

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office to
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company Burlington Resources Oil & Gas Company	Contact Crystal Tafoya
Address 3401 East 30th St, Farmington, NM	Telephone No. (505) 326-9837
Facility Name: Lloyd B Com 100	Facility Type: Gas Well

Surface Owner BLM	Mineral Owner BLM (SF-078161)	API No. 30-045-34669
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LOCATION OF RELEASE

Unit Letter F	Section 12	Township 29N	Range 11W	Feet from the 1650	North/South Line North	Feet from the 2014	East/West Line West	County San Juan
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Latitude 36.742926 Longitude 107.944328

NATURE OF RELEASE

Type of Release Produced Fluids	Volume of Release None	Volume Recovered None
Source of Release Below Grade Tank	Date and Hour of Occurrence Unknown	Date and Hour of Discovery December 17, 2012
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

RCVD JAN 31 '13

OIL CONS. DIV.

Describe Cause of Problem and Remedial Action Taken.*


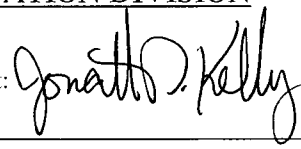
Below Grade Tank Closure Activities

DIST. 3

Describe Area Affected and Cleanup Action Taken.*

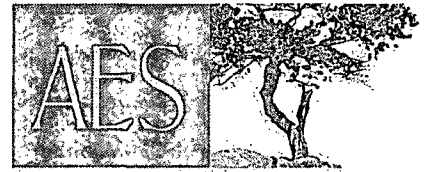
The regulatory standard for closure at this site was determined to be 100 ppm. Soil samples were taken and then transported to the lab and analytical results for TPH, BTEX and Chlorides were below the regulatory standards set forth in the NMOCD Guidelines for Remediation of Leaks, Spills and Release; therefore no further action is required. The final report is attached for review.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: 		OIL CONSERVATION DIVISION	
Printed Name: Crystal Tafoya		Approved by Environmental Specialist: 	
Title: Field Environmental Specialist		Approval Date: 2/1/2013	Expiration Date:
E-mail Address: crystal.tafoya@conocophillips.com		Conditions of Approval: C-144 Closure Permit needed for BGT Closure	
Date: 1/31/2013 Phone: (505) 326-9837		Attached <input type="checkbox"/>	

* Attach Additional Sheets If Necessary

WJK1304231716



Animas Environmental Services, LLC

www.animasenvironmental.com

January 14, 2013

Crystal Tafoya
ConocoPhillips
San Juan Business Unit
Office 214-05
5525 Hwy 64
Farmington, New Mexico 87401

624 E. Comanche
Farmington, NM 87401
505-564-2281

Durango, Colorado
970-403-3084

**RE: Below Grade Tank Closure Report
Lloyd B Com #100
San Juan County, New Mexico**

Dear Ms. Tafoya:

Animas Environmental Services, LLC (AES) is pleased to provide the final report associated with the below grade tank (BGT) closure at ConocoPhillips (CoP) Lloyd B Com #100 located in San Juan County, New Mexico. Tank removal had been completed by CoP contractors prior to AES' arrival at the location.

1.0 Site Information

1.1 Location

Site Name – Lloyd B Com #100

Legal Description – SE¼ NW¼, Section 12, T29N, R11W, San Juan County, New Mexico

Well Latitude/Longitude – N36.74294 and W107.94494, respectively

BGT Latitude/Longitude – N36.74279 and W107.94473, respectively

Land Jurisdiction – Bureau of Land Management (BLM)

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map, December 2012

1.2 NMOCD Ranking

Prior to site work, the New Mexico Oil Conservation Division (NMOCD) database was reviewed, and a C-144 form dated October 2009 for the Lloyd B Com #100 reported the depth to groundwater as greater than 50 feet below ground surface (bgs), and an attached cathodic protection report dated February 2009 reported depth to groundwater as 110 feet bgs. The New Mexico Office of the State Engineer (NMOSE) database was reviewed for nearby water wells, and no registered water wells were reported to be located within 1,000 feet of the location. Additionally, Google Earth and

the New Mexico Tech Petroleum Recovery Research Center online mapping tool (<http://ford.nmt.edu/react/project.html>) were accessed to aid in the identification of downgradient surface water.

Once on site, AES personnel further assessed the ranking using topographical interpretation, Global Positioning System (GPS) elevation readings, and visual reconnaissance. AES personnel concluded that depth to groundwater at the site was between 50 and 99 feet bgs. Hare Canyon wash is located approximately 550 feet east of the location. Based on this information, the location was assessed a ranking score of 20.

1.3 BGT Closure Assessment

AES was initially contacted by Bruce Yazzie, CoP representative, on December 17, 2012, and on December 18, 2012, Heather Woods and Zachary Trujillo of AES mobilized to the location. AES personnel collected six soil samples from below the BGT liner. Four samples were collected from the perimeter of the BGT footprint, one sample was collected from the center of the BGT footprint, and one sample was composited from the four perimeter samples and one center sample.

2.0 Soil Sampling

On December 18, 2012, AES personnel conducted field screening and collected five soil samples (S-1 through S-5) and one 5-point composite (SC-1) from below the BGT. Soil samples were collected from approximately 0.5 feet below the former BGT for field screening of volatile organic compounds (VOCs) and total petroleum hydrocarbon (TPH). Soil sample SC-1 was field screened for chloride and was submitted for confirmation laboratory analysis. Soil sample locations are included on Figure 2.

2.1 Field Screening

2.1.1 Volatile Organic Compounds

A portion of each sample was utilized for field screening of VOC vapors with a photo-ionization detector (PID) organic vapor meter (OVM). Before beginning field screening, the PID-OVM was first calibrated with 100 parts per million (ppm) isobutylene gas.

2.1.2 Total Petroleum Hydrocarbons

Soil samples were also analyzed in the field for TPH per USEPA Method 418.1 using a Buck Scientific Model HC-404 Total Hydrocarbon Analyzer Infrared Spectrometer (Buck). A 3-point calibration was completed prior to conducting soil analyses. Field analytical

protocol followed AES's *Standard Operating Procedure: Field Analysis Total Petroleum Hydrocarbons per EPA Method 418.1*.

2.1.3 Chlorides

Soil sample SC-1 was field screened for chlorides using Chloride Drop Count Titration with silver nitrate. Sampling and analysis methods followed procedures provided by Hach Company.

2.2 Laboratory Analyses

The composite soil sample SC-1 collected for laboratory analysis was placed into a new, clean, laboratory-supplied container, which was then labeled, placed on ice, and logged onto a sample chain of custody record. The sample was maintained on ice until delivery to the analytical laboratory, Hall Environmental Analysis Laboratory (Hall), in Albuquerque, New Mexico. Soil sample SC-1 was laboratory analyzed for:

- Benzene, toluene, ethylbenzene, and xylene (BTEX) per U.S. Environmental Protection Agency (USEPA) Method 8021B; and
- Chloride per USEPA Method 300.0.

2.3 Field and Laboratory Analytical Results

Field screening readings for VOCs via OVM ranged from 0.3 ppm in S-3 and S-4 up to 0.9 ppm in S-2. Field TPH concentrations ranged from 25.9 mg/kg in S-3 up to 39.0 mg/kg in S-5. The field chloride concentration in SC-1 was 100 mg/kg. Field screening results are summarized in Table 1 and presented on Figure 2. The AES Field Screening Report is attached.

Table 1. Soil Field Screening VOCs, TPH, and Chloride Results
Lloyd B Com #100 BGT Closure, December 2012

<i>Sample ID</i>	<i>Date Sampled</i>	<i>Depth below BGT (ft)</i>	<i>VOCs OVM Reading (ppm)</i>	<i>Field TPH (mg/kg)</i>	<i>Field Chlorides (mg/kg)</i>
NMOCD Action Level (NMAC 19.15.17.13E)			--	100	250
S-1	12/18/12	0.5	0.5	33.7	NA
S-2	12/18/12	0.5	0.9	37.7	NA
S-3	12/18/12	0.5	0.3	25.9	NA
S-4	12/18/12	0.5	0.3	37.7	NA
S-5	12/18/12	0.5	0.5	39.0	NA
SC-1	12/18/12	0.5	NA	NA	100

NA - not analyzed

Laboratory analytical results reported benzene and total BTEX concentrations in SC-1 as less than 0.050 mg/kg and 0.25 mg/kg, respectively. The laboratory chloride concentration was reported as 230 mg/kg. Laboratory analytical results are summarized in Table 2 and included on Figure 2. Laboratory analytical reports are attached.

Table 2. Soil Laboratory Analytical Results
Lloyd B Com #100 BGT Closure, December 2012

Sample ID	Date Sampled	Depth (ft)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	Chlorides (mg/kg)
NMOCD Action Level (NMAC 19.15.17.13E)			0.2	50	100		250
SC-1	12/18/12	0.5	<0.050	<0.25	NA	NA	230

NA - not analyzed

3.0 Conclusions and Recommendations

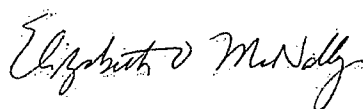
NMOCD action levels for BGT closures are specified in New Mexico Administrative Code (NMAC) 19.15.17.13E. Field TPH concentrations were below the NMOCD action level of 100 mg/kg, with the highest concentration reported in S-5 with 39.0 mg/kg. Chloride concentrations in SC-1 were below the NMOCD action level of 250 mg/kg. Benzene and total BTEX concentrations in SC-1 were below the NMOCD action level of 0.2 mg/kg and 50 mg/kg, respectively. Based on field screening and laboratory analytical results for benzene, total BTEX, TPH, and chlorides, no further work is recommended at the Lloyd B Com #100.

If you have any questions about this report or site conditions, please do not hesitate to contact Deborah Watson at (505) 564-2281.

Sincerely,



Landrea Cupps
Environmental Scientist

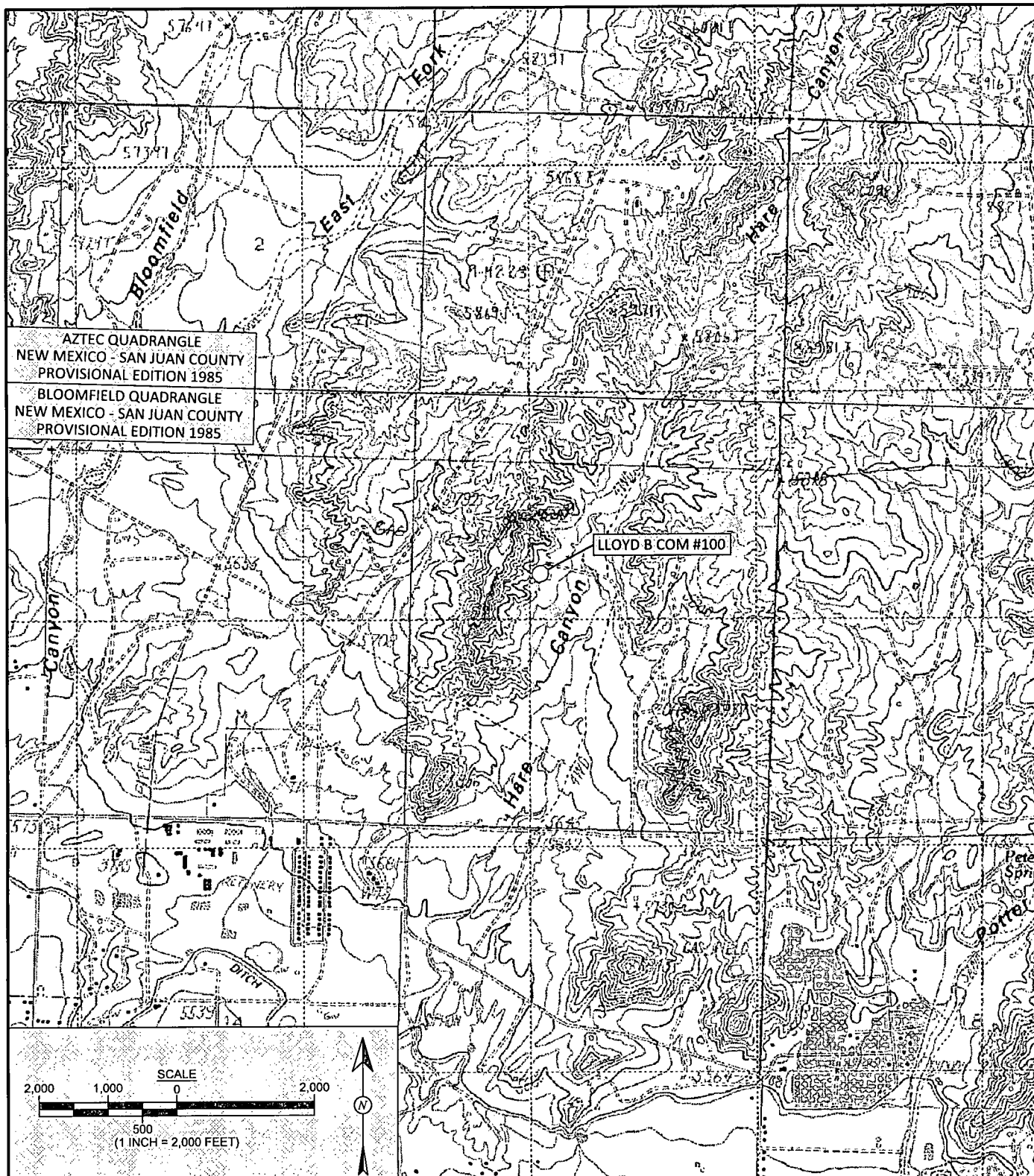


Elizabeth McNally, P.E.

Attachments:

Figure 1. Topographic Site Location Map
Figure 2. Aerial Site Map, December 2012
AES Field Screening Report 121812
Hall Analytical Report 1212831

R:\Animas 2000\Dropbox\2013 Projects\ConocoPhillips\Lloyd B Com #100\Lloyd B Com #100 BGT Closure Report 011413.docx



Animas Environmental Services, LLC

DRAWN BY: C. Lameman	DATE DRAWN: December 26, 2012
REVISIONS BY: C. Lameman	DATE REVISED: December 26, 2012
CHECKED BY: D. Watson	DATE CHECKED: December 26, 2012
APPROVED BY: E. McNally	DATE APPROVED: December 26, 2012

FIGURE 1

TOPOGRAPHIC SITE LOCATION MAP

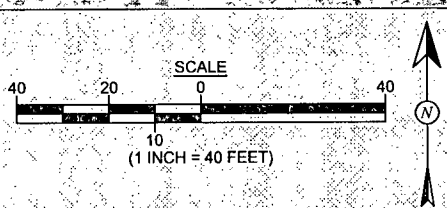
ConocoPhillips
LLOYD B COM #100
SAN JUAN COUNTY, NEW MEXICO
SE¼ NW¼, SECTION 12, T29N, R11W
N36.74294, W107.94494

SAMPLE LOCATIONS

SC-1 IS A 5-POINT COMPOSITE SAMPLE OF S-1
THROUGH S-5. NA - NOT ANALYZED

Laboratory Analytical Results						
Sample ID	Date	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH - GRO (mg/kg)	TPH - DRO (mg/kg)	Chlorides (mg/kg)
NMOCD ACTION LEVEL		0.2	50	100		250
SC-1	12/18/12	<0.050	<0.25	NA	NA	230

SAMPLE WAS ANALYZED PER EPA METHOD 8021B AND 300.0



AERIAL SOURCE: © 2012 PICTOMETRY INTERNATIONAL CORP. ONLINE, AERIAL TAKEN: MARCH 12, 2011



Animas Environmental Services, LLC

DRAWN BY: C. Jameman	DATE DRAWN: December 26, 2012
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REVISIONS BY: C. Lameman	DATE REVISED: December 26, 2012
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CHECKED BY: D. Watson	DATE CHECKED: December 26, 2012
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APPROVED BY: E. McNally	DATE APPROVED: December 26, 2012
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FIGURE 2

**AERIAL SITE MAP
BELOW GRADE TANK CLOSURE
DECEMBER 2012**

ConocoPhillips
LLOYD B COM #100
SAN JUAN COUNTY, NEW MEXICO
SE¼ NW¼, SECTION 12, T29N, R11W
N36.74294, W107.94494

AES Field Screening Report



Animas Environmental Services, LLC

www.animasenvironmental.com

624 E. Comanche
Farmington, NM 87401
505-564-2281

Durango, Colorado
970-403-3274

Client: ConocoPhillips

Project Location: Lloyd B Com #100

Date: 12/18/2012

Matrix: Soil

Sample ID	Collection Date	Time of Sample Collection	Sample Location	OVM (ppm)	Field Chloride (mg/kg)	Field TPH Analysis Time	Field TPH* (mg/kg)	TPH PQL (mg/kg)	DF	TPH Analysts Initials
S-1	12/18/2012	10:14	North	0.5	NA	16:52	33.7	20.0	1	HMW
S-2	12/18/2012	10:15	South	0.9	NA	16:55	37.7	20.0	1	HMW
S-3	12/18/2012	10:16	East	0.3	NA	16:57	25.9	20.0	1	HMW
S-4	12/18/2012	10:18	West	0.3	NA	16:59	37.7	20.0	1	HMW
S-5	12/18/2012	10:19	Center	0.5	NA	17:01	39.0	20.0	1	HMW
SC-1	12/18/2012	10:23	Composite	NA	100	Not Analyzed for TPH.				

PQL Practical Quantitation Limit
ND Not Detected at the Reporting Limit
NA Not Analyzed
DF Dilution Factor

*Field TPH concentrations recorded may be below PQL.

Field Chloride - Quantab Chloride Titrators or Drop Count Titration with Silver Nitrate
Total Petroleum Hydrocarbons - USEPA 418.1

Analyst:

Leather M Woods



*Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com*

December 26, 2012

Debbie Watson

Animas Environmental Services
624 East Comanche
Farmington, NM 87401
TEL: (505) 486-4071
FAX

RE: COP Lloyd B Com #100

OrderNo.: 1212831

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 1 sample(s) on 12/19/2012 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 1212831

Date Reported: 12/26/2012

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Animas Environmental Services**Client Sample ID:** SC-1**Project:** COP Lloyd B Com #100**Collection Date:** 12/18/2012 10:32:00 AM**Lab ID:** 1212831-001**Matrix:** MEOH (SOIL)**Received Date:** 12/19/2012 11:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	12/19/2012 1:16:56 PM
Toluene	ND	0.050		mg/Kg	1	12/19/2012 1:16:56 PM
Ethylbenzene	ND	0.050		mg/Kg	1	12/19/2012 1:16:56 PM
Xylenes, Total	ND	0.10		mg/Kg	1	12/19/2012 1:16:56 PM
Surr: 4-Bromofluorobenzene	101	80-120		%REC	1	12/19/2012 1:16:56 PM
EPA METHOD 300.0: ANIONS						Analyst: JRR
Chloride	230	30		mg/Kg	20	12/19/2012 1:46:31 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1212831

26-Dec-12

Client: Animas Environmental Services

Project: COP Lloyd B Com #100

Sample ID	MB-5353	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	5353	RunNo:	7619					
Prep Date:	12/19/2012	Analysis Date:	12/19/2012	SeqNo:	221302	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-5353	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	5353	RunNo:	7619					
Prep Date:	12/19/2012	Analysis Date:	12/19/2012	SeqNo:	221303	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.4	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1212831

26-Dec-12

Client: Animas Environmental Services

Project: COP Lloyd B Com #100

Sample ID	MB-5330	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	5330	RunNo:	7599					
Prep Date:	12/18/2012	Analysis Date:	12/20/2012	SeqNo:	221204	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		105	80	120			

Sample ID	LCS-5330	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	5330	RunNo:	7599					
Prep Date:	12/18/2012	Analysis Date:	12/20/2012	SeqNo:	221205	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.1		1.000		107	80	120			

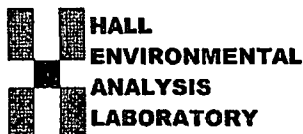
Sample ID	1212751-001AMS	SampType:	MS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	BatchQC	Batch ID:	5330	RunNo:	7599					
Prep Date:	12/18/2012	Analysis Date:	12/20/2012	SeqNo:	221207	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		0.9497		107	80	120			

Sample ID	1212751-001AMSD	SampType:	MSD	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	BatchQC	Batch ID:	5330	RunNo:	7599					
Prep Date:	12/18/2012	Analysis Date:	12/20/2012	SeqNo:	221208	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		0.9488		107	80	120	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87105
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Animas Environmental

Work Order Number: 1212831

Received by/date:

Logged By: Ashley Gallegos

12/19/2012 11:10:00 AM

Completed By: Ashley Gallegos

12/19/2012 11:19:18 AM

Reviewed By: IB

12/19/2012

Chain of Custody

1. Were seals intact? Yes ☐ No ☐ Not Present ☒
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? Courier

Log In

4. Coolers are present? (see 19. for cooler specific information) Yes ☒ No ☐ NA ☐
5. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
6. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
7. Sample(s) in proper container(s)? Yes ☒ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
10. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
11. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
12. Were any sample containers received broken? Yes ☐ No ☒
13. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
14. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
15. Is it clear what analyses were requested? Yes ☒ No ☐
16. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐
- # of preserved bottles checked for pH: (<2 or >12 unless noted)
Adjusted?
Checked by:

Special Handling (If applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:

Date:

By Whom:

Via:

eMail

Phone

Fax

In Person

Regarding:

Client Instructions:

18. Additional remarks:

19. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			

