

State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303) 894-2100 Fax 894-2109



FOR OGCC USE ONLY

SITE INVESTIGATION AND REMEDIATION WORKPLAN

This form shall be submitted to the Director for approval prior to the initiation of site investigation and remediation activities. Form 27 is intended to be used whenever possible. Additional documentation will be required when large volumes of soil and groundwater have been impacted or involve large facilities with multiple source areas. See Rule 910. Attach as many pages as needed to fully describe the proposed work.

OGCC Employee:

☐ Spill ☐ Complaint
☐ Inspection ☐ NOAV

Tracking No:

CAUSE OF CONDITION BEING INVESTIGATED AND REMEDIATED

☒ Spill or Release ☐ Plug & Abandon ☐ Central Facility Closure ☐ Site/Facility Closure ☐ Other (describe): _____

GENERAL INFORMATION

OGCC Operator Number: 10071		Contact Name and Telephone	
Name of Operator: <u>Bill Barrett Corporation (BBC)</u>		Name: <u>Scott Ghan</u>	
Address: <u>112 Red Feather Trail</u>		No: <u>(970) 867-1959</u>	
City: <u>Silt</u> State: <u>CO</u> Zip: <u>81652</u>		Fax: <u>(970) 867-0981</u>	
API/Facility No: <u>05-045-14263</u>		County: <u>Garfield</u>	
Facility Name: <u>Specialty 1 Pipeline ROW</u>		Facility Number: _____	
Well Name: <u>Specialty</u>		Well Number: <u>11A-28-692</u>	
Location (QtrQtr, Sec, Twp, Rng, Meridian): <u>NENW Sec 28 T6S R92W</u>		Latitude: <u>39.503875</u> Longitude: <u>-107.676153</u>	

TECHNICAL CONDITIONS

Type of Waste Causing Impact (crude oil, condensate, produced water, etc.): <u>Produced Water</u>	
Site Conditions: Is location within a sensitive area (according to Rule 901e)? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N If yes, attach evaluation.	
Adjacent land use (cultivated, irrigated, dry land farming, industrial, residential, etc.): <u>Rangeland</u>	
Soil type, if not previously identified on Form 2A or Federal Surface Use Plan: <u>Potts loam, 6 to 12 percent slopes</u>	
Potential receptors (water wells within 1/4 mi, surface waters, etc.): <u>An irrigation pond is located 420 ft north of the site; a groundwater monitoring well (permit # 262506) is located 530 ft southeast of the site; and depth to groundwater is estimated to be at least 30' ft bgs</u>	
Description of Impact (if previously provided, refer to that form or document):	
Impacted Media (check):	Extent of Impact:
<input checked="" type="checkbox"/> Soils	<u>145 ft x 5 ft x 0.8 ft bgs</u>
<input type="checkbox"/> Vegetation	_____
<input type="checkbox"/> Groundwater	_____
<input type="checkbox"/> Surface water	_____
How Determined:	
<u>Soil samples were submitted for laboratory analysis</u>	

REMEDIALATION WORKPLAN

Describe initial action taken (if previously provided, refer to that form or document):
<u>Form 19 was submitted on 9/24/10 (Spill #2521443)</u>
Describe how source is to be removed:
<u>BBC contractors bermed an area along the pipeline right of way and adjacent to the production tanks to contain the release. A vacuum truck recovered 20 bbls of produced water from the bermed areas. Following the removal of produced water, three confirmation soil samples were collected from the extent of the spill area and submitted for laboratory analysis of BTEX by EPA Method 8260B, TPH (C6-C28) by EPA modified Method 8015, COGCC Table 910-1 metals by EPA Method 6010 (arsenic by EPA Method 6020), PAHs by EPA SIM 8270C, EC and pH by USDA Agriculture Handbook Saturated Paste Method. Each of the compounds analyzed in the samples except for pH and arsenic were in compliance with Table 910-1 concentration levels. A topographic site location map and a site map are provided as Figures 1 and 2. Laboratory analytical results are summarized in Table 1.</u>
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.:
<u>A total of 20 bbls of produced water was transported to an injection well for disposal.</u>

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Tracking Number: _____
Name of Operator: BBC
OGCC Operator No: 10071
Received Date: _____
Well Name & No: Specialty 11A-28-692
Facility Name & No.: Specialty #1

Page 2

REMEDIAL WORKPLAN (CONT.)

OGCC Employee: _____

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

Groundwater was not encountered in the spill area. Based on topography, the depth to groundwater is estimated to be approximately 30 ft 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.

BBC's pipeline right of way was backfilled with clean fill material to match the existing 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? ☒ Y ☐ N If yes, describe:

Laboratory analytical results indicated the compounds analyzed in the samples except for pH and arsenic were in compliance with Table 910-1 concentration levels. Since the pipeline right of way was backfilled with 9 ft of clean fill material and buried below the vegetative root zone, BBC does not believe the elevated pH levels will affect final reclamation. The arsenic concentrations for each of the soil samples were compared to a background sample previously collected at depth during pit closure activities and are within naturally occurring concentrations. The soil samples were not analyzed for SAR due to EC concentrations that were in compliance with the COGCC Table 910-1 concentration level. Based on the analytical results, BBC is requesting No Further Action determination for this site.

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

A total of 20 bbls of produced water was transported to an injection well for disposal.

IMPLEMENTATION SCHEDULE

Date Site Investigation Began: <u>9/18/10</u>	Date Site Investigation Completed: <u>10/5/10</u>	Remediation Plan Submitted: <u>1/27/11</u>
Remediation Start Date: <u>9/18/10</u>	Anticipated Completion Date: <u>NA</u>	Actual Completion Date: <u>NA</u>

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Print Name: M. Scott Ghan

Signed: Title: Environmental H&S Coordinator Date: 1/27/11

OGCC Approved: _____ Title: _____ Date: _____

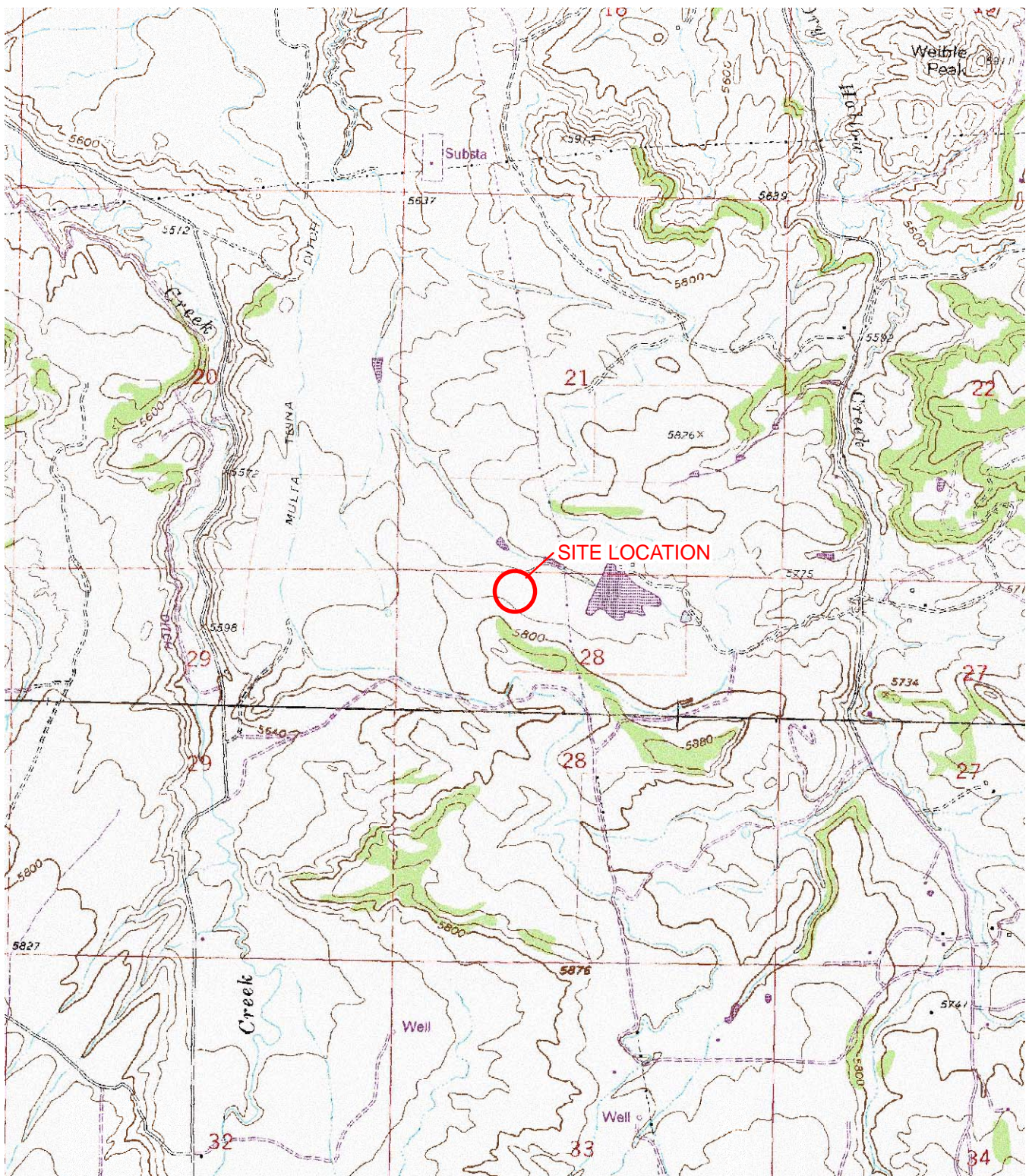


IMAGE COURTESY OF USDA/NRCS, VARIOUS DATES

LEGEND



SITE LOCATION

NENW 28 T6S R92W

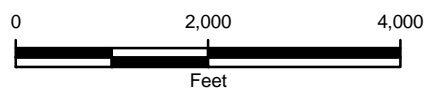


FIGURE 1
SITE LOCATION MAP
SPECIALTY #1 PIPELINE RIGHT-OF-WAY
NENW 28 6S R92W
GARFIELD COUNTY, CO
BILL BARRETT CORPORATION





PROJECT Specialty #1 Pipeline ROW
PROJECT MANAGER _____
JOB No. BBCL008.02
LOCATION _____

DATE 9/20/10
CONT. No. _____
BY _____ CHK'D _____
SHEET No. 1 OF 1

95LT0038 10/1997

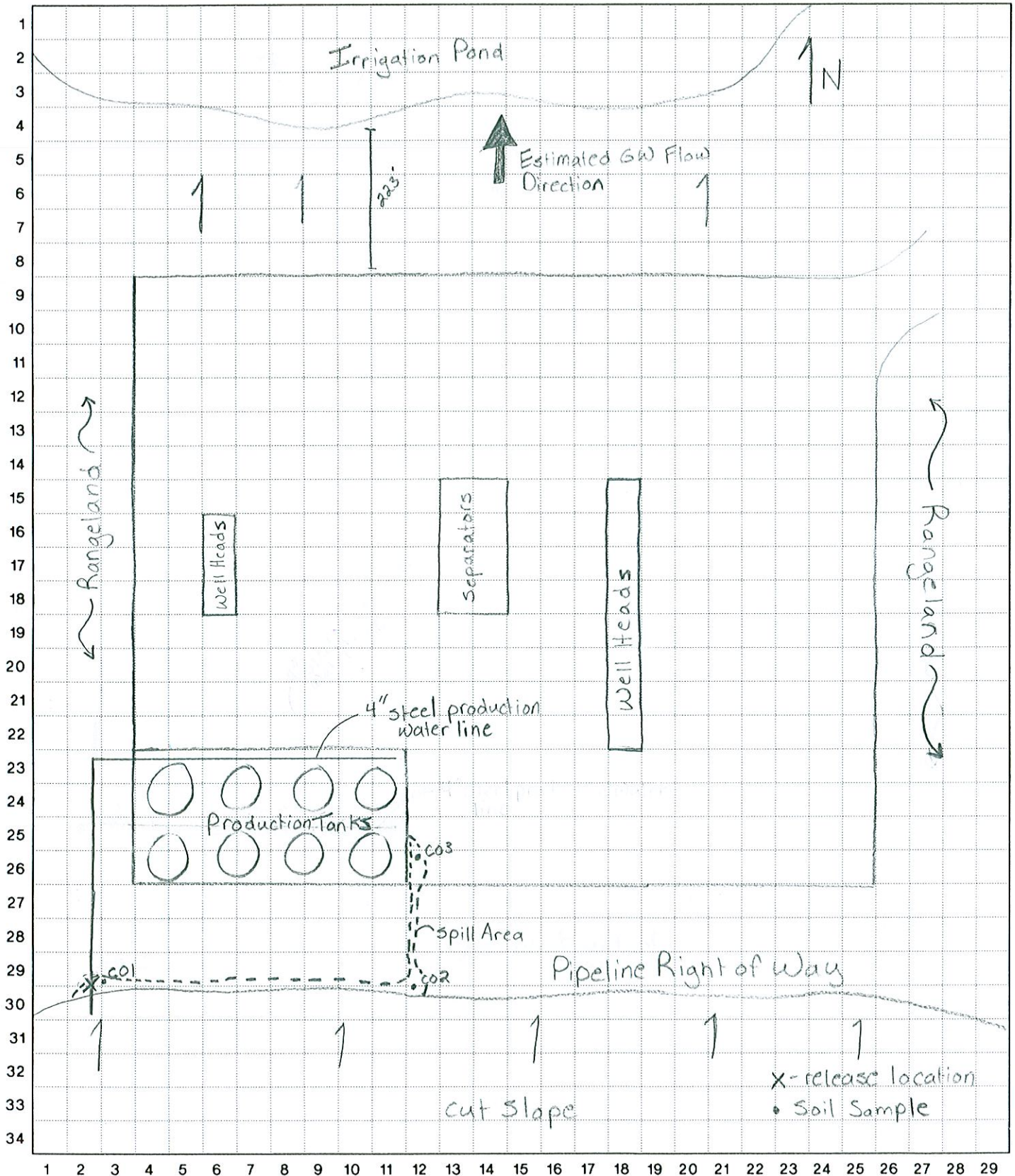


TABLE 1

**SOIL ANALYTICAL RESULTS
SPECIALTY#1 PIPELINE ROW
GARFIELD COUNTY, COLORADO**

BILL BARRETT CORPORATION

Sample Date Sample ID			9/20/2010 C01	9/20/2010 C02	9/20/2010 C03	6/21/2010 BG04@12.5'
Arsenic	0.39	mg/kg	4.33	3.67	4.94	6.0
Barium	15,000	mg/kg	227.1	380.4	581.5	--
Cadmium	70	mg/kg	0.3	0.3	0.3	--
Chromium (III)	120,000	mg/kg	11.9	5.9	7.9	--
Chromium (VI)	23	mg/kg	<0.56	<0.68	<0.62	--
Copper	3,100	mg/kg	75.7	13.5	13.3	--
Lead	400	mg/kg	18.2	12.2	11.5	--
Mercury	23	mg/kg	<0.05	<0.05	<0.05	--
Nickel	1,600	mg/kg	15.6	14.6	14.8	--
Selenium	390	mg/kg	1.21	1.05	1.06	--
Silver	390	mg/kg	<0.1	<0.1	<0.1	--
Zinc	23,000	mg/kg	64.18	60.37	55.04	--
EC	4.0	mmhos/cm	1.14	0.497	3.60	--
pH	6 - 9	SU	9.3	9.1	8.8	--
TPHGRO		mg/kg	<0.50	<0.50	2.8	--
TPHDRO		mg/kg	<50	<50	<50	--
Total TPH	500	mg/kg	<50.50	<50.50	2.8	--
Benzene	0.17	mg/kg	<0.0050	<0.0050	<0.0050	--
Toluene	85	mg/kg	<0.0050	<0.0050	0.012	--
Ethylbenzene	100	mg/kg	<0.0050	<0.0050	0.011	--
Total Xylenes	175	mg/kg	<0.0050	<0.0050	0.12	--
Acenaphthene	1000	mg/kg	<0.005	<0.005	<0.005	--
Anthracene	1000	mg/kg	<0.005	<0.005	<0.005	--
Benzo(A)anthracene	0.22	mg/kg	<0.005	<0.005	<0.005	--
Benzo(B)fluoranthene	0.22	mg/kg	<0.005	<0.005	<0.005	--
Benzo(K)fluoranthene	2.2	mg/kg	<0.005	<0.005	<0.005	--
Benzo(A)pyrene	0.022	mg/kg	<0.005	<0.005	<0.005	--
Chrysene	22	mg/kg	<0.005	<0.005	<0.005	--
Dibenzo(A,H)anthracene	0.022	mg/kg	<0.010	<0.010	<0.010	--
Fluoranthene	1000	mg/kg	<0.005	<0.005	<0.005	--
Fluorene	1000	mg/kg	<0.005	<0.005	<0.005	--
Indeno(1,2,3,C,D)pyrene	0.22	mg/kg	<0.010	<0.010	<0.010	--
Naphthalene	23	mg/kg	<0.005	<0.005	<0.005	--
Pyrene	1000	mg/kg	<0.005	<0.005	<0.005	--

NOTES:

mg/kg - milligrams per kilogram

EC - electrical conductivity

mmhos/cm - millimhos per centimeter in saturated paste extract

SU - standard unit on saturated paste

TPHGRO - total petroleum hydrocarbons gasoline range organics

TPHDRO - total petroleum hydrocarbons diesel range organics

Total TPH - combination of TPHGRO and TPHDRO

< - less than the stated reporting limit

-- not analyzed

COGCC - Colorado Oil and Gas Conservation Commission

BOLD - indicates result is above the COGCC standard



06/30/10

Technical Report for

LT Environmental

Specialty 1 BBC1008

Accutest Job Number: T55001

Sampling Date: 06/21/10

Report to:

LT Environmental
820 Megan Ave, Unit B
Rifle, CO 81650
aweinberg@ltenv.com; bdodek@ltenv.com;
jjanicek@ltenv.com
ATTN: Asher Weinberg

Total number of pages in report: 18



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Paul K Canevaro

Paul Canevaro
Laboratory Director

Client Service contact: Georgia Jones 713-271-4700

Certifications: TX (T104704220-09C-TX) AR (88-0756) FL (E87628) KS (E-10366) LA (85695/04004)
OK (9103) UT(7132714700)

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.

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Sample Summary

LT Environmental

Job No: T55001

Specialty 1 BBC1008

Sample Number	Collected		Time By	Received	Matrix		Client Sample ID
	Date				Code	Type	
T55001-1	06/21/10	14:45	JJ	06/23/10	SO	Soil	BG04@12.5'

Soil samples reported on a dry weight basis unless otherwise indicated on result page.



Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	BG04@12.5'	Date Sampled:	06/21/10
Lab Sample ID:	T55001-1	Date Received:	06/23/10
Matrix:	SO - Soil	Percent Solids:	88.5
Project:	Specialty 1 BBC1008		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic ^a	6.0	0.56	mg/kg	5	06/28/10	06/29/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA24547
(2) Prep QC Batch: N:MP53399

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit



Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

SAMPLE INSPECTION FORM

Accutest Job Number: T55001 Client: LT Environmental Date/Time Received: 6-23-10 0915
 # of Coolers Received: 1 Thermometer #: IR-1 Temperature Adjustment Factor: +0.4°C
 Cooler Temps: #1: 4.4°C #2: _____ #3: _____ #4: _____ #5: _____ #6: _____ #7: _____ #8: _____
 Method of Delivery: FEDEX UPS Accutest Courier Greyhound Delivery Other
 Airbill Numbers: 8700 9644 9577

COOLER INFORMATION

☐ Custody seal missing or not intact
☐ Temperature criteria not met
☐ Wet ice received in cooler

CHAIN OF CUSTODY

☐ Chain of Custody not received
☐ Sample D/T unclear or missing
☐ Analyses unclear or missing
☐ COC not properly executed

SAMPLE INFORMATION

☐ Sample containers received broken
☐ VOC vials have headspace
☐ Sample labels missing or illegible
☐ ID on COC does not match label(s)
☐ D/T on COC does not match label(s)
☐ Sample/Bottles rec'd but no analysis on COC
☐ Sample listed on COC, but not received
☐ Bottles missing for requested analysis
☐ Insufficient volume for analysis
☐ Sample received improperly preserved

TRIP BLANK INFORMATION

☐ Trip Blank on COC but not received
☐ Trip Blank received but not on COC
☐ Trip Blank not intact
☐ Received Water Trip Blank
☐ Received Soil TB

Number of Encores? _____
 Number of 5035 kits? _____
 Number of lab-filtered metals? _____

Summary of Discrepancies:

TECHNICIAN SIGNATURE/DATE: Danue Huddleston 6-23-10

INFORMATION AND SAMPLE LABELING VERIFIED BY: GC 6-23-10

CORRECTIVE ACTIONS

Client Representative Notified: _____ Date: _____

By Accutest Representative: _____ Via: Phone Email

Client Instructions:

i:\mwalker\forms\samplemanagement

T55001: Chain of Custody

Page 2 of 3

JOB #: 133001 DATE/TIME RECEIVED: 6-23-10 0915

CLIENT: LT Environmental

INITIALS: DRA

[illegible]

PRESERVATIVES: 1: None 2: HCL 3: HNO3 4: H2SO4 5: NAOH 6: DI 7: MeOH 8: Other

LOCATION: 1: Walk-In #1 (Waters) 2: Walk-In #2 (Soils) VR: Volatile Fridge M: Metals SUB: Subcontract EF: Encore Freezer

T55001: Chain of Custody

Page 3 of 3



Misc. Forms

Custody Documents and Other Forms

(Accutest New Jersey)

Includes the following where applicable:

- Chain of Custody



Accutest Laboratories Sample Receipt Summary

Accutest Job Number: T55001

Client:

Immediate Client Services Action Required: No

Date / Time Received: 6/25/2010

Delivery Method:

Client Service Action Required at Login: No

Project:

No. Coolers: 1

Airbill #'s:

Cooler Security

Y or N

Y or N

- | | | | | | |
|---------------------------|-------------------------------------|--------------------------|-----------------------|-------------------------------------|--------------------------|
| 1. Custody Seals Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3. COC Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Custody Seals Intact: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 4. Smpl Dates/Time OK | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Cooler Temperature

Y or N

- | | | |
|------------------------------|-------------------------------------|--------------------------|
| 1. Temp criteria achieved: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Cooler temp verification: | Infrared gun | |
| 3. Cooler media: | Ice (bag) | |

Quality Control Preservation

Y or N

N/A

- | | | | |
|---------------------------------|-------------------------------------|--------------------------|-------------------------------------|
| 1. Trip Blank present / cooler: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2. Trip Blank listed on COC: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 3. Samples preserved properly: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. VOCs headspace free: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Sample Integrity - Documentation

Y or N

- | | | |
|--|-------------------------------------|--------------------------|
| 1. Sample labels present on bottles: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Container labeling complete: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Sample container label / COC agree: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Sample Integrity - Condition

Y or N

- | | | |
|----------------------------------|-------------------------------------|--------------------------|
| 1. Sample recvd within HT: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. All containers accounted for: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Condition of sample: | Intact | |

Sample Integrity - Instructions

Y or N N/A

- | | | | |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1. Analysis requested is clear: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2. Bottles received for unspecified tests | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 3. Sufficient volume recvd for analysis: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. Compositing instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5. Filtering instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Comments

Accutest Laboratories
V: 732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www.accutest.com

T55001: Chain of Custody
Page 2 of 2



Metals Analysis

5

QC Data Summaries

(Accutest New Jersey)

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: T55001
Account: ALGC - Accutest Laboratories Gulf Coast, Inc.
Project: LTENCOR: Specialty 1 BBC1008

QC Batch ID: MP53399
Matrix Type: SOLID

Methods: SW846 6020
Units: mg/kg

Prep Date: 06/28/10

Metal	RL	IDL	MDL	MB raw	final
Aluminum	25	1.1	.52		
Antimony	0.25	.0085	.022		
Arsenic	0.50	.061	.11	0.048	<0.50
Barium	0.50	.017	.038		
Beryllium	0.25	.013	.03		
Boron	2.5	.29	.25		
Cadmium	0.25	.01	.016		
Calcium	130	12	3.1		
Chromium	2.0	.037	.29		
Cobalt	0.25	.004	.016		
Copper	2.0	.024	.036		
Iron	25	3.5	1.9		
Lead	0.25	.0055	.012		
Magnesium	130	1.2	1.4		
Manganese	0.25	.036	.02		
Molybdenum	0.50	.071	.096		
Nickel	2.0	.027	.026		
Potassium	130	2.5	3.9		
Selenium	0.50	.042	.058		
Silver	1.0	.0065	.022		
Sodium	130	5.9	1.3		
Strontium	0.50	.013	.0082		
Thallium	0.25	.012	.0051		
Tin	0.50	.039			
Titanium	0.50	.04	.27		
Uranium	0.50				
Vanadium	2.0	.24	.79		
Zinc	2.0	.25	.91		

Associated samples MP53399: T55001-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: T55001
 Account: ALGC - Accutest Laboratories Gulf Coast, Inc.
 Project: LTENCOR: Specialty 1 BBC1008

QC Batch ID: MP53399
 Matrix Type: SOLID

Methods: SW846 6020
 Units: mg/kg

Prep Date: 06/28/10

Metal	T55002-3 Original MS		Spikelot MPIRS1	% Rec	QC Limits
Aluminum					
Antimony					
Arsenic	3.2	429	401	106.2	75-125
Barium					
Beryllium					
Boron					
Cadmium					
Calcium					
Chromium					
Cobalt					
Copper					
Iron					
Lead					
Magnesium					
Manganese					
Molybdenum					
Nickel					
Potassium					
Selenium					
Silver					
Sodium					
Strontium					
Thallium					
Tin					
Titanium					
Uranium					
Vanadium					
Zinc					

Associated samples MP53399: T55001-1

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: T55001
 Account: ALGC - Accutest Laboratories Gulf Coast, Inc.
 Project: LTENCOR: Specialty 1 BBC1008

QC Batch ID: MP53399
 Matrix Type: SOLID

Methods: SW846 6020
 Units: mg/kg

Prep Date: 06/28/10

Metal	T55002-3 Original	MSD	Spikelot MPIRS1	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic	3.2	458	426	106.8	6.5	20
Barium						
Beryllium						
Boron						
Cadmium						
Calcium						
Chromium						
Cobalt						
Copper						
Iron						
Lead						
Magnesium						
Manganese						
Molybdenum						
Nickel						
Potassium						
Selenium						
Silver						
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Uranium						
Vanadium						
Zinc						

Associated samples MP53399: T55001-1

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: T55001
 Account: ALGC - Accutest Laboratories Gulf Coast, Inc.
 Project: LTENCOR: Specialty 1 BBC1008

QC Batch ID: MP53399
 Matrix Type: SOLID

Methods: SW846 6020
 Units: mg/kg

Prep Date: 06/28/10

Metal	BSP Result	Spikelot MPIRS1	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic	408	400	102.0	80-120
Barium				
Beryllium				
Boron				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron				
Lead				
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Uranium				
Vanadium				
Zinc				

Associated samples MP53399: T55001-1

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: T55001
 Account: ALGC - Accutest Laboratories Gulf Coast, Inc.
 Project: LTENCOR: Specialty 1 BBC1008

QC Batch ID: MP53399
 Matrix Type: SOLID

Methods: SW846 6020
 Units: ug/l

Prep Date: 06/28/10

Metal	T55002-3	QC
Original	SDL 5:25 %DIF	Limits

Aluminum				
Antimony				
Arsenic	32.3	33.5	3.9	0-10
Barium				
Beryllium				
Boron				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron				
Lead				
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Uranium				
Vanadium				
Zinc				

Associated samples MP53399: T55001-1

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

October 05, 2010

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

RE: BBC - Specialty #1 Pipeline Release

Enclosed are the results of analyses for samples received by Summit Scientific on 09/21/10 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 'LS' followed by a long, sweeping horizontal line.

Logan Shrewsbury For Ben Shrewsbury
President / Laboratory Director



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

Project: BBC - Specialty #1 Pipeline Release
Project Number: BBC 1008.02
Project Manager: Asher Weinberg

Reported:
10/05/10 18:34

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
C01	R009172-01	Soil	09/20/10 11:54	09/21/10 10:30
C02	R009172-02	Soil	09/20/10 12:05	09/21/10 10:30
C03	R009172-03	Soil	09/20/10 12:13	09/21/10 10:30

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

Project: BBC - Specialty #1 Pipeline Release

Project Number: BBC 1008.02
Project Manager: Asher Weinberg

Reported:
10/05/10 18:34

Summit Scientific
7009172

74 Corporate Circle Suite I ♦ Golden, Colorado 80401
303-277-9310 ♦ 303-277-9531 Fax

Page _____ of _____

Client: LT Environmental

920 Morgan Avenue Unit B

Address: 870 Megan Avenue Om

City/State/Zip: Rifle, CO 81650

Phone: (970) 285-9985 Fax: (970) 285-9985

Phone: (710) 202-7702 Fax: (710) 202-7703

Project Manager: Asher Weinberg

www.inkore@itany

E-Mail: awemba@att.net

Project Name: Specilaty #1 P. 6

Project Number:

Preservative			Matrix			Analyze For:						Special Instructions							
Sample Description	Date Sampled	Time Sampled	Number of Containers	HCl	HNO ₃	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)		8260 BTEX	TPH (C6-C28)	Table 910-1 Metals*	PAHs 8270 SIM	EC	pH	
C01	9/20/2010	11:54	5			X			X			X	X	X	X	X	X		If EC exceeds 4 minutes per cm please run SAR
C02	9/20/2010	12:05	5			X			X			X	X	X	X	X			
C03	9/20/2010	12:13	5			X			X			X	X	X	X	X			
Relinquished by:			Date/Time:	Received by:	Date/Time:			Turn Around Time (Check)			Notes:								
			9/20/10 14:50				9-20-10 10:30	Same Day	72 Hours	*As, Ba, Cd, Cr, Pb, Cu, Fe, Ni, Se, Ag, Zn									
Relinquished by:			Date/Time:	Received by:	Date/Time:			Sample Integrity:			Temperature Upon Receipt:								
								Intact: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			4-4								
Relinquished by:			Date/Time:	Received in Lab by:	Date/Time:														

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LT Environmental, Inc.
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Arvada CO, 80003

Project: BBC - Specialty #1 Pipeline Release
Project Number: BBC 1008.02
Project Manager: Asher Weinberg

Reported:
10/05/10 18:34

C01
R009172-01 (Soil)

Summit Scientific

Semivolatile Organic Compounds by EPA Method 8270D SIM

Date Sampled: 09/20/10 11:54

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	5.00	ug/kg	1	0093006	09/30/10	10/02/10	EPA 8270D SIM	
Acenaphthylene	ND	5.00	"	"	"	"	"	"	
Anthracene	ND	5.00	"	"	"	"	"	"	
Benzo (a) anthracene	ND	5.00	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	5.00	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	5.00	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	5.00	"	"	"	"	"	"	
Benzo (a) pyrene	ND	5.00	"	"	"	"	"	"	
Chrysene	ND	5.00	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	10.0	"	"	"	"	"	"	
Fluoranthene	ND	5.00	"	"	"	"	"	"	
Fluorene	ND	5.00	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	10.0	"	"	"	"	"	"	
Naphthalene	ND	5.00	"	"	"	"	"	"	
Phenanthrene	ND	5.00	"	"	"	"	"	"	
Pyrene	ND	5.00	"	"	"	"	"	"	

Date Sampled: 09/20/10 11:54

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: Nitrobenzene-d5		43.8 %	30-120		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		69.3 %	30-120		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		40.1 %	30-120		"	"	"	"	
Surrogate: Terphenyl-d14		70.1 %	30-120		"	"	"	"	

Total Petroleum Hydrocarbons by 8015

Date Sampled: 09/20/10 11:54

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	0092110	09/21/10	09/22/10	8015 DRO	

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LT Environmental, Inc.
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Project: BBC - Specialty #1 Pipeline Release
Project Number: BBC 1008.02
Project Manager: Asher Weinberg

Reported:
10/05/10 18:34

C01
R009172-01 (Soil)

Summit Scientific

Total Petroleum Hydrocarbons by 8015

Date Sampled: **09/20/10 11:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		102 %	88.8-124		0092110	09/21/10	09/22/10	8015 DRO	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/20/10 11:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	0092111	09/21/10	09/22/10	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/20/10 11:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		110 %	67.4-143		"	"	"	"	
Surrogate: Toluene-d8		98.0 %	77.3-114		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	78.4-125		"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/20/10 11:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.14	0.00100	mmhos/cm	1	0092108	09/21/10	09/21/10	SM 2510b/mod	

Date Sampled: **09/20/10 11:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.3		pH Units	"	0092109	09/21/10	09/21/10	EPA 9045B	

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Project: BBC - Specialty #1 Pipeline Release
Project Number: BBC 1008.02
Project Manager: Asher Weinberg

Reported:
10/05/10 18:34

C01
R009172-01 (Soil)

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Colorado Analytical Laboratories

Date Sampled: **09/20/10 11:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	4.33	0.05	mg/kg	1	0100505	10/04/10	10/04/10	SW6010B	
Barium	227.1	0.1	"	"	"	"	"	"	
Cadmium	0.3	0.1	"	"	"	"	"	"	
Copper	75.7	0.1	"	"	"	"	"	"	
Lead	18.2	0.1	"	"	"	"	"	"	
Nickel	15.6	0.1	"	"	"	"	"	"	
Selenium	1.21	0.05	"	"	"	"	"	"	
Silver	ND	0.1	"	"	"	"	"	"	
Zinc	64.18	0.05	"	"	"	"	"	"	

Colorado Analytical Laboratories - Total Metals by APHA/EPA Methods

Date Sampled: **09/20/10 11:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Mercury	ND	0.05	mg/kg	1	0100505	09/30/10	09/30/10	EPA 7471A	

Evergreen Analytical Laboratories

Date Sampled: **09/20/10 11:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium	11.9	1.1	mg/kg	1	0100501	10/05/10	10/05/10	EPA 6010A	

Evergreen Analytical - 6010 Hexavalent Chromium, Soil (3060A Mod Digest)

Date Sampled: **09/20/10 11:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.56	mg/kg	1	0100501	"	10/05/10	SW6010B Cr6	

Evergreen Analytical - Trivalent Chromium, Calculated, Soil Basis

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LT Environmental, Inc.
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Arvada CO, 80003

Project: BBC - Specialty #1 Pipeline Release

Project Number: BBC 1008.02
Project Manager: Asher Weinberg

Reported:
10/05/10 18:34

C01
R009172-01 (Soil)

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Evergreen Analytical - Trivalent Chromium, Calculated, Soil Basis

Date Sampled: **09/20/10 11:54**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium+3 Calculated	11.9	1.7	mg/kg	1	0100501	10/05/10	10/05/10	CalcCr+3	

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

Project: BBC - Specialty #1 Pipeline Release
Project Number: BBC 1008.02
Project Manager: Asher Weinberg

Reported:
10/05/10 18:34

C02
R009172-02 (Soil)

Summit Scientific

Semivolatile Organic Compounds by EPA Method 8270D SIM

Date Sampled: **09/20/10 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	5.00	ug/kg	1	0093006	09/30/10	10/02/10	EPA 8270D SIM	
Acenaphthylene	ND	5.00	"	"	"	"	"	"	
Anthracene	ND	5.00	"	"	"	"	"	"	
Benzo (a) anthracene	ND	5.00	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	5.00	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	5.00	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	5.00	"	"	"	"	"	"	
Benzo (a) pyrene	ND	5.00	"	"	"	"	"	"	
Chrysene	ND	5.00	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	10.0	"	"	"	"	"	"	
Fluoranthene	ND	5.00	"	"	"	"	"	"	
Fluorene	ND	5.00	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	10.0	"	"	"	"	"	"	
Naphthalene	ND	5.00	"	"	"	"	"	"	
Phenanthrene	ND	5.00	"	"	"	"	"	"	
Pyrene	ND	5.00	"	"	"	"	"	"	

Date Sampled: **09/20/10 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: Nitrobenzene-d5		62.1 %	30-120		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		90.2 %	30-120		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		42.8 %	30-120		"	"	"	"	
Surrogate: Terphenyl-d14		54.8 %	30-120		"	"	"	"	

Total Petroleum Hydrocarbons by 8015

Date Sampled: **09/20/10 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	0092110	09/21/10	09/22/10	8015 DRO	

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

Project: BBC - Specialty #1 Pipeline Release
Project Number: BBC 1008.02
Project Manager: Asher Weinberg

Reported:
10/05/10 18:34

C02
R009172-02 (Soil)

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Total Petroleum Hydrocarbons by 8015

Date Sampled: **09/20/10 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		103 %	88.8-124		0092110	09/21/10	09/22/10	8015 DRO	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/20/10 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	0092111	09/21/10	09/22/10	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **09/20/10 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		113 %	67.4-143		"	"	"	"	
Surrogate: Toluene-d8		98.4 %	77.3-114		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	78.4-125		"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/20/10 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.497	0.00100	mmhos/cm	1	0092108	09/21/10	09/21/10	SM 2510b/mod	

Date Sampled: **09/20/10 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.1		pH Units	"	0092109	09/21/10	09/21/10	EPA 9045B	

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Project: BBC - Specialty #1 Pipeline Release
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Reported:
10/05/10 18:34

C02
R009172-02 (Soil)

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Colorado Analytical Laboratories

Date Sampled: **09/20/10 12:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	3.67	0.05	mg/kg	1	0100505	10/04/10	10/04/10	SW6010B	
Barium	380.4	0.1	"	"	"	"	"	"	
Cadmium	0.3	0.1	"	"	"	"	"	"	
Copper	13.5	0.1	"	"	"	"	"	"	
Lead	12.2	0.1	"	"	"	"	"	"	
Nickel	14.6	0.1	"	"	"	"	"	"	
Selenium	1.05	0.05	"	"	"	"	"	"	
Silver	ND	0.1	"	"	"	"	"	"	
Zinc	60.37	0.05	"	"	"	"	"	"	

Colorado Analytical Laboratories - Total Metals by APHA/EPA Methods

Date Sampled: **09/20/10 12:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Mercury	ND	0.05	mg/kg	1	0100505	09/30/10	09/30/10	EPA 7471A	

Evergreen Analytical Laboratories

Date Sampled: **09/20/10 12:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium	5.9	1.3	mg/kg	1	0100501	10/05/10	10/05/10	EPA 6010A	

Evergreen Analytical - 6010 Hexavalent Chromium, Soil (3060A Mod Digest)

Date Sampled: **09/20/10 12:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.68	mg/kg	1	0100501	"	10/05/10	SW6010B Cr6	

Evergreen Analytical - Trivalent Chromium, Calculated, Soil Basis

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Project: BBC - Specialty #1 Pipeline Release

Project Number: BBC 1008.02
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10/05/10 18:34

C02
R009172-02 (Soil)

Summit Scientific

Evergreen Analytical - Trivalent Chromium, Calculated, Soil Basis

Date Sampled: **09/20/10 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium+3 Calculated	5.9	2	mg/kg	1	0100501	10/05/10	10/05/10	CalcCr+3	

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Project: BBC - Specialty #1 Pipeline Release

Project Number: BBC 1008.02
Project Manager: Asher Weinberg

Reported:
10/05/10 18:34

C03
R009172-03 (Soil)

Summit Scientific

Semivolatile Organic Compounds by EPA Method 8270D SIM

Date Sampled: **09/20/10 12:13**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	5.00	ug/kg	1	0093006	09/30/10	10/02/10	EPA 8270D SIM	
Acenaphthylene	ND	5.00	"	"	"	"	"	"	
Anthracene	ND	5.00	"	"	"	"	"	"	
Benzo (a) anthracene	ND	5.00	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	5.00	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	5.00	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	5.00	"	"	"	"	"	"	
Benzo (a) pyrene	ND	5.00	"	"	"	"	"	"	
Chrysene	ND	5.00	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	10.0	"	"	"	"	"	"	
Fluoranthene	ND	5.00	"	"	"	"	"	"	
Fluorene	ND	5.00	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	10.0	"	"	"	"	"	"	
Naphthalene	ND	5.00	"	"	"	"	"	"	
Phenanthrene	ND	5.00	"	"	"	"	"	"	
Pyrene	ND	5.00	"	"	"	"	"	"	

Date Sampled: **09/20/10 12:13**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: Nitrobenzene-d5		71.9 %	30-120		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		86.0 %	30-120		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		70.6 %	30-120		"	"	"	"	
Surrogate: Terphenyl-d14		79.3 %	30-120		"	"	"	"	

Total Petroleum Hydrocarbons by 8015

Date Sampled: **09/20/10 12:13**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	0092110	09/21/10	09/22/10	8015 DRO	

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Project: BBC - Specialty #1 Pipeline Release
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Reported:
10/05/10 18:34

C03
R009172-03 (Soil)

Summit Scientific

Total Petroleum Hydrocarbons by 8015

Date Sampled: **09/20/10 12:13**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		102 %	88.8-124		0092110	09/21/10	09/22/10	8015 DRO	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **09/20/10 12:13**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	0092111	09/21/10	09/22/10	EPA 8260B	
Toluene	0.012	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.011	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.12	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	2.8	0.50	"	"	"	"	"	"	

Date Sampled: **09/20/10 12:13**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		115 %	67.4-143		"	"	"	"	
Surrogate: Toluene-d8		83.3 %	77.3-114		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		117 %	78.4-125		"	"	"	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **09/20/10 12:13**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	3.60	0.00100	mmhos/cm	1	0092108	09/21/10	09/21/10	SM 2510b/mod	

Date Sampled: **09/20/10 12:13**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.8		pH Units	"	0092109	09/21/10	09/21/10	EPA 9045B	

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Project: BBC - Specialty #1 Pipeline Release
Project Number: BBC 1008.02
Project Manager: Asher Weinberg

Reported:
10/05/10 18:34

C03
R009172-03 (Soil)

Summit Scientific

Colorado Analytical Laboratories

Date Sampled: **09/20/10 12:13**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	4.94	0.05	mg/kg	1	0100505	10/04/10	10/04/10	SW6010B	
Barium	581.5	0.1	"	"	"	"	"	"	
Cadmium	0.3	0.1	"	"	"	"	"	"	
Copper	13.3	0.1	"	"	"	"	"	"	
Lead	11.5	0.1	"	"	"	"	"	"	
Nickel	14.8	0.1	"	"	"	"	"	"	
Selenium	1.06	0.05	"	"	"	"	"	"	
Silver	ND	0.1	"	"	"	"	"	"	
Zinc	55.04	0.05	"	"	"	"	"	"	

Colorado Analytical Laboratories - Total Metals by APHA/EPA Methods

Date Sampled: **09/20/10 12:13**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Mercury	ND	0.05	mg/kg	1	0100505	09/30/10	09/30/10	EPA 7471A	

Evergreen Analytical Laboratories

Date Sampled: **09/20/10 12:13**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium	7.9	1.2	mg/kg	1	0100501	10/05/10	10/05/10	EPA 6010A	

Evergreen Analytical - 6010 Hexavalent Chromium, Soil (3060A Mod Digest)

Date Sampled: **09/20/10 12:13**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.62	mg/kg	1	0100501	"	10/05/10	SW6010B Cr6	

Evergreen Analytical - Trivalent Chromium, Calculated, Soil Basis

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

Project: BBC - Specialty #1 Pipeline Release
Project Number: BBC 1008.02
Project Manager: Asher Weinberg

Reported:
10/05/10 18:34

C03
R009172-03 (Soil)

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Evergreen Analytical - Trivalent Chromium, Calculated, Soil Basis

Date Sampled: **09/20/10 12:13**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium+3 Calculated	7.9	1.8	mg/kg	1	0100501	10/05/10	10/05/10	CalcCr+3	

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

Project: BBC - Specialty #1 Pipeline Release
Project Number: BBC 1008.02
Project Manager: Asher Weinberg

Reported:
10/05/10 18:34

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

Summit Scientific

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

Batch 0093006 - EPA 3550A

Blank (0093006-BLK1)

Prepared: 09/30/10 Analyzed: 10/02/10

Acenaphthene	ND	5.00	ug/kg							
Acenaphthylene	ND	5.00	"							
Anthracene	ND	5.00	"							
Benzo (a) anthracene	ND	5.00	"							
Benzo (b) fluoranthene	ND	5.00	"							
Benzo (k) fluoranthene	ND	5.00	"							
Benzo (g,h,i) perylene	ND	5.00	"							
Benzo (a) pyrene	ND	5.00	"							
Chrysene	ND	5.00	"							
Dibenz (a,h) anthracene	ND	10.0	"							
Fluoranthene	ND	5.00	"							
Fluorene	ND	5.00	"							
Indeno (1,2,3-cd) pyrene	ND	10.0	"							
Naphthalene	ND	5.00	"							
Phenanthrene	ND	5.00	"							
Pyrene	ND	5.00	"							
Surrogate: Nitrobenzene-d5	14.9		"	33.3	44.7		30-120			
Surrogate: 2-Fluorobiphenyl	18.6		"	33.3	55.8		30-120			
Surrogate: 2,4,6-Tribromophenol	7.94		"	33.3	23.8		30-120			
Surrogate: Terphenyl-d14	33.7		"	33.3	101		30-120			

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

Project: BBC - Specialty #1 Pipeline Release
Project Number: BBC 1008.02
Project Manager: Asher Weinberg

Reported:
10/05/10 18:34

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

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

Batch 0093006 - EPA 3550A

LCS (0093006-BS1)

Prepared: 09/30/10 Analyzed: 10/02/10

Acenaphthene	14.8	5.00	ug/kg	33.3	44.3	30-120	30
Acenaphthylene	13.9	5.00	"	33.3	41.7	30-120	30
Anthracene	18.6	5.00	"	33.3	55.9	30-120	30
Benzo (a) anthracene	40.7	5.00	"	33.3	122	30-120	30
Benzo (b) fluoranthene	80.4	5.00	"	33.3	241	30-120	30
Benzo (k) fluoranthene	58.2	5.00	"	33.3	175	30-120	30
Benzo (g,h,i) perylene	68.8	5.00	"	33.3	206	30-120	30
Benzo (a) pyrene	67.9	5.00	"	33.3	204	30-120	30
Chrysene	49.5	5.00	"	33.3	148	30-120	30
Dibenz (a,h) anthracene	68.5	10.0	"	33.3	205	30-120	30
Fluoranthene	23.7	5.00	"	33.3	71.2	30-120	30
Fluorene	15.1	5.00	"	33.3	45.3	30-120	30
Indeno (1,2,3-cd) pyrene	68.5	10.0	"	33.3	206	30-120	30
Naphthalene	15.2	5.00	"	33.3	45.6	30-120	30
Phenanthrene	19.0	5.00	"	33.3	57.0	30-120	30
Pyrene	39.3	5.00	"	33.3	118	30-120	30
Surrogate: Nitrobenzene-d5	19.1		"	33.3	57.4	30-120	
Surrogate: 2-Fluorobiphenyl	16.2		"	33.3	48.7	30-120	
Surrogate: 2,4,6-Tribromophenol	9.52		"	33.3	28.6	30-120	
Surrogate: Terphenyl-dl4	50.1		"	33.3	150	30-120	

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

Project: BBC - Specialty #1 Pipeline Release
Project Number: BBC 1008.02
Project Manager: Asher Weinberg

Reported:
10/05/10 18:34

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

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

Batch 0093006 - EPA 3550A

Matrix Spike (0093006-MS1)	Source: R009172-02			Prepared: 09/30/10	Analyzed: 10/02/10			
Acenaphthene	17.8	5.00	ug/kg	33.3	ND	53.5	30-120	30
Acenaphthylene	14.8	5.00	"	33.3	ND	44.5	30-120	30
Anthracene	9.58	5.00	"	33.3	ND	28.7	30-120	30
Benzo (a) anthracene	19.8	5.00	"	33.3	ND	59.4	30-120	30
Benzo (b) fluoranthene	47.1	5.00	"	33.3	ND	141	30-120	30
Benzo (k) fluoranthene	36.5	5.00	"	33.3	ND	109	30-120	30
Benzo (g,h,i) perylene	43.3	5.00	"	33.3	ND	130	30-120	30
Benzo (a) pyrene	30.4	5.00	"	33.3	ND	91.3	30-120	30
Chrysene	28.1	5.00	"	33.3	ND	84.4	30-120	30
Dibenz (a,h) anthracene	44.5	10.0	"	33.3	ND	134	30-120	30
Fluoranthene	22.7	5.00	"	33.3	ND	68.0	30-120	30
Fluorene	23.9	5.00	"	33.3	ND	71.8	30-120	30
Indeno (1,2,3-cd) pyrene	41.3	10.0	"	33.3	ND	124	30-120	30
Naphthalene	17.0	5.00	"	33.3	ND	51.1	30-120	30
Phenanthrene	23.1	5.00	"	33.3	ND	69.4	30-120	30
Pyrene	13.9	5.00	"	33.3	ND	41.8	30-120	30
Surrogate: Nitrobenzene-d5	19.8		"	33.3		59.3	30-120	
Surrogate: 2-Fluorobiphenyl	23.0		"	33.3		69.1	30-120	
Surrogate: 2,4,6-Tribromophenol	15.0		"	33.3		45.0	30-120	
Surrogate: Terphenyl-d14	22.0		"	33.3		66.0	30-120	

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

Project: BBC - Specialty #1 Pipeline Release
Project Number: BBC 1008.02
Project Manager: Asher Weinberg

Reported:
10/05/10 18:34

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

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

Batch 0093006 - EPA 3550A

Matrix Spike Dup (0093006-MSD1)		Source: R009172-02			Prepared: 09/30/10		Analyzed: 10/02/10			
Acenaphthene	17.8	5.00	ug/kg	33.3	ND	53.5	30-120	0.0505	30	
Acenaphthylene	16.1	5.00	"	33.3	ND	48.3	30-120	8.13	30	
Anthracene	18.9	5.00	"	33.3	ND	56.8	30-120	65.7	30	
Benzo (a) anthracene	37.7	5.00	"	33.3	ND	113	30-120	62.3	30	
Benzo (b) fluoranthene	82.3	5.00	"	33.3	ND	247	30-120	54.5	30	
Benzo (k) fluoranthene	48.1	5.00	"	33.3	ND	144	30-120	27.5	30	
Benzo (g,h,i) perylene	65.2	5.00	"	33.3	ND	196	30-120	40.5	30	
Benzo (a) pyrene	65.7	5.00	"	33.3	ND	197	30-120	73.3	30	
Chrysene	42.5	5.00	"	33.3	ND	128	30-120	40.7	30	
Dibenz (a,h) anthracene	64.2	10.0	"	33.3	ND	193	30-120	36.2	30	
Fluoranthene	24.4	5.00	"	33.3	ND	73.3	30-120	7.54	30	
Fluorene	18.9	5.00	"	33.3	ND	56.7	30-120	23.5	30	
Indeno (1,2,3-cd) pyrene	67.4	10.0	"	33.3	ND	202	30-120	48.0	30	
Naphthalene	16.6	5.00	"	33.3	ND	49.7	30-120	2.93	30	
Phenanthrene	23.0	5.00	"	33.3	ND	68.9	30-120	0.785	30	
Pyrene	32.5	5.00	"	33.3	ND	97.6	30-120	80.0	30	
Surrogate: Nitrobenzene-d5	20.4		"	33.3		61.2	30-120			
Surrogate: 2-Fluorobiphenyl	19.0		"	33.3		57.0	30-120			
Surrogate: 2,4,6-Tribromophenol	15.6		"	33.3		46.7	30-120			
Surrogate: Terphenyl-dl4	35.8		"	33.3		107	30-120			

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

Project: BBC - Specialty #1 Pipeline Release
Project Number: BBC 1008.02
Project Manager: Asher Weinberg

Reported:
10/05/10 18:34

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

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

Total Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch 0092110 - EPA 3550A

Blank (0092110-BLK1)

Prepared: 09/21/10 Analyzed: 09/22/10

C10-C28 (DRO) ND 50 mg/kg

Surrogate: o-Terphenyl 12.5 " 12.5 99.8 88.8-124

Blank (0092110-BLK2)

Prepared: 09/21/10 Analyzed: 09/22/10

C10-C28 (DRO) ND 50 mg/kg

Surrogate: o-Terphenyl 12.0 " 12.5 96.2 88.8-124

LCS (0092110-BS1)

Prepared: 09/21/10 Analyzed: 09/22/10

C10-C28 (DRO) ND 50 mg/kg 81.4-129 9.26

LCS (0092110-BS2)

Prepared: 09/21/10 Analyzed: 09/22/10

C10-C28 (DRO) 490 50 mg/kg 501 97.9 81.4-129 9.26

LCS Dup (0092110-BSD1)

Prepared: 09/21/10 Analyzed: 09/22/10

C10-C28 (DRO) ND 50 mg/kg 81.4-129 9.26

LCS Dup (0092110-BSD2)

Prepared: 09/21/10 Analyzed: 09/22/10

C10-C28 (DRO) 498 50 mg/kg 501 99.4 81.4-129 1.56 9.26

Matrix Spike (0092110-MS1)

Source: R009173-01

Prepared: 09/21/10 Analyzed: 09/22/10

C10-C28 (DRO) ND 50 mg/kg 77.8-133 8.48

Matrix Spike (0092110-MS2)

Source: R009173-01

Prepared: 09/21/10 Analyzed: 09/22/10

C10-C28 (DRO) 512 50 mg/kg 501 102 77.8-133 8.48

Matrix Spike Dup (0092110-MSD1)

Source: R009173-01

Prepared: 09/21/10 Analyzed: 09/22/10

C10-C28 (DRO) 512 50 mg/kg 77.8-133 8.48

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

Project: BBC - Specialty #1 Pipeline Release
Project Number: BBC 1008.02
Project Manager: Asher Weinberg

Reported:
10/05/10 18:34

Total Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch 0092110 - EPA 3550A

Matrix Spike Dup (0092110-MSD2)

Source: R009173-01

Prepared: 09/21/10 Analyzed: 09/22/10

C10-C28 (DRO)	519	50	mg/kg	501	104	77.8-133	1.35	8.48
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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: BBC - Specialty #1 Pipeline Release
Project Number: BBC 1008.02
Project Manager: Asher Weinberg

Reported:
10/05/10 18:34

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

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

Batch 0092111 - EPA 5030 Soil MS

Blank (0092111-BLK1)

Prepared: 09/21/10 Analyzed: 09/22/10

Benzene	ND	0.0050	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	0.0383		"	0.0400	95.8	67.4-143				
Surrogate: Toluene-d8	0.0385		"	0.0400	96.2	77.3-114				
Surrogate: 4-Bromofluorobenzene	0.0406		"	0.0400	101	78.4-125				

LCS (0092111-BS1)

Prepared: 09/21/10 Analyzed: 09/22/10

Benzene	0.0985	0.0050	mg/kg	0.100	98.5	61-139		11.1		
Toluene	0.0909	0.0050	"	0.100	90.9	64-132		10.9		
Ethylbenzene	0.0944	0.0050	"	0.100	94.4	68.7-135		20		
m,p-Xylene	0.179	0.010	"	0.200	89.3	70.4-129		20		
o-Xylene	0.0902	0.0050	"	0.100	90.2	66.9-126		20		
Surrogate: 1,2-Dichloroethane-d4	0.0402		"	0.0400	100	67.4-143				
Surrogate: Toluene-d8	0.0402		"	0.0400	101	77.3-114				
Surrogate: 4-Bromofluorobenzene	0.0391		"	0.0400	97.6	78.4-125				

LCS Dup (0092111-BSD1)

Prepared: 09/21/10 Analyzed: 09/22/10

Benzene	0.107	0.0050	mg/kg	0.100	107	61-139	8.49	11.1		
Toluene	0.0988	0.0050	"	0.100	98.8	64-132	8.32	10.9		
Ethylbenzene	0.101	0.0050	"	0.100	101	68.7-135	6.76	20		
m,p-Xylene	0.192	0.010	"	0.200	96.2	70.4-129	7.41	20		
o-Xylene	0.0968	0.0050	"	0.100	96.8	66.9-126	7.06	20		
Surrogate: 1,2-Dichloroethane-d4	0.0430		"	0.0400	107	67.4-143				
Surrogate: Toluene-d8	0.0405		"	0.0400	101	77.3-114				
Surrogate: 4-Bromofluorobenzene	0.0393		"	0.0400	98.3	78.4-125				

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

Project: BBC - Specialty #1 Pipeline Release
Project Number: BBC 1008.02
Project Manager: Asher Weinberg

Reported:
10/05/10 18:34

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

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

Batch 0092111 - EPA 5030 Soil MS

Matrix Spike (0092111-MS1)		Source: R009173-01			Prepared: 09/21/10		Analyzed: 09/22/10			
Benzene	0.0960	0.0050	mg/kg	0.100	ND	96.0	42.9-137		17.9	
Toluene	0.0664	0.0050	"	0.100	ND	66.4	42.6-130		11.9	
Ethylbenzene	0.0765	0.0050	"	0.100	ND	76.5	39-133		20	
m,p-Xylene	0.145	0.010	"	0.200	ND	72.6	34.7-134		20	
o-Xylene	0.0922	0.0050	"	0.100	ND	92.2	41.3-126		20	
Surrogate: 1,2-Dichloroethane-d4	0.0435		"	0.0400		109	67.4-143			
Surrogate: Toluene-d8	0.0404		"	0.0400		101	77.3-114			
Surrogate: 4-Bromofluorobenzene	0.0400		"	0.0400		100	78.4-125			
Matrix Spike Dup (0092111-MSD1)		Source: R009173-01			Prepared: 09/21/10		Analyzed: 09/22/10			
Benzene	0.0926	0.0050	mg/kg	0.100	ND	92.6	42.9-137	3.59	17.9	
Toluene	0.0630	0.0050	"	0.100	ND	63.0	42.6-130	5.24	11.9	
Ethylbenzene	0.0754	0.0050	"	0.100	ND	75.4	39-133	1.46	20	
m,p-Xylene	0.144	0.010	"	0.200	ND	72.2	34.7-134	0.560	20	
o-Xylene	0.0925	0.0050	"	0.100	ND	92.5	41.3-126	0.260	20	
Surrogate: 1,2-Dichloroethane-d4	0.0428		"	0.0400		107	67.4-143			
Surrogate: Toluene-d8	0.0400		"	0.0400		100	77.3-114			
Surrogate: 4-Bromofluorobenzene	0.0391		"	0.0400		97.7	78.4-125			

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

Project: BBC - Specialty #1 Pipeline Release
Project Number: BBC 1008.02
Project Manager: Asher Weinberg

Reported:
10/05/10 18:34

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

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

Batch 0092108 - General Preparation

Duplicate (0092108-DUP1) **Source: R009172-01** Prepared & Analyzed: 09/21/10

Specific Conductance (EC)	1.13	0.00100	mmhos/cm	1.14	0.529	20
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Batch 0092109 - General Preparation

Duplicate (0092109-DUP1) **Source: R009172-01** Prepared & Analyzed: 09/21/10

pH	9.1		pH Units	9.3	1.96	20
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LT Environmental, Inc.
4600 West 60th Avenue
Arvada CO, 80003

Project: BBC - Specialty #1 Pipeline Release
Project Number: BBC 1008.02
Project Manager: Asher Weinberg

Reported:
10/05/10 18:34

Notes and Definitions

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

A handwritten signature in black ink, appearing to be 'AM' followed by a long horizontal stroke.

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