OIL CONS. DIV DIST. 3

NOV 23 2015

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 ConocoPhillips Co.	Contact **Lisa Hunter**
Address 3401 East 30th St, Farmington, NM	Telephone No.(505) 258-1607
Facility Name: Newsome 16E	Facility Type: Gas Well

Surface Owner: Federal	Mineral Owner: Federal (SF 078433)	API No. 30-045-30682

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
D	**17**	**26N**	**8W**	**1100**	**North**	**1185**	**West**	**San Juan**

Latitude 36.49183 Longitude -107.71023

NATURE OF RELEASE

Type of Release Historic Contamination	Volume of Release Unknown	Volume Recovered 54.5yds
Source of Release Below Grade Tank	Date and Hour of Occurrence **Unknown**	Date and Hour of Discovery **June 24, 2015**
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom? **N/A**	
By Whom? N/A	Date and Hour	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. **N/A**	

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

Describe Cause of Problem and Remedial Action Taken.*
Historic contamination discovered during BGT inspection.

Describe Area Affected and Cleanup Action Taken.*
Historical hydrocarbon impacted soil was found during the BGT inspection for the subject well. The excavation was app. 21' x 14' x 4 -6' in depth and 54.5yds of soil was transported to IEI land farm and 54.5yds of clean soil from an approved source was 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
Printed Name: **Lisa Hunter**	Approved by Environmental Specialist:
Title: **Field Environmental Specialist**	Approval Date: 12/24/2015 Expiration Date:
E-mail Address: **Lisa.Hunter@conocophillips.com**	Conditions of Approval: Attached ☐
Date: 11/18/2015 Phone: (505) 258-1607	

* Attach Additional Sheets If Necessary

NUF1538270 90

25

September 8, 2015

Lindsay Dumas
ConocoPhillips
San Juan Business Unit
(505) 599-4089

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

RE: Release Assessment and Final Excavation Report
Newsom #16E
San Juan County, New Mexico

Dear Ms. Dumas:

On June 24 and August 20, 2015, Animas Environmental Services, LLC (AES) completed an initial release assessment and environmental clearance of the final excavation limits at the ConocoPhillips (COPC) Newsom #16E, located in San Juan County, New Mexico. The release occurred due to overflow of the below grade tank (BGT) at the location. The initial release assessment was completed by AES on June 23, 2015, and the final excavation was completed by COPC contractors while AES was at the location on August 20, 2015.

1.0 Site Information

1.1 Location

Site Name – Newsom #16E
Location – NW¼ NW¼, Section 17, T26N, R8W, San Juan County, New Mexico
Well Head Latitude/Longitude – N36.49184 and W107.71045, respectively
Release Location Latitude/Longitude – N36.49183 and W107.71023, respectively
Land Jurisdiction – Bureau of Land Management (BLM)
Figure 1. Topographic Site Location Map
Figure 2. Aerial Site Map, June 2015

604 W. Piñon St.
Farmington, NM 87401
505-564-2281

1911 Main, Ste 280
Durango, CO 81301
970-403-3084

www.animasenvironmental.com

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 10 based on the following factors:

- **Depth to Groundwater:** A cathodic protection report form dated January 1995 for the Newsom B #7E, located approximately 3,000 feet north of the location, reported the depth to groundwater as 125 feet below ground surface (bgs). In addition, based on elevation difference, topographic interpretation and visual reconnaissance, depth to groundwater is interpreted to be greater than 100 feet bgs. (0 points)
- **Wellhead Protection Area:** The release location is not within a wellhead protection area. (0 points)
- **Distance to Surface Water Body:** An unnamed wash which ultimately discharges to Blanco Wash is located approximately 400 feet northwest of the location. (10 points)

1.3 Assessment

AES was initially contacted by Lindsay Dumas of COPC on June 16, 2015, and on June 23, 2015, Emilee Skyles and Dylan Davis of AES completed the release assessment field work. The assessment included collection and field sampling of 13 soil samples from six borings in and around the release area. Soil borings were terminated between 1 and 3 feet below grade. Based on field sampling results, AES recommended excavation of the release area. Sample locations are shown on Figure 3.

On August 20, 2015, AES returned to the location to collect confirmation soil samples of the excavation. The field sampling activities included collection of five confirmation soil samples (SC-1 through SC-5) from the walls and base of the excavation. The area of the final excavation measured approximately 14 feet by 21 feet by 4 to 6 feet in depth. Sample locations and final excavation extents are presented on Figure 4.

2.0 Soil Sampling

A total of 13 soil samples from six borings (SB-1 through SB-6) and five composite samples (SC-1 through SC-5) were collected during the assessments. All soil samples, except SB-6 at 3 feet and SB-3 at 3 feet, were field screened for volatile organic compounds (VOCs), and selected samples were also analyzed for total petroleum hydrocarbons (TPH). The five composite samples 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:

- Benzene, toluene, ethylbenzene, and xylene (BTEX) per USEPA Method 8021B; and
- TPH for gasoline range organics (GRO) and diesel range organics (DRO) per USEPA Method 8015D.

2.3 Field and Laboratory Analytical Results

On June 23, 2015, initial assessment field screening results for VOCs via OVM showed concentrations ranging from 1.3 ppm in SB-5 up to 90.9 ppm in SB-3. Field TPH concentrations ranged from 24.3 mg/kg in SB-6 up to greater than 2,500 mg/kg in SB-1 through SB-3.

On August 20, 2015, final excavation field screening results for VOCs via OVM ranged from 0.0 ppm in SC-5 up to 58.7 ppm in SC-3. Field TPH concentrations ranged from 24.4 mg/kg in SC-2 up to 1,032 mg/kg in SC-3. Results are included below in Table 1 and on Figures 3 and 4. The AES Field Sampling Reports are attached.

Table 1. Soil Field VOCs and TPH Results
Newsom #16E Initial Release Assessment and Final Excavation
June and August 2015

Sample ID	Date Sampled	Sample Depth (ft bgs)	VOCs via OVM (ppm)	TPH 418.1 (mg/kg)
*NMOCD Action Level**			*100*	*1,000*
SB-1	6/23/15	0.5	52.8	**>2,500**
		1	27.6	**>2,500**
		3	17.0	296
SB-2	6/23/15	0.5	59.5	**>2,500**
		1	46.5	**>2,500**
		3	23.4	694
SB-3	6/23/15	0.5	90.9	NA
		1	46.3	**>2,500**
		3	NA	105
SB-4	6/23/15	0.5	13.0	NA
		1	4.3	81.2
SB-5	6/23/15	3	1.3	56.2
SB-6	6/23/15	3	NA	24.3
SC-1	8/20/15	0 to 6	23.0	243
SC-2	8/20/15	0 to 4	0.9	24.4
SC-3	8/20/15	0 to 6	58.7	**1,032**
SC-4	8/20/15	0 to 6	13.2	101
SC-5	8/20/15	4 to 6	0.0	25.8

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 from the final excavation. Benzene and total BTEX concentrations were reported below laboratory detection limits in all samples. TPH concentrations as GRO/DRO in ranged from below laboratory detection limits in SC-2 and SC-5 up to 330 mg/kg in SC-3. Results are presented in Table 2 and on Figure 4. The laboratory analytical report is attached.

Table 2. Laboratory Analytical Results – Benzene, Total BTEX, and TPH
Newsom #16E Initial Release Assessment and Final Excavation
June and August 2015

Sample ID	Date Sampled	Sample Depth (ft bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)
*NMOCD Action Level**			*10*	*50*	*1,000*	
SC-1	8/20/15	0 to 6	<0.049	<0.244	<4.9	51
SC-2	8/20/15	0 to 4	<0.049	<0.244	<4.9	<10
SC-3	8/20/15	0 to 6	<0.049	<0.245	<4.9	330
SC-4	8/20/15	0 to 6	<0.048	<0.240	<4.8	48
SC-5	8/20/15	4 to 6	<0.048	<0.241	<4.8	<9.9

*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 June 23, 2015, AES conducted an initial assessment of petroleum contaminated soils associated with a release of produced water and condensate at the Newsom #16E. 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 10.

Initial assessment field sampling results for VOC concentrations were below the NMOCD action level of 100 ppm, with the highest VOC concentration reported in SB-3 with 90.9 ppm. However, concentrations above the NMOCD action level of 1,000 mg/kg TPH were reported in SB-1 through SB-3. The highest TPH concentration was reported in SB-1 through SB-3 with greater than 2,500 mg/kg.

On August 20, 2015, final excavation of the impacted area was completed. Field sampling results of the excavation extents showed that VOC concentrations were below applicable NMOCD action levels for the final walls and base of the excavation. Field TPH concentrations were below the applicable NMOCD action level of 1,000 mg/kg for the final walls and base of the excavation, with the exception of SC-3 (east wall) which had a TPH concentration of 1,032 mg/kg. However, laboratory analytical results for all confirmation samples reported benzene, total BTEX, and TPH (as GRO/DRO) concentrations below applicable NMOCD action levels.

Based on final field sampling and laboratory analytical results of the excavation of petroleum contaminated soils at the Newsom #16E, VOC, benzene, total BTEX, 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,

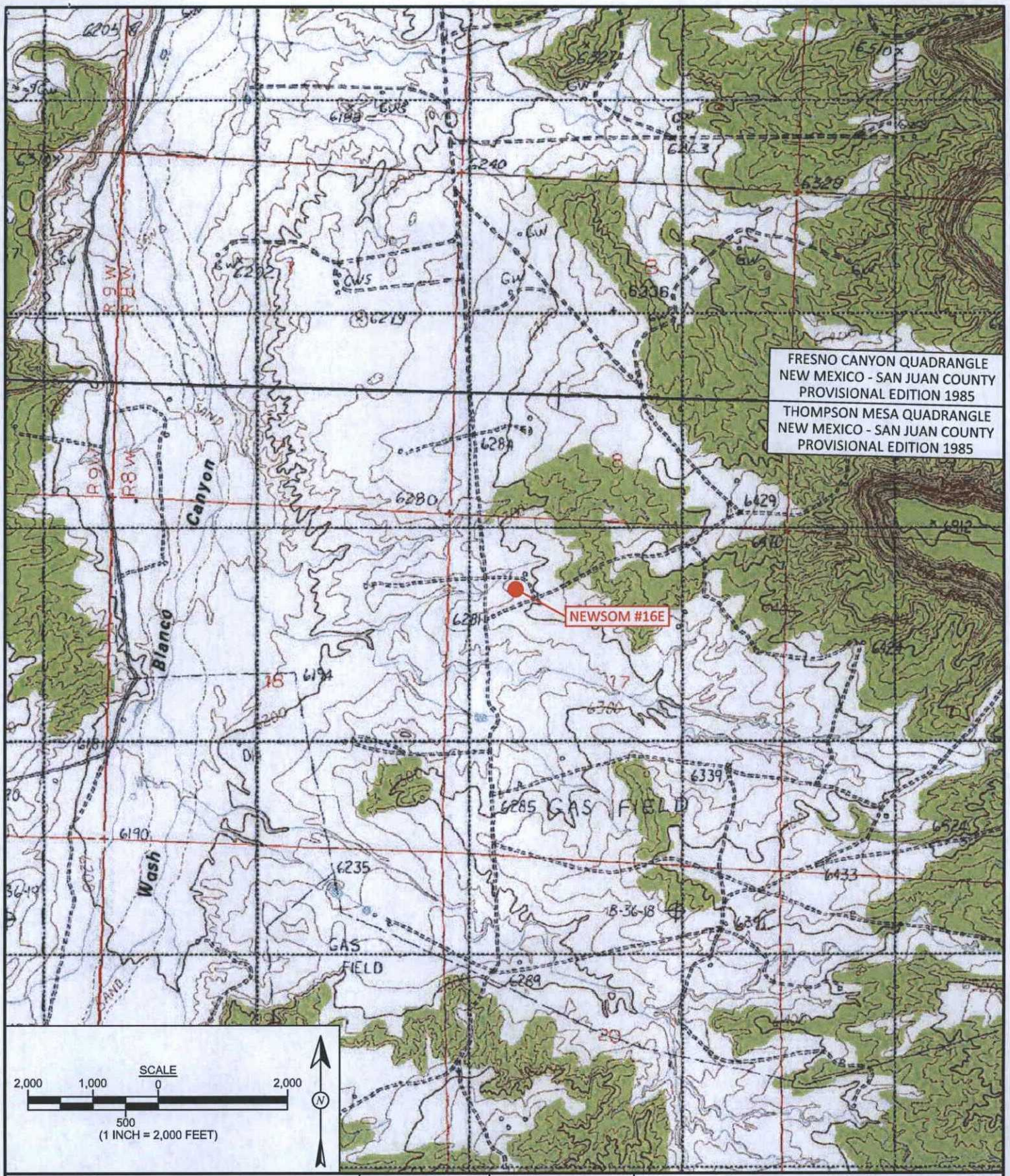
David J. Reese
Environmental Scientist

Elizabeth McNally, PE

Attachments:

Figure 1. Topographic Site Location Map
Figure 2. Aerial Site Map, August 2015
Figure 3. Initial Assessment Sample Locations and Results, June 2015
Figure 4. Final Excavation Sample Locations and Results, August 2015
AES Field Sampling Report 062315
AES Field Sampling Report 082015
Hall Laboratory Analytical Report 1508A81

R:\Animas 2000\Dropbox\0000 Animas Server Dropbox EM\2015 Projects\ConocoPhillips\Newsom 16E\Newsom 16E\Newsom #16E Release and Final Excavation Report 091015 EM.docx



animas environmental services
Farmington, NM • Durango, CO
animasenvironmental.com

DRAWN BY: C. Lameman	**DATE DRAWN:** July 7, 2015
REVISIONS BY: C. Lameman	**DATE REVISED:** August 24, 2015
CHECKED BY: E. Skyles	**DATE CHECKED:** August 24, 2015
APPROVED BY: E. McNally	**DATE APPROVED:** August 24, 2015

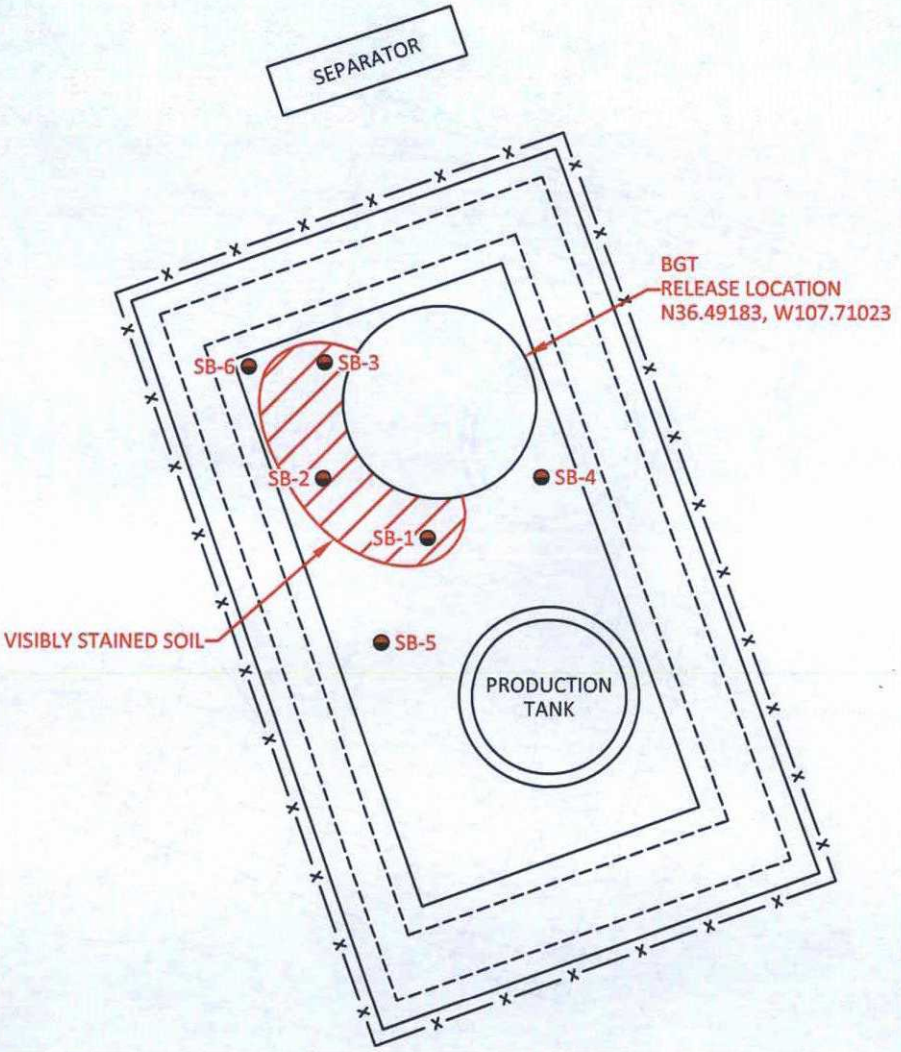
FIGURE 1

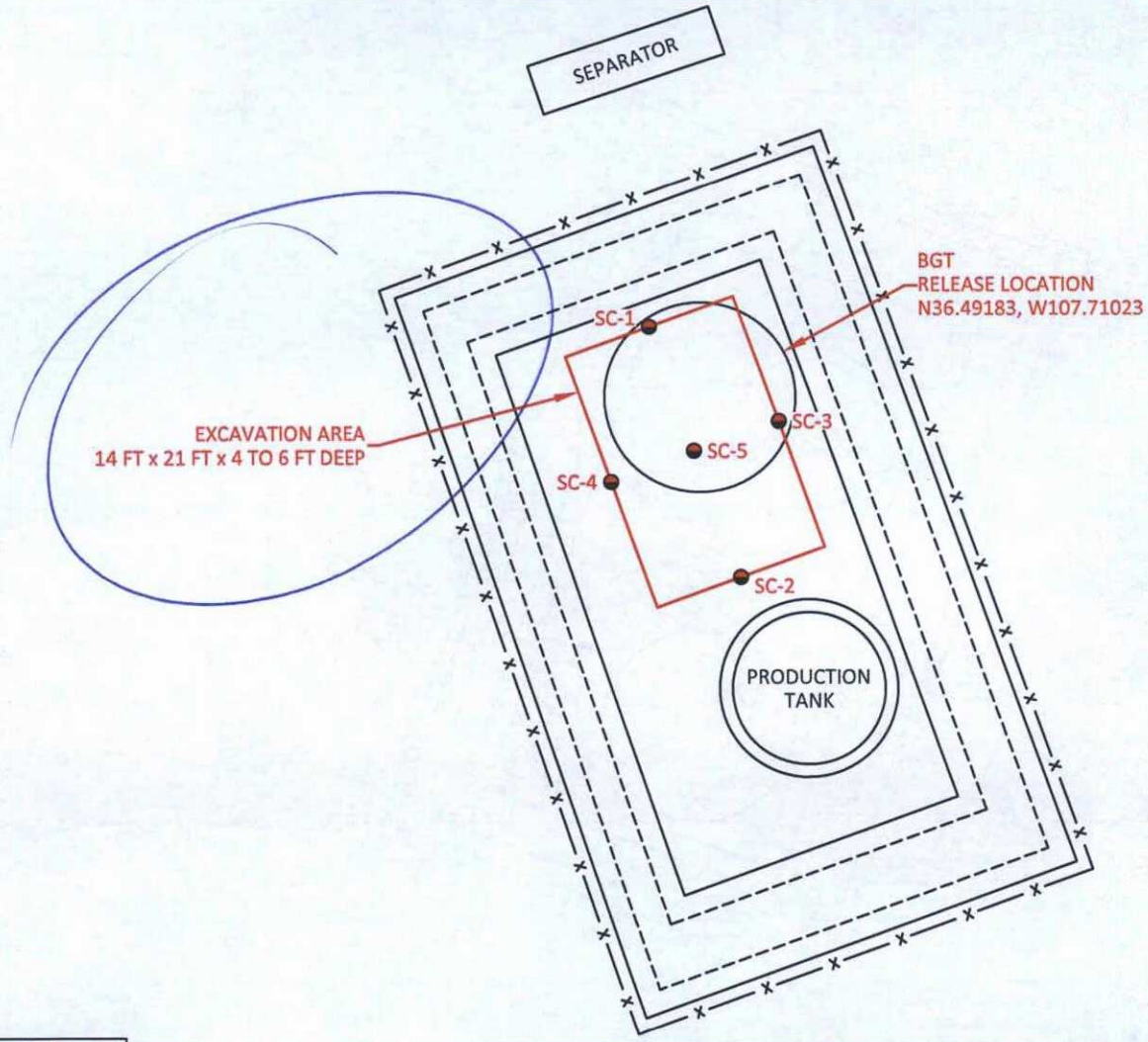
TOPOGRAPHIC SITE LOCATION MAP
ConocoPhillips
NEWSOM #16E
NW¼ NW¼, SECTION 17, T26N, R8W
SAN JUAN COUNTY, NEW MEXICO
N36.49184, W107.71045

animas environmental services
Farmington, NM • Durango, CO
animasenvironmental.com

DRAWN BY: C. Lameman	**DATE DRAWN:** July 7, 2015	**FIGURE 2**
REVISIONS BY: D. Dougi	**DATE REVISED:** September 10, 2015	**AERIAL SITE MAP AUGUST 2015** ConocoPhillips NEWSOM #16E NW¼ NW¼, SECTION 17, T26N, R8W SAN JUAN COUNTY, NEW MEXICO N36.49184, W107.71045
CHECKED BY: E. Skyles	**DATE CHECKED:** September 10, 2015	
APPROVED BY: E. McNally	**DATE APPROVED:** September 10, 2015	

Field Sampling Results			
Date	Depth (ft)	OVM-PID (ppm)	TPH (mg/kg)
NMOCD ACTION LEVEL		100	1,000
6/23/15	0.5	52.8	**>2,500**
	1	27.6	**>2,500**
	3	17.0	296
6/23/15	0.5	59.5	**>2,500**
	1	46.5	**>2,500**
	3	23.4	694
6/23/15	0.5	90.9	*NA*
	1	46.3	**>2,500**
	3	*NA*	105
6/23/15	0.5	13.0	*NA*
	1	4.3	81.2
6/23/15	3	1.3	56.2
6/23/15	3	*NA*	24.3
ALYZED			





Field Sampling Results			
Date	Depth (ft)	OVM-PID (ppm)	TPH (mg/kg)
NMOCD ACTION LEVEL		100	1,000
8/20/15	0 to 6	23.0	243
8/20/15	0 to 6	0.9	24.4
8/20/15	0 to 6	58.7	**1,032**
8/20/15	0 to 6	13.2	101
8/20/15	4 to 6	0.0	25.8

Laboratory Analytical Results					
ate	Depth (ft)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH - GRO (mg/kg)	TPH - DRO (mg/kg)
ON LEVEL		10	50	1,000	
0/15	0 to 6	<0.049	<0.244	<4.9	51
0/15	0 to 6	<0.049	<0.244	<4.9	<10
0/15	0 to 6	<0.049	<0.245	<4.9	330
0/15	0 to 6	<0.048	<0.24	<4.8	48
0/15	4 to 6	<0.048	<0.241	<4.8	<9.9

E ANALYZED PER USEPA METHOD 8021B AND 8015D.

AES Field Sampling Report

Animas Environmental Services, LLC

Client: ConocoPhillips

Project Location: Newsom #16E

Date: 6/23/2015

Matrix: Soil

Sample ID	Collection Date	Collection Time	OVM (ppm)	Field TPH* (mg/kg)	Field TPH Analysis Time	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SB-1 @ 0.5'	6/23/2015	11:44	52.8	>2,500	12:24	20.0	1	EMS
SB-1 @ 1'	6/23/2015	11:46	27.6	>2,500	12:27	20.0	1	EMS
SB-1 @ 3'	6/23/2015	12:25	17.0	296	13:04	20.0	1	EMS
SB-2 @ 0.5'	6/23/2015	11:55	59.5	>2,500	12:30	20.0	1	EMS
SB-2 @ 1'	6/23/2015	11:58	46.5	>2,500	13:08	20.0	1	EMS
SB-2 @ 3'	6/23/2015	12:55	23.4	694	13:30	20.0	1	EMS
SB-3 @ 0.5'	6/23/2015	12:03	90.9	*Not Analyzed for TPH*				
SB-3 @ 1'	6/23/2015	12:07	46.3	>2,500	13:12	20.0	1	EMS
SB-3 @ 3'	6/23/2015	12:20	NA	105	13:15	20.0	1	EMS
SB-4 @ 0.5'	6/23/2015	12:10	13.0	*Not Analyzed for TPH*				
SB-4 @ 1'	6/23/2015	12:12	4.3	81.2	13:20	20.0	1	EMS
SB-5 @ 3'	6/23/2015	12:30	1.3	56.2	13:33	20.0	1	EMS
SB-6 @ 3'	6/23/2015	12:34	NA	24.3	13:37	20.0	1	EMS

Report Finalized: 6/23/15

Sample ID	Collection Date	Collection Time	OVM (ppm)	Field TPH* (mg/kg)	Field TPH Analysis Time	TPH PQL (mg/kg)	DF	TPH Analysts Initials

DF Dilution Factor

NA Not Analyzed

PQL Practical Quantitation Limit

Field TPH concentrations recorded may be below PQL.

Total Petroleum Hydrocarbons - USEPA 418.1

Analyst: Erik Sky

Report Finalized: 6/23/15

AES Field Sampling Report

Animas Environmental Services, LLC

Client: ConocoPhillips

Project Location: Newsom #16E

Date: 8/20/2015

Matrix: Soil

Sample ID	Collection Date	Collection Time	Sample Location	OVM (ppm)	Field TPH* (mg/kg)	Field TPH Analysis Time	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SC-1	8/20/2015	12:05	North Wall	23.0	243	12:56	20.0	1	EMS
SC-2	8/20/2015	13:25	South Wall	0.9	24.4	13:45	20.0	1	EMS
SC-3	8/20/2015	12:19	East Wall	58.7	1,032	13:01	20.0	1	EMS
SC-4	8/20/2015	12:08	West Wall	13.2	101	13:03	20.0	1	EMS
SC-5	8/20/2015	14:04	Base	0.0	25.8	14:17	20.0	1	EMS

DF Dilution Factor
NA Not Analyzed
PQL Practical Quantitation Limit
**TPH concentrations recorded may be below PQL.*

Total Petroleum Hydrocarbons - USEPA 418.1

Analyst: Erik Sy L

Report Finalized: 8/20/15

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

August 27, 2015

Emilee Skyles
Animas Environmental
604 Pinon Street
Farmington, NM 87401
TEL: (505) 564-2281
FAX

RE: CoP C Newson 16E OrderNo.: 1508A81

Dear Emilee Skyles:

Hall Environmental Analysis Laboratory received 5 sample(s) on 8/21/2015 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. 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,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1508A81**
Date Reported: **8/27/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental
Project: CoP C Newson 16E
Lab ID: 1508A81-001 **Matrix:** SOIL

Client Sample ID: SC-1
Collection Date: 8/20/2015 12:05:00 PM
Received Date: 8/21/2015 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	51	10		mg/Kg	1	8/25/2015 6:29:20 PM	20948
Surr: DNOP	103	57.9-140		%REC	1	8/25/2015 6:29:20 PM	20948
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/25/2015 1:54:34 PM	20933
Surr: BFB	84.1	75.4-113		%REC	1	8/25/2015 1:54:34 PM	20933
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.049		mg/Kg	1	8/25/2015 1:54:34 PM	20933
Toluene	ND	0.049		mg/Kg	1	8/25/2015 1:54:34 PM	20933
Ethylbenzene	ND	0.049		mg/Kg	1	8/25/2015 1:54:34 PM	20933
Xylenes, Total	ND	0.097		mg/Kg	1	8/25/2015 1:54:34 PM	20933
Surr: 4-Bromofluorobenzene	99.5	80-120		%REC	1	8/25/2015 1:54:34 PM	20933

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
D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental
Project: CoP C Newson 16E
Lab ID: 1508A81-002 **Matrix:** SOIL

Client Sample ID: SC-2
Collection Date: 8/20/2015 1:25:00 PM
Received Date: 8/21/2015 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	8/25/2015 6:56:28 PM	20948
Surr: DNOP	102	57.9-140		%REC	1	8/25/2015 6:56:28 PM	20948
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/25/2015 3:09:20 PM	20933
Surr: BFB	84.2	75.4-113		%REC	1	8/25/2015 3:09:20 PM	20933
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.049		mg/Kg	1	8/25/2015 3:09:20 PM	20933
Toluene	ND	0.049		mg/Kg	1	8/25/2015 3:09:20 PM	20933
Ethylbenzene	ND	0.049		mg/Kg	1	8/25/2015 3:09:20 PM	20933
Xylenes, Total	ND	0.097		mg/Kg	1	8/25/2015 3:09:20 PM	20933
Surr: 4-Bromofluorobenzene	99.6	80-120		%REC	1	8/25/2015 3:09:20 PM	20933

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
D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental
Client Sample ID: SC-3
Project: CoP C Newson 16E
Collection Date: 8/20/2015 12:19:00 PM
Lab ID: 1508A81-003 **Matrix:** SOIL **Received Date:** 8/21/2015 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	330	9.5		mg/Kg	1	8/25/2015 7:23:30 PM	20948
Surr: DNOP	114	57.9-140		%REC	1	8/25/2015 7:23:30 PM	20948
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/25/2015 3:34:14 PM	20933
Surr: BFB	89.6	75.4-113		%REC	1	8/25/2015 3:34:14 PM	20933
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.049		mg/Kg	1	8/25/2015 3:34:14 PM	20933
Toluene	ND	0.049		mg/Kg	1	8/25/2015 3:34:14 PM	20933
Ethylbenzene	ND	0.049		mg/Kg	1	8/25/2015 3:34:14 PM	20933
Xylenes, Total	ND	0.098		mg/Kg	1	8/25/2015 3:34:14 PM	20933
Surr: 4-Bromofluorobenzene	103	80-120		%REC	1	8/25/2015 3:34:14 PM	20933

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
D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental
Client Sample ID: SC-4
Project: CoP C Newson 16E
Collection Date: 8/20/2015 12:08:00 PM
Lab ID: 1508A81-004
Matrix: SOIL
Received Date: 8/21/2015 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	48	9.8		mg/Kg	1	8/25/2015 7:50:29 PM	20948
Surr: DNOP	102	57.9-140		%REC	1	8/25/2015 7:50:29 PM	20948
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/25/2015 3:59:08 PM	20933
Surr: BFB	86.2	75.4-113		%REC	1	8/25/2015 3:59:08 PM	20933
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.048		mg/Kg	1	8/25/2015 3:59:08 PM	20933
Toluene	ND	0.048		mg/Kg	1	8/25/2015 3:59:08 PM	20933
Ethylbenzene	ND	0.048		mg/Kg	1	8/25/2015 3:59:08 PM	20933
Xylenes, Total	ND	0.096		mg/Kg	1	8/25/2015 3:59:08 PM	20933
Surr: 4-Bromofluorobenzene	101	80-120		%REC	1	8/25/2015 3:59:08 PM	20933

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
D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental
Client Sample ID: SC-5
Project: CoP C Newson 16E
Collection Date: 8/20/2015 2:04:00 PM
Lab ID: 1508A81-005
Matrix: SOIL
Received Date: 8/21/2015 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	8/25/2015 8:45:00 PM	20948
Surr: DNOP	94.3	57.9-140		%REC	1	8/25/2015 8:45:00 PM	20948
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/25/2015 8:57:01 PM	20933
Surr: BFB	79.1	75.4-113		%REC	1	8/25/2015 8:57:01 PM	20933
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.048		mg/Kg	1	8/25/2015 8:57:01 PM	20933
Toluene	ND	0.048		mg/Kg	1	8/25/2015 8:57:01 PM	20933
Ethylbenzene	ND	0.048		mg/Kg	1	8/25/2015 8:57:01 PM	20933
Xylenes, Total	ND	0.097		mg/Kg	1	8/25/2015 8:57:01 PM	20933
Surr: 4-Bromofluorobenzene	92.3	80-120		%REC	1	8/25/2015 8:57:01 PM	20933

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
D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1508A81**

27-Aug-15

Client: Animas Environmental

Project: CoP C Newson 16E

Sample ID	MB-20948	SampType:	MBLK			TestCode:	EPA Method 8015M/D: Diesel Range Organics			
Client ID:	PBS	Batch ID:	20948			RunNo:	28434			
Prep Date:	8/24/2015	Analysis Date:	8/25/2015			SeqNo:	859160	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	8.6		10.00		85.6	57.9	140			

Sample ID	LCS-20948	SampType:	LCS			TestCode:	EPA Method 8015M/D: Diesel Range Organics			
Client ID:	LCSS	Batch ID:	20948			RunNo:	28434			
Prep Date:	8/24/2015	Analysis Date:	8/25/2015			SeqNo:	859161	Units:	mg/Kg	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	93.8	57.4	139			
Surr: DNOP	4.3		5.000		85.4	57.9	140			

Sample ID	MB-20980	SampType:	MBLK			TestCode:	EPA Method 8015M/D: Diesel Range Organics			
Client ID:	PBS	Batch ID:	20980			RunNo:	28473			
Prep Date:	8/26/2015	Analysis Date:	8/26/2015			SeqNo:	860664	Units:	%REC	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.0		10.00		80.3	57.9	140			

Sample ID	LCS-20980	SampType:	LCS			TestCode:	EPA Method 8015M/D: Diesel Range Organics			
Client ID:	LCSS	Batch ID:	20980			RunNo:	28473			
Prep Date:	8/26/2015	Analysis Date:	8/26/2015			SeqNo:	860665	Units:	%REC	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	3.7		5.000		74.5	57.9	140			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- B Analyte detected in the associated Method Blank
- D Sample Diluted Due to Matrix
- 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
- P Sample pH Not In Range
- R RPD outside accepted recovery limits
- RL Reporting Detection Limit
- S % Recovery outside of range due to dilution or matrix

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1508A81**

27-Aug-15

Client: Animas Environmental

Project: CoP C Newson 16E

Sample ID **MB-20933**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **20933**	RunNo: **28433**
Prep Date: **8/24/2015**	Analysis Date: **8/25/2015**	SeqNo: **859725** 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	840		1000		83.6	75.4	113			

Sample ID **LCS-20933**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **20933**	RunNo: **28433**
Prep Date: **8/24/2015**	Analysis Date: **8/25/2015**	SeqNo: **859726** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	99.5	79.6	122			
Surr: BFB	880		1000		88.2	75.4	113			

Sample ID **1508A81-001AMS**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **SC-1**	Batch ID: **20933**	RunNo: **28433**
Prep Date: **8/24/2015**	Analysis Date: **8/25/2015**	SeqNo: **859733** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	4.8	24.15	0	118	62.5	151			
Surr: BFB	930		966.2		95.9	75.4	113			

Sample ID **1508A81-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **SC-1**	Batch ID: **20933**	RunNo: **28433**
Prep Date: **8/24/2015**	Analysis Date: **8/25/2015**	SeqNo: **859734** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	30	4.9	24.27	0	125	62.5	151	5.95	22.1	
Surr: BFB	940		970.9		96.5	75.4	113	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1508A81**

27-Aug-15

Client: Animas Environmental

Project: CoP C Newson 16E

Sample ID	MB-20933	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	20933	RunNo:	28433					
Prep Date:	8/24/2015	Analysis Date:	8/25/2015	SeqNo:	859761	Units:	mg/Kg			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.99		1.000		99.3	80	120			

Sample ID	LCS-20933	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	20933	RunNo:	28433					
Prep Date:	8/24/2015	Analysis Date:	8/25/2015	SeqNo:	859762	Units:	mg/Kg			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.050	1.000	0	97.0	76.6	128			
Toluene	0.99	0.050	1.000	0	99.0	75	124			
Ethylbenzene	1.0	0.050	1.000	0	103	79.5	126			
Xylenes, Total	3.0	0.10	3.000	0	101	78.8	124			
Surr: 4-Bromofluorobenzene	1.1		1.000		109	80	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- B Analyte detected in the associated Method Blank
- D Sample Diluted Due to Matrix
- 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
- P Sample pH Not In Range
- R RPD outside accepted recovery limits
- RL Reporting Detection Limit
- S % Recovery outside of range due to dilution or matrix

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: 1508A81 RcptNo: 1

Received by/date: JA 08/21/15

Logged By: Ashley Gallegos 8/21/2015 8:00:00 AM AG

Completed By: Ashley Gallegos 8/21/2015 2:08:27 PM AG

Reviewed By: JA 08/21/15

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 ☐	# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)
13. Are matrices correctly identified 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? (If no, notify customer for authorization.)	Yes ☑	No ☐	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	1.0	Good	Yes			

Chain-of-Custody Record

Client: Animas Environmental Services

Mailing Address: 604 W. Piñon St.
Farmington, NM 87401

Phone #: 505-564-2281

email or Fax#: esikyles@animasenvironmental.com

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

Accreditation
☐ NELAP ☐ Other

☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush

Project Name: CoP C Newson 16E

Project #:

Project Manager: E. Sykes

Sampler: E. Sykes
On Ice: ☒ Yes ☐ No
Sample Temperature: 1.0

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1508A81	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,NO3,NO2,PO4,SO4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)					Air Bubbles (Y or N)
8/20/15	12:05	Soil	SC-1	1-4oz.	cool	-001	X		X													
8/20/15	13:25	Soil	SC-2	1-4oz.	cool	-002	X		X													
8/20/15	12:19	Soil	SC-3	1-4oz.	cool	-003	X		X													
8/20/15	12:08	Soil	SC-4	1-4oz.	cool	-004	X		X													
8/20/15	14:04	Soil	SC-5	1-4oz.	cool	-005	X		X													

Date:	Time:	Relinquished by:	Received by:	Date	Time
8/20/15	1801		Christine Walker	8/20/15	1801
Date:	Time:	Relinquished by:	Received by:	Date	Time
8/20/15	1840	Christine Walters		08/21/15	0800

Remarks: Bill to Conoco Phillips
WO#
Super: Jim Peace
USER: BENALE
Ordered by: Lindsay Dunn
Area: 21

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.