FORM
27
Rev 6/99

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

OGCC Employee:

☐ Spill ☐ Complaint
☐ Inspection ☐ NOAV

Tracking No:

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.

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
Name of Operator: Bill Barrett Corporation
Address: 112 Red Feather Trail
City: Silt State: CO Zip: 81652

Contact Name and Telephone
Name: Scott Ghan
No: (970) 876-1959
Fax: (970) 876-0981

API/Facility No: 05-045-18493
Facility Name: Circle B #4 SWD
Well Name: Circle B
Location (QtrQtr, Sec, Twp, Rng, Meridian): NWSE Sec. 35 T6S R92W 6th PM

County: Garfield
Facility Number:
Well Number: Land #33A-35-692 SWD
Latitude: 39.481263 Longitde: -107.631292

TECHNICAL CONDITIONS

Type of Waste Causing Impact (crude oil, condensate, produced water, etc.): Crude oil and produced water

Site Conditions: Is location within a sensitive area (according to Rule 901e)? ☐ ☒ N If yes, attach evaluation.

Adjacent land use (cultivated, irrigated, dry land farming, industrial, residential, etc.): Open Pasture

Soil type, if not previously identified on Form 2A or Federal Surface Use Plan: Potts loam, 6 to 12 percent slopes

Potential receptors (water wells within 1/4 mi, surface waters, etc.): Groundwater is estimated to be greater than 20' below ground surface, a seasonal irrigation ditch is located 250' north of the spill, and a domestic water well is located 590' southwest of the spill.

Description of Impact (if previously provided, refer to that form or document):

Impacted Media (check):	Extent of Impact:	How Determined:
☐ Soils		
☐ Vegetation		
☐ Groundwater		
☐ Surface water		

REMEDIATION WORKPLAN

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

The valve to the tank releasing fluid was closed manually. The produced water/condensate in the lined containment was immediately removed by a vacuum truck. The remaining ballast material was flushed with fresh water and detergent to remove any residual hydrocarbons. BBC personnel visually inspected the exterior of the lined steel containment and found no evidence the liner system had been compromised. All released fluids were contained within the lined containment. The tank battery continues to operate at the facility. A Form 19 detailing the release was submitted on April 11, 2011 (Spill # 2213234).

Describe how source is to be removed:

Not Applicable

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.:

25 bbls of condensate and 15 bbls of produced water were recovered (100% of release) from within the lined containment with a vacuum truck and transported offsite for recycling at Bill Barrett Corporation's (BBC) centralized water facility.

Submit Page 2 with Page 1.

FORM 27 Rev 6/99

Page 2

State of Colorado
Oil and Gas Conservation Commission

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(303) 894-2100 Fax 894-2109

REMEDIATION WORKPLAN (CONT.)

OGCC Employeee:

Tracking Number:
Name of Operator: Bill Barrett Corporation
OGCC Operator No: 10071
Received Date:
Well Name & No: Circle B Land #33A-35-692 SWD
Facility Name & No.: Circle B #4 SWD

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

Groundwater was not encountered during remediation activities.

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.

No surface disturbance occurred during the release. All fluids were contained within the lined steel containment.

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 [X] N If yes, describe:

On April 14, 2011, composite sample C01 was collected from the ballast material (Figure 2) within secondary containment and was submitted for laboratory analysis of benzene, toluene, ethylbenzene, and total xylenes (BTEX) and total petroleum hydrocarbons (TPH)-gasoline range organics (GRO) by United States Environmental Protection Agency (EPA) Method 8260B, TPH-diesel range organics (DRO) by EPA Modified Method 8015, and semivolatile organic compounds (SVOCs) by EPA Method 8270D SIM. Analytical results (Table 1) indicated that benzo(a)pyrene, benzene, and TPH exceeded the Colorado Oil and Gas Conservation Commission (COGCC) Table 910-1 Concentration Levels.

On September 21, 2011, LTE personnel returned to the site for follow up sampling. Composite sample C01 was collected from the ballast material (Figure 3) and was analyzed for BTEX, TPH-GRO, TPH-DRO, and SVOCs. Laboratory analytical results indicated that the ballast material was compliant with the COGCC Concentration Levels with the exception of TPH which exhibited a Concentration Level of 1,302.3 milligrams per kilogram (mg/kg) due to TPH-DRO exhibiting a concentration level of 1,300 mg/kg.

On October 20, 2011, LTE personnel returned to the site for follow up sampling. Composite sample C01 was collected from the ballast material (Figure 4) and analyzed for TPH-DRO due to a previous exceedance. Analytical results indicated the ballast material continued to exceed the COGCC Concentration Level for TPH as a result of TPH-DRO exhibiting a concentration level of 660 mg/kg.

On June 29, 2012, LTE personnel returned to the site for follow up sampling. Composite sample C01 was collected from the ballast material (Figure 5) and analyzed for TPH-DRO due to a previous exceedance. Analytical results indicated the ballast material continued to exceed the COGCC Concentration Level for TPH as a result of TPH-DRO exhibiting a concentration level of 5,400 mg/kg. The variations in concentration are attributed to variation in sampling location and inherent variation in soil analysis.

Bill Barrett Corporation is requesting a No Further Action determination for this site despite an elevated TPH-DRO concentration due to the fact that the ballast material is inside lined steel containment and presents no risk to human health or the environment.

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

25 bbls of condensate and 15 bbls of produced water were recovered from within the lined containment with a vacuum truck and transported offsite for recycling at Bill Barrett Corporation's (BBC) centralized water facility.

IMPLEMENTATION SCHEDULE

Date Site Investigation Began:	4/14/2011	Date Site Investigation Completed:	6/29/2012	Remediation Plan Submitted:	NA
Remediation Start Date:	4/14/2011	Anticipated Completion Date:	NA	Actual Completion Date:	TBD

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

Print Name: Scott Ghan

Signed: _____ Title: **Environmental H&S Coordinator** Date: **9/12/2013**

OGCC Approved: _____ Title: _____ Date: _____

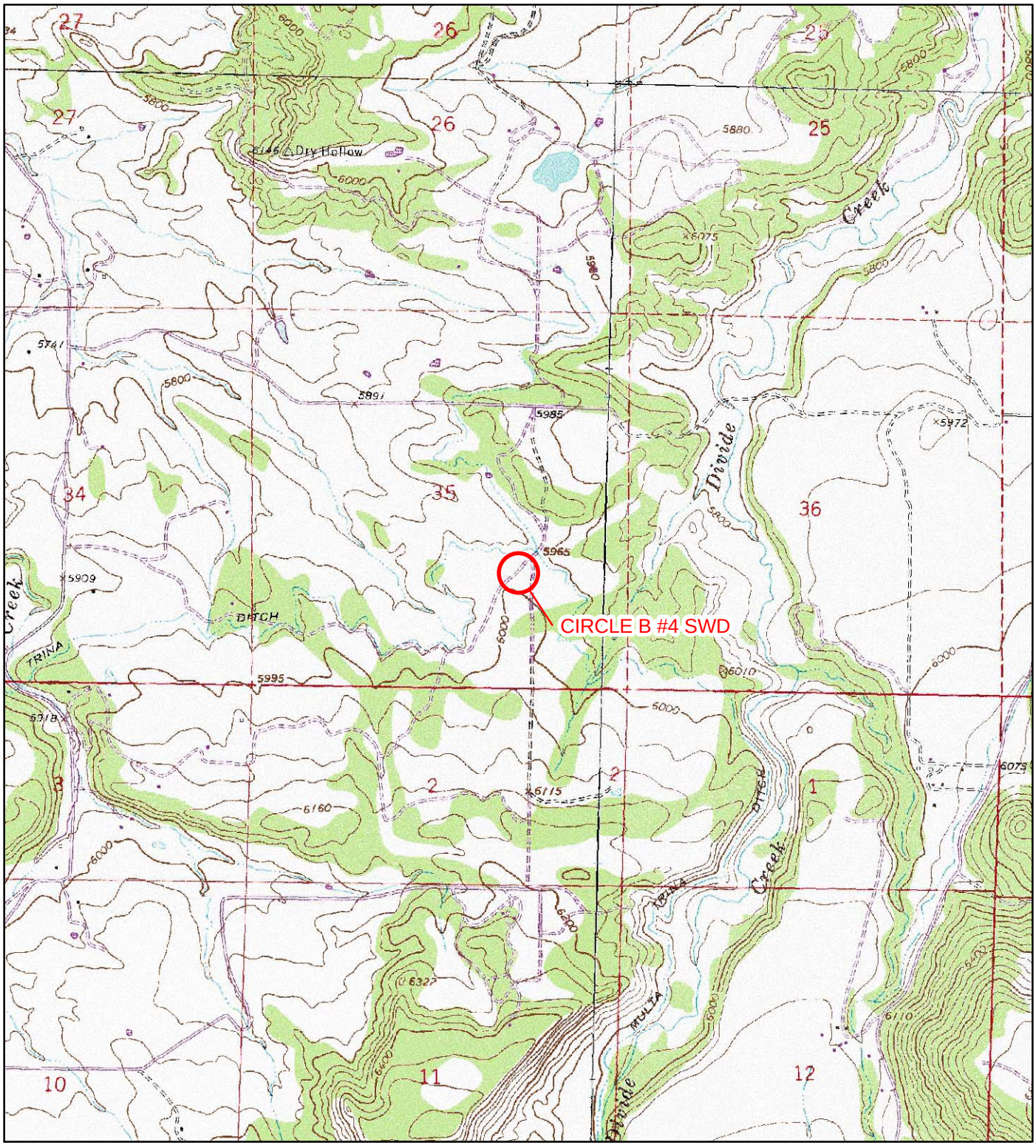


IMAGE COURTESY OF USDA/NRCS, VARIOUS DATES

LEGEND

SITE LOCATION

0 2,000 4,000

Feet

N

FIGURE 1
SITE LOCATION MAP
CIRCLE B #4 SWD
NWSE SEC 35 T6S R92W
GARFIELD COUNTY, COLORADO
BILL BARRETT CORPORATION

P:\Bill Barrett Corp\GIS\MXD\027311009 CIRCLE B #4 SWD\027311009_CIRCLE_B#4_SWD_FIG01_SL.mxd

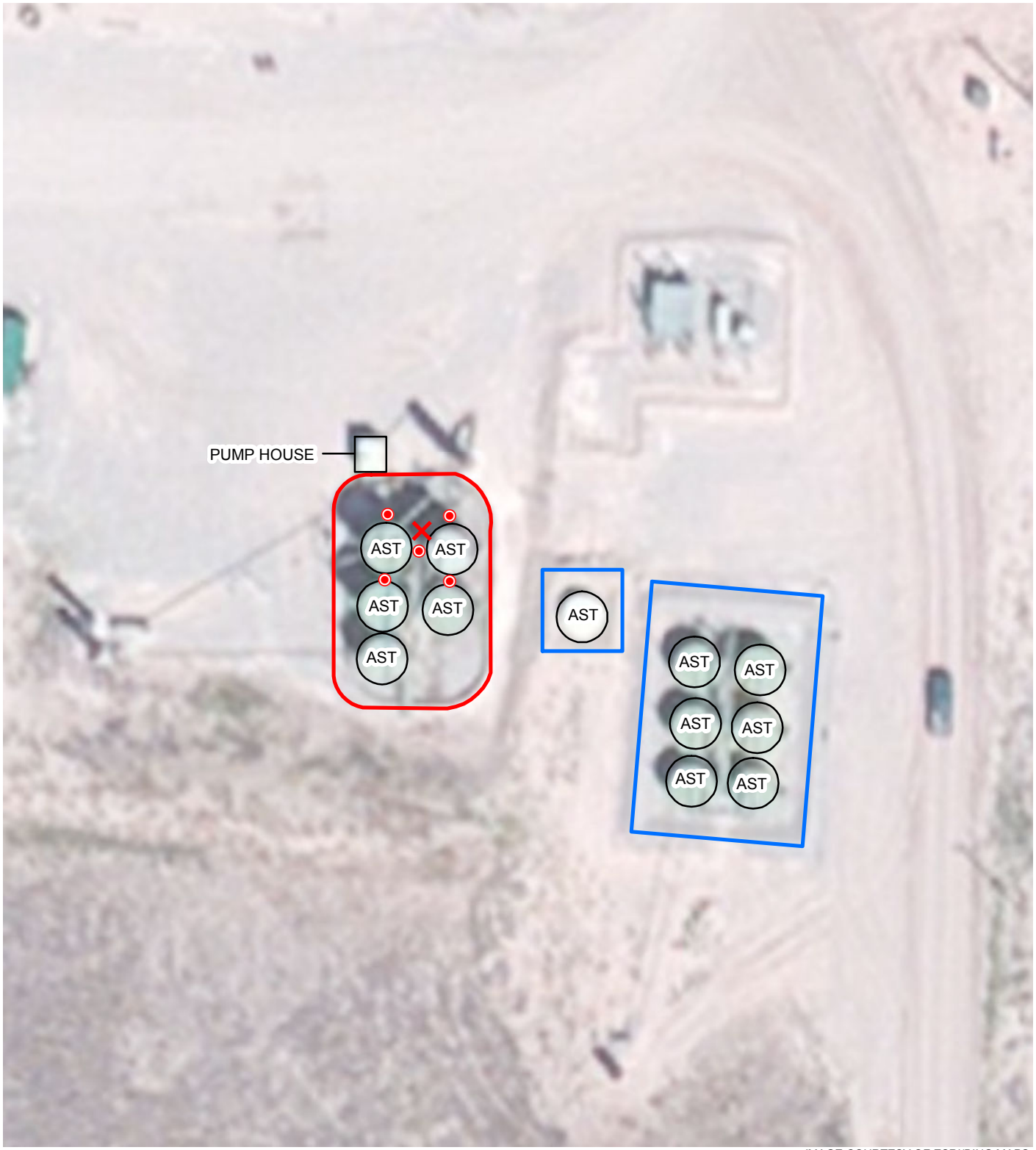


IMAGE COURTESY OF ESRI/BING MAPS

LEGEND

- COMPOSITE SOIL SAMPLE
- RELEASE
- EARTHEN CONTAINMENT
- LINED STEEL CONTAINMENT

AST: ABOVEGROUND STORAGE TANK

0 40 80
Feet

N

FIGURE 2
SITE MAP 4/14/2011
CIRCLE B #4 SWD
NWSE SEC 35 T6S-R92W
GARFIELD COUNTY, COLORADO
BILL BARRETT CORPORATION

P:\Bill Barrett Corp\GIS\MXD\027311009 CIRCLE B #4 SWD\027311009_CIRCLE_B_04_14_2011.mxd

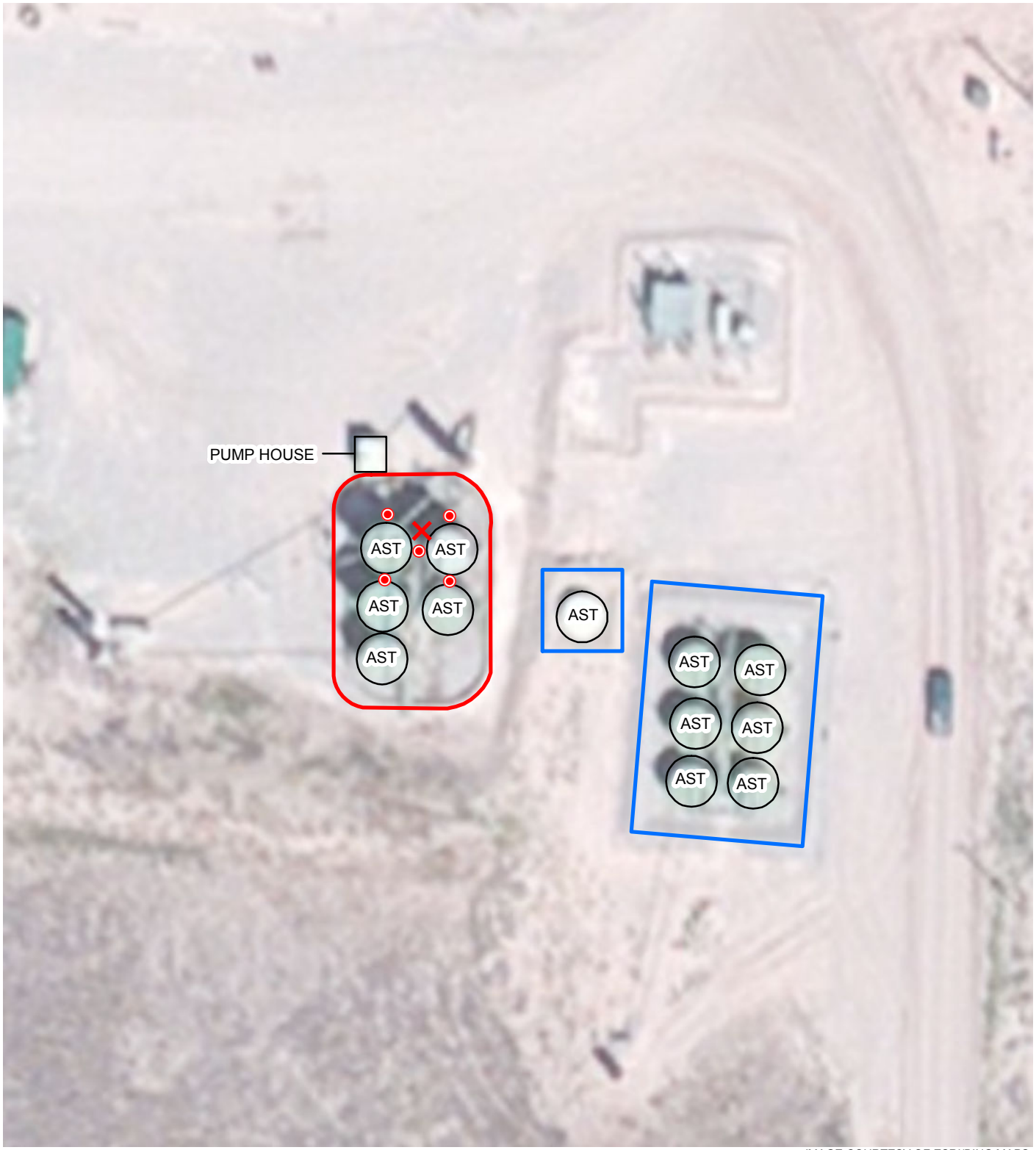


IMAGE COURTESY OF ESRI/BING MAPS

LEGEND

- COMPOSITE SOIL SAMPLE
- RELEASE
- EARTHEN CONTAINMENT
- LINED STEEL CONTAINMENT

AST: ABOVEGROUND STORAGE TANK

0 40 80
Feet

N

FIGURE 3
SITE MAP 9/21/2011
CIRCLE B #4 SWD
NWSE SEC 35 T6S-R92W
GARFIELD COUNTY, COLORADO
BILL BARRETT CORPORATION

P:\Bill Barrett Corp\GIS\MXD\027311009 CIRCLE B #4 SWD\027311009_CIRCLE_B_09_21_2011.mxd

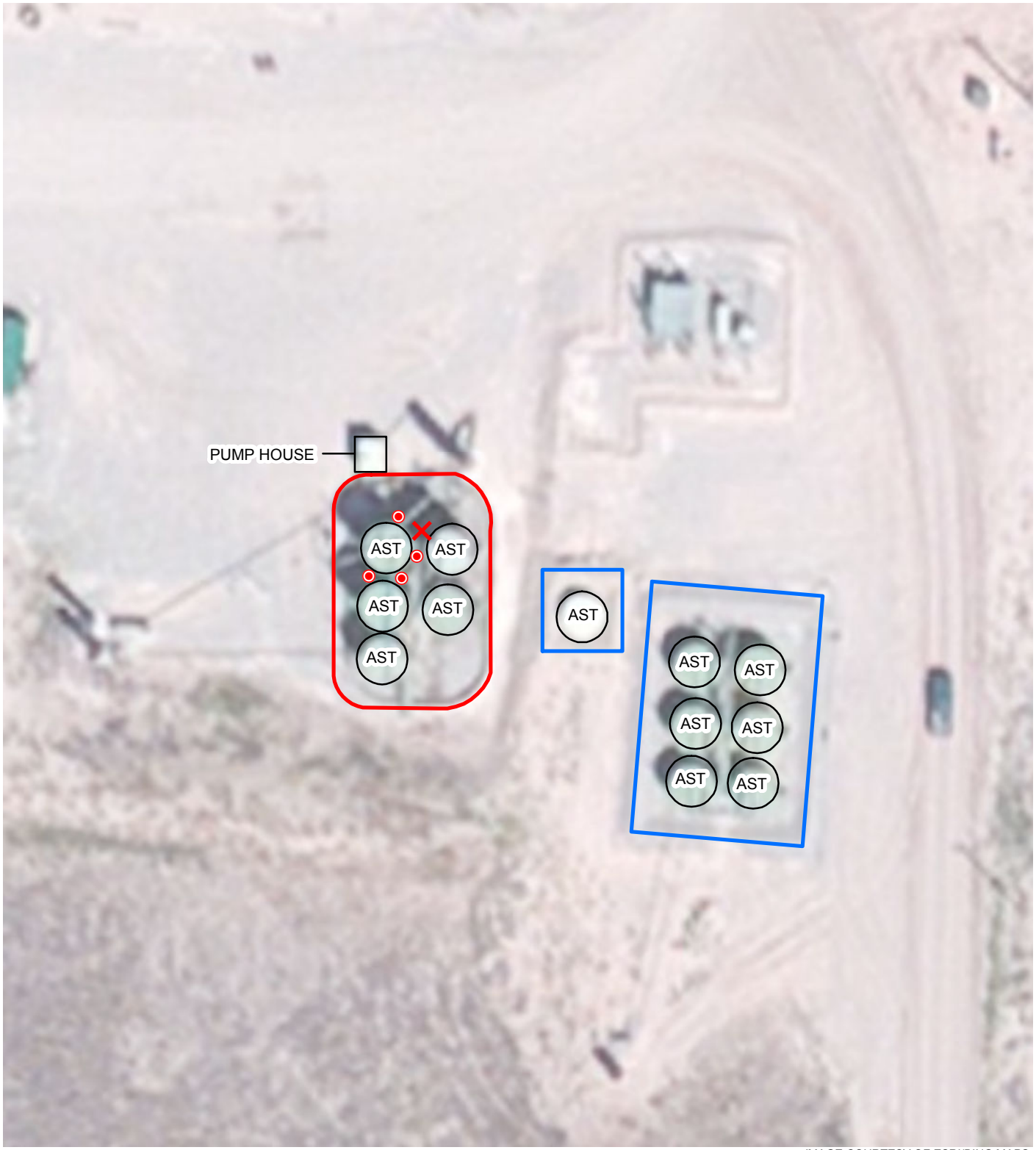


IMAGE COURTESY OF ESRI/BING MAPS

LEGEND

- COMPOSITE SOIL SAMPLE
- RELEASE
- EARTHEN CONTAINMENT
- LINED STEEL CONTAINMENT

AST: ABOVEGROUND STORAGE TANK

0 40 80
Feet

N

FIGURE 4
SITE MAP 10/20/2011
CIRCLE B #4 SWD
NWSE SEC 35 T6S-R92W
GARFIELD COUNTY, COLORADO
BILL BARRETT CORPORATION

P:\Bill Barrett Corp\GIS\MXD\027311009 CIRCLE B #4 SWD\027311009_CIRCLE_B_10_20_2011.mxd

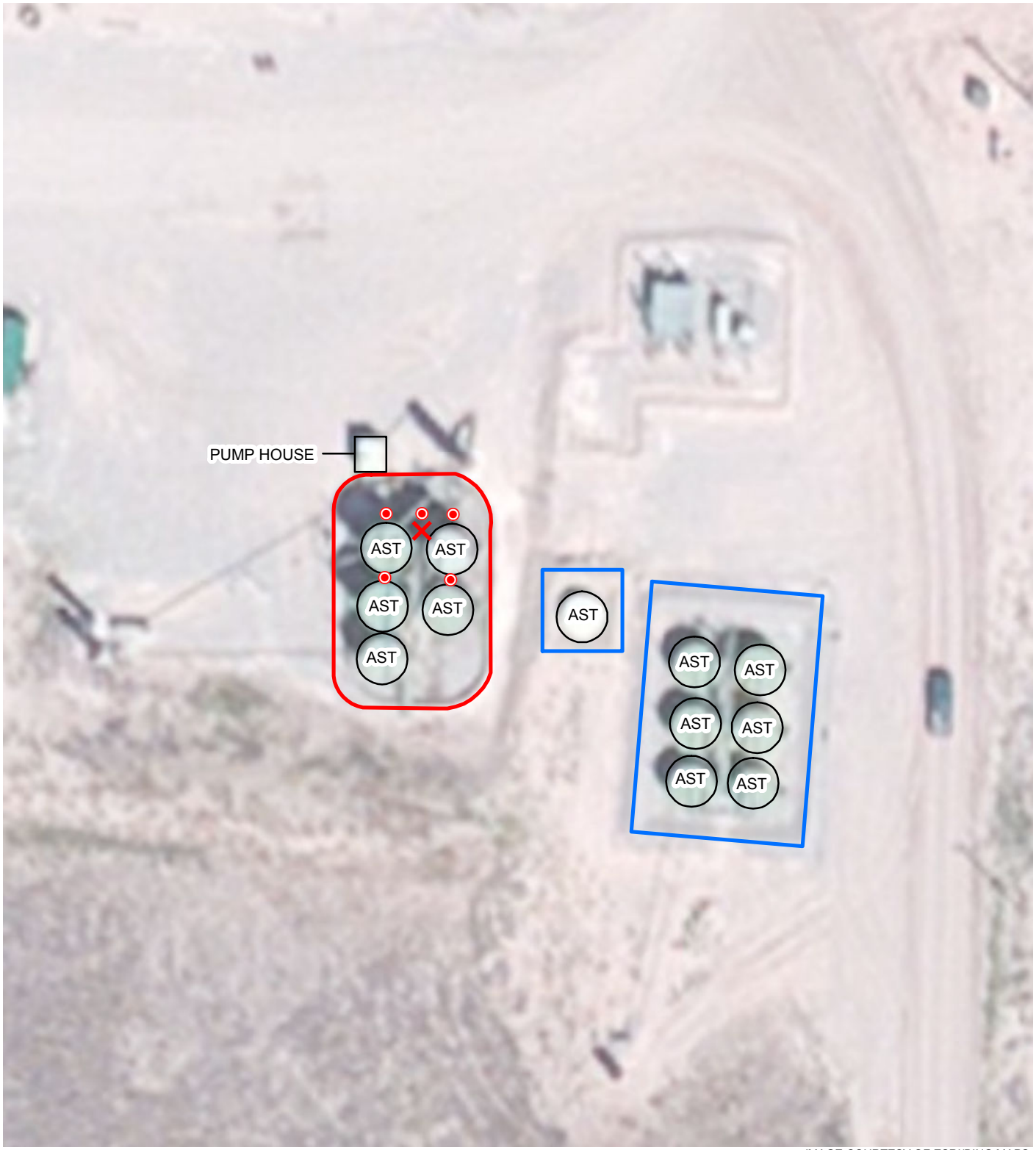


IMAGE COURTESY OF ESRI/BING MAPS

LEGEND

- COMPOSITE SOIL SAMPLE
- RELEASE
- EARTHEN CONTAINMENT
- LINED STEEL CONTAINMENT

AST: ABOVEGROUND STORAGE TANK

0 40 80
Feet

N

FIGURE 5
SITE MAP 6/29/2012
CIRCLE B #4 SWD
NWSE SEC 35 T6S-R92W
GARFIELD COUNTY, COLORADO
BILL BARRETT CORPORATION

P:\Bill Barrett Corp\GIS\MXD\027311009 CIRCLE B #4 SWD\027311009_CIRCLE_B_6_29_2012.mxd

TABLE 1
SOIL ANALYTICAL RESULTS
CIRCLE B #4 SWD
COUNTY, COLORADO
BILL BARRETT CORPORATION

Parameter	Standard	C01	C01	C01	C01
Depth (feet)		0.0-0.5	0.0-0.5	0.0-0.5	0.0-0.5
Sample Date		4/14/2011	9/21/2011	10/20/2011	6/29/2012
Metals					
Arsenic (mg/Kg)	0.39		**1.20**		
Organic Compounds					
TPH-DRO (mg/kg)		5300	1300	660	5400
TPH-GRO (mg/kg)		1900	2.3		
TPH-Total (mg/kg)	500	**7200**	**1302.3**	**660**	**5400**
Benzene (mg/kg)	0.17	**0.29**	<0.0050		
Toluene (mg/kg)	85	14			
Ethylbenzene (mg/kg)	100	5.5			
Xylenes, Total (mg/kg)	175	85			
Acenaphthene (mg/kg)	1000	0.084			
Anthracene (mg/kg)	1000	<0.005			
Benzo (a) anthracene (mg/kg)	0.22	<0.005			
Benzo (b) fluoranthene (mg/kg)	0.22	<0.005			
Benzo (k) fluoranthene (mg/kg)	2.2	<0.005			
Benzo (a) pyrene (mg/kg)	0.022	**0.0547**	<0.00033		
Chrysene (mg/kg)	22	0.123			
Dibenz (a,h) anthracene (mg/kg)	0.022	<0.01			
Fluoranthene (mg/kg)	1000	<0.005			
Fluorene (mg/kg)	1000	1.13			
Indeno (1,2,3-cd) pyrene (mg/kg)	0.22	<0.01			
Naphthalene (mg/kg)	23	2.18			
Pyrene (mg/kg)	1000	0.07			

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

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

April 27, 2011

Brian Dodek
LT Environmental, Inc.
4600 West 60th Avenue
Arvada, CO 80003
RE: BBC - Circle B #4

Enclosed are the results of analyses for samples received by Summit Scientific on 04/15/11 15:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Paul Shrewsbury For Ben Shrewsbury
President / Laboratory Director

LT Environmental, Inc. 4600 West 60th Avenue Arvada CO, 80003	Project: BBC - Circle B #4 Project Number: 0273-11009 Project Manager: Brian Dodek	**Reported:** 04/27/11 20:21

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
C01	R104099-01	Soil	04/14/11 12:45	04/15/11 15:00

R104099

Summit Scientific

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

Page 1 of 1

Client: LT Environmental
Address: 820 Megan Avenue Unit B
City/State/Zip: Rifle, CO 81650
Phone: (970) 285-9985 Fax: (970) 285 2467
Sampler Name: Asher Weinberg
Project Manager: Brian Dodek
E-Mail: bdodek@ltenv.com
Project Name: Circle B #4
Project Number:

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative: HCl	HNO_3	None	Other (Specify)	Matrix: Groundwater	Soil	Air - Canister Serial #	Other (Specify)	Analyze For: TPH DRO/GRO	BTEX	PAHs	Special Instructions
C01	4/14/2011	1245	2		X				X			X			

Relinquished by: Date/Time: 4.15.11 1705 Received by: Date/Time: 4-15-11 1500

Relinquished by: Date/Time: Received by: Date/Time:

Relinquished by: Date/Time: Received in Lab by: Date/Time: 4-15-11 1500

Turn Around Time (Check): Same Day, 24 Hours, 48 Hours, 72 Hours, Standard (X)

Sample Integrity: Temperature Upon Receipt: 4.9 Intact: Yes No

Notes:

www.s2scientific.com

LT Environmental, Inc. 4600 West 60th Avenue Arvada CO, 80003	Project: BBC - Circle B #4 Project Number: 0273-11009 Project Manager: Brian Dodek	**Reported:** 04/27/11 20:21

C01
R104099-01 (Soil)

Summit Scientific

Semivolatile Organic Compounds by EPA Method 8270D SIM

Date Sampled: **04/14/11 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	**84.0**	5.00	ug/kg	1	1041804	04/22/11	04/24/11	EPA 8270D SIM	
Anthracene	ND	5.00	"	"	"	"	"	"	
Benzo (a) anthracene	ND	5.00	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	5.00	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	5.00	"	"	"	"	"	"	
Benzo (a) pyrene	**54.7**	5.00	"	"	"	"	"	"	
Chrysene	**123**	5.00	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	10.0	"	"	"	"	"	"	
Fluoranthene	ND	5.00	"	"	"	"	"	"	
Fluorene	**1130**	250	"	50	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	10.0	"	1	"	"	"	"	
Naphthalene	**2180**	250	"	50	"	"	"	"	
Pyrene	**70.0**	5.00	"	1	"	"	"	"	

Date Sampled: **04/14/11 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: Nitrobenzene-d5		*55.0 %*	*30-120*		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		*30.6 %*	*30-120*		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		*59.3 %*	*30-120*		"	"	"	"	*S-02*
Surrogate: Terphenyl-dl4		*119 %*	*30-120*		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/14/11 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	**5300**	50	mg/kg	1	1041903	04/19/11	04/21/11	8015 Full Carbon Chain	

LT Environmental, Inc. 4600 West 60th Avenue Arvada CO, 80003	Project: BBC - Circle B #4 Project Number: 0273-11009 Project Manager: Brian Dodek	**Reported:** 04/27/11 20:21

C01
R104099-01 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/14/11 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		*112 %*	*88.8-124*		*1041903*	*04/19/11*	*04/21/11*	*8015 Full Carbon Chain*	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/14/11 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	**0.29**	0.050	mg/kg	10	1041904	04/19/11	04/21/11	EPA 8260B	
Toluene	**14**	0.50	"	100	"	"	04/20/11	"	
Ethylbenzene	**5.5**	0.050	"	10	"	"	04/20/11	"	
Xylenes (total)	**85**	0.50	"	100	"	"	04/20/11	"	
Gasoline Range Hydrocarbons	**1900**	50	"	"	"	"	04/21/11	"	

Date Sampled: **04/14/11 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		*99.1 %*	*67.4-143*		"	"	"	"	
Surrogate: Toluene-d8		*98.0 %*	*77.3-114*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*95.7 %*	*78.4-125*		"	"	"	"	

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

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1041804 - EPA 3550A										
Blank (1041804-BLK1)				Prepared: 04/22/11 Analyzed: 04/23/11						
Acenaphthene	ND	5.00	ug/kg							
Anthracene	ND	5.00	"							
Benzo (a) anthracene	ND	5.00	"							
Benzo (b) fluoranthene	ND	5.00	"							
Benzo (k) fluoranthene	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	"							
Pyrene	ND	5.00	"							
Surrogate: Nitrobenzene-d5	*20.1*		"	*33.3*		*60.4*	*30-120*			
Surrogate: 2-Fluorobiphenyl	*30.5*		"	*33.3*		*91.6*	*30-120*			
Surrogate: 2,4,6-Tribromophenol	*40.7*		"	*33.3*		*122*	*30-120*			
Surrogate: Terphenyl-dl4	*36.3*		"	*33.3*		*109*	*30-120*			

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

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1041804 - EPA 3550A										
LCS (1041804-BS1)				Prepared: 04/22/11 Analyzed: 04/23/11						
Acenaphthene	26.1	5.00	ug/kg	33.3		78.3	30-120		30	
Anthracene	28.5	5.00	"	33.3		85.6	30-120		30	
Benzo (a) anthracene	27.8	5.00	"	33.3		83.3	30-120		30	
Benzo (b) fluoranthene	28.6	5.00	"	33.3		85.7	30-120		30	
Benzo (k) fluoranthene	27.2	5.00	"	33.3		81.6	30-120		30	
Benzo (a) pyrene	25.9	5.00	"	33.3		77.8	30-120		30	
Chrysene	27.5	5.00	"	33.3		82.5	30-120		30	
Dibenz (a,h) anthracene	23.7	10.0	"	33.3		71.2	30-120		30	
Fluoranthene	30.0	5.00	"	33.3		89.9	30-120		30	
Fluorene	28.7	5.00	"	33.3		86.1	30-120		30	
Indeno (1,2,3-cd) pyrene	25.0	10.0	"	33.3		75.0	30-120		30	
Naphthalene	45.5	5.00	"	33.3		137	30-120		30	
Pyrene	26.6	5.00	"	33.3		79.9	30-120		30	
Surrogate: Nitrobenzene-d5	*22.2*		*"*	*33.3*		*66.6*	*30-120*			
Surrogate: 2-Fluorobiphenyl	*34.0*		*"*	*33.3*		*102*	*30-120*			
Surrogate: 2,4,6-Tribromophenol	*43.6*		*"*	*33.3*		*131*	*30-120*			
Surrogate: Terphenyl-dl4	*35.4*		*"*	*33.3*		*106*	*30-120*			

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

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1041804 - EPA 3550A										
Matrix Spike (1041804-MS1)	**Source: R104132-01**			Prepared: 04/22/11	Analyzed: 04/23/11					
Acenaphthene	23.6	5.00	ug/kg	33.3	ND	70.7	30-120		30	
Anthracene	25.3	5.00	"	33.3	ND	75.9	30-120		30	
Benzo (a) anthracene	25.4	5.00	"	33.3	ND	76.3	30-120		30	
Benzo (b) fluoranthene	25.7	5.00	"	33.3	ND	77.1	30-120		30	
Benzo (k) fluoranthene	24.0	5.00	"	33.3	ND	71.9	30-120		30	
Benzo (a) pyrene	24.3	5.00	"	33.3	ND	72.9	30-120		30	
Chrysene	24.2	5.00	"	33.3	ND	72.6	30-120		30	
Dibenz (a,h) anthracene	24.6	10.0	"	33.3	ND	73.7	30-120		30	
Fluoranthene	26.9	5.00	"	33.3	ND	80.7	30-120		30	
Fluorene	25.6	5.00	"	33.3	ND	76.7	30-120		30	
Indeno (1,2,3-cd) pyrene	24.7	10.0	"	33.3	ND	74.1	30-120		30	
Naphthalene	44.4	5.00	"	33.3	ND	133	30-120		30	
Pyrene	24.2	5.00	"	33.3	ND	72.5	30-120		30	
Surrogate: Nitrobenzene-d5	*18.4*		*"*	*33.3*		*55.1*	*30-120*			
Surrogate: 2-Fluorobiphenyl	*29.9*		*"*	*33.3*		*89.6*	*30-120*			
Surrogate: 2,4,6-Tribromophenol	*28.7*		*"*	*33.3*		*86.2*	*30-120*			
Surrogate: Terphenyl-dl4	*30.2*		*"*	*33.3*		*90.5*	*30-120*			

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

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1041804 - EPA 3550A										
Matrix Spike Dup (1041804-MSD1)	**Source: R104132-01**			Prepared: 04/22/11	Analyzed: 04/23/11					
Acenaphthene	24.7	5.00	ug/kg	33.3	ND	74.2	30-120	4.83	30	
Anthracene	25.9	5.00	"	33.3	ND	77.6	30-120	2.24	30	
Benzo (a) anthracene	24.1	5.00	"	33.3	ND	72.4	30-120	5.22	30	
Benzo (b) fluoranthene	25.1	5.00	"	33.3	ND	75.4	30-120	2.25	30	
Benzo (k) fluoranthene	24.6	5.00	"	33.3	ND	73.9	30-120	2.69	30	
Benzo (a) pyrene	24.1	5.00	"	33.3	ND	72.4	30-120	0.668	30	
Chrysene	27.3	5.00	"	33.3	ND	81.8	30-120	11.9	30	
Dibenz (a,h) anthracene	24.1	10.0	"	33.3	ND	72.2	30-120	2.00	30	
Fluoranthene	27.5	5.00	"	33.3	ND	82.6	30-120	2.31	30	
Fluorene	26.2	5.00	"	33.3	ND	78.7	30-120	2.63	30	
Indeno (1,2,3-cd) pyrene	27.6	10.0	"	33.3	ND	82.8	30-120	11.1	30	
Naphthalene	45.0	5.00	"	33.3	ND	135	30-120	1.29	30	
Pyrene	26.1	5.00	"	33.3	ND	78.2	30-120	7.63	30	
Surrogate: Nitrobenzene-d5	*18.3*		*"*	*33.3*		*54.9*	*30-120*			
Surrogate: 2-Fluorobiphenyl	*30.1*		*"*	*33.3*		*90.3*	*30-120*			
Surrogate: 2,4,6-Tribromophenol	*25.1*		*"*	*33.3*		*75.3*	*30-120*			
Surrogate: Terphenyl-dl4	*30.9*		*"*	*33.3*		*92.6*	*30-120*			

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

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

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1041903 - EPA 3550A										
Blank (1041903-BLK1)				Prepared: 04/19/11	Analyzed: 04/20/11					
C10-C28 (DRO)	ND	50	mg/kg							
Surrogate: o-Terphenyl	*14.0*		*"*	*12.5*		*112*	*88.8-124*			
Blank (1041903-BLK2)				Prepared: 04/19/11	Analyzed: 04/20/11					
C10-C28 (DRO)	ND	50	mg/kg							
Surrogate: o-Terphenyl	*13.9*		*"*	*12.5*		*111*	*88.8-124*			
LCS (1041903-BS1)				Prepared: 04/19/11	Analyzed: 04/20/11					
C10-C28 (DRO)	459	50	mg/kg	501		91.6	81.4-129		9.26	
LCS (1041903-BS2)				Prepared: 04/19/11	Analyzed: 04/20/11					
C10-C28 (DRO)	468	50	mg/kg	501		93.5	81.4-129		9.26	
LCS Dup (1041903-BSD1)				Prepared: 04/19/11	Analyzed: 04/20/11					
C10-C28 (DRO)	487	50	mg/kg	501		97.2	81.4-129	5.93	9.26	
LCS Dup (1041903-BSD2)				Prepared: 04/19/11	Analyzed: 04/21/11					
C10-C28 (DRO)	524	50	mg/kg	501		105	81.4-129	11.1	9.26	
Matrix Spike (1041903-MS1)		**Source: R104100-02**		Prepared: 04/19/11	Analyzed: 04/21/11					
C10-C28 (DRO)	488	50	mg/kg	501	ND	97.4	77.8-133		8.48	
Matrix Spike (1041903-MS2)		**Source: R104108-01**		Prepared: 04/19/11	Analyzed: 04/21/11					
C10-C28 (DRO)	463	50	mg/kg	501	15.0	89.5	77.8-133		8.48	
Matrix Spike Dup (1041903-MSD1)		**Source: R104100-02**		Prepared: 04/19/11	Analyzed: 04/21/11					
C10-C28 (DRO)	468	50	mg/kg	501	ND	93.4	77.8-133	4.16	8.48	

Extractable Petroleum Hydrocarbons by 8015 - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1041903 - EPA 3550A										
Matrix Spike Dup (1041903-MSD2)	**Source: R104108-01**			Prepared: 04/19/11	Analyzed: 04/21/11					
C10-C28 (DRO)	450	50	mg/kg	501	15.0	86.9	77.8-133	2.87	8.48	

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1041904 - EPA 5030 Soil MS										
Blank (1041904-BLK1)				Prepared: 04/19/11 Analyzed: 04/20/11						
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	*0.0478*		"	*0.0400*		*119*	*67.4-143*			
Surrogate: Toluene-d8	*0.0427*		"	*0.0400*		*107*	*77.3-114*			
Surrogate: 4-Bromofluorobenzene	*0.0439*		"	*0.0400*		*110*	*78.4-125*			
Blank (1041904-BLK2)				Prepared: 04/19/11 Analyzed: 04/20/11						
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	*0.0486*		"	*0.0400*		*122*	*67.4-143*			
Surrogate: Toluene-d8	*0.0438*		"	*0.0400*		*109*	*77.3-114*			
Surrogate: 4-Bromofluorobenzene	*0.0449*		"	*0.0400*		*112*	*78.4-125*			
LCS (1041904-BS1)				Prepared: 04/19/11 Analyzed: 04/20/11						
Benzene	0.119	0.0050	mg/kg	0.100		119	61-139		11.1	
Toluene	0.113	0.0050	"	0.100		113	64-132		10.9	
Ethylbenzene	0.105	0.0050	"	0.100		105	68.7-135		20	
m,p-Xylene	0.215	0.010	"	0.200		108	70.4-129		20	
o-Xylene	0.0998	0.0050	"	0.100		99.8	66.9-126		20	
Surrogate: 1,2-Dichloroethane-d4	*0.0500*		"	*0.0400*		*125*	*67.4-143*			
Surrogate: Toluene-d8	*0.0439*		"	*0.0400*		*110*	*77.3-114*			
Surrogate: 4-Bromofluorobenzene	*0.0440*		"	*0.0400*		*110*	*78.4-125*			

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1041904 - EPA 5030 Soil MS										
LCS (1041904-BS2)				Prepared: 04/19/11 Analyzed: 04/20/11						
Benzene	0.121	0.0050	mg/kg	0.100		121	61-139		11.1	
Toluene	0.114	0.0050	"	0.100		114	64-132		10.9	
Ethylbenzene	0.105	0.0050	"	0.100		105	68.7-135		20	
m,p-Xylene	0.211	0.010	"	0.200		105	70.4-129		20	
o-Xylene	0.0987	0.0050	"	0.100		98.7	66.9-126		20	
Surrogate: 1,2-Dichloroethane-d4	*0.0510*		"	*0.0400*		*128*	*67.4-143*			
Surrogate: Toluene-d8	*0.0440*		"	*0.0400*		*110*	*77.3-114*			
Surrogate: 4-Bromofluorobenzene	*0.0428*		"	*0.0400*		*107*	*78.4-125*			
LCS Dup (1041904-BSD1)				Prepared: 04/19/11 Analyzed: 04/20/11						
Benzene	0.122	0.0050	mg/kg	0.100		122	61-139	2.96	11.1	
Toluene	0.116	0.0050	"	0.100		116	64-132	2.07	10.9	
Ethylbenzene	0.108	0.0050	"	0.100		108	68.7-135	3.21	20	
m,p-Xylene	0.221	0.010	"	0.200		111	70.4-129	2.83	20	
o-Xylene	0.101	0.0050	"	0.100		101	66.9-126	1.05	20	
Surrogate: 1,2-Dichloroethane-d4	*0.0492*		"	*0.0400*		*123*	*67.4-143*			
Surrogate: Toluene-d8	*0.0440*		"	*0.0400*		*110*	*77.3-114*			
Surrogate: 4-Bromofluorobenzene	*0.0420*		"	*0.0400*		*105*	*78.4-125*			
LCS Dup (1041904-BSD2)				Prepared: 04/19/11 Analyzed: 04/20/11						
Benzene	0.121	0.0050	mg/kg	0.100		121	61-139	0.347	11.1	
Toluene	0.112	0.0050	"	0.100		112	64-132	1.33	10.9	
Ethylbenzene	0.107	0.0050	"	0.100		107	68.7-135	1.86	20	
m,p-Xylene	0.217	0.010	"	0.200		108	70.4-129	2.82	20	
o-Xylene	0.102	0.0050	"	0.100		102	66.9-126	3.11	20	
Surrogate: 1,2-Dichloroethane-d4	*0.0486*		"	*0.0400*		*122*	*67.4-143*			
Surrogate: Toluene-d8	*0.0443*		"	*0.0400*		*111*	*77.3-114*			
Surrogate: 4-Bromofluorobenzene	*0.0425*		"	*0.0400*		*106*	*78.4-125*			

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1041904 - EPA 5030 Soil MS										
Matrix Spike (1041904-MS1)		**Source: R104101-02**		Prepared: 04/19/11		Analyzed: 04/20/11				
Benzene	0.120	0.0050	mg/kg	0.100	0.0119	108	42.9-137		17.9	
Toluene	0.115	0.0050	"	0.100	0.0201	94.6	42.6-130		11.9	
Ethylbenzene	0.104	0.0050	"	0.100	ND	104	39-133		20	
m,p-Xylene	0.213	0.010	"	0.200	0.0146	99.0	34.7-134		20	
o-Xylene	0.0994	0.0050	"	0.100	0.00309	96.3	41.3-126		20	
Surrogate: 1,2-Dichloroethane-d4	*0.0509*		*"*	*0.0400*		*127*	*67.4-143*			
Surrogate: Toluene-d8	*0.0443*		*"*	*0.0400*		*111*	*77.3-114*			
Surrogate: 4-Bromofluorobenzene	*0.0438*		*"*	*0.0400*		*109*	*78.4-125*			
Matrix Spike (1041904-MS2)		**Source: R104108-01**		Prepared: 04/19/11		Analyzed: 04/20/11				
Benzene	0.122	0.0050	mg/kg	0.100	ND	122	42.9-137		17.9	
Toluene	0.114	0.0050	"	0.100	ND	114	42.6-130		11.9	
Ethylbenzene	0.101	0.0050	"	0.100	ND	101	39-133		20	
m,p-Xylene	0.206	0.010	"	0.200	ND	103	34.7-134		20	
o-Xylene	0.100	0.0050	"	0.100	ND	100	41.3-126		20	
Surrogate: 1,2-Dichloroethane-d4	*0.0546*		*"*	*0.0400*		*136*	*67.4-143*			
Surrogate: Toluene-d8	*0.0441*		*"*	*0.0400*		*110*	*77.3-114*			
Surrogate: 4-Bromofluorobenzene	*0.0452*		*"*	*0.0400*		*113*	*78.4-125*			
Matrix Spike Dup (1041904-MSD1)		**Source: R104101-02**		Prepared: 04/19/11		Analyzed: 04/20/11				
Benzene	0.118	0.0050	mg/kg	0.100	0.0119	106	42.9-137	1.84	17.9	
Toluene	0.111	0.0050	"	0.100	0.0201	91.3	42.6-130	2.89	11.9	
Ethylbenzene	0.102	0.0050	"	0.100	ND	102	39-133	2.71	20	
m,p-Xylene	0.203	0.010	"	0.200	0.0146	94.1	34.7-134	4.70	20	
o-Xylene	0.0975	0.0050	"	0.100	0.00309	94.4	41.3-126	1.89	20	
Surrogate: 1,2-Dichloroethane-d4	*0.0527*		*"*	*0.0400*		*132*	*67.4-143*			
Surrogate: Toluene-d8	*0.0432*		*"*	*0.0400*		*108*	*77.3-114*			
Surrogate: 4-Bromofluorobenzene	*0.0440*		*"*	*0.0400*		*110*	*78.4-125*			

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1041904 - EPA 5030 Soil MS										
Matrix Spike Dup (1041904-MSD2)		**Source: R104108-01**		Prepared: 04/19/11		Analyzed: 04/20/11				
Benzene	0.122	0.0050	mg/kg	0.100	ND	122	42.9-137	0.270	17.9	
Toluene	0.115	0.0050	"	0.100	ND	115	42.6-130	1.23	11.9	
Ethylbenzene	0.103	0.0050	"	0.100	ND	103	39-133	2.11	20	
m,p-Xylene	0.207	0.010	"	0.200	ND	104	34.7-134	0.683	20	
o-Xylene	0.100	0.0050	"	0.100	ND	100	41.3-126	0.209	20	
Surrogate: 1,2-Dichloroethane-d4	*0.0558*		*"*	*0.0400*		*140*	*67.4-143*			
Surrogate: Toluene-d8	*0.0447*		*"*	*0.0400*		*112*	*77.3-114*			
Surrogate: 4-Bromofluorobenzene	*0.0452*		*"*	*0.0400*		*113*	*78.4-125*			

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.
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

23-Aug-2013

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

Tel: (970) 285-9985
Fax: (303) 433-1432

Re: Circle B #4

Work Order: **1109711**
Revision: **1**

Dear Asher,

ALS Environmental received 1 sample on 22-Sep-2011 09:20 AM for the analyses presented in the following report.

This is a REVISED REPORT. Please see the Case Narrative for discussion concerning this revision.

The total number of pages in this revised report is 16.

Regards,

Electronically approved by: Luke F. Hernandez

Bernadette A. Fini
Project Manager

Certificate No: T104704231-13-12

ALS Environmental

Date: 23-Aug-13

Client: LT Environmental
Project: Circle B #4
Work Order: **1109711**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1109711-01	C01	Soil		9/21/2011 14:00	9/22/2011 09:20	☐

Revision: 1

SS Page 1 of 1

Client: LT Environmental
Project: Circle B #4
Work Order: 1109711

Case Narrative

Per cleint email received on August 23, 2013 change sample ID " CO3" to "C01".

Batch 55663a, Method 8015 DRO, Sample 1109711-01: Surrogate recoveries were diluted out in the 50X dilution.

ALS Environmental

Date: *23-Aug-13*

Client: LT Environmental

Project: Circle B #4 **Work Order:** 1109711

Sample ID: C01 **Lab ID:** 1109711-01

Collection Date: 9/21/2011 02:00 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH (DRO) - 8015C			**SW8015M**		Prep Date: **9/26/2011**	Analyst: **KMB**
DRO (>C10 - C28)	**1,300**		**85**	**mg/Kg**	50	9/28/2011 10:29 AM
Surr: 2-Fluorobiphenyl	*0*	S	*70-130*	*%REC*	50	9/28/2011 10:29 AM
GASOLINE RANGE ORGANICS - SW8015C			**SW8015**			Analyst: **KKP**
Gasoline Range Organics	**2.3**		**0.050**	**mg/Kg**	1	9/28/2011 09:36 AM
Surr: 4-Bromofluorobenzene	*99.8*		*70-130*	*%REC*	1	9/28/2011 09:36 AM
METALS			**SW6020**		Prep Date: **9/26/2011**	Analyst: **IGF**
Arsenic	**1.20**		**0.462**	**mg/Kg**	1	9/26/2011 08:40 PM
TCL VOLATILES - SW8260C			**SW8260**			Analyst: **WLR**
Benzene	ND		0.0050	mg/Kg	1	9/26/2011 08:54 PM
Surr: 1,2-Dichloroethane-d4	*85.3*		*70-128*	*%REC*	1	9/26/2011 08:54 PM
Surr: 4-Bromofluorobenzene	*110*		*73-126*	*%REC*	1	9/26/2011 08:54 PM
Surr: Dibromofluoromethane	*86.4*		*71-128*	*%REC*	1	9/26/2011 08:54 PM
Surr: Toluene-d8	*98.4*		*73-127*	*%REC*	1	9/26/2011 08:54 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision: 1

AR Page 1 of 1

QC BATCH REPORT

Batch ID: **55663a** Instrument ID **FID-8** Method: **SW8015M**

MBLK Sample ID: **FBLKS2-110926-55663a** Units: **mg/Kg** Analysis Date: **9/27/2011 06:30 PM**

Client ID: Run ID: **FID-8_110927A** SeqNo: **2539681** Prep Date: **9/26/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (>C10 - C28)	ND	1.7								
Surr: 2-Fluorobiphenyl	3.059	0	*3.3*	*0*	*92.7*	*70-130*	*0*			

LCS Sample ID: **FLCSS2-110926-55663a** Units: **mg/Kg** Analysis Date: **9/27/2011 06:49 PM**

Client ID: Run ID: **FID-8_110927A** SeqNo: **2539682** Prep Date: **9/26/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (>C10 - C28)	33.17	1.7	33.3	0	99.6	70-130				
Surr: 2-Fluorobiphenyl	3.469	0	*3.3*	*0*	*105*	*70-130*	*0*			

MS Sample ID: **1109651-11CMS** Units: **mg/Kg** Analysis Date: **9/27/2011 07:28 PM**

Client ID: Run ID: **FID-8_110927A** SeqNo: **2539687** Prep Date: **9/26/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (>C10 - C28)	35.06	1.7	33.29	0.2376	105	70-130				
Surr: 2-Fluorobiphenyl	3.134	0	*3.299*	*0*	*95*	*70-130*	*0*			

MSD Sample ID: **1109651-11CMSD** Units: **mg/Kg** Analysis Date: **9/27/2011 07:48 PM**

Client ID: Run ID: **FID-8_110927A** SeqNo: **2539688** Prep Date: **9/26/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (>C10 - C28)	34.94	1.7	33.24	0.2376	104	70-130	35.06	0.336	30	
Surr: 2-Fluorobiphenyl	2.944	0	*3.295*	*0*	*89.4*	*70-130*	*3.134*	*6.26*	*30*	

The following samples were analyzed in this batch: 1109711-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Revision: 1

Client: LT Environmental
Work Order: 1109711
Project: Circle B #4

QC BATCH REPORT

Batch ID: **R116806** Instrument ID **FID-9** Method: **SW8015**

MBLK Sample ID: **GBLKS1-110927-R116806** Units: **mg/Kg** Analysis Date: **9/27/2011 07:38 PM**
Client ID: Run ID: **FID-9_110927B** SeqNo: **2539866** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	ND	0.050								
Surr: 4-Bromofluorobenzene	0.08571	0.0050	*0.1*	*0*	*85.7*	*70-130*	*0*			

LCS Sample ID: **GLCSS1-110927-R116806** Units: **mg/Kg** Analysis Date: **9/27/2011 07:03 PM**
Client ID: Run ID: **FID-9_110927B** SeqNo: **2539864** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	0.9035	0.050	1	0	90.4	70-130				
Surr: 4-Bromofluorobenzene	0.09448	0.0050	*0.1*	*0*	*94.5*	*70-130*	*0*			

LCSD Sample ID: **GLCSDS1-110927-R116806** Units: **mg/Kg** Analysis Date: **9/27/2011 07:21 PM**
Client ID: Run ID: **FID-9_110927B** SeqNo: **2539865** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	0.8325	0.050	1	0	83.2	70-130	0.9035	8.18	30	
Surr: 4-Bromofluorobenzene	0.09723	0.0050	*0.1*	*0*	*97.2*	*70-130*	*0.09448*	*2.87*	*30*	

MS Sample ID: **1109651-11BMS** Units: **mg/Kg** Analysis Date: **9/28/2011 09:01 AM**
Client ID: Run ID: **FID-9_110927B** SeqNo: **2539878** Prep Date: DF: **1.05**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	0.8247	0.052	1.05	0	78.5	70-130				
Surr: 4-Bromofluorobenzene	0.09782	0.0052	*0.105*	*0*	*93.2*	*70-130*	*0*			

MSD Sample ID: **1109651-11BMSD** Units: **mg/Kg** Analysis Date: **9/28/2011 09:19 AM**
Client ID: Run ID: **FID-9_110927B** SeqNo: **2539879** Prep Date: DF: **0.907**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	0.7348	0.045	0.907	0	81	70-130	0.8247	11.5	30	
Surr: 4-Bromofluorobenzene	0.0824	0.0045	*0.0907*	*0*	*90.8*	*70-130*	*0.09782*	*17.1*	*30*	

The following samples were analyzed in this batch: 1109711-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Revision: 1

Client: LT Environmental
Work Order: 1109711
Project: Circle B #4

QC BATCH REPORT

Batch ID: **55670** Instrument ID **ICPMS04** Method: **SW6020**

MBLK Sample ID: **MBLKS1-092611-55670** Units: **mg/Kg** Analysis Date: **9/26/2011 06:14 PM**
Client ID: Run ID: **ICPMS04_110926A** SeqNo: **2537617** Prep Date: **9/26/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.500								

LCS Sample ID: **MLCSS1-092611-55670** Units: **mg/Kg** Analysis Date: **9/26/2011 06:21 PM**
Client ID: Run ID: **ICPMS04_110926A** SeqNo: **2537618** Prep Date: **9/26/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	8.766	0.500	10	0	87.7	80-120				

MS Sample ID: **1109743-01AMS** Units: **mg/Kg** Analysis Date: **9/26/2011 09:43 PM**
Client ID: Run ID: **ICPMS04_110926A** SeqNo: **2537658** Prep Date: **9/26/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	22.8	0.457	9.142	12.97	108	75-125				

MSD Sample ID: **1109743-01AMSD** Units: **mg/Kg** Analysis Date: **9/26/2011 09:56 PM**
Client ID: Run ID: **ICPMS04_110926A** SeqNo: **2537661** Prep Date: **9/26/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	21.73	0.453	9.069	12.97	96.6	75-125	22.8	4.82	25	

DUP Sample ID: **1109743-01ADUP** Units: **mg/Kg** Analysis Date: **9/26/2011 09:37 PM**
Client ID: Run ID: **ICPMS04_110926A** SeqNo: **2537656** Prep Date: **9/26/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	15.1	0.462					12.97	15.2	25	

The following samples were analyzed in this batch: 1109711-01B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Revision: 1

Client: LT Environmental
Work Order: 1109711
Project: Circle B #4

QC BATCH REPORT

Batch ID: **R116642** Instrument ID **VOA3** Method: **SW8260**

MBLK Sample ID: **VBLKS1-092611-R116642** Units: **µg/Kg** Analysis Date: **9/26/2011 11:12 AM**
Client ID: Run ID: **VOA3_110926A** SeqNo: **2537756** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	5.0								
Surr: 1,2-Dichloroethane-d4	38.89	0	*50*	*0*	*77.8*	*70-128*	*0*			
Surr: 4-Bromofluorobenzene	49.82	0	*50*	*0*	*99.6*	*73-126*	*0*			
Surr: Dibromofluoromethane	43.22	0	*50*	*0*	*86.4*	*71-128*	*0*			
Surr: Toluene-d8	50.38	0	*50*	*0*	*101*	*73-127*	*0*			

LCS Sample ID: **VLCSS1-092611-R116642** Units: **µg/Kg** Analysis Date: **9/26/2011 09:50 AM**
Client ID: Run ID: **VOA3_110926A** SeqNo: **2537754** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	50.61	5.0	50	0	101	79-120				
Surr: 1,2-Dichloroethane-d4	46.25	0	*50*	*0*	*92.5*	*70-128*	*0*			
Surr: 4-Bromofluorobenzene	51.28	0	*50*	*0*	*103*	*73-126*	*0*			
Surr: Dibromofluoromethane	46.21	0	*50*	*0*	*92.4*	*71-128*	*0*			
Surr: Toluene-d8	50.65	0	*50*	*0*	*101*	*73-127*	*0*			

LCSD Sample ID: **VLCSDS1-092611-R116642** Units: **µg/Kg** Analysis Date: **9/26/2011 10:17 AM**
Client ID: Run ID: **VOA3_110926A** SeqNo: **2537755** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	48.13	5.0	50	0	96.3	79-120	50.61	5.01	30	
Surr: 1,2-Dichloroethane-d4	47.12	0	*50*	*0*	*94.2*	*70-128*	*46.25*	*1.86*	*30*	
Surr: 4-Bromofluorobenzene	49.5	0	*50*	*0*	*99*	*73-126*	*51.28*	*3.54*	*30*	
Surr: Dibromofluoromethane	47.43	0	*50*	*0*	*94.9*	*71-128*	*46.21*	*2.61*	*30*	
Surr: Toluene-d8	50.08	0	*50*	*0*	*100*	*73-127*	*50.65*	*1.14*	*30*	

MS Sample ID: **1109651-11ZMS** Units: **µg/Kg** Analysis Date: **9/26/2011 12:08 PM**
Client ID: Run ID: **VOA3_110926A** SeqNo: **2537758** Prep Date: DF: **0.954**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	44.73	4.8	47.7	0	93.8	79-120				
Surr: 1,2-Dichloroethane-d4	45.03	0	*47.7*	*0*	*94.4*	*70-128*	*0*			
Surr: 4-Bromofluorobenzene	48.16	0	*47.7*	*0*	*101*	*73-126*	*0*			
Surr: Dibromofluoromethane	43.16	0	*47.7*	*0*	*90.5*	*71-128*	*0*			
Surr: Toluene-d8	49.16	0	*47.7*	*0*	*103*	*73-127*	*0*			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Revision: 1

Client: LT Environmental
Work Order: 1109711
Project: Circle B #4

QC BATCH REPORT

Batch ID: **R116642** Instrument ID **VOA3** Method: **SW8260**

MSD Sample ID: **1109651-11ZMSD** Units: **µg/Kg** Analysis Date: **9/26/2011 12:35 PM**

Client ID: Run ID: **VOA3_110926A** SeqNo: **2537759** Prep Date: DF: **1.078**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	51.76	5.4	53.9	0	96	79-120	44.73	14.6	30	
Surr: 1,2-Dichloroethane-d4	50.84	0	*53.9*	*0*	*94.3*	*70-128*	*45.03*	*12.1*	*30*	
Surr: 4-Bromofluorobenzene	55.95	0	*53.9*	*0*	*104*	*73-126*	*48.16*	*15*	*30*	
Surr: Dibromofluoromethane	51.7	0	*53.9*	*0*	*95.9*	*71-128*	*43.16*	*18*	*30*	
Surr: Toluene-d8	54.97	0	*53.9*	*0*	*102*	*73-127*	*49.16*	*11.2*	*30*	

The following samples were analyzed in this batch: 1109711-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Revision: 1

ALS Environmental

Date: 23-Aug-13

Client: LT Environmental
Project: Circle B #4
WorkOrder: **1109711**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Units Reported	Description
mg/Kg	Milligrams per Kilogram

ALS Environmental

Sample Receipt Checklist

Client Name: **LT ENVIRONMENTAL** Date/Time Received: **22-Sep-11 09:20**

Work Order: **1109711** Received by: **JBA**

Checklist completed by Paresh M. Giga (eSignature) 23-Sep-11 (Date) Reviewed by: Nicole Brown (eSignature) 26-Sep-11 (Date)

Matrices: Soil
Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	3.7	002	
Cooler(s)/Kit(s):	4229		
Date/Time sample(s) sent to storage:			
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:			

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

Revision: 1

SRC Page 1 of 1

ALS Laboratory Group

225 Commerce Drive, Fort Collins, Colorado 80524
TF: (800) 443-1511 PH: (970) 490-1511 FX: (970) 490-1522

Chain-of-Custody

Form 202r8

WORKORDER #

1109711
LT ENVIRONMENTAL: LT Environmental
Project: Circle B #4

		SAMPLER	Chris McKisson	DATE		PAGE	1 of 1
PROJECT NAME	Circle B #4	SITE ID		TURNAROUND	5 day per Bruce S.	DISPOSAL	(By Lab) or Return to Client
PROJECT No.	027311009	EDD FORMAT					
		PURCHASE ORDER					
COMPANY NAME	LT Environmental	BILL TO COMPANY					
SEND REPORT TO	Asher Weinberg	INVOICE ATTN TO					
ADDRESS	820 Megan Ave Unit B	ADDRESS					
CITY / STATE / ZIP	Rifle, Co 81650	CITY / STATE / ZIP					
PHONE	970.285.9985	PHONE					
FAX		FAX					
E-MAIL	aweinberg@ltenv.com	E-MAIL					

Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC	TPH-GRO 8015	TPH-DRO 8015	BTEX 8260	EC, pH, SAR	COGCC Table 910 Metals*	Total Arsenic 6020	Benzene
	C03	S	9/21/11	1400	2	NA		X	X				X	

Time Zone (Circle): EST CST MST PST Matrix: O = oil S = soil NS = non-soil solid W = water L = liquid E = extract F = filter

For metals or anions, please detail analytes below.

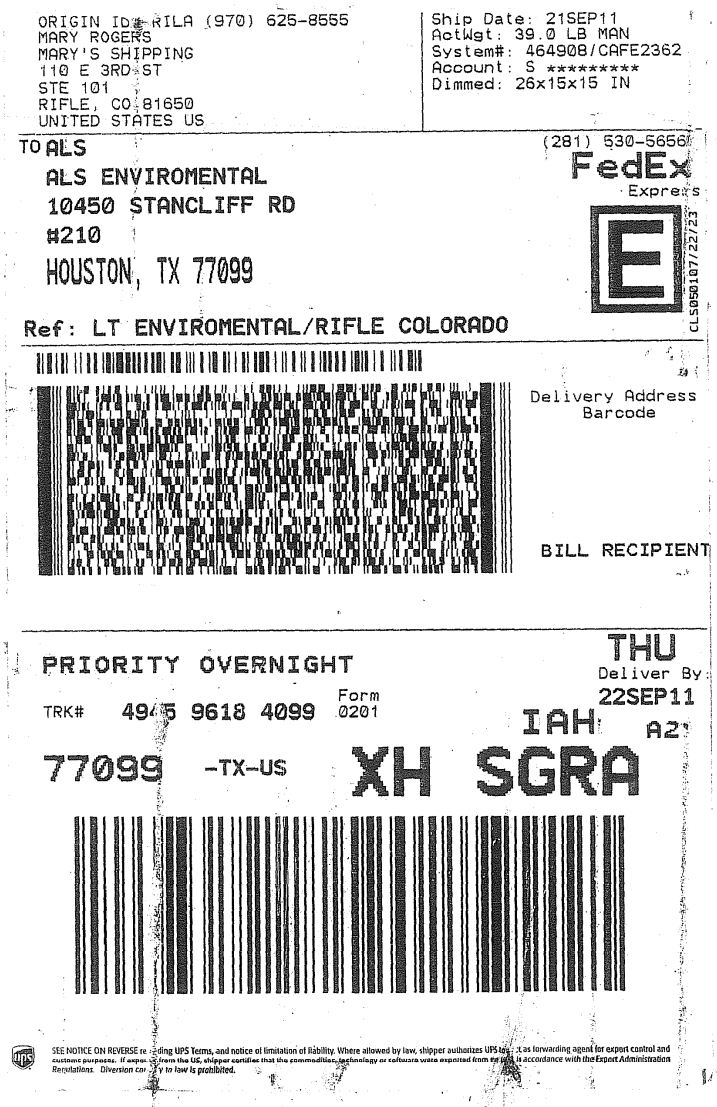
Comments:

*Metals: Ba, Cd, CrIII, CrVI, Cu, Pb, Ni, Se, Hg, Ag, Zn

QC PACKAGE (check below)	
	LEVEL II (Standard QC)
	LEVEL III (Std QC + forms)
	LEVEL IV (Std QC + forms + raw data)

Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY	[signature]	Chris McKisson	9/21/11	1530
RECEIVED BY	[signature]	Jason Allen	9/22/11	9:00
RELINQUISHED BY				
RECEIVED BY				
RELINQUISHED BY				
RECEIVED BY				



ORIGIN ID: RILA (970) 625-8555
MARY ROGERS
MARY'S SHIPPING
110 E 3RD ST
STE 101
RIFLE, CO 81650
UNITED STATES US

Ship Date: 21SEP11
ActWgt: 39.0 LB MAN
System#: 464908/CAFE2362
Account: S *********
Dimmed: 26x15x15 IN

TO ALS
ALS ENVIROMENTAL
10450 STANCLIFF RD
#210
HOUSTON, TX 77099

(281) 530-5656

FedEx Express

CLS0501077/22723

Ref: LT ENVIROMENTAL/RIFLE COLORADO

Delivery Address Barcode

BILL RECIPIENT

PRIORITY OVERNIGHT

THU
Deliver By:
22SEP11

TRK# 4975 9618 4099

Form 0201

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Chain-of-Custody

Form 202r8

WORKORDER #

1109711
LT ENVIRONMENTAL: LT Environmental
Project: Circle B #4

		SAMPLER	Chris McKisson	DATE		PAGE	1 of 1
PROJECT NAME	Circle B #4	SITE ID		TURNAROUND	5 day per Bruce S.	DISPOSAL	(By Lab) or Return to Client
PROJECT No.	027311009	EDD FORMAT					
		PURCHASE ORDER					
COMPANY NAME	LT Environmental	BILL TO COMPANY					
SEND REPORT TO	Asher Weinberg	INVOICE ATTN TO					
ADDRESS	820 Megan Ave Unit B	ADDRESS					
CITY / STATE / ZIP	Rifle, Co 81650	CITY / STATE / ZIP					
PHONE	970.285.9985	PHONE					
FAX		FAX					
E-MAIL	aweinberg@ltenv.com	E-MAIL					

Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC	TPH-GRO 8015	TPH-DRO 8015	BTEX 8260	EC, pH, SAR	COGCC Table 910 Metals*	Total Arsenic 6020	Benzene
	C03	S	9/21/11	1400	2	NA		X	X				X	

1110032
LT ENVIRONMENTAL: LT Environmental
Project: Circle B #4

Time Zone (Circle): EST CST MST PST Matrix: O = oil S = soil NS = non-soil solid W = water L = liquid E = extract F = filter

For metals or anions, please detail analytes below.

Comments:
*Metals: Ba, Cd, CrIII, CrVI, Cu, Pb, Ni, Se, Hg, Ag, Zn

QC PACKAGE (check below)	
	LEVEL II (Standard QC)
	LEVEL III (Std QC + forms)
	LEVEL IV (Std QC + forms + raw data)

Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY	[illegible signature]	Chris McKisson	9/21/11	1530
RECEIVED BY	[illegible signature]	J-man Allen	9/22/11	9:50
RELINQUISHED BY				
RECEIVED BY				
RELINQUISHED BY				
RECEIVED BY				

ALS Laboratory Group

225 Commerce Drive, Fort Collins, Colorado 80524
TF: (800) 443-1511 PH: (970) 490-1511 FX: (970) 490-1522

Chain-of-Custody

Form 202r8

WORKORDER #

		SAMPLER	Chris McKisson	DATE		PAGE	1 of 1
PROJECT NAME	Circle B #4	SITE ID		TURNAROUND	5 day per Bruce S.	DISPOSAL	(By Lab) or Return to Client
PROJECT No.	027311009	EDD FORMAT					
		PURCHASE ORDER					
COMPANY NAME	LT Environmental	BILL TO COMPANY					
SEND REPORT TO	Asher Weinberg	INVOICE ATTN TO					
ADDRESS	820 Megan Ave Unit B	ADDRESS					
CITY / STATE / ZIP	Rifle, Co 81650	CITY / STATE / ZIP					
PHONE	970.285.9985	PHONE					
FAX		FAX					
E-MAIL	aweinberg@ltenv.com	E-MAIL					

Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC	TPH-GRO 8015	TPH-DRO 8015	BTEX 8260	EC, pH, SAR	COGCC Table 910 Metals*	Total Arsenic 6020	Benzene
	C03	S	9/21/11	1400	2	NA		X	X				X	

1110032
LT ENVIRONMENTAL: LT Environmental
Project: Circle B #4

1109711
LT ENVIRONMENTAL: LT Environmental
Project: Circle B #4

Time Zone (Circle): EST CST MST PST Matrix: O = oil S = soil NS = non-soil solid W = water L = liquid E = extract F = filter

For metals or anions, please detail analytes below.

Comments:

*Metals: Ba, Cd, CrIII, CrVI, Cu, Pb, Ni, Se, Hg, Ag, Zn

QC PACKAGE (check below)	
	LEVEL II (Standard QC)
	LEVEL III (Std QC + forms)
	LEVEL IV (Std QC + forms + raw data)

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY	[signature]	Chris McKisson	9/21/11	1530
RECEIVED BY	[signature]	[illegible]	9/22/11	915
RELINQUISHED BY				
RECEIVED BY				
RELINQUISHED BY				
RECEIVED BY				

Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035

ORIGIN ID: RILA (970) 626 9666
MARY ROGERS
MARY'S SHIPPING
110 E 3RD ST
STE 101
RIFLE, CO 81650
UNITED STATES US

Ship Date: 21SEP11
ActWgt: 39.0 LB MAN
System#: 464908/CAFE2362
Account: S *********
Dimmed: 26x15x15 IN

TO ALS
ALS ENVIROMENTAL
10450 STANCLIFF RD
#210
HOUSTON, TX 77099

(281) 530-5656

FedEx Express

CLS05010707/22/23

Ref: LT ENVIROMENTAL/RIFLE COLORADO

Delivery Address Barcode

BILL RECIPIENT

PRIORITY OVERNIGHT

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Deliver By:
22SEP11

TRK# 4975 9618 4099

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23-Aug-2013

Rob Fishburn
LT Environmental
4600 West 60th Avenue
Arvada, CO 80003

Tel: (303) 285-9985
Fax: (303) 433-1432

Re: Circle B #4

Work Order: **1110032**
Revision: **1**

Dear Rob,

ALS Environmental received 1 sample on 22-Sep-2011 09:20 AM for the analyses presented in the following report.

This is a REVISED REPORT. Please see the Case Narrative for discussion concerning this revision.

The total number of pages in this revised report is 09.

Regards,

Electronically approved by: Luke F. Hernandez

Bernadette A. Fini
Project Manager

Certificate No: T104704231-13-12

ALS Environmental

Date: 23-Aug-13

Client: LT Environmental
Project: Circle B #4
Work Order: **1110032**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1110032-01	C01	Soil	1109711-01B	9/21/2011 14:00	9/22/2011 09:20	☐

Revision: 1

Client: LT Environmental
Project: Circle B #4
Work Order: 1110032

Case Narrative

Per cleint email received on August 23, 2013 change sample ID " CO3" to "C01".

Per client request, sample CO1 was logged in for benzo(a)pyrene analysis on 10/03/11. This sample was previously analyzed for TPH, Arsenic and Benzene in work order 1109711.

Batch 55858, Method 8270 SIM, Sample 1110032-01A: The relative percent difference between the MS/MSD for the surrogate 4-Terphenyl-d14 is above control limits. The individual recoveries were within control criteria. The LCS met all quality control criteria. The sample was non detected for the compound of interest.

ALS Environmental

Date: *23-Aug-13*

Client: LT Environmental

Project: Circle B #4 **Work Order:** 1110032

Sample ID: C01 **Lab ID:** 1110032-01

Collection Date: 9/21/2011 02:00 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
SW8270 SIM			**SW8270SIM**		Prep Date: **10/4/2011**	Analyst: **LG**
Benzo(a)pyrene	ND		0.33	ug/Kg	1	10/4/2011 07:30 PM
Surr: 2-Fluorobiphenyl	*78.0*		*40-140*	*%REC*	1	10/4/2011 07:30 PM
Surr: 4-Terphenyl-d14	*56.3*		*40-140*	*%REC*	1	10/4/2011 07:30 PM
Surr: Nitrobenzene-d5	*52.9*		*40-140*	*%REC*	1	10/4/2011 07:30 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision: 1

AR Page 1 of 1

QC BATCH REPORT

Batch ID: **55858** Instrument ID **SV-4** Method: **SW8270SIM**

MBLK Sample ID: **SBLKS1-111004-55858** Units: **ug/Kg** Analysis Date: **10/4/2011 05:08 PM**

Client ID: Run ID: **SV-4_111004B** SeqNo: **2547112** Prep Date: **10/4/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzo(a)pyrene	ND	0.33								
Surr: 2-Fluorobiphenyl	2.992	0.33	*2.667*	*0*	*112*	*40-140*	*0*			
Surr: 4-Terphenyl-d14	2.821	0.33	*2.667*	*0*	*106*	*40-140*	*0*			
Surr: Nitrobenzene-d5	2.291	0.33	*2.667*	*0*	*85.9*	*40-140*	*0*			

LCS Sample ID: **SLCSS1111004-55858** Units: **ug/Kg** Analysis Date: **10/4/2011 05:28 PM**

Client ID: Run ID: **SV-4_111004B** SeqNo: **2547117** Prep Date: **10/4/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzo(a)pyrene	3.634	0.33	2.667	0	136	40-140				
Surr: 2-Fluorobiphenyl	3.03	0.33	*2.667*	*0*	*114*	*40-140*	*0*			
Surr: 4-Terphenyl-d14	2.816	0.33	*2.667*	*0*	*106*	*40-140*	*0*			
Surr: Nitrobenzene-d5	2.612	0.33	*2.667*	*0*	*98*	*40-140*	*0*			

MS Sample ID: **1110032-01AMS** Units: **ug/Kg** Analysis Date: **10/4/2011 07:50 PM**

Client ID: **C01** Run ID: **SV-4_111004B** SeqNo: **2547115** Prep Date: **10/4/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzo(a)pyrene	3.602	0.33	2.663	0	135	40-140				
Surr: 2-Fluorobiphenyl	2.546	0.33	*2.663*	*0*	*95.6*	*40-140*	*0*			
Surr: 4-Terphenyl-d14	2.961	0.33	*2.663*	*0*	*111*	*40-140*	*0*			
Surr: Nitrobenzene-d5	2.016	0.33	*2.663*	*0*	*75.7*	*40-140*	*0*			

MSD Sample ID: **1110032-01AMSD** Units: **ug/Kg** Analysis Date: **10/4/2011 08:11 PM**

Client ID: **C01** Run ID: **SV-4_111004B** SeqNo: **2547116** Prep Date: **10/4/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzo(a)pyrene	3.489	0.33	2.66	0	131	40-140	3.602	3.19	20	
Surr: 2-Fluorobiphenyl	2.401	0.33	*2.66*	*0*	*90.2*	*40-140*	*2.546*	*5.86*	*20*	
Surr: 4-Terphenyl-d14	1.823	0.33	*2.66*	*0*	*68.5*	*40-140*	*2.961*	*47.6*	*20*	R
Surr: Nitrobenzene-d5	2.147	0.33	*2.66*	*0*	*80.7*	*40-140*	*2.016*	*6.29*	*20*	

The following samples were analyzed in this batch: 1110032-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Revision: 1

ALS Environmental

Date: 23-Aug-13

Client: LT Environmental
Project: Circle B #4
WorkOrder: **1110032**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Units Reported	Description
ug/Kg	Micrograms per Kilograms

ALS Environmental

Sample Receipt Checklist

Client Name: **LT ENVIRONMENTAL** Date/Time Received: **22-Sep-11 09:20**

Work Order: **1109711** Re-logged in as WO 1110032 Received by: **JBA**

Checklist completed by Paresh M. Giga (eSignature) 23-Sep-11 (Date) Reviewed by: Nicole Brown (eSignature) 26-Sep-11 (Date)

Matrices: Soil
Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	3.7	002	
Cooler(s)/Kit(s):	4229		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:	_		

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

SRC Page 1 of 1

ALS Laboratory Group
225 Commerce Drive, Fort Collins, Colorado 80524
TF: (800) 443-1511 PH: (970) 490-1511 FX: (970) 490-1522

Chain-of-Custody

Form 202r8

WORKORDER #: 1109711
LT ENVIRONMENTAL: LT Environmental
Project: Circle B #4

PROJECT NAME	Circle B #4	SAMPLER	Chris McKisson	DATE	
PROJECT No.	027311009	SITE ID		TURNAROUND	5 day per Bruce S.
		EDD FORMAT		PAGE	1 of 1
		PURCHASE ORDER		DISPOSAL	(By Lab) or Return to Client
COMPANY NAME	LT Environmental	BILL TO COMPANY			
SEND REPORT TO	Asher Weinberg	INVOICE ATTN TO			
ADDRESS	820 Megan Ave Unit-B	ADDRESS			
CITY / STATE / ZIP	Rifle, Co 81650	CITY / STATE / ZIP			
PHONE	970.285.9985	PHONE			
FAX		FAX			
E-MAIL	aweinberg@ltenv.com	E-MAIL			

Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC	TPH-GRO 8015	TPH-DRO 8015	BTEX 8260	EC, pH, SAR	COGCC Table 910 Metals*	Total Arsenic 6020	Benzene
	CO3	S	9/21/11	1400	2	NA		X	X				X	

1110032
LT ENVIRONMENTAL: LT Environmental
Project: Circle B #4

Time Zone (Circle): EST CST MST PST Matrix: O = oil S = soil NS = non-soil solid W = water L = liquid E = extract F = filter

For metals or anions, please detail analytes below.

Comments:
*Metals: Ba, Cd, CrIII, CrVI, Cu, Pb, Ni, Se Hg, Ag, Zn

QC PACKAGE (check below)	
	LEVEL II (Standard QC)
	LEVEL III (Std QC + forms)
	LEVEL IV (Std QC + forms + raw data)

Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY	[signature]	Chris McKisson	9/21/11	1530
RECEIVED BY	[signature]	Justin Allen	9/22/11	9:10
RELINQUISHED BY				
RECEIVED BY				
RELINQUISHED BY				
RECEIVED BY				

ORIGIN ID: RILA (970) 625-8555
MARY ROGERS
MARY'S SHIPPING
110 E 3RD ST
STE 101
RIFLE, CO 81650
UNITED STATES US

Ship Date: 21SEP11
ActWgt: 39.0 LB MAN
System#: 464908/CAFE2362
Account: S *********
Dimmed: 26x15x15 IN

TO ALS
ALS ENVIROMENTAL
10450 STANCLIFF RD
#210
HOUSTON, TX 77099

(281) 530-5656

FedEx Express

CLS0501072/2723

Ref: LT ENVIROMENTAL/RIFLE COLORADO

Delivery Address Barcode

BILL RECIPIENT

PRIORITY OVERNIGHT

THU
Deliver By:
22SEP11

TRK# 4945 9618 4099

Form 0201

IAH A2

77099 -TX-US

XH SGRA

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23-Aug-2013

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

Tel: (970) 285-9985
Fax: (303) 433-1432

Re: Circle B No. 4 - 0273-11009

Work Order: **1110808**
Revision: **1**

Dear Asher,

ALS Environmental received 1 sample on 25-Oct-2011 08:55 AM for the analyses presented in the following report.

This is a REVISED REPORT. Please see the Case Narrative for discussion concerning this revision.

The total number of pages in this revised report is 9.

Regards,

Electronically approved by: Luke F. Hernandez

Bernadette A. Fini
Project Manager

Certificate No: T104704231-13-12

ALS Environmental

Date: 23-Aug-13

Client: LT Environmental
Project: Circle B No. 4 - 0273-11009
Work Order: **1110808**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1110808-01	C01	Solid		10/20/2011 15:00	10/25/2011 08:55	☐

Revision: 1

Client:	LT Environmental
Project:	Circle B No. 4 - 0273-11009
Work Order:	1110808

Case Narrative

Per cleint email received on August 23, 2013 change sample ID " C04" to "C01".

Batch 56440a, Method 8015 Diesel Range Organics, Sample 1110806-01: The MS/MSD is for an unrelated sample. The LCS was within control limits. The recovery of the MS is due to the unrelated sample's matrix interference and does not affect the results for this report.

ALS Environmental

Date: *23-Aug-13*

Client: LT Environmental

Project: Circle B No. 4 - 0273-11009 **Work Order:** 1110808

Sample ID: C01 **Lab ID:** 1110808-01

Collection Date: 10/20/2011 03:00 PM **Matrix:** SOLID

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH (DRO) - 8015C			**SW8015M**		Prep Date: **10/26/2011**	Analyst: **KMB**
DRO (>C10 - C28)	**660**		**17**	**mg/Kg**	10	10/31/2011 11:42 AM
Surr: 2-Fluorobiphenyl	*90.2*		*70-130*	*%REC*	10	10/31/2011 11:42 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision: 1

AR Page 1 of 1

QC BATCH REPORT

Batch ID: **56440a** Instrument ID **FID-8** Method: **SW8015M**

MBLK Sample ID: **FBLKS1-111026-56440a** Units: **mg/Kg** Analysis Date: **10/28/2011 12:09 PM**

Client ID: Run ID: **FID-8_111028A** SeqNo: **2579395** Prep Date: **10/26/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (>C10 - C28)	ND	1.7								
Surr: 2-Fluorobiphenyl	4.28	0	*3.3*	*0*	*130*	*70-130*	*0*			

LCS Sample ID: **FLCSS1-111026-56440a** Units: **mg/Kg** Analysis Date: **10/28/2011 12:28 PM**

Client ID: Run ID: **FID-8_111028A** SeqNo: **2579396** Prep Date: **10/26/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (>C10 - C28)	40.67	1.7	33.3	0	122	70-130				
Surr: 2-Fluorobiphenyl	4.147	0	*3.3*	*0*	*126*	*70-130*	*0*			

MS Sample ID: **1110806-01DMS** Units: **mg/Kg** Analysis Date: **10/28/2011 01:06 PM**

Client ID: Run ID: **FID-8_111028A** SeqNo: **2579398** Prep Date: **10/26/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (>C10 - C28)	1137	1.7	33.29	966.2	513	70-130				SEO
Surr: 2-Fluorobiphenyl	27.39	0	*3.299*	*0*	*830*	*70-130*	*0*			S

MSD Sample ID: **1110806-01DMSD** Units: **mg/Kg** Analysis Date: **10/28/2011 02:18 PM**

Client ID: Run ID: **FID-8_111028A** SeqNo: **2579399** Prep Date: **10/26/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (>C10 - C28)	950.9	1.7	33.21	966.2	-46	70-130	1137	17.8	30	SEO
Surr: 2-Fluorobiphenyl	24.25	0	*3.291*	*0*	*737*	*70-130*	*27.39*	*12.2*	*30*	S

The following samples were analyzed in this batch: 1110808-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Revision: 1

ALS Environmental

Date: 23-Aug-13

Client: LT Environmental
Project: Circle B No. 4 - 0273-11009
WorkOrder: **1110808**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Units Reported	Description
mg/Kg	Milligrams per Kilogram

ALS Environmental

Sample Receipt Checklist

Client Name: **LT ENVIRONMENTAL** Date/Time Received: **25-Oct-11 08:55**

Work Order: **1110808** Received by: **RDH**

Checklist completed by Robert D. Harris (eSignature) 25-Oct-11 (Date) Reviewed by: Nicole Brown (eSignature) 26-Oct-11 (Date)

Matrices: solids
Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	0.5c	002	
Cooler(s)/Kit(s):	4251		
Date/Time sample(s) sent to storage:			
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:			

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

Revision: 1

SRC Page 1 of 1

ALS Laboratory Group

225 Commerce Drive, Fort Collins, Colorado 80524
TF: (800) 443-1511 PH: (970) 490-1511 FX: (970) 490-1522

Chain-of-Custody

1110808

LT ENVIRONMENTAL: LT Environmental

Project: Circle B #4

		SAMPLER	
PROJECT NAME	Circle B #4	SITE ID	Circle B #4
PROJECT No.	0273-11009	EDD FORMAT	
		PURCHASE ORDER	
COMPANY NAME	LT Environmental Inc.	BILL TO COMPANY	LT Environmental Inc.
SEND REPORT TO	Asher Weinberg	INVOICE ATTN TO	Asher Weinberg
ADDRESS	820 Unit B	ADDRESS	820 Megan Unit B
CITY / STATE / ZIP	Rifle, Colorado 81650	CITY / STATE / ZIP	Rifle, Colroado 81650
PHONE	970-285-9985	PHONE	970-285-9985
FAX	970-285-2467	FAX	970-285-2467
E-MAIL	aweinberg@ltenv.com	E-MAIL	aweinberg@ltenv.com

DATE:
TURNAROUND:

Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC	DRO 8015
	C04	NS	10/20/2011	1500	2			X

*Time Zone (Circle): EST CST MST PST Matrix: O = oil S = soil NS = non-soil solid W = water L = liquid E = extract F = filter

For metals or anions, please detail analytes below.

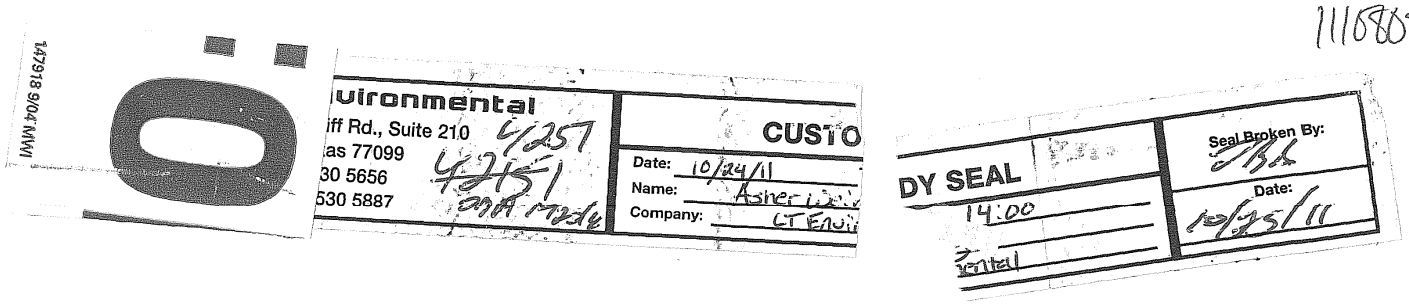
Comments:

QC PACKAGE (check below)	
	LEVEL II (Standard QC)
	LEVEL III (Std QC + forms)
	LEVEL IV (Std QC + forms + raw data)

Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY	[signature]	Asher Weinberg	10/20/11	16:18
RECEIVED BY	[signature]	R.D. HARRIS	10/25/11	0805
RELINQUISHED BY				
RECEIVED BY				
RELINQUISHED BY				
RECEIVED BY				

1110808


uironmental
iff Rd., Suite 210
as 77099
30 5656
530 5887
4257
4251
CUSTO
Date: 10/24/11
Name: Asher
Company: LT Envi
DY SEAL
14:00
Seal Broken By:
Date:
10/25/11


FedEx
FIRST
OVERNIGHT
Ste 210
Delivery Address
10450 STANCLIFF RD STE 2

19-Jul-2012

Brian Dodek
LT Environmental
4600 West 60th Avenue
Arvada, CO 80003

Tel: (303) 962-5535
Fax: (303) 433-1432

Re: BBC1011-002 Work Order: **1207148**

Dear Brian,

ALS Environmental received 1 sample on 05-Jul-2012 09:00 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 9.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Patricia L. Lynch

Electronically approved by: Jumoke M. Lawal

Patricia L. Lynch
Project Manager

Certificate No: T104704231-09A-TX

ALS Environmental

Date: 19-Jul-12

Client: LT Environmental
Project: BBC1011-002
Work Order: **1207148**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1207148-01	C01	Soil		6/29/2012 12:45	7/5/2012 09:00	☐

Client:	LT Environmental
Project:	BBC1011-002
Work Order:	1207148

Case Narrative

The DRO surrogate is diluted out in sample C01 due to the high dilution factor.

Batch 62519a, DRO, Sample 1207226-01A: MS/MSD recoveries are for an unrelated sample.

ALS Environmental

Date: *19-Jul-12*

Client: LT Environmental
Project: BBC1011-002 **Work Order:** 1207148
Sample ID: C01 **Lab ID:** 1207148-01
Collection Date: 6/29/2012 12:45 PM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH AND MISCELLANEOUS GCFID			**SW8015M**		Prep Date: **7/10/2012**	Analyst: **KMB**
DRO (>C10 - C28)	**5,400**		**250**	**mg/Kg**	50	7/11/2012 02:09 PM
Surr: 2-Fluorobiphenyl	*0*	S	*60-135*	*%REC*	50	7/11/2012 02:09 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 19-Jul-12

Client: LT Environmental

Work Order: 1207148

Project: BBC1011-002

QC BATCH REPORT

Batch ID: **62519a** Instrument ID **FID-8** Method: **SW8015M**

MBLK Sample ID: **FBLKS1-120710-62519a** Units: **mg/Kg** Analysis Date: **7/11/2012 11:10 AM**

Client ID: Run ID: **FID-8_120711A** SeqNo: **2854512** Prep Date: **7/10/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (>C10 - C28)	ND	1.7								
Surr: 2-Fluorobiphenyl	*2.701*	0	*3.3*	0	*81.8*	*60-135*	0			

LCS Sample ID: **FLCSS1-120710-62519a** Units: **mg/Kg** Analysis Date: **7/11/2012 11:32 AM**

Client ID: Run ID: **FID-8_120711A** SeqNo: **2854513** Prep Date: **7/10/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (>C10 - C28)	27.12	1.7	33.3	0	81.4	70-130	0			
Surr: 2-Fluorobiphenyl	*2.341*	0	*3.3*	0	*70.9*	*60-135*	0			

MS Sample ID: **1207226-01AMS** Units: **mg/Kg** Analysis Date: **7/11/2012 11:32 AM**

Client ID: Run ID: **FID-8_120711A** SeqNo: **2854520** Prep Date: **7/10/2012** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (>C10 - C28)	7072	17	33.3	6665	1220	70-130	0			SEO
Surr: 2-Fluorobiphenyl	*148.4*	0	*3.3*	0	*4500*	*60-135*	0			*S*

MSD Sample ID: **1207226-01AMSD** Units: **mg/Kg** Analysis Date: **7/11/2012 11:53 AM**

Client ID: Run ID: **FID-8_120711A** SeqNo: **2854521** Prep Date: **7/10/2012** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (>C10 - C28)	6662	17	33.3	6665	-9.23	70-130	7072	5.97	30	SEO
Surr: 2-Fluorobiphenyl	*162*	0	*3.3*	0	*4910*	*60-135*	148.4	*8.8*	*30*	*S*

The following samples were analyzed in this batch: 1207148-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: LT Environmental
Project: BBC1011-002
WorkOrder: **1207148**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Units Reported	Description
mg/Kg	Milligrams per Kilogram

ALS Environmental

Sample Receipt Checklist

Client Name: **LT ENVIRONMENTAL** Date/Time Received: **05-Jul-12 09:00**

Work Order: **1207148** Received by: **RNG**

Checklist completed by Robert D. Harris (eSignature) 05-Jul-12 (Date) Reviewed by: Patricia L. Lynch (eSignature) 10-Jul-12 (Date)

Matrices: soil
Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☐	No ☑	
Temperature(s)/Thermometer(s):	12.9c c/u	003	
Cooler(s)/Kit(s):	2782		
Date/Time sample(s) sent to storage:	7/5/12 18:30		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:			

Login Notes: Received out of temp.

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

SRC Page 1 of 1

1207148

LT ENVIRONMENTAL: LT Environmental

Project: BBC1011-002

ALS Laboratory Group

CHAIN OF CUSTODY

Failure to complete all section of this form may delay analysis.

CLIENT CONTACT AND REPORTING INFORMATION	INVOICE ADDRESS (If other than reporting address)	ANALYSIS RE
Company Name: LT Environmental, Inc	Company Name:	TPH-DRO
Project Manager: Brian Dodek	Contact Name:	
Address: 820 Megan Ave Unit B	Address:	
Rifle, CO 81650		
Phone: 970.285.9985	PROJECT INFORMATION	
Email 1: bdodek@ltenv.com	Project ID: BBC1011-002	
Email 2: rfishburn@ltenv.com	Site: CB-4	
SERVICE REQUEST (Express services subject to availability)	PO No:	
☑ Regular (default)	ALS Quote No:	
☐ Express (Pls specify date required _____) (express fee will apply)		

ALS ID #	SAMPLE IDENTIFICATION (This description will appear on report)	MATRIX (a)	SAMPLING AND CONTAINER INFO			REMARKS	CROSS THE REQUESTED ANALYSIS
			Date	Time	Tot Bottle		
	C01	S	6/29/2012	1245	2		X

CLIENT SIGNATURES	For lab use only			
Client's Signature:	Cooler Security Seal	Sample Temp	No of Cooler Received	Received by (lab) / Date and Time
	☐ sealed	☐ chilled deg 'C	carton / cooler box	7/5/12 @ 09:00
Client's Date and Time of Completion: 7/2/12 1000	☐ broken	☐ ambient	Cooler Name	Committed by / Date and Time
	☐ not available			

Note: (a) **DW** (Drinking water), **SW** (Surface water), **GW** (Ground water), **WW** (Waste water), **S** (Soil), **SL** (Sludge), **SE** (Sediment), **OS** (Other solid material)

ALS Technichem (HK) Pty Ltd Address: 11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, N.T., Hong Kong Tel: +852 2610 1044 Fax: +852 2610 2021 Email: HongKong@alsglobal.com

1207148

FedEx Express *NEW Package US Airbill*

FedEx Tracking Number 8001 2142 2796

Form ID No. 0200 **Recipient's Copy**

1 From [redacted]

Date 7/2/12

Sender's Name Sunny Gonzalez Phone 972 255-5353

Company Lab Hub, LLC

Address 120 C 1st Street Dept/Floor/Suite/Room

City Pasadena State CA ZIP 91635

2 Your Internal Billing Reference

3 To

Recipient's Name ALS Global Phone 281 530-5656

Company ALS - Houston

Address 10450 Stancliff Rd Ste 210 Dept/Floor/Suite/Room

We cannot deliver to P.O. boxes or P.O. ZIP codes.

HOLD Weekday — FedEx location address REQUIRED. NOT available for FedEx First Overnight.

Address

Use this line for the HOLD location address or for continuation of your shipping address.

HOLD Saturday — FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

City Houston State TX ZIP 77094-4338

8001 2142 2796

4 Express Package Service *To most locations.

NOTE: Service order has changed. Please select carefully.

Packages up to 150 lbs. *For packages over 150 lbs., use the new FedEx Express Freight US Airbill.*

Next Business Day

- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.

2 or 3 Business Days

- [ ] NEW FedEx 2Day A.M. — Second business morning.* Saturday Delivery NOT available.
- [x] FedEx 2Day — Second business afternoon.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

5 Packaging * Declared value limit $500.

- [ ] FedEx Envelope*
- [ ] FedEx Pak*
- [ ] FedEx Box
- [ ] FedEx Tube
- [x] Other

6 Special Handling and Delivery Signature Options

- [ ] SATURDAY Delivery — NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.
- [ ] No Signature Required — Package may be left without obtaining a signature for delivery.
- [x] Direct Signature — Someone at recipient's address may sign for delivery. Fee applies.
- [ ] Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. Fee applies.

Does this shipment contain dangerous goods? One box must be checked.

- [x] No
- [ ] Yes — As per attached Shipper's Declaration.
- [ ] Yes — Shipper's Declaration not required.
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box.

- [ ] Cargo Aircraft Only

7 Payment *Bill to:* Enter FedEx Acct. No. or Credit Card No. below.

- [ ] Sender — Acct. No. in Section 1 will be billed.
- [x] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check
- [ ] Obtain recip. Acct. No.

[redacted]

Total Packages ____ Total Weight ____ lbs. Total Declared Value† $ ____ .00 Credit Card Auth. ____

†Our liability is limited to $100 unless you declare a higher value. See the current FedEx Service Guide for details.

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fedex.com 1.800.GoFedEx 1.800.463.3339

Lab Hub LLC CUS

Date: 07 - 02

Signature: [signature]

TODY SEAL RNG 7/5/12

- 2012

[signature]