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, a Wholly Owned Subsidiary of ConocoPhillips Company**	Contact **Lisa Hunter**
Address **3401 East 30th St, Farmington, NM**	Telephone No. **(505) 326-9786**
Facility Name: **San Juan 29-7 Unit 38A**	Facility Type: **Gas Well**

Surface Owner **Public (Private)**	Mineral Owner **Fee**	API No. **3003921615**

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
I	**12**	**29N**	**07W**	**1740**	**South**	**850'**	**East**	**Rio Arriba**

Latitude 36.73797 Longitude -107.51559

NATURE OF RELEASE

Type of Release **Hydrocarbon**	Volume of Release **9.455 BBL**	Volume Recovered **0BBL**
Source of Release **Oil Dump Line Leak**	Date and Hour of Occurrence **Unknown**	Date and Hour of Discovery **04/26/14 @ 10:00 a.m.**
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? **NMOCD, Brandon Powell**	
By Whom? **Lisa Hunter**	Date and Hour **04/29/14 @8:16 a.m.**	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. **N/A**	

RCVD AUG 19'14
OIL CONS. DIV.
DIST. 3

If a Watercourse was Impacted, Describe Fully.*
N/A

Describe Cause of Problem and Remedial Action Taken.*
Crack in the tank riser from separator dump line caused the leak of approximately 9.455 BBLs of hydrocarbon.

Describe Area Affected and Cleanup Action Taken.*
Third-party Environmental assessed affected area, and excavation to remediate will be scheduled. **Excavation was 15' x 10' x 13' Deep. 160 c/yds of soil was transported to IEI Land Farm and 160 c/yds of clean soil was transported from Aztec Machine Company, and placed in the excavation site. Analytical results were below the regulatory standards – no further action required. The soil sampling 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 Approved by Environmental Specialist:	
Printed Name: **Lisa Hunter**		
Title: **Field Environmental Specialist**	Approval Date: 11/4/14	Expiration Date:
E-mail Address: **Lisa.Hunter@cop.com**	Conditions of Approval:	Attached ☐
Date: **August 15, 2014** Phone: **(505) 326-9786**		

* Attach Additional Sheets If Necessary

#NCS 1430837558

23

Animas Environmental Services, LLC
www.animasenvironmental.com
624 E. Comanche
Farmington, NM 87401
505-564-2281
Durango, Colorado
970-403-3084

August 11, 2014

Lisa Hunter
ConocoPhillips
San Juan Business Unit
Office 214-04
5525 Hwy 64
Farmington, New Mexico 87401

Via electronic mail to:
SJBUE-Team@ConocoPhillips.com

RE: Initial Release Assessment and Final Excavation Report
San Juan 29-7 Unit #38A
Rio Arriba County, New Mexico

Dear Ms. Hunter:

On May 1 and June 17, 2014, Animas Environmental Services, LLC (AES) completed an initial release assessment and environmental clearance of the final excavation limits at the ConocoPhillips (CoP) San Juan 29-7 Unit #38A, located in Rio Arriba County, New Mexico. The release consisted of approximately 9.5 barrels (bbls) of petroleum hydrocarbons and was the result of a crack in the tank riser from the separator discharge line at the location. The initial release assessment was completed by AES on May 1, 2014, and the final excavation was completed by CoP contractors prior to AES' arrival at the location on June 17, 2014.

1.0 Site Information

1.1 Location

Site Name – San Juan 29-7 Unit #38A
Location – NE¼ SE¼, Section 12, T29N, R7W, Rio Arriba County, New Mexico
Well Head Latitude/Longitude – N36.73777 and W107.51618, respectively
Release Location Latitude/Longitude – N36.73787 and W107.51598, respectively
Land Jurisdiction – Private
Figure 1. Topographic Site Location Map
Figure 2. Aerial Site Map, May 2014

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 release was given a ranking score of 20 based on the following factors:

- **Depth to Groundwater:** A cathodic protection report form dated May 1991 for the location reported the depth to groundwater at 90 to 100 feet below ground surface (bgs). (10 points)
- **Wellhead Protection Area:** The release location is not within a wellhead protection area. (0 points)
- **Distance to Surface Water Body:** Approximately 760 feet to the northwest is an unnamed wash that is a tributary to Gobernador Canyon wash. (10 points)

1.3 Assessment

AES was initially contacted by Lisa Hunter of CoP on April 29, 2014, and on May 1, 2014, Deborah Watson and Lavina Lamone of AES completed the release assessment field work. The assessment included collection and field sampling of 21 soil samples from 7 borings in and around the release area. Soil borings were terminated between 4 and 13 feet. Based on the field sampling results, AES recommended excavation of the release area. Sample locations are shown on Figure 3.

On June 17, 2014, AES returned to the location to collect confirmation soil samples of the excavation. The field sampling activities included collection of five confirmation soil samples from the walls and base of the excavation. The area of the final excavation measured approximately 13 feet by 12 feet by 13 feet in depth. Sample locations and final excavation extents are presented on Figure 4.

2.0 Soil Sampling

A total of 21 soil samples from 7 borings (SB-1 through SB-7) and 5 composite samples (SC-1 through SC-5) were collected during the assessments. All soil samples were field screened for volatile organic compounds (VOCs), and selected samples were also analyzed for total petroleum hydrocarbons (TPH). The five composite samples (SC-1 through SC-5) collected during the excavation clearance were submitted for confirmation laboratory analysis.

2.1 Field Sampling

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 U.S. Environmental Protection Agency (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

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

- TPH for gasoline range organics (GRO) and diesel range organics (DRO) per USEPA Method 8015D.

2.3 Field and Laboratory Analytical Results

On May 1, 2014, initial assessment field screening results for VOCs via OVM showed concentrations ranging from 0.1 ppm in SB-7 up to 3,471 ppm in SB-4. Field TPH concentrations ranged from less than 20.0 mg/kg in SB-4 to greater than 2,500 mg/kg in SB-1.

On June 17, 2014, final excavation field screening results for VOCs via OVM ranged from 1.5 ppm in SC-1 up to 14.0 ppm in SC-2. Field TPH concentrations ranged from 22.6 ppm in SC-5 up to 35.7 ppm in SC-1 and SC-2. Results are included below in Table 1 and on Figures 3 and 4. The AES Field Sampling Reports are attached.

Table 1. Field Sampling VOCs and TPH Results
San Juan 29-7 Unit #38A Initial Release Assessment and Final Excavation
May and June 2014

Sample ID	***Date Sampled***	***Sample Depth (ft bgs)***	***VOCs via OVM (ppm)***	***TPH 418.1 (mg/kg)***
*NMOCD Action Level**			*100*	*100*
SB-1	5/1/14	Surface	**2,770**	NA
		3	**2,484**	NA
		7	**2,764**	NA
		9	**3,046**	**>2,500**
		12	**1,632**	NA
		13	**2,862**	**535**
SB-2	5/1/14	2	33.1	NA
		4	3.3	27.5
		8	1.1	NA
SB-3	5/1/14	1	4.2	NA
		4	0.9	24.9
SB-4	5/1/14	0.5	**3,471**	**1,640**
		2	56.5	NA
		4	11.1	<20.0
SB-5	5/1/14	1	1.2	NA
		4	1.7	NA
SB-6	5/1/14	1	0.4	NA
		2	0.5	NA
		6	0.2	NA
SB-7	5/1/14	1	0.1	NA
		4	0.4	NA
SC-1	6/17/14	1 to 13	1.5	35.7
SC-2	6/17/14	1 to 13	14.0	35.7
SC-3	6/17/14	1 to 13	2.6	28.4
SC-4	6/17/14	1 to 13	5.3	24.1
SC-5	6/17/14	13	6.1	22.6

NA – not analyzed

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

Laboratory analyses for SC-1 through SC-5 were used to confirm field sampling results for the final excavation extents. TPH concentrations as GRO/DRO in SC-1 through SC-5 were reported below laboratory detection limits. Results are presented in Table 2 and on Figure 4. The laboratory analytical report is attached.

Table 2. Laboratory Analytical Results –TPH (GRO/DRO)
San Juan 29-7 Unit #38A Initial Release Assessment and Final Excavation, June 2014

Sample ID	Date Sampled	Sample Depth (ft bgs)	GRO (mg/kg)	DRO (mg/kg)
*NMOCD Action Level**			*100*	
SC-1	6/17/14	1 to 13	<4.7	<10
SC-2	6/17/14	1 to 13	<4.6	<9.9
SC-3	6/17/14	1 to 13	<4.7	<10
SC-4	6/17/14	1 to 13	<4.8	<9.9
SC-5	6/17/14	13	<4.7	<10

NA – not analyzed
*Action level determined by the NMOCD ranking score per *NMOCD Guidelines for Remediation of Leaks, Spills, and Releases* (August 1993)

3.0 Conclusions and Recommendations

On May 1, 2014, AES conducted an initial assessment of petroleum contaminated soils associated with a release of hydrocarbons at the San Juan 29-7 Unit #38A. Action levels for releases are determined by the NMOCD ranking score per *NMOCD Guidelines for Remediation of Leaks, Spills, and Releases* (August 1993), and the site was assigned a rank of 20.

Initial assessment field sampling results above the NMOCD action level of 100 ppm VOCs and 100 mg/kg TPH were reported in SB-1 and SB-4. The highest VOC concentration was reported in SB-4 with 3,471 ppm, and the highest TPH concentration was reported in SB-1 with greater than 2,500 mg/kg.

On June 17, 2014, final clearance of the excavation area was completed. Field sampling results of the excavation extents showed that VOC and field TPH concentrations were below the applicable NMOCD action levels of 100 mg/kg for the final walls and base of

the excavation. Laboratory analytical results, reported TPH concentrations as GRO/DRO below the applicable NMOCD action level in SC-1 through SC-5.

Based on final field sampling and laboratory analytical results of the excavation of petroleum contaminated soils at the San Juan 29-7 Unit #38A, VOCs 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 Emilee Skyles at (505) 564-2281.

Sincerely,

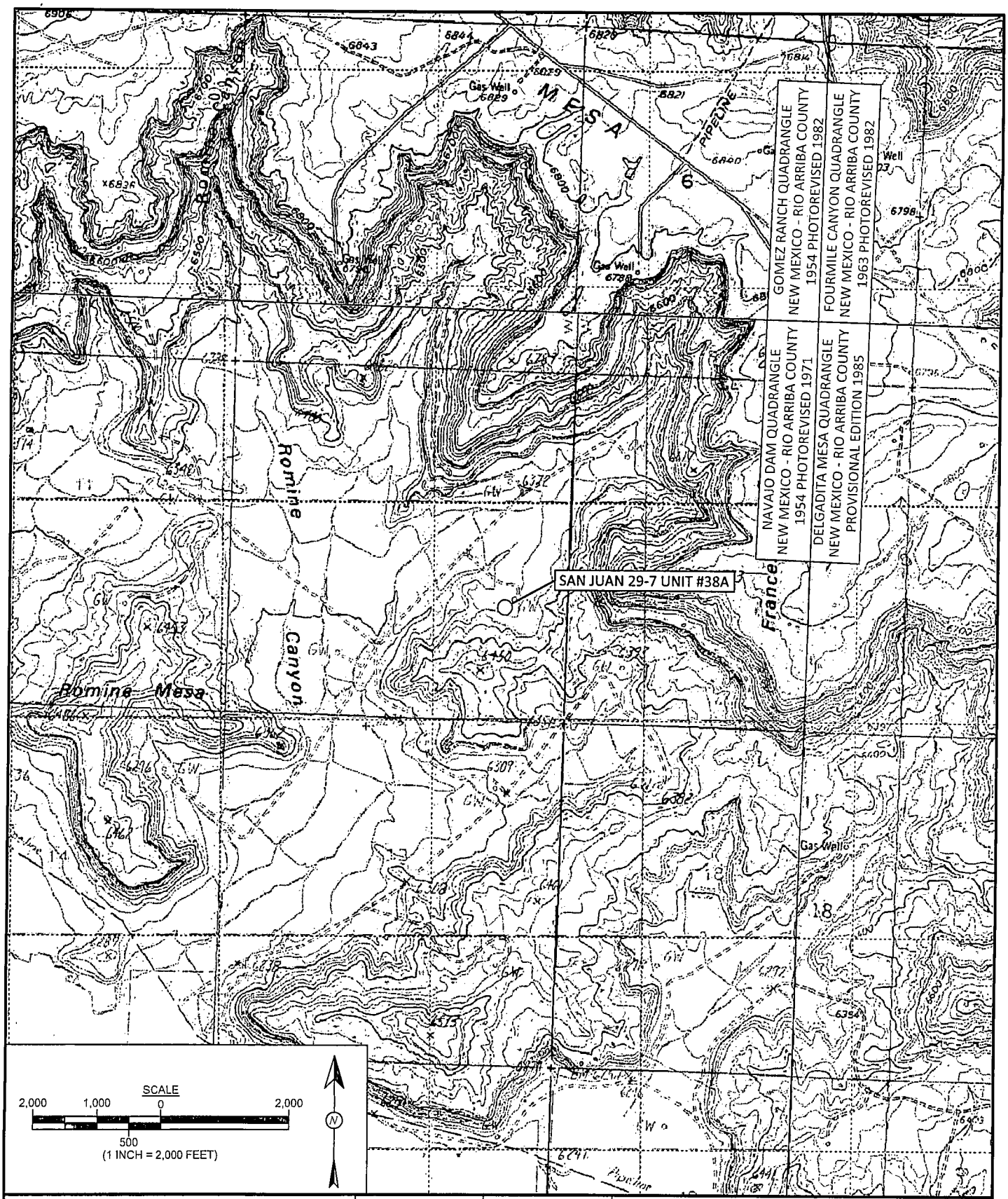
David J. Reese
Environmental Scientist

Elizabeth McNally, PE

Attachments:

Figure 1. Topographic Site Location Map
Figure 2. Aerial Site Map, May 2014
Figure 3. Initial Assessment Sample Locations and Results, May 2014
Figure 4. Final Excavation Sample Locations and Results, June 2014
AES Field Sampling Report 050114
AES Field Sampling Report 061714
Hall Laboratory Analytical Report 1406837

C:\Users\emcnally.AES\Dropbox (Animas Environmental)\0000 Animas Server Dropbox EM\2014 Projects\ConocoPhillips\SJ 29-7 Unit #38A\San Juan 29-7 Unit #38A Release and Final Excavation Report 081114.docx



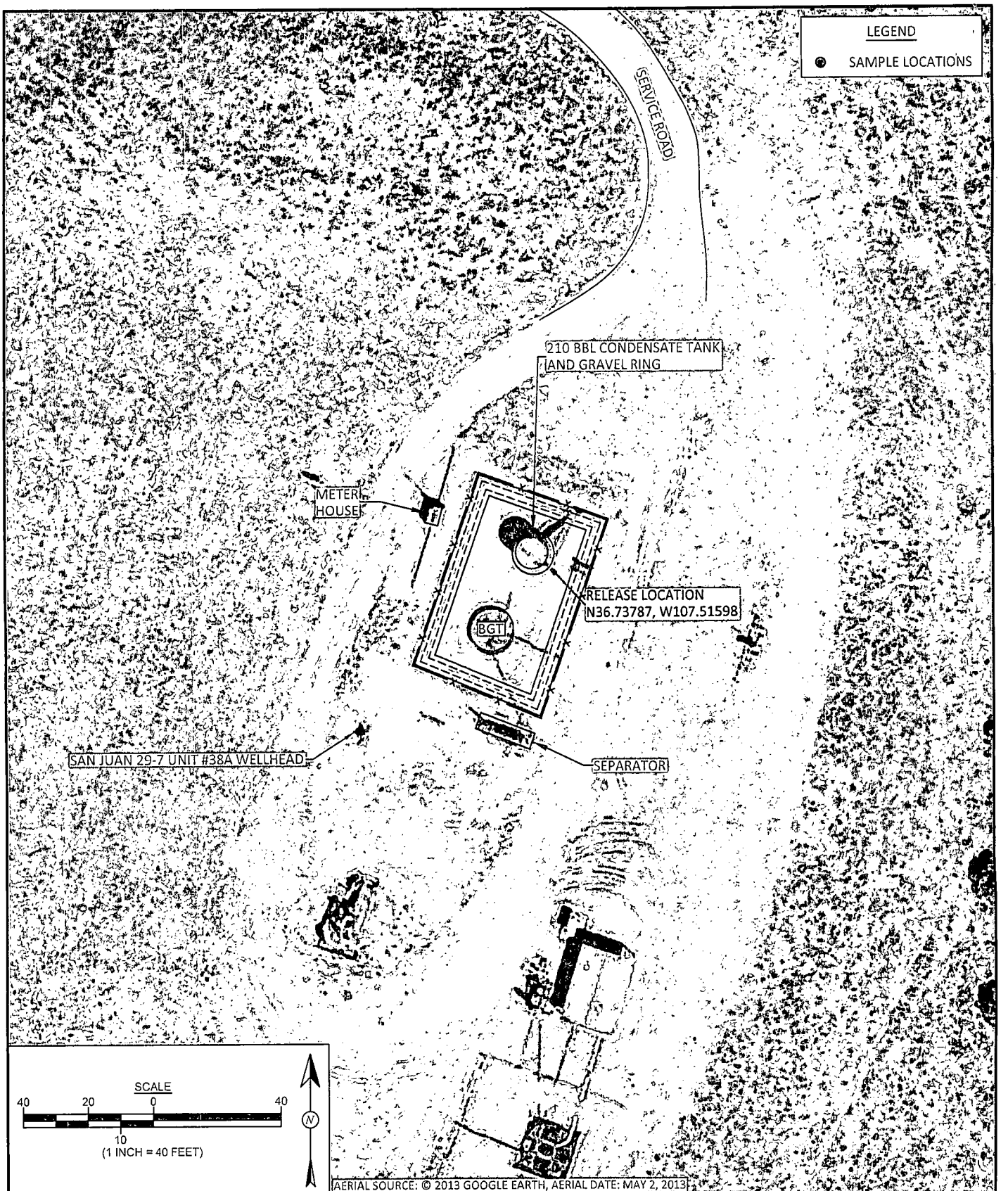
Animas Environmental Services, LLC

DRAWN BY: S. Glasses	**DATE DRAWN:** June 23, 2014
REVISIONS BY: C. Lameman	**DATE REVISED:** June 23, 2014
CHECKED BY: D. Watson	**DATE CHECKED:** June 23, 2014
APPROVED BY: E. McNally	**DATE APPROVED:** June 23, 2014

FIGURE 1

TOPOGRAHIC SITE LOCATION MAP

ConocoPhillips
SAN JUAN 29-7 UNIT #38A
NE¼ SE¼, SECTION 12, T29N, R7W
RIO ARRIBA COUNTY, NEW MEXICO
N36.73777, W107.51618



Animas Environmental Services, LLC

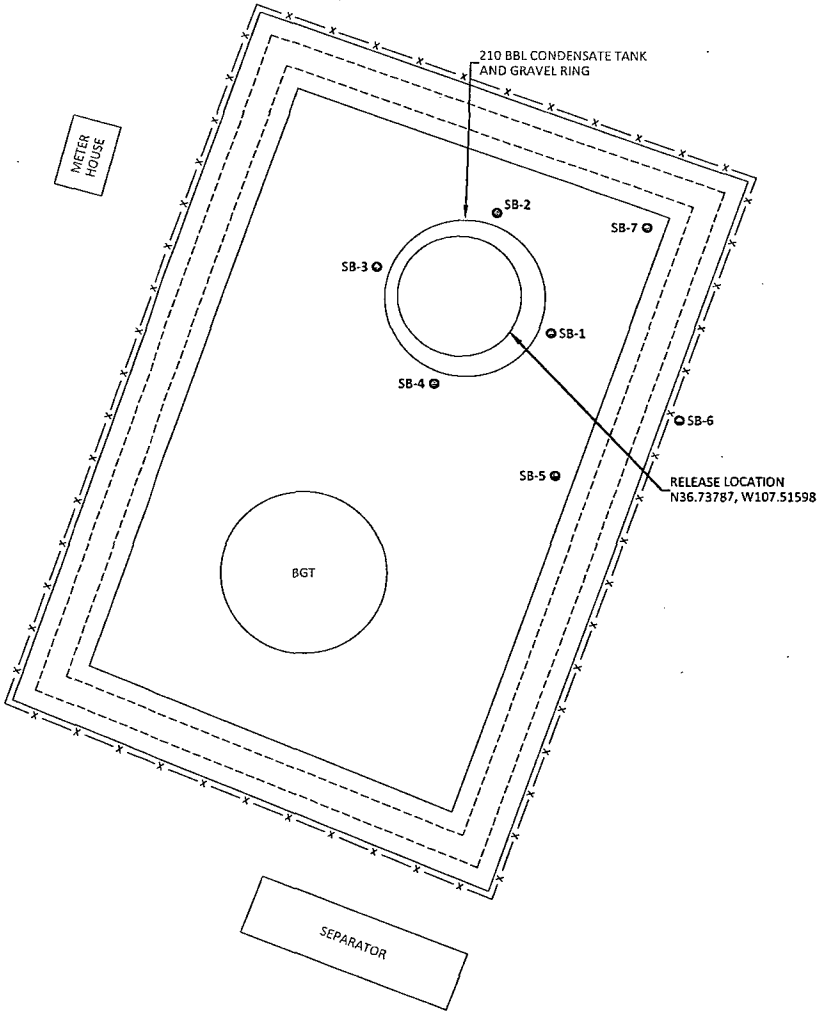
DRAWN BY: S. Glasses	**DATE DRAWN:** June 23, 2014
REVISIONS BY: C. Lameman	**DATE REVISED:** June 23, 2014
CHECKED BY: D. Watson	**DATE CHECKED:** June 23, 2014
APPROVED BY: E. McNally	**DATE APPROVED:** June 23, 2014

FIGURE 2

AERIAL SITE MAP
MAY 2014
ConocoPhillips
SAN JUAN 29-7 UNIT #38A
NE¼ SE¼, SECTION 12, T29N, R7W
RIO ARRIBA COUNTY, NEW MEXICO
N36.73777, W107.51618

Field Sampling Results				
Sample ID	Date	Depth (ft)	OVM-PID (ppm)	TPH (mg/kg)
NMOCD ACTION LEVEL			100	100
SB-1	5/1/14	Surface	2,770	NA
		3	2,484	NA
		7	2,764	NA
		9	3,046	>2,500
		12	1,632	NA
		13	2,862	535
SB-2	5/1/14	2	33.1	NA
		4	3.3	27.5
		8	1.1	NA
SB-3	5/1/14	1	4.2	NA
		4	0.9	24.9
SB-4	5/1/14	0.5	3,471	1,640
		2	56.5	NA
		4	11.1	<20.0
SB-5	5/1/14	1	1.2	NA
		4	1.7	NA
SB-6	5/1/14	1	0.4	NA
		2	0.5	NA
		6	0.2	NA
SB-7	5/1/14	1	0.1	NA
		4	0.4	NA

NA - NOT ANALYZED



SAN JUAN 29-7 UNIT #38A WELLHEAD

FIGURE 3

INITIAL ASSESSMENT SAMPLE LOCATIONS AND RESULTS MAY 2014

ConocoPhillips
SAN JUAN 29-7 UNIT #38A
NE¼ SE¼, SECTION 12, T29N, R7W
RIO ARRIBA COUNTY, NEW MEXICO
N36.73777, W107.51618

Animas Environmental Services, LLC

DRAWN BY:	DATE DRAWN:
C. Lameman	May 2, 2014
REVISIONS BY:	DATE REVISED:
C. Lameman	June 23, 2014
CHECKED BY:	DATE CHECKED:
D. Watson	June 23, 2014
APPROVED BY:	DATE APPROVED:
E. McNally	June 23, 2014

LEGEND

- SAMPLE LOCATIONS
- SECONDARY CONTAINMENT BERM
- —x— FENCE

SCALE

10 6 0 10

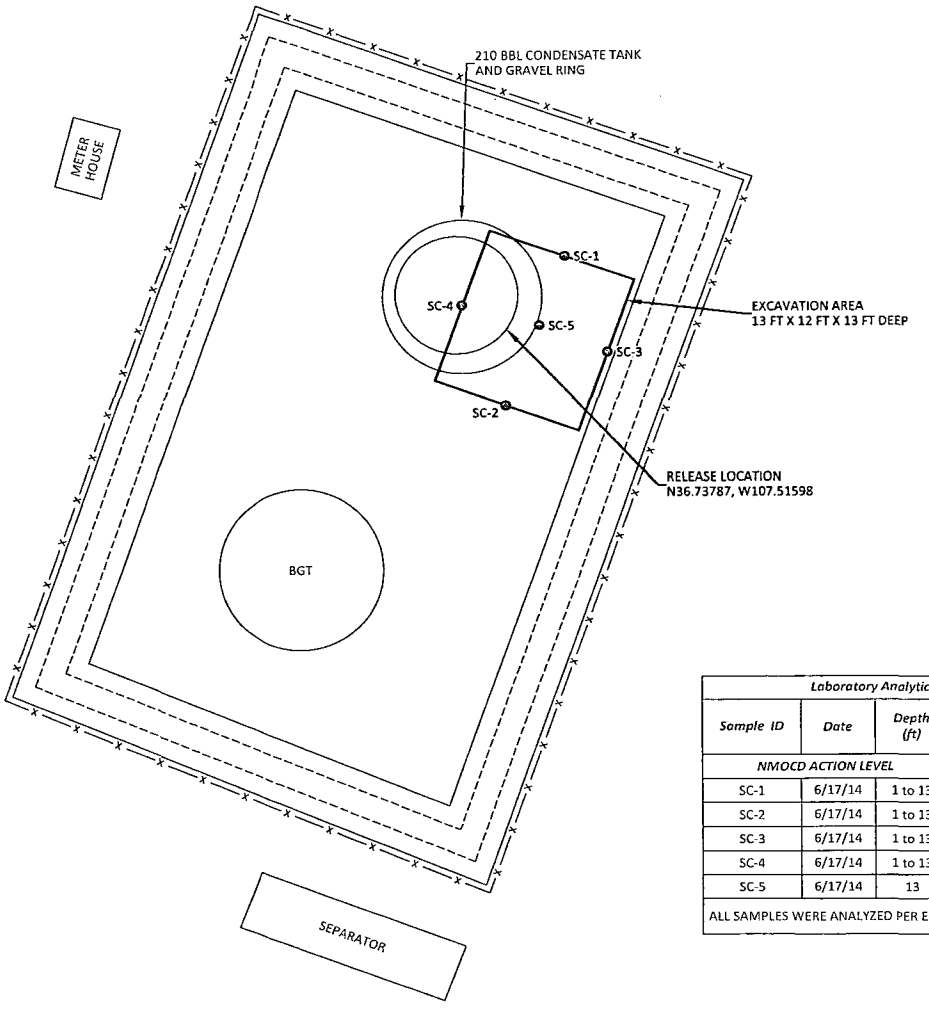
2

(1 INCH = 10 FEET)

FIGURE 4

FINAL EXCAVATION SAMPLE LOCATIONS AND RESULTS
JUNE 2014
ConocoPhillips
SAN JUAN 29-7 UNIT #38A
NE¼ SE¼, SECTION 12, T29N, R7W
RIO ARRIBA COUNTY, NEW MEXICO
N36.73777, W107.51618

Field Sampling Results				
Sample ID	*Date*	*Depth (ft)*	*OVM-PID (ppm)*	*TPH (mg/kg)*
NMOCD ACTION LEVEL			*100*	*100*
SC-1	6/17/14	1 to 13	1.5	35.7
SC-2	6/17/14	1 to 13	14.0	35.7
SC-3	6/17/14	1 to 13	2.6	28.4
SC-4	6/17/14	1 to 13	5.3	24.1
SC-5	6/17/14	13	6.1	22.6
ALL SAMPLES WERE COMPOSITE SAMPLES.				



Laboratory Analytical Results				
Sample ID	*Date*	*Depth (ft)*	*TPH - GRO (mg/kg)*	*TPH - DRO (mg/kg)*
NMOCD ACTION LEVEL			*100*	
SC-1	6/17/14	1 to 13	<4.7	<10
SC-2	6/17/14	1 to 13	<4.6	<9.9
SC-3	6/17/14	1 to 13	<4.7	<10
SC-4	6/17/14	1 to 13	<4.8	<9.9
SC-5	6/17/14	13	<4.7	<10
ALL SAMPLES WERE ANALYZED PER EPA METHOD 8015D.				

Animas Environmental Services, LLC

DRAWN BY: C. Lameman	DATE DRAWN: June 23, 2014
REVISIONS BY: C. Lameman	DATE REVISED: June 23, 2014
CHECKED BY: D. Watson	DATE CHECKED: June 23, 2014
APPROVED BY: E. McNally	DATE APPROVED: June 23, 2014

LEGEND
- SAMPLE LOCATIONS
- SECONDARY CONTAINMENT BERM
- —x— FENCE

SCALE
10 6 0 10
2
(1 INCH = 10 FEET)

AES Field Sampling Report

Animas Environmental Services, LLC
www.animasenvironmental.com
624 E. Comanche
Farmington, NM 87401
505-564-2281
Durango, Colorado
970-403-3084

Client: ConocoPhillips

Project Location: San Juan 29-7 Unit #38A

Date: 5/1/2014

Matrix: Soil

Sample ID	Collection Date	Collection Time	OVM (ppm)	TPH* (mg/kg)	TPH Analysis Time	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SB-1 @ Surface	5/1/2014	11:42	2,770	*Not Analyzed for TPH*				
SB-1 @ 3'	5/1/2014	11:48	2,484	*Not Analyzed for TPH*				
SB-1 @ 7'	5/1/2014	12:00	2,764	*Not Analyzed for TPH*				
SB-1 @ 9'	5/1/2014	12:10	3,046	>2,500	12:45	20.0	1	DAW
SB-1 @ 12'	5/1/2014	12:30	1,632	*Not Analyzed for TPH*				
SB-1 @ 13'	5/1/2014	12:45	2,862	535	13:20	20.0	1	DAW
SB-2 @ 2'	5/1/2014	13:00	33.1	*Not Analyzed for TPH*				
SB-2 @ 4'	5/1/2014	13:10	3.3	27.5	13:30	20.0	1	DAW
SB-2 @ 8'	5/1/2014	13:25	1.1	*Not Analyzed for TPH*				
SB-3 @ 1'	5/1/2014	13:39	4.2	*Not Analyzed for TPH*				
SB-3 @ 4'	5/1/2014	13:45	0.9	24.9	14:46	20.0	1	DAW
SB-4 @ 0.5'	5/1/2014	13:45	3,471	1,640	14:51	20.0	1	DAW
SB-4 @ 2'	5/1/2014	13:50	56.5	*Not Analyzed for TPH*				
SB-4 @ 4'	5/1/2014	13:55	11.1	17.3	14:49	20.0	1	DAW
SB-5 @ 1'	5/1/2014	14:05	1.2	*Not Analyzed for TPH*				
SB-5 @ 4'	5/1/2014	14:15	1.7	*Not Analyzed for TPH*				
SB-6 @ 1'	5/1/2014	14:20	0.4	*Not Analyzed for TPH*				
SB-6 @ 2'	5/1/2014	14:28	0.5	*Not Analyzed for TPH*				
SB-6 @ 6'	5/1/2014	14:35	0.2	*Not Analyzed for TPH*				
SB-7 @ 1'	5/1/2014	14:42	0.1	*Not Analyzed for TPH*				
SB-7 @ 4'	5/1/2014	14:50	0.4	*Not Analyzed for TPH*				

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

Field TPH concentrations recorded may be below PQL.

Total Petroleum Hydrocarbons - USEPA 418.1

Analyst: Deborah Watson

Report Finalized: 5/1/14

AES Field Sampling Report

Animas Environmental Services, LLC
www.animasenvironmental.com
624 E. Comanche
Farmington, NM 87401
505-564-2281
Durango, Colorado
970-403-3084

Client: ConocoPhillips

Project Location: San Juan 29-7 Unit #38A

Date: 6/17/2014

Matrix: Soil

Sample ID	Collection Date	Time of Sample Collection	Sample Location	OVM (ppm)	TPH Analysis Time	TPH* (mg/kg)	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SC-1	6/17/2014	9:35	North Wall	1.5	10:18	35.7	20.0	1	DAW
SC-2	6/17/2014	9:37	South Wall	14.0	10:21	35.7	20.0	1	DAW
SC-3	6/17/2014	9:40	East Wall	2.6	10:23	28.4	20.0	1	DAW
SC-4	6/17/2014	9:42	West Wall	5.3	10:25	24.1	20.0	1	DAW
SC-5	6/17/2014	9:45	Base	6.1	10:28	22.6	20.0	1	DAW

DF Dilution Factor
NA Not Analyzed
ND Not Detected at the Reporting Limit
PQL Practical Quantitation Limit
**TPH concentrations recorded may be below PQL.*

Total Petroleum Hydrocarbons - USEPA 418.1

Analyst: Deborah Watson

Report Finalized: 6/17/2014

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

July 25, 2014

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

RE: CoP San Juan 29-7 Unit 38A OrderNo.: 1406837

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 5 sample(s) on 6/18/2014 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued June 23, 2014.

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.

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1406837**
Date Reported: **7/25/2014**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental
Client Sample ID: SC-1
Project: CoP San Juan 29-7 Unit 38A
Collection Date: 6/17/2014 9:35:00 AM
Lab ID: 1406837-001 **Matrix:** SOIL **Received Date:** 6/18/2014 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS						Analyst: **BCN**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/20/2014 5:13:52 PM	13782
Surr: DNOP	136	57.9-140		%REC	1	6/20/2014 5:13:52 PM	13782
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/19/2014 5:18:15 PM	13763
Surr: BFB	89.4	80-120		%REC	1	6/19/2014 5:18:15 PM	13763

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental
Project: CoP San Juan 29-7 Unit 38A
Lab ID: 1406837-002 **Matrix:** SOIL

Client Sample ID: SC-2
Collection Date: 6/17/2014 9:37:00 AM
Received Date: 6/18/2014 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS						Analyst: **BCN**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/20/2014 6:44:19 PM	13782
Surr: DNOP	139	57.9-140		%REC	1	6/20/2014 6:44:19 PM	13782
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	6/19/2014 5:48:30 PM	13763
Surr: BFB	94.7	80-120		%REC	1	6/19/2014 5:48:30 PM	13763

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental
Client Sample ID: SC-3
Project: CoP San Juan 29-7 Unit 38A
Collection Date: 6/17/2014 9:40:00 AM
Lab ID: 1406837-003
Matrix: SOIL
Received Date: 6/18/2014 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS						Analyst: **BCN**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/20/2014 7:14:26 PM	13782
Surr: DNOP	93.1	57.9-140		%REC	1	6/20/2014 7:14:26 PM	13782
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/19/2014 6:18:41 PM	13763
Surr: BFB	92.6	80-120		%REC	1	6/19/2014 6:18:41 PM	13763

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental
Project: CoP San Juan 29-7 Unit 38A
Lab ID: 1406837-004 **Matrix:** SOIL

Client Sample ID: SC-4
Collection Date: 6/17/2014 9:42:00 AM
Received Date: 6/18/2014 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS						Analyst: **BCN**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/20/2014 8:14:31 PM	13782
Surr: DNOP	88.6	57.9-140		%REC	1	6/20/2014 8:14:31 PM	13782
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/19/2014 6:48:53 PM	13763
Surr: BFB	94.3	80-120		%REC	1	6/19/2014 6:48:53 PM	13763

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental
Client Sample ID: SC-5
Project: CoP San Juan 29-7 Unit 38A
Collection Date: 6/17/2014 9:45:00 AM
Lab ID: 1406837-005 **Matrix:** SOIL **Received Date:** 6/18/2014 7:40:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS						Analyst: **BCN**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/20/2014 8:44:15 PM	13782
Surr: DNOP	94.7	57.9-140		%REC	1	6/20/2014 8:44:15 PM	13782
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/19/2014 7:19:10 PM	13763
Surr: BFB	96.3	80-120		%REC	1	6/19/2014 7:19:10 PM	13763

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1406837**

25-Jul-14

Client: Animas Environmental

Project: CoP San Juan 29-7 Unit 38A

Sample ID **MB-13782**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **13782**	RunNo: **19372**
Prep Date: **6/19/2014**	Analysis Date: **6/19/2014**	SeqNo: **560583** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	8.0		10.00		80.0	57.9	140			

Sample ID **LCS-13782**	SampType: **LCS**	TestCode: **EPA Method 8015D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **13782**	RunNo: **19372**
Prep Date: **6/19/2014**	Analysis Date: **6/19/2014**	SeqNo: **560584** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	97.1	60.8	145			
Surr: DNOP	4.0		5.000		80.7	57.9	140			

Sample ID **1406837-001AMS**	SampType: **MS**	TestCode: **EPA Method 8015D: Diesel Range Organics**
Client ID: **SC-1**	Batch ID: **13782**	RunNo: **19402**
Prep Date: **6/19/2014**	Analysis Date: **6/20/2014**	SeqNo: **561971** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	53	9.8	49.07	0	108	40.1	152			
Surr: DNOP	4.4		4.907		88.9	57.9	140			

Sample ID **1406837-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015D: Diesel Range Organics**
Client ID: **SC-1**	Batch ID: **13782**	RunNo: **19402**
Prep Date: **6/19/2014**	Analysis Date: **6/20/2014**	SeqNo: **561972** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	55	9.9	49.46	0	111	40.1	152	3.04	32.1	
Surr: DNOP	4.7		4.946		95.6	57.9	140	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1406837**

25-Jul-14

Client: Animas Environmental

Project: CoP San Juan 29-7 Unit 38A

Sample ID **MB-13763**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **13763**	RunNo: **19378**
Prep Date: **6/18/2014**	Analysis Date: **6/19/2014**	SeqNo: **561044** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	940		1000		94.0	80	120			

Sample ID **LCS-13763**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **13763**	RunNo: **19378**
Prep Date: **6/18/2014**	Analysis Date: **6/19/2014**	SeqNo: **561045** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	102	71.7	134			
Surr: BFB	980		1000		98.0	80	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: Animas Environmental Work Order Number: 1406837 RcptNo: 1

Received by/date: LN 06/18/14

Logged By: Michelle Garcia 6/18/2014 7:40:00 AM Michelle Garcia

Completed By: Michelle Garcia 6/18/2014 10:15:25 AM Michelle Garcia

Reviewed By: 06/18/14

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?	Courier		

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
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 ☑	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
14. Is it clear what analyses were requested?	Yes ☑	No ☐	
15. 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)

16. 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: _____

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.1	Good	Yes			

Chain-of-Custody Record

Client: Animas Environmental Services LLC

Mailing Address: 624 E Comanche Farmington NM 87401

Phone #: 505 564 2281

email or Fax#:

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:
☒ Standard ☐ Rush _____

Project Name: CoP San Juan 29-7 Unit 38A

Project #:

Project Manager: D Watson

Sampler: D Watson

On Ice: ☒ Yes ☐ No

Sample Temperature: 2.1

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No 1406837	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / ~~MRO~~)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions ($F, Cl, NO_3, NO_2, PO_4, SO_4$)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)					Air Bubbles (Y or N)
6-17-14	0935	Soil	SC-1	1-4oz	cold	-001			X													
"	0937	"	SC-2	"	"	-002			X													
"	0940	"	SC-3	"	"	-003			X													
"	0942	"	SC-4	"	"	-004			X													
"	0945	"	SC-5	"	"	-005			X													

Date:	Time:	Relinquished by:	Received by:	Date	Time
6/17/14	1644	Debra Watson	Christine Walls	6/17/14	1644
6/17/14	1725	Christine Walls			

Received by: 06/18/14 0740

Remarks: Bill to ConocoPhillips
WO: 2017 8913 User: RGARCIA
act-code: D150 ordered by: Eric Smith
supervisor: Mike Smith

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.