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Form C-141 Revised August 8, 2011

**Oil Conservation Division** 1000 South St. E. · ~

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

<u>District IV</u> I 220 SOU 1220 S. St. Francis Dr. Santa Fe. NM 87505	th St. Francis Dr.			
Santa I	Fe, NM 87505	· · · · · · · · · · · · · · · · · · ·		
Release Notification	on and Corrective Acti	on		
	OPERATOR	🔲 Initial	Report 🛛 Final Report	
Name of Company Burlington Resources Oil & Gas Company	Contact Crystal Tafoya			
Address 3401 East 30 <sup>th</sup> St, Farmington, NM	Telephone No.(505) 326-9837			
Facility Name: Atlantic B Com 9A	Facility Type: Gas Well			
Surface Owner BLM Mineral Owner	BLM (SF-080917)	API No.3	0-045-22977	
LOCATIO	ON OF RELEASE			
Unit Letter Section Township Range Feet from the Nort	h/South Line   Feet from the   Ea	st/West Line	County	
J 34 31N 10W 1500	South 1825	East	San Juan	
Latitude <u>36.851</u>	97 Longitude <u>107.86685</u>			
NATURI	E OF RELEASE			
Type of Release Produced Water	Volume of Release 14 bbls	Volume Re	covered 2.5 bbls	
Source of Release Production Tank	Date and Hour of Occurrence	Date and H	our of Discovery	
	Unknown	3/9/2013 at	2:35 pm	
Was Immediate Notice Given?	If YES, To Whom?			
By Whom?	Date and Hour			
Was a Watercourse Reached?	If YES, Volume Impacting the V	Vatercourse.		
Yes X No	OIL CONS. DIV DIST. 3			
If a Watercourse was Impacted, Describe Fully.*				
N/A		NFC <b>1</b>	2 2013	
		DEC		
2.5bbis of produced water was recovered. All fund was contained w tank. Describe Area Affected and Cleanup Action Taken.* NMOCD action levels for releases are specified in NMOCD's Guide score of 10. Sample results were above regulatory standards by USI 4' and 270 cubic yards of soil was transported to a third party landf TPH, and BTEX were below the regulatory standards set forth in the 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 regulations all operators are required to report and/or file certain release public health or the environment. The acceptance of a C-141 report by t should their operations have failed to adequately investigate and remedi	lines for Leaks, Spills and Releases EP method 418.1 for TPH confirmit arm. Excavation and confirmation the NMOCD Guidelines for Remedi v. the best of my knowledge and under notifications and perform corrective the NMOCD marked as "Final Repor ate contamination that pose a threat the	and the release ing a release. T sampling occu ation of Leaks, stand that pursu actions for relea t" does not relie o ground water.	e was assigned a ranking he excavation was 35' x 45' x rred. Analytical results for Spills and Release; therefore ant to NMOCD rules and ses which may endanger ve the operator of liability surface water, human health	
or the environment. In addition, NMOCD acceptance of a C-141 report federal, state, or local laws and/or regulations.	does not relieve the operator of resp	onsibility for cor	npliance with any other	
Cystil Tajoya	<u>OIL CONSEI</u>	$\frac{\text{RVATION I}}{\Lambda}$		
Signature:	Approved by Environmental Speci-	alist: Joven	r. Kelly	
Printed Name: Crystal Tafoya		V	<b>`</b>	
Title: Field Environmental Specialist	Approval Date: 4/11/2014	Expiration D	ate:	
E-mail Address: crystal.tafoya@conocophillips.com	Conditions of Approval:		Attached	
Date: 12/10/2013 Phone: (505) 326-9837				

\* Attach Additional Sheets If Necessary

nJK1410147109



Animas Environmental Services, LLC

www.animasenvironmental.com

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

> Durángo, Colorado 970-403-3084

November 22, 2013

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

OIL CONS. DIV DIST. 3 DEC 1 2 2013

Via electronic mail to: <u>SJBUE-Team@ConocoPhillips.com</u>

RE: Initial Release Assessment and Final Excavation Clearance Report Atlantic B Com #9A San Juan County, New Mexico

Dear Ms. Tafoya:

A production tank at the ConocoPhillips (CoP) Atlantic B Com #9A located in San Juan County, New Mexico, overflowed which resulted in a release of approximately 14 barrels (bbls) of produced water. Envirotech, Inc. (Envirotech) conducted a release assessment at the location on March 21, 2013. On July 24, 2013, Animas Environmental Services, LLC (AES) completed an environmental clearance of the final excavation limits. The final excavation was completed by CoP contractors prior to AES' arrival on July 24, 2013.

#### 1.0 Site Information

#### 1.1 Location

Location – NW¼ SE¼, Section 34, T31N, R10W, San Juan County, New Mexico Well Head Latitude/Longitude – N36.85210 and W107.86737, respectively Release Location Latitude/Longitude – N36.85204 and W107.86712, respectively Land Jurisdiction – Bureau of Land Management (BLM) Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map, July 2013

#### 1.2 NMOCD Ranking

In accordance with New Mexico Oil Conservation Division (NMOCD) release protocols, action levels were established per NMOCD *Guidelines for Remediation of Leaks, Spills,* 

*and Releases* (August 1993) prior to site work. The location was given a ranking score of 10 based on the following factors:

- Depth to Groundwater: A cathodic protection report dated May 1991 for the Atlantic B Com #9A reported the depth to groundwater as 140 feet below ground surface (bgs). (0 points)
- Wellhead Protection Area: The release location is not within a wellhead protection area. (0 points)
- Distance to Surface Water Body: A pond and a small unnamed wash which discharges to Mud Canyon are located approximately 530 feet southwest of the release location. (10 points)

#### 1.3 Assessment

Envirotech conducted the release assessment field work on March 21, 2013. The assessment included collection of nine samples from within the release area. Based on the field screening results, Envirotech recommended excavation of the release area. Details of the release assessment along with sample locations are included within the attached Envirotech report.

AES was initially contacted by Eric Smith of CoP on July 24, 2013, and the same day, Corwin Lameman and Stephanie Lynn of AES collected confirmation soil samples of the excavation. The field screening activities included collection of six confirmation soil samples of the walls and base of the excavation. The area of the final excavation was approximately 1,390 ft<sup>2</sup> by 4.5 feet in depth. Sample locations and final excavation extents are presented on Figure 3.

#### 2.0 Soil Sampling

A total of eight soil samples and one composite sample were collected by Envirotech during the assessment. All samples were field screened for volatile organic compounds (VOCs) and were also analyzed for total petroleum hydrocarbons (TPH).

A total of six composite samples (SC-1 through SC-6) were collected during the excavation clearance. All soil samples were field screened for VOCs and analyzed for TPH. One composite sample (SC-5) was submitted for confirmation laboratory analysis.

#### 2.1 AES Field Screening

#### 2.1.1 Volatile Organic Compounds

Field screening for VOC vapors was conducted 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

Field TPH samples were analyzed 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.

#### 2.2 Laboratory Analyses

In March 2013, three release assessment samples (background, North at 4 feet bgs, and Middle at 4 feet bgs) were collected by Envirotech and submitted for laboratory analysis to Envirotech Analytical Laboratory in Farmington, New Mexico. All submitted samples were laboratory analyzed for chloride per U.S. Environmental Protection Agency (USEPA) Method 300.0. Samples North at 4 feet bgs and Middle at 4 feet bgs were analyzed for benzene, toluene, ethylbenzene, and xylene (BTEX) per USEPA Method 8021B. Sample North at 4 feet bgs was additionally analyzed for TPH for gasoline range organics (GRO) and diesel range organics (DRO) per USEPA Method 8015B.

In July 2013, the soil sample collected by AES 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. The soil sample was laboratory analyzed for BTEX per USEPA Method 8021B.

#### 2.3 Field Screening and Laboratory Analytical Results

On March 21, 2013, initial assessment field screening results for VOCs via OVM showed concentrations ranging from 96 ppm in the South sample up to 813 ppm in the Middle sample. Field TPH concentrations ranged from 620 mg/kg in the Middle sample up to 20,000 mg/kg in the Composite sample. Results are included below in Table 1, and details of the sampling are included in the attached Envirotech report.

On July 24, 2013, final excavation field screening results for VOCs via OVM showed concentrations ranging from 1.6 ppm in SC-2 up to 350 ppm in SC-5. Field TPH concentrations ranged from 58.8 mg/kg in SC-3 up to 236 mg/kg in SC-5. Results are included below in Table 1 and on Figure 3. The AES Field Screening Report is attached.

Sample ID	Date Sampled	Sample Depth (ft bgs)	VOCs via OVM (ppm)	Field TPH (mg/kg)
	NMOCD A	ction Level*	100	1,000
Composite**	3/21/13		443	20,000
		1	780	18,500
North**	3/21/13	3	788	10,200
		4	443	2,440
	-	1	813	11,600
Middle**	3/21/13	3	299	1,580
		4	363	620
Coth * *	2/21/12	1	707	1,480
South	3/21/13	2	96	<5.0
Background**	3/21/13		NA	NA
SC-1	7/24/13	1 to 4.5	38.6	113
SC-2	7/24/13	1 to 4.5	1.6	81.1
SC-3	7/24/13	4.5	9.4	58.8
SC-4	7/24/13	1 to 4.5	23.4	115
SC-5	7/24/13	1 to 4.5	350	236
SC-6	7/24/13	4.5	34.0	63.1

Table 1. Field Screening VOCs and TPH Results Atlantic B Com #9A Initial Release Assessment and Final Excavation Clearance,

NA-Not analyzed ;

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\*Action level determined by the NMOCD ranking score per *NMOCD Guidelines* for Leaks, Spills, and Releases (August 1993);

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\*\*Results taken from Envirotech Report dated April 12, 2013

During the release assessment conducted by Envirotech on March 21, 2013, the benzene concentrations in North and Middle samples were reported below the laboratory detection limit of 0.50 mg/kg, and total BTEX concentrations were reported at 31.9 mg/kg and 18.7 mg/kg, respectively. Chloride concentrations ranged from below the laboratory detection limit of 1.0 mg/kg (North and Background) and 17.0 mg/kg (Middle). The background sample had a reported concentration less than 1.0 mg/kg. Results are presented in Table 2 and within the attached Envirotech report.

On July 24, 2013, laboratory analyses for SC-5 were used to confirm field screening results during excavation activities. The benzene concentration in SC-5 was reported below the laboratory detection limit of 0.050 mg/kg, and the total BTEX concentration was reported at 0.30 mg/kg. Results are presented in Table 2 and on Figure 3. The laboratory analytical report is attached.

Table 2. Laboratory Analytical Results – Benzene, Total BTEX, TPH, and Chloride Atlantic B Com #9A Initial Release Assessment and Final Excavation Clearance March and July 2013

Sample ID	Date Sampled	Sample Depth (ft bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	Chloride (mg/kg)
NMO	CD Action Le	vel*	10	50	1,0	000	NE
North**	3/21/13	4	<0.5	31.9	15.7	40.4	<1.0
Middle**	3/21/13	4	<0.5	18.7	NA	NA	17.0
Back- ground**	3/21/13		NA	NA	NA	NA	<1.0
SC-5	7/24/13	1 to 4.5	<0.050	0.30	NA	NA	NA

NA-Not analyzed; NE-Not established;

\*Action level determined by the NMOCD ranking score per NMOCD Guidelines for Leaks, Spills, and Releases (August 1993) );

\*\*Results taken from Envirotech Report dated April 12, 2013

#### 3.0 Conclusions and Recommendations

On March 21, 2013, Envirotech completed a release assessment associated with a production tank overflow at the Atlantic B Com #9A and recommended excavation of the release area in their April 2013 report.

Action levels for releases are determined by the NMOCD ranking score per *NMOCD Guidelines for Leaks, Spills, and Releases* (August 1993), and the site was assigned a rank of 10.

On July 24, 2013, AES completed clearance sampling of the final excavation extents. Final excavation field screening results above the NMOCD action level of 100 ppm VOCs were reported in SC-5 (south wall) with 350 ppm. Field screening results showed TPH concentrations below the NMOCD action level of 1,000 mg/kg in each sample collected. The highest TPH concentration was reported in SC-5 with 350 mg/kg; however, laboratory analytical results from SC-5 reported benzene and total BTEX concentrations below NMOCD action levels. Crystal Tafoya Atlantic B Com #9A Initial Release Assessment Final Excavation Clearance Report November 22, 2013 Page 6 of 6

Based on final field screening and laboratory analytical results of the excavation of petroleum contaminated soils at the Atlantic B Com #9A, benzene, total BTEX, VOC, and TPH concentrations were below applicable NMOCD action levels for each of the sidewalls and base of the excavation. No further work is recommended.

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

Sincerely,

Bandree R. Cupps

Landrea Cupps Environmental Scientist

lipsont & Mindly

Elizabeth McNally, PE

Attachments:

Figure 1. Topographic Site Location Map
Figure 2. Aerial Site Map, July 2013
Figure 3. Final Excavation Sample Locations and Results, July 2013
Envirotech Spill Assessment Report, April 12, 2013
AES Field Screening Report 072413
Hall Laboratory Analytical Report 1307B44

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April 12, 2013

Project Number 92115-2410

Ms. Crystal Tafoya ConocoPhillips 3401 East 30<sup>th</sup> Street Farmington, New Mexico 87401

Phone: (505) 215-4361 Fax: (505) 599-4005

### **RE:** SPILL ASSESSMENT DOCUMENTATION FOR THE ATLANTIC B COM #9A (HBR) WELL SITE, SAN JUAN COUNTY, NEW MEXICO

Dear Ms. Tafoya,

Enclosed please find documentation for spill assessment activities performed at the Atlantic B Com #9A (hBr) well site located in Section 34, Township 31 North, Range 10 West, San Juan County, New Mexico. Upon Envirotech personnel's arrival on March 21, 2013, a brief site assessment was conducted. Because depth to groundwater was greater than 100 feet, nearest surface water was between 200 and 1000 feet, and the well site was not located within a well head protection area, the regulatory standards for the site were determined to be 1000 parts per million (ppm) total petroleum hydrocarbons (TPH) and 100 ppm organic vapors, pursuant to New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills, and Releases.

At the above referenced well site, a production tank overflowed, releasing 14 barrels (bbls) of produced water into the area between the berms surrounding the above ground storage tank (AST) and below ground storage tank (BGT). The release was observed to have impacted the west half of the area between the berms; see enclosed *Site Map*.

One (1) five (5)-point composite sample was collected from the release area. The sample was analyzed in the field for TPH using USEPA Method 418.1 and for organic vapors using a photoionization detector (PID). The sample returned results above the regulatory standard for TPH and for organic vapor; see enclosed *Analytical Results* and *Summary of Analytical Results*. The area of release was divided into three (3) separate sections: the north, middle and south; see *Site Map* for locations.

Three (3) samples were collected from the north section: one (1) from one (1) foot below ground surface (BGS), one (1) from three (3) feet BGS and one (1) from four (4) feet BGS. The samples were analyzed in the field for TPH using USEPA Method 418.1 and for organic vapors using a

5796 US Highway 64, Farmington, NM 874	101
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ConocoPhillips Atlantic B Com #9A (hBr) Spill Assessment Project Number 92115-2410 Page 2

PID. All three (3) samples returned results above the regulatory standard for TPH and for organic vapor; see enclosed *Analytical Results* and *Summary of Analytical Results*. The sample collected from four (4) feet BGS was placed into a four (4)-ounce glass jar, capped head space free, and transported on ice, under chain of custody, to Envirotech's Analytical Laboratory to be analyzed for TPH using USEPA Method 8015, for benzene and total BTEX using USEPA Method 8021, and for chloride using USEPA Method 300. The sample returned results that were non-detect for chloride and below the regulatory standards for all other constituents analyzed; see enclosed *Analytical Results* and *Summary of Analytical Results*.

Three (3) samples were collected from the middle section: one (1) from one (1) foot BGS, one (1) from three (3) feet BGS and one (1) from four (4) feet BGS. The samples were analyzed in the field for TPH using USEPA Method 418.1 and for organic vapors using a PID. All three (3) samples returned results above the regulatory standard for TPH, except for the sample from four (4) feet BGS. All three (3) samples returned results above the regulatory standard for organic vapor; see enclosed *Analytical Results* and *Summary of Analytical Results*. The sample collected from four (4) feet BGS was placed into a four (4)-ounce glass jar, capped head space free, and transported on ice, under chain of custody, to Envirotech's Analytical Laboratory to be analyzed for benzene and total BTEX using USEPA Method 8021 and for chloride using USEPA Method 300. The sample returned a result of 17 ppm for chloride and below the regulatory standards for all other constituents analyzed; see enclosed *Analytical Results* and *Summary of Analytical Results*.

Two (2) samples were collected from the south section: one (1) from one (1) foot BGS and one (1) from two (2) feet BGS. The samples were analyzed in the field for TPH using USEPA Method 418.1 and for organic vapors using a PID. The sample collected from one (1) foot BGS returned a result above the regulatory standards for TPH and for organic vapors. The sample collected from two (2) feet BGS returned a result that was below the regulatory standard for TPH and for organic vapors; see enclosed *Analytical Results* and *Summary of Analytical Results*.

Additionally, one (1) background sample was collected from the area outside of the berms, to the northeast of the release area; see *Site Map* for sample location. The background sample was collected into a four (4)-ounce glass jar, capped head space free, and transported on ice, under chain of custody, to Envirotech's Analytical Laboratory to be analyzed for chlorides using USEPA Method 300. The background sample returned results that were non-detect for chloride; see enclosed *Analytical Results* and *Summary of Analytical Results*. Envirotech, Inc. recommends excavation of the impacted area, 75 feet by eight (8) feet by four (4) feet deep, followed by confirmation sampling.

We appreciate the opportunity to be of service. If you have questions or require additional information, please contact our office at (505) 632-0615.

ConocoPhillips Atlantic B Com #9A (hBr) Spill Assessment Project Number 92115-2410 Page 2

Respectfully submitted, ENVIROTECH, INC.

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Kyle Cossum Staff Engineer kcossum@envirotech-inc.com

- Enclosure(s): Site Map Summary of Analytical Results Analytical Results
- Cc: Client File 92115



Client	ConocoPhillips	Project #:"	92115-2410
Sample No.:	1	Date Reported:	4/8/2013
Sample ID:	Composite	Date Sampled:	3/21/2013
Sample Matrix:	Soil	Date Analyzed:	3/21/2013
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

		Det.
	Concentration	Limit
Parameter	(mg/kg)	(mg/kg)

Total Petroleum Hydrocarbons	20,000	5.0

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: Atlantic B Com #9A (hBr)

Instrument calibrated to 5000 ppm standard and zeroed before each sample.

Analyst

Review

Kyle Cossum

5796 US Highway 64, Farmington, NM 87401	Ph (505) 632-0615	Fx (505) 632-1865				antipled finano
Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301	Ph (970) 259-0615	Fr (800) 362-1879	· · ·	•	-11 	hi@enviroud)=line.com



Client:	ConocoPhillips	Project #:	92115-2410
Sample No.:	2	Date Reported:	4/8/2013
Sample ID:	South 1' BGS	Date Sampled:	3/21/2013
Sample Matrix:	Soil	Date Analyzed:	3/21/2013
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

( <u> </u>		Det.
	Concentration	Limit
Parameter	(mg/kg)	(mg/kg)

Total Petroleum Hydrocarbons	1,480	5.0
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ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: Atlantic B Com #9A (hBr)

Instrument calibrated to 5000 ppm standard and zeroed before each sample.

Analyst

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Kyle Cossum Printed

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Client:	ConocoPhillips	Project #:	92115-2410
Sample No.:	3	Date Reported	4/8/2013
Sample ID:	Middle 1' BGS	Date Sampled:	3/21/2013
Sample Matrix:	Soil	Date Analyzed:	3/21/2013
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

	 	 ·		Det.	<u> </u>
		Concentration	•	Limit	1
Parameter	 	(mg/kg)		(mg/kg)	

Total Petroleum Hydrocarbons	11,600	5.0
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ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Atlantic B Com #9A (hBr) Comments:

Instrument calibrated to 5000 ppm standard and zeroed before each sample.

h/ an Analyst

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**Kyle Cossum** Printed

Toni McKnight, EIT

Printed

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Client:	ConocoPhillips	Project #:	92115-2410
Sample No.:	4	Date Reported:	4/8/2013
Sample ID:	North 1' BGS	Date Sampled:	3/21/2013
Sample Matrix:	Soil	Date Analyzed:	3/21/2013
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

		Det.
	Concentration	Limit
Parameter	 (mg/kg)	(mg/kg)

Total Petroleum Hydrocarbons18,5005.0

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: Atlantic B Com #9A (hBr)

Instrument calibrated to 5000 ppm standard and zeroed before each sample.

10 Analyst

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Client	ConocoPhillips	Project #:	92115-2410
Sample No.:	5	Date Reported:	4/8/2013
Sample ID:	South 2 BGS	Date Sampled:	3/21/2013
Sample Matrix:	Soil	Date Analyzed:	3/21/2013
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

		Det
	Concentration	n Limit
Parameter	(mg/kg)	(mg/kg)

Total Petroleum Hydrocarbons	ND	5.0
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ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: Atlantic B Com #9A (hBr)

Instrument calibrated to 5000 ppm standard and zeroed before each sample.

Analyst

**Kyle Cossum** Printed

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Toni McKnight, EIT

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hree Springs • 65 Mercado Street, Suite 115, Durango, CO 81301	Ph (970) 259-0615 Fr (800) 362-1879	info@envirotedi-inc.com
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Client:	ConocoPhillips	Project #:	92115-2410
Sample No.:	6	Date Reported:	4/8/2013
Sample ID:	Middle 3' BGS	Date Sampled:	3/21/2013
Sample Matrix:	Soil	Date Analyzed:	3/21/2013
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

		Det.
	Concentration	Limit
Parameter	(mg/kg)	(ma/kg)

Total Petroleum Hydrocarbons1,5805.0

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: Atlantic B Com #9A (hBr)

Instrument calibrated to 5000 ppm standard and zeroed before each sample.

Analyst

Review

Kyle Cossum Printed

Toni McKnight, EIT Printed

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5796	US High	way (	94, Fari	mington,	NM 8/	401	يطويد فحواف			
Three	Spring	s • 65	Merca	lo Street	, Suite	115, Du	rango, I	(0 81	1301	

301 Ph (970) 259-0615 Fr (800) 362-1879





Client:	ConocoPhillips	Project #:	92115-2410
Sample No.:	7	Date Reported:	4/8/2013
Sample ID:	North 3' BGS	Date Sampled:	3/21/2013
Sample Matrix:	Soil	Date Analyzed:	3/21/2013
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

	· · · · · · · · · · · · · · · · · · ·	Det.
	Concentration	Limit
Parameter	(mg/kg)	(mg/kg)

Total Petroleum Hydrocarbons10,2005.0

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: Atlantic B Com #9A (hBr)

Instrument calibrated to 5000 ppm standard and zeroed before each sample.

Analyst

Kyle Cossum Printed

Review





Client	ConocoPhillips	Project #:	92115-2410
Sample No.:/	8	Date Reported:	4/8/2013
Sample ID:	Middle 4' BGS	Date Sampled:	3/21/2013
Sample Matrix:	Soil	Date Analyzed:	3/21/2013
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

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		•	Det.
		Concentration	Limit
Parameter	· · · ·	(mg/kg)	(mg/kg)
			. <u>1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997</u>

Total Petroleum Hydrocarbons6205.0

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: Atlantic B Com #9A (hBr)

Instrument calibrated to 5000 ppm standard and zeroed before each sample.

Analyst

Kyle Cossum Printed

Review





Client:	ConocoPhillips	Project #:	92115-2410
Sample No.:	9	Date Reported:	4/8/2013
Sample ID:	North 4' BGS	Date Sampled:	3/21/2013
Sample Matrix:	Soil	Date Analyzed:	3/21/2013
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

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		Concentration	1 1
4		Concentration	Limit
	<b>B</b> alana ang tang tang tang tang tang tang ta	line - D - N	
	Parameter	(та/ка)	(ma/ka) i
	a second s	<u></u>	

Total Petroleum Hydrocarbons2,4405.0

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: Atlantic B Com #9A (hBr)

Instrument calibrated to 5000 ppm standard and zeroed before each sample.

Analyst

Kyle Cossum Printed

Review

796 US Highway 64, Farmington, NM 87401	Ph (505) 632-0615	Fx (505) 632-1865	curino(34)+Inicition	
hree Springs - 65 Mercado Street, Suite 115, Durango, CO 81301	Ph (970) 259-0615	Fr (800) 362-1879	hitcenvirotedelitectom	



**CONTINUOUS CALIBRATION EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS** 

Cal. Date:	21-Mar-13		
Parameter	Standard Concentration mg/L	Concentration Reading mg/L	
ТРН	100		
	200		
	500		
	1000		
	5000	4955	

The accepted percent relative deviation (%RSD) of the calibration factor is less than 20% over the working range.

Analyst

**Kyle Cossum** Print Name

Review

4/8/2013

4/8/2013

Date

Date

#### Toni McKnight, EIT Print Name

5796 US Highway 64, Farmington, NM 87401

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Three Springs - 65 Mercado Street, Suite 115, Durango, CO 81301



Table 1, Summary of Analytical Results ConocoPhillips Atlantic B Com #9A (hBr) Spill Assessment Report ÷ San Juan County, New Mexico Project Number 92115-2410

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Sample Description	Sample Number	Date	ŤPH 418.1 (ppm)	TPH USEPA Method 8015 (ppm)	Benzene USEPA Method 8021 (ppm)	BTEX USEPA Method 8021 (ppm)	Chloride USEPA Method 300 (ppm)	OVM (ppm)
NMOCD/RCRA Standards	NA	NA	1000	1000	10	50	NA	100
Composite	1	3/21/2013	20000	NS	NS	NS	NS	443
North 1' BGS	4	3/21/2013	18500	NS	NS	NS	NS	780
North 3' BGS	7	3/21/2013	10200	NS	NS	NS	NS	788
North 4' BGS	-9	3/21/2013	2440	56.1	ND	31.9	ND	443
Middle 1' BGS	3	3/21/2013	11600	NS	NS	NS	NS	813
Middle 3' BGS	6	3/21/2013	1580	NS	NS	NS	NS	299
Middle 4' BGS	8	3/21/2013	620	NS	ND	18.7	17	363
South 1' BGS	2	3/21/2013	1480	NS	NS	NS	NS	707
South 2' BGS	5	3/21/2013	ND	NS	NS	NS	NS	96
Background	× 10	3/21/2013	NS	NS	NS	NS	ND	NS

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NS = Not Sampled ND = Non-Detect at Stated Method's Detection Limit Values in BOLD above regulatory standards

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#### **Analytical Report**

#### **Report Summary**

Client: ConocoPhillips Chain Of Custody Number: 15320 Samples Received: 3/21/2013 12:45:00PM Job Number: 92115-2410 Work Order: P303076 Project Name/Location: Spill Assessment/ Atlantic B Com 9A (hBr)

3/22/13

Date:

Entire Report Reviewed By:

Tim Cain, Laboratory Manager

T

The results in this report apply to the samples submitted to Envirotech's Analytical Laboratory and were analyzed in accordance with the chain of custody document supplied by you, the client, and as such are for your exclusive use only. The results in this report are based on the sample as received unless otherwise noted. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech. Inc. If you have any questions regarding this analytical report, please don't hesitate to contact Envirotech's Laboratory Staff.

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ConocoPhillips	Project Name:	Spill Assessment/ Atlantic B Com 9A (hBr)		
PO Box 2200	Project Number:	92115-2410		Reported:
Bartlesville OK, 74005	Project Manager:	Kyle Cossum	· · · · · ·	22-Mar-13 13:55

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#### Analyical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container	· · · ·
Background	P303076-01A	Soil	03/21/13	03/21/13	Glass Jar, 4 oz.	
North 4'	P303076-02A	Soil	03/21/13	03/21/13	Glass Jar, 4 oz.	
Mid 4'	 P303076-03A	Soil	03/21/13	03/21/13	Glass Jar, 4 oz.	

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ConocoPhillips PO Box 2200 Bartlesville OK, 74005	Project Name: Project Number: Project Manager:	Spill A 92115- Kyle Co	ssessment/ Atl 2410 ossum	antic B Co	m 9A (hBr)		Report 22-Mar-1	ed:   13:55
	] P3	Background )3076-01 (Solid	d)					
Analyte	Reporti Result Lin	ng nit Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Cation/Anion Analysis			i se estas . Se estas					د و در ۲۰۱۶ ۱۹۰۱ میرد ۱۹۰۱ <u>۱۹۹۹ مرکز ۱</u>
Chloride	ND 14	00 mg/kg		312025	21-Mar-13	21-Mai-13	EPA 300.0	
				•		· · · · · · · · · · · · · · · · · · ·		
	2000	л. -	۰.					• • •
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Ph (505) 632-0615 Fx (505) 632-1865 envirotech-linc.co 5796 US Highway 64, Farmington, NM 87401 laboratory: envirotech-inc.com Ph (970) 259-0615 Fr (800) 362-1879 Three Springs - 65 Mercado Street, Suite 115; Durango, CO 81301

Page 3 of 10



PO Box 2200 Battleciville OK 74005	Project Nu Project Nu	me: mber:	Spill Asses 92115-241 Kyle Coss	ssment/Atlantic 0 um	B Com 9A (hB	r)	Report	ed:
		N( P30307	orth 4' 76-02 (Solid)		<u></u>		22-1100-1	
Analyte	I Result	Reporting Limit	Units D	ilution Batcl	n Prepared	Analyzed	Method	Note
Abstile Organics by EPA 8021								
Benzene	ND	500	ug/L	10 13120	31 21-Mar-13	22-Mar-13	EPA 8021B	
foluene	933	500	ug/L	10 13120	31 21-Mar-13	22-Mar-13	EPA 8021B	
Ethylbenzene	2180	500	ug/i.	10 13120	31 21-Mar-13	22-Mar-13	EPA 8021B	
"m-Xylene	23100	500	ug/L	10 13120	31 21-Mar-13	22-Mar-13	EPA 8021B	
-Xylene	5700	500	ug/L	10 13120	31 21-Mar-13	22-Mar-13	EPA 8021B	
Fotal BTEX	31900	500	ug/L	10 13120	31 21-Mar-13	22-Mar-13	EPA 8021B	
urrogate: Bromochlorobenzene		106 %	80-120	13120	31 21-Mar-13	22-Mar-13	EPA 8021B	
urrogate: 1,4-Difluorobenzene		101 %	80-120	13120	31 21-Mar-13	22-Mar-13	EPA 8021B	14) 14
urrogate: Fluorobenzene		101 %	80-120	13120	31 21-Mar-13	22-Mar-13	EPA 8021B	
Nonhalogenated Organics by 8015			· · · · · · · · · · · · · · · · · · ·		<u></u>		<u>21 - 12 - 14 - 14 - 14 - 14 - 14 - 14 - </u>	
Gasoline Range Organics (C6-C10)	15.7	5.0	mg/kg	1 13120	30 21-Mar-13	22-Mar-13	EPA 8015D	
Diesel Range Organics (C10-C28)	40.4	5.0	mg/kg	1 13120	30 21-Mar-13	22-Mar-13	EPA 8015D	
GRO and DRO Combined Fractions	56.1	5.0	mg/kg	1 13120	30 21-Mar-13	22-Mar-13	EPA 8015D	
Cation/Anion Analysis		_ • _ <u>, •</u> ••	<u> </u>	and the second second		n. Se se	· · · · · · · · · · · · · · · · · · ·	
Chloride	ND	1.00	mg/kg	1 13120	25 21-Mar-13	21-Mar-13	EPA 300.0	<u>.</u>
	1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -	4				de la composición de		
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$Z^{1} = Z^{1} + Z^{2}$ (2)					* .			

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Page 4 of 10



СолосоPhillips	Project Name:	Spill Assessment/ Atlantic B Com 9A (hBr)	
PO Box 2200	Project Number:	92115-2410	Reported:
Bartlesville OK, 74005	Project Manager:	Kyle Cossum	22-Mar-13 13:55

#### Mid 4' P303076-03 (Solid)

Annivic	Result	Reporting Limit	Units	Dilution	Batch	Prenared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	. 500	ug/L	10	1312031	21-Mar-13	22-Mar-13	EPA 8021B	
Toluene	1280	500	ug/L	10	1312031	21-Mar-13	22-Mar-13	EPA 8021B	
Ethylbenzene	1390	500	ug/L	10	1312031	21-Mar-13	22-Mar-13	EPA 8021B	· · · ·
p,m-Xylene	13200	500	ug/L	10	1312031	21-Mar-13	22-Mar-13	EPA 8021B	
o-Xylene	2780	500	ug/L	10	1312031	21-Mar-13	22-Mar-13	EPA 8021B	a a star a s Star a star a
Total BTEX	18700	500	ug/L	10	1312031	21-Mar-13	22-Mar-13	EPA 8021B	
Surrogate: Bromochlorohenzene	· · · ·	106 %	80-120	)	1312031	21-Mar-13	22-Mar-13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		93.6 %	80-120	י	1312031	21-Mar-13	22-Mar-13	EPA 8021B	
Surrogate: Fluorobenzene	· .	93.6.%	80-120	)	1312031	21-Mar-13	22-Mar-13	EPA 8021B	•
Cation/Anion Analysis					11 ×			<u>.</u>	<u> </u>
Cbloride	17.0	1;00	mg/kg	H.	1312025	21-Mar-13	21-Mar-13	EPA 300.0	· · · · · · · · · · · · · · · · · · ·

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ConocoPhillips PO Box 2200 Bartlesville OK, 74005	1	Project Project Project	Name: Number: Manager:	S 9 K	pill Assessmer 2115-2410 Lyle Cossum	nt/ Atlanti	c B Com 9A	\ (hBr)	й х	Report 22-Mar-1	led: 3 13:55
	Volati	ile Or Envi	ganics b rotech A	y EPA Analyti	8021 - Qua cal Labor	lity Con atory	itrol		· · ·		
Analyte	Result		Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1312031 - Purge and Tran EPA 5030A											
Blenk (131203)-BI K1)		1.5	· · · · · ·		Prenared: 2	1-Mar-13	Anglyzed	77_Mar_13			ini tipitan Anti
Benzene	ND		1.00	ug/L	ricpared, 2	1-14101-13		22-1VIAI-13			······
Toluene	ND		1.00		10.11		- 1712 - 5	ал 1910 — А.А.	N.	: 1	
Ethylbenzene	ND	·	1.00								
p.m-Xylene	ND		1.00	•					n in in Diana	•	4 
o-Xylene	ND		1.00			•.		e e e		• •	
Total BTEX	ND		1.00			-				· · ·	
Surrogate: Bromochlorobenzene	42.4			n	50.0		84.9	80-120		•	
Surrogate: 1,4-Difluorobenzene	45.0			"	50.0	÷.,	90.1	80-120		. *	
Surrogate: Fluorohenzene	44.3		÷	۳	50.0		88.6	80-120			· · · · ·
Duplicate (1312031-DUP1)	S	Source	P303076-	02	Prepared: 2	I-Mar-13	Analyzed:	22-Mar-13	•	10 - E	
Benzene	ND		500	ug/l.	<del></del>	ND			<u> </u>	30	
Toluene	932		500	٠		933	•		0.167	30	- 1
Ethylbenzene	2400		500	÷		2180			9,65	30	1.11
p.m-Xylene	24700		500	<b>`•</b>		23100			6.73	30	• • • •
o-Xylene	5600		500			5700			1,88	30	
Surrogate: Bromachiorobenzene	55.5			n	50.0			80-120			 
Surrogate: 1.4-Difluorohenzene	52.3			n	50,0		105	80-120			
Surrogaté: Fluorobenzene	52.2	<i>*</i> .		"	50.0		104	80-120			
Matrix Spike (1312031-MS1)	S	Source	P303076-4	)2	Prepared: 2	I-Mar-13	Analyzed:	22-Mar-13			
Benzene	50,8			ug/L	50.0	0,34	101	39-150		- <u>-</u>	
Toluene	52.0			÷	50,0	1,87	100	46-148			
Ethylbenzene	54.0			••2	50,0	4.36	99.3	32-160			
n m-Xylene	132			• 5 A	100	46.3	86.1	46-148			
o-Xylene	58.2		· .	( <b>*</b> 81)	50.0	11:4	93,7	46-148		a	
Surrogate: Bromochlorohenzene	53.9			h	50.0		108	80-120			
Surrogate: 1,4-Difluorobenzene	48.5				50.0		96.9	80-120			
	10 4			<b>#</b> .	50.0		07.3	80.100			

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#### Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1312030 - GRO/DRO Extraction	n EPA 3550C	an a						ر. مربع محمد و دفقه	िसे हो। 1211 <u>स</u> ंबर्गन	1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -
Blank (1312030-BLK1)	an Bree cleary		P	repared: 2	21-Mar-13	Analyzed:	22•Mar-13			
Jasoline Range Organics (C6-C10)	ND	5.0	mg/kg	· . · · · · ·	194			•	., 2	
Diesel Range Organics (C10-C28).	ND	5.0								
IRO and DRO Combined Fractions	w ND	5.0					1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -			
Duplicate (1312030-DUP1)	Sour	ce: P303076-02	F	repared:	21-Mar-13	Analyzed	22-Mar-13	• • • •		
Jasoline Range Organics (C6-C10)	14,3	5.0	mg/kg		15,7.			918	30	
Diesel Range Organics (C10-C28)	39.4	5.0	۳.,		40.4			2.57	30	
Matrix Spike (1312030-MS1)	Sour	ce: P303076-02	F	repared:	21-Mar-13	Analyzed	22-Mar-13	• • • • • • • • •		a and a second secon
Gasoline Range Organics (C6-C10)	266	5.0	mg/kg	250	15,7	100	75-125			
Diesel Range Organics (C10-C28)	297	5.0	•	250	40,4	103	75-125			÷
				ant Generation				2.11	29	· ·
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	· .			•		17				
	÷ .	÷		•					•1	4 
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ConocoPh PO Box 2 Bartlesvill	illips 200 le OK, 74005	Project Name: Project Number: Project Manager:	Spill Assessment/ Atlantic B Com 9A (hBr) 92115-2410 Kyle Cossum	Reported: 22-Mar-13 13:55
		Notes and D	efinitions	· · · · · · · · · · · · · · · · · · ·
DET	Analyte DETECTED			
ND	Analyte NOT DETECTED at or above the reporting	3 limit		
NR	Not Reported			
dry	Sample results reported on a dry weight basis			
RPD	Relative Percent Difference			
			<u>ن</u>	n an

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Page 9 of 10

ults to:	11 N 1 21 N 12		/ ATIAM C B Con	94 (	hBr)									210/0		1741911				
<u>ວະວັນກອບການ (</u> one No.:	lech-inc.cei	► Clie	mpler Name: <u>Kyle Coss</u> ent No.: GZ/I	4~ 5-24	10				Aethod 8015)	(Method 8021)	Method 8260)	8 Metals		with H/P	ble 910-1	118.1)	RIDE			
No./ Identification	Sample . Date	Sample Time	Lab No.	No./ of Co	Volume Intainers	Pr HgCl <sub>2</sub>	eservat HCI	ive ccel	TPH (A	BTEX	NOC (I	RCRA		TCLP	CO Ta	TPH (4	CHLO			
cliqionia	3/2/13	11(15	P3030716-01	W q	( <del>2</del> .)6)-												У			Ļ
'orth y'	3/21/13	11:30	P303076-02		1 · · · · · · · · · · · · · · · · · · ·	-			X	Х				<u> .</u>	ļ.		X			Ļ
hid y'	3/21/13	11:45	P303076-03	-4				4	X	X							X			-
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atrix		Other 🗂					· · · · · · · · · · · · · · · · · · ·			······				 -						
	e No./ Identification ac leg covird Iorth y' Aiod Y' Nod Y' Nod by: (Signature) ned by: (Signature)	e No./ Identification Sample Date Date Ac leg courd 3/21/13 I orth 4' 3/21/13 Ai of 4' 3/21/13 Iatrix	One No.:       Cli         e No./ Identification       Sample Date       Sample Time         ac lcg courd $3l \cdot 21   13$ $11 \cdot 15$ ac lcg courd $3l \cdot 21   13$ $11 \cdot 15$ I outh 4       4 $3 \cdot 21   13$ $11 \cdot 30$ A : of 4' $3 \cdot 21   13$ $11 \cdot 30$ A : of 4' $3 \cdot 21   13$ $11 \cdot 30$ ned by: (Signature)       11 \cdot 45         iatrix       10 \cdot	One No.:       Client Nd:: $GZ/I$ e No./ Identification       Sample Date       Sample Time       Lab No.         ac   cg cost rd $3/2t/I3$ $II < 15$ $P3030716-03$ $I \circ Ah$ $4'$ $3/2t/I3$ $II < 30$ $P3030716-03$ $I \circ Ah$ $4'$ $3/2t/I3$ $II < 30$ $P3030716-03$ $Ai \circ A$ $9'$ $3/2t/I3$ $II < 45$ $P303076-03$ Ai of $9'$ $3/2t/I3$ $II < 45$ $P303076-03$ ned by: (Signature) $II < 45$ $II < 45$ $II < 45$ ned by: (Signature) $II < 45$ $II < 45$ $II < 45$ Iatrix $II < 45$ $II < 45$ $II < 45$	One No.:       Client Nd:: $Q \ge 1/5 - 2.4$ $a \ge No./Identification$ Sample Date $Date$ Time         Lab No.       No./of Co $a \ge lcg \ courd$ $3/21/13$ $1/3$ $11'15$ $P \ge 0.30716 - 0.1$ $(1).4$ $A \ge A + 4'$ $3/21/13$ $1/3$ $11'15$ $P \ge 0.30716 - 0.3$ $1/3$ $A \ge A + 4'$ $3/21/13$ $A \ge A + 4'$ $A \ge 4'$ $A \ge A + 4'$ $A \ge 4'$ $A \ge A = 4'$ $A \ge 4$	Client Nd:: Client Nd:: $Q \ge 1/5 - 2.4.10$ No./Volume of Containers ac  cg rowrd 3/21/13 11/15 P3030710-01 10.46.4' 3/21/13 11/15 P3030710-03 10.46.4' 3/21/13 11/15 P3030710-03 10.46.4' 11/15 P3030710-03 10.46.4' 11/15 P3030710-03 10.46.4' 11/15 P3030710-03 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10.46.4' 10	one No.:       Client Nd.:       QZ/IS-ZY/IO         e No./ Identification       Sample Date       Sample Time       Lab No.       No./Volume of Containers       Product of Containers         ac/cg cost rd       3/21/I3       II(15       P303010-01       U) 4c2.jeju       P303010-03       P303010-03         Ai d. Y'       3/21/I3       II(130       P303010-03       P       P303010-03       P         Ai d. Y'       3/21/I3       I 1/45       P303010-03       P       P         ied by: (Signature)       Date       Time       Receit         ied by: (Signature)       Receit       Receit       Receit	Client Nd:: $Q \ge 1/5 - \ge 4/10$ No./ Identification       Sample Date       Sample Time       Lab No.       No./Volume of Containers       Preserval Hgdz Hdl         ac/cg courd $3/21/13$ $11/15$ $P3030716-01$ $(1)$ $4cz_2$ $4cl$ ac/cg courd $3/21/13$ $11/15$ $P3030716-03$ $4cz_2$ $4cl$ $1o_{a}A_{b}A_{b}A_{c}A_{b}A_{c}A_{c}A_{c}A_{c}A_{c}A_{c}A_{c}A_{c$	Client NS: $G \ge 1/5 - 2.9.10$ No./ Identification       Sample Date       Time       Lab No.       No./Volume of Containers       Preservative Hydroige         ac   cg row rd $3/21/13$ $11/15$ $P3030716-01$ $(1)$ $4c2$ $4c1$ $cold$ ac   cg row rd $3/21/13$ $11/15$ $P3030716-01$ $(1)$ $4c2$ $4c1$ $cold$ $1 \circ Ah$ $4'$ $3/21/13$ $11/15$ $P3030716-03$ $4'$ $4'$ $Ai : d$ $9'$ $3/21/13$ $11/195$ $P3030716-03$ $4'$ $4'$ $Ai : d$ $9'$ $3/21/13$ $11/195$ $P3030716-03$ $4'$ $4'$ $Ai : d$ $9'$ $3/21/13$ $11/195$ $P3030716-03$ $4'$ $4'$ $Ai : d$ $9'$ $3/21/13$ $11/195$ $P3030716-03$ $4'$ $4'$ $4'$ $Ai : d$ $9'$ $3/21/13$ $11/195$ $P3030716-03$ $4'$ $4'$ $4'$ $1000000000000000000000000000000000000$	Client Nd::       Client Nd::       QZ/IS-ZY/IO       Preservative       Preservative         ac/lcg row rd       3/2/1/3       11/15       P3030710-01       W. 402 Hot Cool       Preservative       Preservative	One No.:       Client Nd: G > 1/5 - 2 4 10       Preservative HpC2       Preservative HpC2	One No.:       Client Nd:: $q \ge 1/5 - 2.4 \ 10$ Preservative       Preservative	one No.:       Client Nd::       QZ/IS-ZY.IO       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0 <td< td=""><td>Client No::       Client No::       <math>q \ge 1/5 - \ge 4/10</math> <math>p = \frac{1}{2}</math> <math>p = \frac{1}{2}</math></td><td>One No.:       Client NG::       QZ/15-ZY/10       Ogg V V V V V V V V V V V V V V V V V V</td><td>One No.:       Client Nd::       GZ/IS - Z.Y.10       Date       Date</td><td>One No.:       Client Nd::       G Z / 15 - 2 Y / 0       Organ / 15 / 15 / 10 / 15 / 10 / 10 / 10 / 10</td><td><math display="block">\begin{array}{c c c c c c c c c c c c c c c c c c c </math></td><td>Client Nd::       Client Nd::       GZ/IS-24/IC       Object of the containers       Object of the</td><td>Client No::       Client No::       Q2/15-24/10       Output for the second of the s</td></td<>	Client No::       Client No:: $q \ge 1/5 - \ge 4/10$ $p = \frac{1}{2}$	One No.:       Client NG::       QZ/15-ZY/10       Ogg V V V V V V V V V V V V V V V V V V	One No.:       Client Nd::       GZ/IS - Z.Y.10       Date       Date	One No.:       Client Nd::       G Z / 15 - 2 Y / 0       Organ / 15 / 15 / 10 / 15 / 10 / 10 / 10 / 10	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Client Nd::       Client Nd::       GZ/IS-24/IC       Object of the containers       Object of the	Client No::       Client No::       Q2/15-24/10       Output for the second of the s

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#### AES Field Screening Report

Client: ConocoPhillips

Project Location: Atlantic B Com #9A

Date: 7/24/2013



Animas Environmental Services LLC.

www.animasenvironmental.com

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

> Durango, Colorado 970-403-3084

		· · · · · · · · ·					
on Collection Time	Sample Location	OVM (ppm)	Time of Sample Analysis	Field TPH* (mg/kg)	TPH PQL (mg/kg)	DF	TPH Analysts Initials
13 12:02	West Wall	38.6	12:57	113	20.0	1	SL
13 12:04	North Wall	1.6	13:00	81.1	20.0	1	SL
13 12:05	Base (East)	9.4	13:02	58.8	20.0	1	SL
13 12:08	East Wall	23.4	13:05	115	20.0	1	SL
13 12:10	South Wall	350	13:07	236	20.0	1	SL
13 12:12	Base (West)	34.0	13:10	63.1	20.0	1	SL
	Collection Time           13         12:02           13         12:04           13         12:05           13         12:08           13         12:10           13         12:12	Collection TimeSample Location1312:02West Wall1312:04North Wall1312:05Base (East)1312:08East Wall1312:10South Wall1312:12Base (West)	Collection Time         OVM Sample Location         OVM (ppm)           13         12:02         West Wall         38.6           13         12:04         North Wall         1.6           13         12:05         Base (East)         9.4           13         12:08         East Wall         23.4           13         12:10         South Wall         350           13         12:12         Base (West)         34.0	Collection Time         Sample Location         OVM (ppm)         Time of Sample Analysis           13         12:02         West Wall         38.6         12:57           13         12:04         North Wall         1.6         13:00           13         12:05         Base (East)         9.4         13:02           13         12:08         East Wall         23.4         13:05           13         12:10         South Wall         350         13:07           13         12:12         Base (West)         34.0         13:10	Collection Time         Sample Location         OVM (ppm)         Time of Sample Analysis         Field TPH* (mg/kg)           13         12:02         West Wall         38.6         12:57         113           13         12:04         North Wall         1.6         13:00         81.1           13         12:05         Base (East)         9.4         13:02         58.8           13         12:08         East Wall         23.4         13:05         115           13         12:10         South Wall         350         13:07         236           13         12:12         Base (West)         34.0         13:10         63.1	Dem         Collection Time         Sample Location         OVM (ppm)         Time of Sample Analysis         Field TPH* (mg/kg)         TPH PQL (mg/kg)           13         12:02         West Wall         38.6         12:57         113         20.0           13         12:04         North Wall         1.6         13:00         81.1         20.0           13         12:05         Base (East)         9.4         13:02         58.8         20.0           13         12:08         East Wall         23.4         13:05         115         20.0           13         12:10         South Wall         350         13:07         236         20.0           13         12:12         Base (West)         34.0         13:10         63.1         20.0	Collection         Collection         Sample Location         OVM (ppm)         Time of Sample Analysis         Field TPH* (mg/kg)         TPH PQL (mg/kg)         DF           13         12:02         West Wall         38.6         12:57         113         20.0         1           13         12:04         North Wall         1.6         13:00         81.1         20.0         1           13         12:05         Base (East)         9.4         13:02         58.8         20.0         1           13         12:08         East Wall         23.4         13:05         115         20.0         1           13         12:10         South Wall         350         13:07         236         20.0         1           13         12:12         Base (West)         34.0         13:10         63.1         20.0         1

Total Petroleum Hydrocarbons - USEPA 418.1

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

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Analyst:

Stephaniedyn

Page 1 Report Finalized: 07/24/13



July 29, 2013

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

RE: CoP Atlantic B Com #9A

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

OrderNo.: 1307B44

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 1 sample(s) on 7/25/2013 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 <u>www.hallenvironmental.com</u> or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. 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. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. 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.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

andig

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report Lab Order 1307B44 Date Reported: 7/29/2013

#### Hall Environmental Analysis Laboratory, Inc.

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CLIENT: Animas Environmental Project: CoP Atlantic B Com #9A			Client Sampl Collection	e ID: SC Date: 7/2	C-5 24/2013 12:10:00 PM	
Lab ID: 1307B44-001	Matrix:	MEOH (SOIL	) Received	Date: 7/2	25/2013 10:00:00 AM	
Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analys	st: DAM
Benzene	ND	0.050	mg/Kg	1	7/25/2013 11:31:04 AI	M R12184
Toluene	ND	0.050	mg/Kg	1	7/25/2013 11:31:04 AI	M R12184
Ethylbenzene	ND	0.050	mg/Kg	1	7/25/2013 11:31:04 AI	A R12184
Xylenes, Total	0.30	0.10	mg/Kg	1	7/25/2013 11:31:04 Al	M R12184
Surr: 4-Bromofluorobenzene	107	80-120	%REC	· 1	7/25/2013 11:31:04 A	N R12184

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	Е	Value above quantitation range	н	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit Page 1 of 2
	0	RSD is greater than RSDlimit	Р	Sample pH greater than 2 for VOA and TOC only.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

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#### **QC SUMMARY REPORT** Hall Environmental Analysis Laboratory, Inc.

WO#: 1307B44

RPDLimit

29-Jul-13

Qual

Animas Environmental **Client:** CoP Atlantic B Com #9A **Project:** Sample ID mb-8541 25 SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: PBS Batch ID: R12184 RunNo: 12184 Prep Date: Analysis Date: 7/25/2013 SeqNo: 347492 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD

,			
Benzene	ND	0.050	
Toluene	ND	0.050	
Ethylbenzene	ND	0.050	
Xylenes, Total	ND	0.10	
Surr: 4-Bromofluorobenzene	0.98		

Surr: 4-Bromofluorobenzene	0.98		1.000		97.6	80	120			
Sample ID Ics-8541 24	Samp	Гуре: LC	s	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batcl	h ID: <b>R1</b>	2184	F	RunNo: 1	2184				
Prep Date:	Analysis [	Date: 7/	25/2013	S	SeqNo: 3	47494	Units: <b>mg/k</b>	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.050	1.000	0	103	80	120			
Toluene	1.0	0.050	1.000	0	105	80	120			
Ethylbenzene	1.0	0.050	1.000	0	104	80	120			
Xylenes, Total	3.1	0.10	3.000	0	104	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	80	120			

#### Qualifiers:

- Value exceeds Maximum Contaminant Level. \*
- Value above quantitation range Е
- Analyte detected below quantitation limits J
- RSD is greater than RSDlimit 0
- R RPD outside accepted recovery limits

- Analyte detected in the associated Method Blank В
- Н Holding times for preparation or analysis exceeded
- NĎ Not Detected at the Reporting Limit
- Р Sample pH greater than 2 for VOA and TOC only.

Page 2 of 2

**Reporting Detection Limit** RL

HALL HUIL LIVE ON MENTAL ENVIRONMENTAL ANALYSIS LABORATORY TEL: 505-345-35 Website: www	4901 Hawkin 4901 Hawkin Ilbuquerque, NM 8 975 FAX: 505-345- hallenvironmental	NE 5 NE 7105 Sam 4107 .com	ple Log-In Ch	eck List			
Client Name: Animas Environmental Work Order Numb	Work Order Number: 1307B44						
Received by/date: 10 07 34/13	······································						
Logged By: Ashley Gallegos 7/25/2013 10:00:00	AM	AJ					
Completed By: Ashley Gallegos 7/25/2013 10:04:34	AM	AZ					
Reviewed By: TO 07/25/13		v					
Chain of Custody				······································			
1. Custody seals intact on sample bottles?	Yes 🗌	No 🗌	Not Present 🗹				
2. Is Chain of Custody complete?	Yes 🗹	No 🗌	Not Present				
3. How was the sample delivered?	<u>Courier</u>						
logla							
		–					
4. Was an attempt made to cool the samples?	Yes ⊻	No 🖵	NAL				
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes 🗹	No 🗌					
6. Sample(s) in proper container(s)?	Yes 🗹	No 🗌					
7. Sufficient sample volume for indicated test(s)?	Yes 🗹	No 🗆					
8. Are samples (except VOA and ONG) properly preserved?	Yes 🗹	No 🗌					
9. Was preservative added to bottles?	Yes 🗌	No 🗹	. NA 🗆	• •			
10.VOA vials have zero headspace?	Yes 🗌	No 🗌	No VOA Vials 🗹				
11. Were any sample containers received broken?	Yes 🗆	No 🗹		·····			
			# of preserved bottles checked				
12. Does paperwork match bottle labels?	Yes 🗹	No 🗍	for pH:	>12 unless noted)			
(Note discrepancies on chain of custody)	Yes 🔽	No 🗌	Adjusted?				
14 Is it clear what analyses were requested?	Yes 🗹	No 🗌					
15. Were all holding times able to be met?	Yes 🗹	No 🗌	Checked by:	<u></u>			

(If no, notify customer for authorization.)

#### Special Handling (if applicable)

16.1	Nas client notified of all di	screpancies with this order?	Y	es 🗌	No 🗔	NA 🗹
	Person Notified:		Date:			
	By Whom:	ingana ang kang mang mang kang kang mang kang kang kang kang kang kang kang k	Via: 🗌 e	Maii 🗌	Phone 🗌 Fax 📋	] In Person
	Regarding:					
	Client Instructions:					

17. Additional remarks:

#### 18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.2	Good	Yes			

Chain-of-Custody Record		Turn-Around Time:					<i>e</i>	_	R				5X 8 34	st P	3 <i>8</i> 3			MA 3 "5"					
Client: Animas Environmental Services			Standard <u>Rush</u> Same day     Project Name:							ſ	n pa N N	al		SIS	s L	<b>.</b> A I	30	ric R/	ATC	al Dr'	Y		
									1											•			
Mailing Address: 624 E. Comerche			COP Atlanter B Com # 90				4901 Hawkins NE - Albuquerque, NM 87109																
Economica ALM 87471			Project #:				Tel. 505-345-3975 Fax 505-345-4107																
Phone #: 505-564-228/												کر در انداز (۱۹۹۵) مراجع انداز (۱۹۹۵)	À.	Mal	ysis	Rec	ues						
email or Fax#:			Project Mana	iger:					چَ ا	(ô					5								
QA/QC F	ackage:		· ·						<u>0</u> 21	IS OI	/ MF			s)		, S(	CB's						
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	tation A P		r	Sampler: 5.4	lynn / C. Lai	meman				TPH	0 / D	8.1)	4.1)	270		N N	808						NN.
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Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HE The	AL NO	ALC: NO	BTEX + MFB	BTEX + MTB	TPH 8015B (	TPH (Methoo	EDB (Methoo	PAH's (8310	RCRA 8 Met	Anions (F,CI,	8081 Pesticio	8260B (VOA	8270 (Semi-\				Air Ruhhlac /
7/24/13	12:10	5051	56-5	MON Kit	Me OH		-001		X		·										+		Ť
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If necessary, samples submitted to Hall Environmental may be subcontracted fo other accredited laboratories / This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.