calculated	7.60	1.00	mg/kg	1	1407210	07/28/14	07/28/14	Calculation	

Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: 07/24/14 09:15

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	808	33.9	mg/kg dry	1	1407201	07/25/14	07/25/14	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	314	5.64	"	"	"	"	"	"	
Sodium	357	5.64	"	"	"	"	"	"	

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: BBC - Epperly 14C-23

Project Number: 0273-14020
Project Manager: Jake Janicek

Reported:
07/28/14 15:52

**EastWall02@6' bgs
1407149-01 (Soil)**

Summit Scientific

Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis

Date Sampled: **07/24/14 09:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.70		units	1	1407216	07/28/14	07/28/14	EPA 6020/Mod. USDA60 6(2, 3A)	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **07/24/14 09:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.47	0.0100	mmhos/cm	1	1407197	07/24/14	07/25/14	SM 2510B	

Date Sampled: **07/24/14 09:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.45	0.100	pH Units	"	1407198	07/25/14	07/25/14	EPA 9045	

Date Sampled: **07/24/14 09:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	88.6		%	"	1407207	07/25/14	07/25/14	% calculation	

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Arvada CO, 80003

Project: BBC - Epperly 14C-23

Project Number: 0273-14020
Project Manager: Jake Janicek

Reported:
07/28/14 15:52

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

Analyte	Reporting			Spike Level	Source		%REC		RPD		Notes
	Result	Limit	Units		Result	%REC	Limits	RPD	Limit		

Batch 1407206 - EPA 3550A

Blank (1407206-BLK1)			Prepared: 07/25/14 Analyzed: 07/26/14								
C10-C28 (DRO)	ND	50	mg/kg								
LCS (1407206-BS1)			Prepared: 07/25/14 Analyzed: 07/26/14								
C10-C28 (DRO)	493	50	mg/kg	501	98.3	73-134					
LCS (1407206-BS2)			Prepared: 07/25/14 Analyzed: 07/26/14								
C10-C28 (DRO)	499	50	mg/kg	500	99.9	73-134					
Matrix Spike (1407206-MS1)			Source: 1407149-01			Prepared: 07/25/14 Analyzed: 07/26/14					
C10-C28 (DRO)	531	50	mg/kg	474	97.6	91.3	50-148				
Matrix Spike (1407206-MS2)			Source: 1407150-01			Prepared: 07/25/14 Analyzed: 07/26/14					
C10-C28 (DRO)	2540	50	mg/kg	461	2430	23.5	50-148				QM-4X
Matrix Spike Dup (1407206-MSD1)			Source: 1407149-01			Prepared: 07/25/14 Analyzed: 07/26/14					
C10-C28 (DRO)	542	50	mg/kg	472	97.6	94.3	50-148	2.14	13		
Matrix Spike Dup (1407206-MSD2)			Source: 1407150-01			Prepared: 07/25/14 Analyzed: 07/26/14					
C10-C28 (DRO)	2520	50	mg/kg	466	2430	19.6	50-148	0.681	13		QM-4X

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4600 West 60th Avenue
Arvada CO, 80003

Project: BBC - Epperly 14C-23

Project Number: 0273-14020
Project Manager: Jake Janicek

Reported:
07/28/14 15:52

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 1407205 - EPA 5030 Soil MS

Blank (1407205-BLK1)

Prepared & Analyzed: 07/25/14

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.0050	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0367		"	0.0382	96.0	23-173				
Surrogate: Toluene-d8	0.0392		"	0.0385	102	20-170				
Surrogate: 4-Bromofluorobenzene	0.0392		"	0.0385	102	21-167				

LCS (1407205-BS1)

Prepared & Analyzed: 07/25/14

Benzene	0.115	0.0020	mg/kg	0.0998	115	58-130				
Toluene	0.115	0.0050	"	0.0998	116	61-134				
Ethylbenzene	0.121	0.0050	"	0.0990	122	74-139				
m,p-Xylene	0.233	0.010	"	0.199	117	73-137				
o-Xylene	0.115	0.0050	"	0.0982	117	73-141				
Surrogate: 1,2-Dichloroethane-d4	0.0356		"	0.0396	89.8	23-173				
Surrogate: Toluene-d8	0.0412		"	0.0399	103	20-170				
Surrogate: 4-Bromofluorobenzene	0.0393		"	0.0399	98.6	21-167				

LCS (1407205-BS2)

Prepared & Analyzed: 07/25/14

Benzene	0.112	0.0020	mg/kg	0.0956	118	58-130				
Toluene	0.110	0.0050	"	0.0956	115	61-134				
Ethylbenzene	0.116	0.0050	"	0.0948	122	74-139				
m,p-Xylene	0.226	0.010	"	0.191	118	73-137				
o-Xylene	0.110	0.0050	"	0.0941	117	73-141				
Surrogate: 1,2-Dichloroethane-d4	0.0350		"	0.0380	92.3	23-173				
Surrogate: Toluene-d8	0.0393		"	0.0382	103	20-170				
Surrogate: 4-Bromofluorobenzene	0.0371		"	0.0382	97.0	21-167				

Summit Scientific

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: BBC - Epperly 14C-23

Project Number: 0273-14020
Project Manager: Jake Janicek

Reported:
07/28/14 15:52

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 1407205 - EPA 5030 Soil MS

Matrix Spike (1407205-MS1)		Source: 1407149-01			Prepared & Analyzed: 07/25/14						
Benzene	0.109	0.0020	mg/kg	0.0921	ND	118	30-131				
Toluene	0.107	0.0050	"	0.0921	ND	116	30-134				
Ethylbenzene	0.112	0.0050	"	0.0913	ND	123	22-153				
m,p-Xylene	0.217	0.010	"	0.184	ND	118	10-159				
o-Xylene	0.107	0.0050	"	0.0906	ND	119	31-151				
Surrogate: 1,2-Dichloroethane-d4	0.0368		"	0.0366		101	23-173				
Surrogate: Toluene-d8	0.0374		"	0.0368		101	20-170				
Surrogate: 4-Bromofluorobenzene	0.0364		"	0.0368		98.9	21-167				

Matrix Spike (1407205-MS2)		Source: 1407150-01			Prepared & Analyzed: 07/25/14						
Benzene	0.112	0.0020	mg/kg	0.0965	ND	116	30-131				
Toluene	0.109	0.0050	"	0.0965	ND	113	30-134				
Ethylbenzene	0.118	0.0050	"	0.0958	ND	123	22-153				
m,p-Xylene	0.229	0.010	"	0.193	ND	119	10-159				
o-Xylene	0.111	0.0050	"	0.0950	ND	117	31-151				
Surrogate: 1,2-Dichloroethane-d4	0.0379		"	0.0383		98.8	23-173				
Surrogate: Toluene-d8	0.0384		"	0.0386		99.5	20-170				
Surrogate: 4-Bromofluorobenzene	0.0369		"	0.0386		95.5	21-167				

Matrix Spike Dup (1407205-MSD1)		Source: 1407149-01			Prepared & Analyzed: 07/25/14						
Benzene	0.108	0.0020	mg/kg	0.0942	ND	114	30-131	0.991	34		
Toluene	0.108	0.0050	"	0.0942	ND	115	30-134	1.33	30		
Ethylbenzene	0.115	0.0050	"	0.0934	ND	123	22-153	2.28	24		
m,p-Xylene	0.223	0.010	"	0.188	ND	118	10-159	2.48	68		
o-Xylene	0.110	0.0050	"	0.0927	ND	119	31-151	2.47	38		
Surrogate: 1,2-Dichloroethane-d4	0.0364		"	0.0374		97.3	23-173				
Surrogate: Toluene-d8	0.0385		"	0.0377		102	20-170				
Surrogate: 4-Bromofluorobenzene	0.0382		"	0.0377		101	21-167				

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LT Environmental, Inc.
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Project: BBC - Epperly 14C-23

Project Number: 0273-14020
 Project Manager: Jake Janicek

Reported:
 07/28/14 15:52

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

Analyte	Reporting		Spike Level	Source Result	%REC		RPD		Notes
	Result	Limit			Units	Result	Limits	RPD	

Batch 1407205 - EPA 5030 Soil MS

Matrix Spike Dup (1407205-MSD2)	Source: 1407150-01			Prepared & Analyzed: 07/25/14						
Benzene	0.115	0.0020	mg/kg	0.0990	ND	116	30-131	2.93	34	
Toluene	0.111	0.0050	"	0.0990	ND	112	30-134	2.22	30	
Ethylbenzene	0.123	0.0050	"	0.0982	ND	125	22-153	4.00	24	
m,p-Xylene	0.241	0.010	"	0.198	ND	122	10-159	5.12	68	
o-Xylene	0.116	0.0050	"	0.0974	ND	119	31-151	3.63	38	
Surrogate: 1,2-Dichloroethane-d4	0.0394		"	0.0393		100	23-173			
Surrogate: Toluene-d8	0.0390		"	0.0396		98.5	20-170			
Surrogate: 4-Bromofluorobenzene	0.0383		"	0.0396		96.8	21-167			

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Project: BBC - Epperly 14C-23

Project Number: 0273-14020
Project Manager: Jake Janicek

Reported:
07/28/14 15:52

Semivolatile Organic Compounds by EPA Method 8270D SIM - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 1407203 - EPA 5030 Soil MS

Blank (1407203-BLK1)

Prepared & Analyzed: 07/25/14

Acenaphthene	ND	0.00500	mg/kg							
Acenaphthylene	ND	0.00500	"							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Benzo (g,h,i) perylene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Naphthalene	ND	0.00500	"							
Phenanthrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0288</i>		<i>"</i>	<i>0.0346</i>	<i>83.3</i>	<i>50-150</i>				
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0282</i>		<i>"</i>	<i>0.0348</i>	<i>81.0</i>	<i>50-150</i>				

LCS (1407203-BS1)

Prepared & Analyzed: 07/25/14

Acenaphthene	0.0339	0.00500	mg/kg	0.0333	102	50-150				
Acenaphthylene	0.0320	0.00500	"	0.0333	96.1	50-150				
Anthracene	0.0335	0.00500	"	0.0333	100	50-150				
Benzo (a) anthracene	0.0332	0.00500	"	0.0333	99.7	50-150				
Benzo (b) fluoranthene	0.0333	0.00500	"	0.0333	99.8	50-150				
Benzo (k) fluoranthene	0.0333	0.00500	"	0.0333	99.8	50-150				
Benzo (g,h,i) perylene	0.0327	0.00500	"	0.0333	98.1	50-150				
Benzo (a) pyrene	0.0342	0.00500	"	0.0333	102	50-150				
Chrysene	0.0339	0.00500	"	0.0333	102	50-150				
Dibenz (a,h) anthracene	0.0299	0.00500	"	0.0333	89.6	50-150				
Fluoranthene	0.0304	0.00500	"	0.0333	91.2	50-150				
Fluorene	0.0339	0.00500	"	0.0333	102	50-150				
Indeno (1,2,3-cd) pyrene	0.0326	0.00500	"	0.0333	97.8	50-150				
2-Methylnaphthalene	0.0343	0.00500	"	0.0332	103	0-200				
Naphthalene	0.0325	0.00500	"	0.0333	97.6	50-150				
Phenanthrene	0.0340	0.00500	"	0.0333	102	50-150				
Pyrene	0.0370	0.00500	"	0.0333	111	50-150				

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Project: BBC - Epperly 14C-23

Project Number: 0273-14020
Project Manager: Jake Janicek

Reported:
07/28/14 15:52

Semivolatile Organic Compounds by EPA Method 8270D SIM - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 1407203 - EPA 5030 Soil MS

LCS (1407203-BS1)

Prepared & Analyzed: 07/25/14

Surrogate: 2-Methylnaphthalene-d10	0.0323		mg/kg	0.0346		93.4	50-150			
Surrogate: Fluoranthene-d10	0.0293		"	0.0348		84.2	50-150			
Duplicate (1407203-DUP1)										
			Source: 1407150-01	Prepared & Analyzed: 07/25/14						
Acenaphthene	ND	0.00500	mg/kg	ND						200
Acenaphthylene	ND	0.00500	"	ND						200
Anthracene	0.293	0.0500	"	0.237				21.1		200
Benzo (a) anthracene	ND	0.00500	"	ND						200
Benzo (b) fluoranthene	0.105	0.00500	"	0.0359				97.8		200
Benzo (k) fluoranthene	ND	0.00500	"	ND						200
Benzo (g,h,i) perylene	ND	0.00500	"	ND						200
Benzo (a) pyrene	0.0484	0.00500	"	0.0340				34.9		200
Chrysene	ND	0.00500	"	ND						200
Dibenz (a,h) anthracene	ND	0.00500	"	ND						200
Fluoranthene	ND	0.00500	"	ND						200
Fluorene	0.163	0.00500	"	0.111				37.5		200
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	ND						200
2-Methylnaphthalene	ND	0.00500	"	ND						200
Naphthalene	0.0713	0.00500	"	0.0703				1.44		200
Phenanthrene	ND	0.00500	"	ND						200
Pyrene	0.136	0.00500	"	0.101				29.6		200
Surrogate: 2-Methylnaphthalene-d10	0.00432		"	0.0346		12.5	50-150			S-02
Surrogate: Fluoranthene-d10	0.0288		"	0.0348		82.7	50-150			

Matrix Spike (1407203-MS1)

Source: 1407149-01

Prepared & Analyzed: 07/25/14

Acenaphthene	0.0304	0.00500	mg/kg	0.0333	ND	91.3	50-150			
Acenaphthylene	0.0290	0.00500	"	0.0333	ND	87.1	50-150			
Anthracene	0.0294	0.00500	"	0.0333	ND	88.3	50-150			
Benzo (a) anthracene	0.0330	0.00500	"	0.0333	ND	98.9	50-150			
Benzo (b) fluoranthene	0.0332	0.00500	"	0.0333	ND	99.7	50-150			
Benzo (k) fluoranthene	0.0295	0.00500	"	0.0333	ND	88.4	50-150			
Benzo (g,h,i) perylene	0.0270	0.00500	"	0.0333	ND	80.9	50-150			
Benzo (a) pyrene	0.0305	0.00500	"	0.0333	ND	91.4	50-150			
Chrysene	0.0309	0.00500	"	0.0333	ND	92.6	50-150			
Dibenz (a,h) anthracene	0.0252	0.00500	"	0.0333	ND	75.5	50-150			
Fluoranthene	0.0281	0.00500	"	0.0333	ND	84.2	50-150			
Fluorene	0.0319	0.00500	"	0.0333	ND	95.8	50-150			
Indeno (1,2,3-cd) pyrene	0.0269	0.00500	"	0.0333	ND	80.8	50-150			

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 Arvada CO, 80003

Project: BBC - Epperly 14C-23

Project Number: 0273-14020
 Project Manager: Jake Janicek

Reported:
 07/28/14 15:52

Semivolatile Organic Compounds by EPA Method 8270D SIM - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 1407203 - EPA 5030 Soil MS

Matrix Spike (1407203-MS1)	Source: 1407149-01			Prepared & Analyzed: 07/25/14						
2-Methylnaphthalene	0.0308	0.00500	mg/kg	0.0332	ND	92.7	0-200			
Naphthalene	0.0296	0.00500	"	0.0333	ND	88.9	50-150			
Phenanthrene	0.0342	0.00500	"	0.0333	ND	103	50-150			
Pyrene	0.0353	0.00500	"	0.0333	ND	106	50-150			
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0286</i>		<i>"</i>	<i>0.0346</i>		<i>82.5</i>	<i>50-150</i>			
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0247</i>		<i>"</i>	<i>0.0348</i>		<i>71.1</i>	<i>50-150</i>			

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Arvada CO, 80003

Project: BBC - Epperly 14C-23

Project Number: 0273-14020
Project Manager: Jake Janicek

Reported:
07/28/14 15:52

Total Metals by EPA Method 6020 - Dry Weight Basis - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source	%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 1407199 - EPA 3050B

Blank (1407199-BLK1)

Prepared & Analyzed: 07/25/14

Arsenic	ND	0.125	mg/kg wet							
Barium	ND	0.125	"							
Cadmium	ND	0.125	"							
Chromium	ND	0.625	"							
Copper	ND	0.625	"							
Lead	ND	0.125	"							
Nickel	ND	0.125	"							
Selenium	ND	0.0625	"							
Silver	ND	0.125	"							
Zinc	ND	12.5	"							

LCS (1407199-BS1)

Prepared & Analyzed: 07/25/14

Arsenic	103	0.250	mg/kg wet	99.6		104	69.3-130			
Barium	252	0.250	"	310		81.4	74.2-126			
Cadmium	147	0.250	"	182		80.9	73.6-126			
Chromium	142	1.25	"	136		105	70.4-130			
Copper	125	1.25	"	124		101	61.1-104			
Lead	126	0.250	"	115		109	72.1-129			
Nickel	155	0.250	"	153		101	73.2-126			
Selenium	167	0.125	"	150		111	67.3-133			
Silver	18.8	0.250	"	40.4		46.6	40.4-65.8			
Zinc	190	25.0	"	161		118	68.3-132			

Duplicate (1407199-DUP1)

Source: 1407149-01

Prepared & Analyzed: 07/25/14

Arsenic	12.1	0.113	mg/kg dry		10.7		12.6	20		
Barium	208	0.113	"		227		8.66	20		
Cadmium	0.840	0.113	"		0.879		4.44	20		
Chromium	9.34	0.564	"		8.62		7.94	20		
Copper	9.07	0.564	"		8.50		6.44	20		
Lead	21.2	0.113	"		20.3		4.44	20		
Nickel	18.4	0.113	"		16.3		12.0	20		
Selenium	0.404	0.0564	"		0.456		12.3	20		
Silver	0.0611	0.113	"		0.0732		18.0	20		
Zinc	37.7	11.3	"		34.8		7.97	20		

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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: BBC - Epperly 14C-23

Project Number: 0273-14020
Project Manager: Jake Janicek

Reported:
07/28/14 15:52

Total Metals by EPA Method 6020 - Dry Weight Basis - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit		

Batch 1407199 - EPA 3050B

Matrix Spike (1407199-MS1)

Source: 1407149-01

Prepared & Analyzed: 07/25/14

Arsenic	15.6	0.113	mg/kg dry	2.17	10.7	226	75-125				QM-07
Barium	218	0.113	"	21.7	227	NR	75-125				QM-07
Cadmium	1.13	0.113	"	0.217	0.879	115	75-125				
Chromium	44.7	0.564	"	21.7	8.62	166	75-125				QM-07
Copper	10.9	0.564	"	2.17	8.50	111	75-125				
Lead	24.0	0.113	"	2.17	20.3	173	75-125				QM-07
Nickel	18.7	0.113	"	2.17	16.3	108	75-125				
Selenium	2.74	0.0564	"	2.17	0.456	105	75-125				
Silver	0.310	0.113	"	0.217	0.0732	109	75-125				
Zinc	61.9	11.3	"	21.7	34.8	125	75-125				

Matrix Spike Dup (1407199-MSD1)

Source: 1407149-01

Prepared & Analyzed: 07/25/14

Arsenic	15.5	0.113	mg/kg dry	2.14	10.7	226	75-125	0.364	25		QM-07
Barium	253	0.113	"	21.4	227	123	75-125	15.1	25		
Cadmium	1.19	0.113	"	0.214	0.879	147	75-125	5.66	25		QM-07
Chromium	52.0	0.564	"	21.4	8.62	203	75-125	15.0	25		QM-07
Copper	10.0	0.564	"	2.14	8.50	71.8	75-125	8.28	25		QM-07
Lead	23.5	0.113	"	2.14	20.3	152	75-125	2.07	25		QM-07
Nickel	19.6	0.113	"	2.14	16.3	155	75-125	5.03	25		QM-07
Selenium	3.14	0.0564	"	2.14	0.456	126	75-125	13.7	25		QM-07
Silver	0.331	0.113	"	0.214	0.0732	120	75-125	6.50	25		
Zinc	65.1	11.3	"	21.4	34.8	142	75-125	5.17	25		QM-07

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Project: BBC - Epperly 14C-23

Project Number: 0273-14020
Project Manager: Jake Janicek

Reported:
07/28/14 15:52

Total Mercury by EPA Method 7471/7470/245.1 - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit		

Batch 1407200 - EPA 7471A

Blank (1407200-BLK1)

Prepared & Analyzed: 07/25/14

Mercury ND 0.0500 mg/kg wet

LCS (1407200-BS1)

Prepared & Analyzed: 07/25/14

Mercury 0.483 0.0500 mg/kg wet 0.500 96.6 80-120

Duplicate (1407200-DUP1)

Source: 1407139-01

Prepared & Analyzed: 07/25/14

Mercury 0.0270 0.0524 mg/kg dry 0.0246 9.48 20

Matrix Spike (1407200-MS1)

Source: 1407139-01

Prepared & Analyzed: 07/25/14

Mercury 0.476 0.0524 mg/kg dry 0.503 0.0246 89.6 80-120

Matrix Spike Dup (1407200-MSD1)

Source: 1407139-01

Prepared & Analyzed: 07/25/14

Mercury 0.459 0.0476 mg/kg dry 0.476 0.0246 91.2 80-120 3.66 20

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Project Number: 0273-14020
Project Manager: Jake Janicek

Reported:
07/28/14 15:52

Hexavalent Chromium by EPA 7196 - Quality Control
Summit Scientific

Analyte	Result	Reporting		Spike	Source		%REC		RPD		Notes
		Limit	Units	Level	Result	%REC	Limits	RPD	Limit		

Batch 1407209 - 3060A_Mod

Blank (1407209-BLK1)		Prepared & Analyzed: 07/28/14									
Chromium, Hexavalent	ND	1.00	mg/kg wet								
LCS (1407209-BS1)		Prepared & Analyzed: 07/28/14									
Chromium, Hexavalent	22.8	1.00	mg/kg wet	20.0		114	80-120				
LCS Dup (1407209-BSD1)		Prepared & Analyzed: 07/28/14									
Chromium, Hexavalent	20.4	1.00	mg/kg wet	20.0		102	80-120	11.1	20		
Matrix Spike (1407209-MS1)		Source: 1407149-01		Prepared & Analyzed: 07/28/14							
Chromium, Hexavalent	19.7	1.13	mg/kg dry	21.3	ND	92.5	80-120				
Matrix Spike Dup (1407209-MSD1)		Source: 1407149-01		Prepared & Analyzed: 07/28/14							
Chromium, Hexavalent	21.0	1.13	mg/kg dry	22.2	ND	94.3	80-120	6.06	20		

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Project: BBC - Epperly 14C-23

Project Number: 0273-14020
Project Manager: Jake Janicek

Reported:
07/28/14 15:52

Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis - Quality Control
Summit Scientific

Analyte	Reporting		Spike Level	Source Result	%REC		RPD		Notes
	Result	Limit			Units	Result	Limits	RPD	

Batch 1407201 - General Preparation

Blank (1407201-BLK1)

Prepared & Analyzed: 07/25/14

Calcium	ND	30.0	mg/kg wet						
Magnesium	ND	5.00	"						
Sodium	ND	5.00	"						

LCS (1407201-BS1)

Prepared & Analyzed: 07/25/14

Calcium	982	30.0	mg/kg wet	1000	98.2	80-120			
Magnesium	931	5.00	"	1000	93.1	80-120			
Sodium	950	5.00	"	1000	95.0	80-120			

Duplicate (1407201-DUP1)

Source: 1407149-01

Prepared & Analyzed: 07/25/14

Calcium	769	33.9	mg/kg dry	808			4.98	200	
Magnesium	287	5.64	"	314			9.15	200	
Sodium	332	5.64	"	357			7.14	200	

Matrix Spike (1407201-MS1)

Source: 1407149-01

Prepared & Analyzed: 07/25/14

Calcium	2370	33.9	mg/kg dry	1110	808	141	75-125		QM-07
Magnesium	1300	5.64	"	1110	314	89.4	75-125		
Sodium	1470	5.64	"	1110	357	101	75-125		

Matrix Spike Dup (1407201-MSD1)

Source: 1407149-01

Prepared & Analyzed: 07/25/14

Calcium	2650	33.9	mg/kg dry	1090	808	170	75-125	11.3	25	QM-07
Magnesium	1320	5.64	"	1090	314	92.3	75-125	0.934	25	
Sodium	1440	5.64	"	1090	357	100	75-125	1.84	25	

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Project: BBC - Epperly 14C-23

Project Number: 0273-14020
Project Manager: Jake Janicek

Reported:
07/28/14 15:52

Physical Parameters by APHA/ASTM/EPA Methods - Quality Control
Summit Scientific

Analyte	Reporting			Spike	Source		%REC		RPD		Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit		

Batch 1407197 - General Preparation

Blank (1407197-BLK1)			Prepared & Analyzed: 07/24/14								
Specific Conductance (EC)	ND	0.0100	mmhos/cm								
Duplicate (1407197-DUP1)			Source: 1407045-05		Prepared & Analyzed: 07/24/14						
Specific Conductance (EC)	0.428	0.0100	mmhos/cm		0.459				6.98	20	

Batch 1407198 - General Preparation

LCS (1407198-BS1)			Prepared: 07/24/14 Analyzed: 07/25/14								
pH	6.06	0.100	pH Units	8.00		75.8	0-200				
Duplicate (1407198-DUP1)			Source: 1407045-05		Prepared: 07/24/14 Analyzed: 07/25/14						
pH	8.45	0.100	pH Units		8.47				0.236	20	

Batch 1407207 - General Preparation

Duplicate (1407207-DUP1)			Source: 1407149-01		Prepared & Analyzed: 07/25/14						
% Solids	88.7		%		88.6				0.113	20	

Summit Scientific

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Project: BBC - Epperly 14C-23

Project Number: 0273-14020
Project Manager: Jake Janicek

Reported:
07/28/14 15:52

Notes and Definitions

- S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
- QM-4X The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference