

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

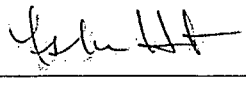
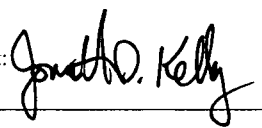
Name of Company ConocoPhillips Company	Contact Lisa Hunter	
Address 3401 East 30th St, Farmington, NM	Telephone No. (505) 326-9786	
Facility Name: State Com H 4	Facility Type: Gas Well	
Surface Owner State	Mineral Owner State	API No. 3004510159

LOCATION OF RELEASE

Unit Letter G	Section 32	Township 31N	Range 09W	Feet from the 1650'	North/South Line North	Feet from the 1850'	East/West Line East	County San Juan
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Latitude **36.856998** Longitude **-107.801**

NATURE OF RELEASE

Type of Release Historic Contamination	Volume of Release Unknown	Volume Recovered 840 c/yds
Source of Release Production Tank	Date and Hour of Occurrence Unknown	Date and Hour of Discovery 05-12-14
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom? n/a	
By Whom? n/a	Date and Hour n/a	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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.* Historical hydrocarbon impacted soil was found during a facility reset.		
Describe Area Affected and Cleanup Action Taken.* Historical hydrocarbon impacted soil was found during a facility reset. The excavation was 40' x 60' x 14' in depth and 840 c/yds of soil was transported to IEI land farm and 840 c/yds of clean soil was transported from CF&M and placed in the excavation site. The soil sampling report is attached for review. Backfilled excavation per verbal authorization of Jonathan Kelly, NMOCD, May 21, 2014.		
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: 11/6/2014 Expiration Date:
E-mail Address: Lisa.Hunter@cop.com		Conditions of Approval:
Date: August 18, 2014 Phone: (505) 326-9786		Attached <input type="checkbox"/>

* Attach Additional Sheets If Necessary

NJK 1431028360



Animas Environmental Services, LLC

www.animasenvironmental.com

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

Durango, Colorado
970-403-3084

July 25, 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
State Com H #4
San Juan County, New Mexico**

Dear Ms. Hunter:

On May 12 and 20, 2014, Animas Environmental Services, LLC (AES) completed an initial release assessment and environmental clearance of the final excavation limits at the ConocoPhillips (CoP) State Com H #4, located in San Juan County, New Mexico. The release was discovered during facility reset activities at the location. The initial release assessment was completed by AES on May 12, 2014, and the final excavation was completed by CoP contractors prior to AES' arrival at the location on May 20, 2014.

1.0 Site Information

1.1 Location

Site Name – State Com H #4

Legal Description – SW¼ NE¼, Section 32, T31N, R9W, San Juan County, New Mexico

Well Latitude/Longitude – N36.85754 and W107.80136, respectively

Release Latitude/Longitude – N36.85720 and W107.80134, respectively

Land Jurisdiction – State of New Mexico

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 10 based on the following factors:

- **Depth to Groundwater:** No depth to groundwater information specific to the location could be found. Based on elevation, topographic interpretation and visual reconnaissance, depth to groundwater is interpreted to be greater than 100 feet below ground surface (bgs). (0 points)
- **Wellhead Protection Area:** The tank location is not within a wellhead protection area. (0 points)
- **Distance to Surface Water Body:** There is a small unnamed wash which discharges to the wash in Little Pump Canyon located approximately 210 feet northwest of the location. (10 points)

1.3 Assessment

AES was initially contacted by Danny Rudder, CoP representative, on May 9, 2014, and on May 12, 2014, Emilee Skyles and Sam Glasses of AES completed the release assessment field work. The assessment included collection and field sampling of 22 soil samples from 10 assessment trenches in and around the release area. Test holes were terminated between 3 and 13 feet below grade. Based on the field sampling results, AES recommended excavation of the release area. Sample locations are shown on Figure 3.

On May 20, 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 59 feet by 49 feet by 14 feet in depth. The depth of the excavation was limited due to a confining sandstone unit around 14 feet bgs. Sample locations and final excavation extents are presented on Figure 4.

2.0 Soil Sampling

A total of 22 soil samples from 10 assessment trenches (TH-1 through TH-10) 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). Five composite samples (SC-1 and 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.

In addition, soil sample SC-5 was laboratory analyzed for:

- Benzene, toluene, ethylbenzene, and xylene (BTEX) per USEPA Method 8021B.

2.3 Field and Laboratory Analytical Results

On May 12, 2014, initial assessment field screening results for VOCs via OVM showed concentrations ranging from 0.1 ppm in TH-4 and TH-5 up to 4,192 ppm in TH-1. Field TPH concentrations ranged from 25.0 mg/kg in TH-2 up to 7,010 mg/kg in TH-1.

On May 20, 2014, final excavation field screening results for VOCs via OVM ranged from 8.8 ppm in SC-3 up to 4,888 ppm in SC-5. Field TPH concentrations ranged from 74.2 mg/kg in SC-3 up to 3,210 mg/kg in SC-5. 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
State Com H #4 Initial Release Assessment and Final Excavation, May 2014

<i>Sample ID</i>	<i>Date Sampled</i>	<i>Sample Depth (ft bgs)</i>	<i>VOCs via OVM (ppm)</i>	<i>TPH 418.1 (mg/kg)</i>
<i>NMOCD Action Level*</i>			100	1,000
TH-1	5/12/14	0.5	4,192	7,010
		3.5	4,187	NA
		4.5	3,611	NA
		7	3,321	>2,300
		9	2,985	>2,300
		12	3,168	NA
		13	3,590	>2,300
TH-2	5/12/14	1.5	0.3	NA
		7	0.5	25.0
TH-3	5/12/14	2	38.0	363
		6.25	1,587	1,730
TH-4	5/12/14	1.5	0.3	NA
		6.25	0.1	45.0
TH-5	5/12/14	1.5	0.1	NA
		6.5	0.2	37.9
TH-6	5/12/14	2	3.5	250
		5.5	3,532	>2,300
TH-7	5/12/14	3	2,960	NA
TH-8	5/12/14	4.75	2.4	120
TH-9	5/12/14	2	0.4	NA
		6.75	0.3	142
TH-10	5/12/14	6	2.1	32.1
SC-1	5/20/14	1 to 14	26.9	293
SC-2	5/20/14	1 to 14	19.2	88.1
SC-3	5/20/14	1 to 14	8.8	74.2
SC-4	5/20/14	1 to 14	36.3	1,320
SC-5	5/20/14	14	4,888	3,210

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 in SC-5 were reported below laboratory detection limits of 0.11 mg/kg and 44.3 mg/kg, respectively. TPH concentrations as GRO/DRO ranged from below the laboratory detection limit of 14.7 mg/kg in SC-3 up to 1,440 mg/kg in SC-5. Results are presented in Table 2 and on Figure 4. The laboratory analytical reports are attached.

Table 2. Laboratory Analytical Results – Benzene, Total BTEX, and TPH
 State Com H #4 Initial Release Assessment and Final Excavation
 May 2014

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	5/20/14	1 to 14	NA	NA	<4.9	36
SC-2	5/20/14	1 to 14	NA	NA	<4.9	<10
SC-3	5/20/14	1 to 14	NA	NA	<4.8	<9.9
SC-4	5/20/14	1 to 14	NA	NA	4.3	79
SC-5	5/20/14	14	<0.11	44.3	590	850

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 12, 2014, AES conducted an initial assessment of petroleum contaminated soils associated with a historic release at the State Com H #4. 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 above the NMOCD action level of 100 ppm VOCs and 1,000 mg/kg TPH were reported in TH-1, TH-3, TH-6, and TH-7. The highest VOC concentration was reported in TH-1 with 4,192 ppm, and the highest TPH concentration was also reported in TH-1 with 7,010 mg/kg.

On May 20, 2014, 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. The base (SC-5) had a VOC concentration of 4,888 ppm. Field TPH concentrations were below the applicable NMOCD action level of 1,000 mg/kg for the three of the final walls. Two samples reported concentrations above the NMOCD action level, the west wall (1,320 mg/kg) and the base (3,210 mg/kg). Laboratory analytical results reported benzene and total BTEX concentrations below NMOCD action levels in SC-5. TPH concentrations as GRO/DRO were reported below the NMOCD action levels in SC-1 through SC-4 but above NMOCD action level of 1,000 mg/kg in SC-5, with 1,440 mg/kg.

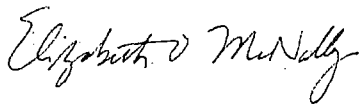
Based on the final field sampling and laboratory analytical results of the excavation of petroleum contaminated soils at the State Com H #4, benzene, total BTEX, and TPH concentrations were below the applicable NMOCD action levels for all of the final sidewalls of the excavation. However, the base of the excavation exceeded applicable NMOCD action levels for total TPH (as GRO/DRO). On May 20, 2014, CoP received approval to backfill the excavation from Jonathan Kelly of the NMOCD. 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,



Emilee Skyles
Staff Geologist



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, May 2014
- AES Field Sampling Report 051214

AES Field Sampling Report 052014
Hall Laboratory Analytical Report 1405886
Hall Laboratory Analytical Report 1405A39

SVRMAIN2\Shared\Animas 2000\Dropbox (Animas Environmental)\0000 Animas Server Dropbox
EM\2014 Projects\ConocoPhillips\State Com H #4\Release Assessment\CoP State Com H #4 Release and
Final Excavation Report 072514.docx



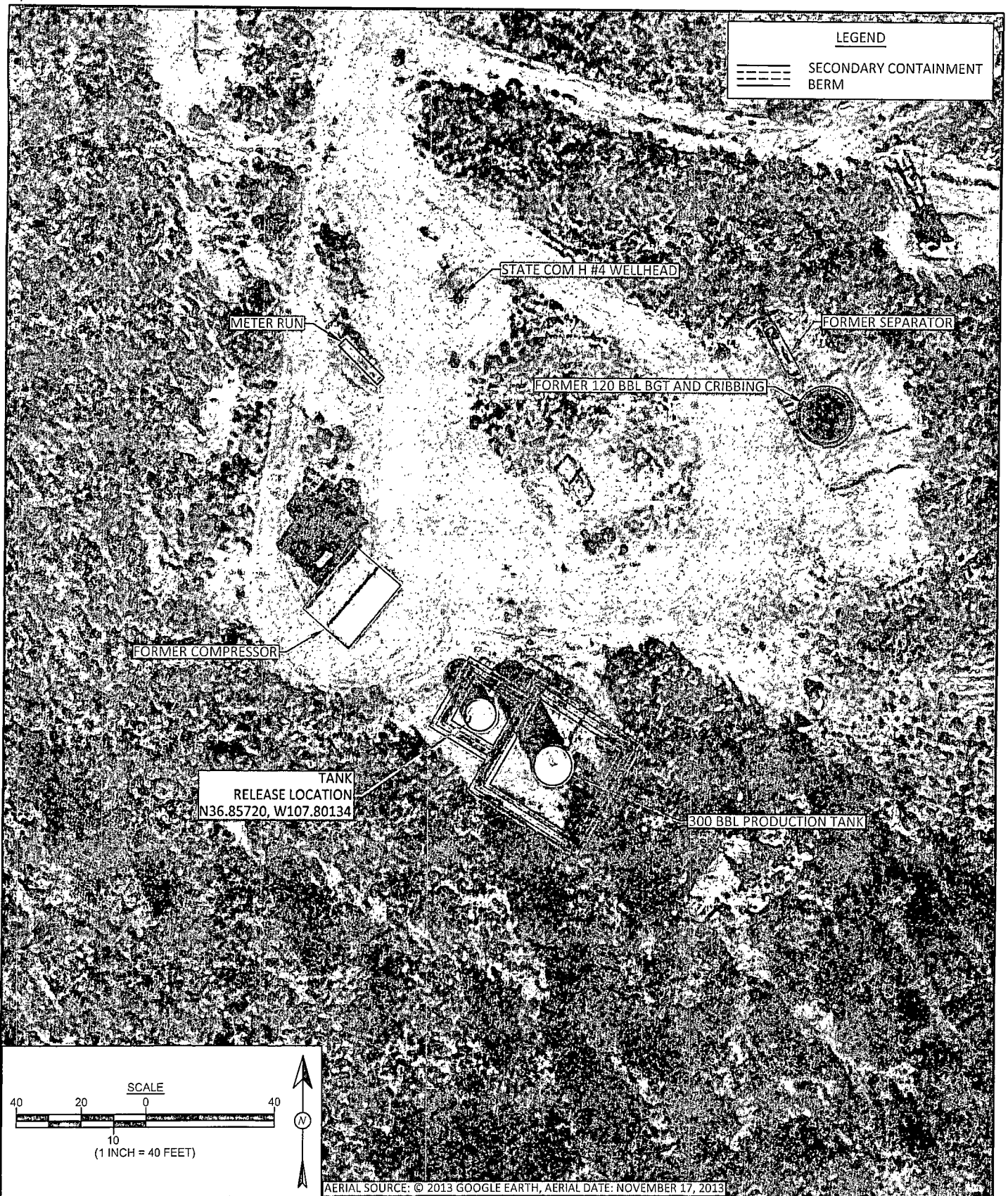
Animas Environmental Services, LLC

DRAWN BY: S. Glasses	DATE DRAWN: May 13, 2014
REVISIONS BY: C. Lameman	DATE REVISED: May 13, 2014
CHECKED BY: D. Watson	DATE CHECKED: May 13, 2014
APPROVED BY: E. McNally	DATE APPROVED: May 13, 2014

FIGURE 1

TOPOGRAPHIC SITE LOCATION MAP

ConocoPhillips
STATE COM H #4
SW¼ NE¼, SECTION 32, T31N, R9W
SAN JUAN COUNTY, NEW MEXICO
N36.85754, W107.80136



DRAWN BY: S. Glasses	DATE DRAWN: May 13, 2014
REVISIONS BY: C. Lameman	DATE REVISED: May 30, 2014
CHECKED BY: D. Watson	DATE CHECKED: May 30, 2014
APPROVED BY: E. McNally	DATE APPROVED: May 30, 2014

FIGURE 2
AERIAL SITE MAP MAY 2014 ConocoPhillips STATE COM H #4 SW¼ NE¼, SECTION 32, T31N, R9W SAN JUAN COUNTY, NEW MEXICO N36.85754, W107.80136

FIGURE 3

**INITIAL ASSESSMENT SAMPLE
LOCATIONS AND RESULTS
MAY 2014**
ConocoPhillips
STATE COM H #4
SW¼ NE¼, SECTION 32, T31N, R9W
SAN JUAN COUNTY, NEW MEXICO
N36.85754, W107.80136

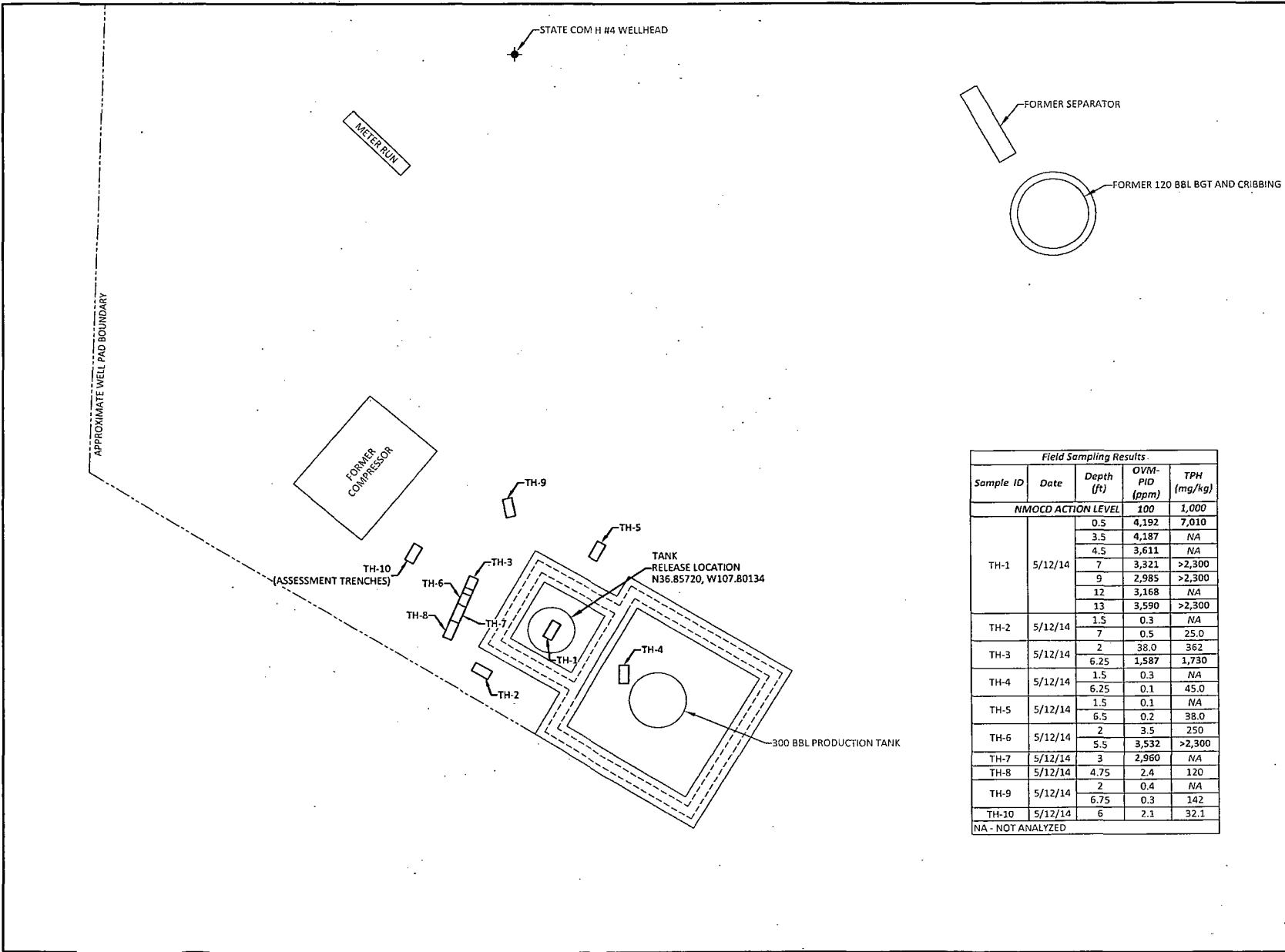
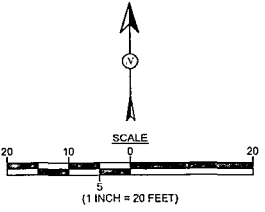


Animas Environmental Services, LLC

DRAWN BY: C. Lameman	DATE DRAWN: May 13, 2014
REVISIONS BY: C. Lameman	DATE REVISED: May 30, 2014
CHECKED BY: D. Watson	DATE CHECKED: May 30, 2014
APPROVED BY: E. McNally	DATE APPROVED: May 30, 2014

LEGEND

===== SECONDARY CONTAINMENT BERM



Field Sampling Results				
Sample ID	Date	Depth (ft)	OVMPID (ppm)	TPH (mg/kg)
		NMOCD ACTION LEVEL		
			100	1,000
TH-1	5/12/14	0.5	4,192	7,010
		3.5	4,187	NA
		4.5	3,611	NA
		7	3,321	>2,300
		9	2,985	>2,300
		12	3,168	NA
TH-2	5/12/14	1.5	0.3	NA
		7	0.5	25.0
TH-3	5/12/14	2	38.0	362
		6.25	1,587	1,730
TH-4	5/12/14	1.5	0.3	NA
		6.25	0.1	45.0
TH-5	5/12/14	1.5	0.1	NA
		6.5	0.2	38.0
TH-6	5/12/14	2	3.5	250
		5.5	3,532	>2,300
TH-7	5/12/14	3	2,960	NA
TH-8	5/12/14	4.75	2.4	120
TH-9	5/12/14	2	0.4	NA
		6.75	0.3	142
TH-10	5/12/14	6	2.1	32.1
NA - NOT ANALYZED				

FIGURE 4

**FINAL EXCAVATION SAMPLE LOCATIONS AND RESULTS
MAY 2014**
ConocoPhillips
STATE COM H #4
SW¼ NE¼, SECTION 32, T31N, R9W
SAN JUAN COUNTY, NEW MEXICO
N36.85754, W107.80135



Animas Environmental Services, LLC

DRAWN BY:
C. Lameman

DATE DRAWN:
May 30, 2014

REVISIONS BY:
C. Lameman

DATE REVISED:
May 30, 2014

CHECKED BY:
D. Watson

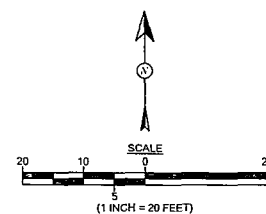
DATE CHECKED:
May 30, 2014

APPROVED BY:
E. McNally

DATE APPROVED:
May 30, 2014

LEGEND

- SAMPLE LOCATIONS
- ===== SECONDARY CONTAINMENT BERM



STATE COM H #4 WELLHEAD

METER RUN

FORMER SEPARATOR

FORMER 120 BBL BGT AND CRIBBING

Field Sampling Results				
Sample ID	Date	Depth (ft)	OVM-PID (ppm)	TPH (mg/kg)
NMOCD ACTION LEVEL			100	1,000
SC-1	5/20/14	1 to 14	26.9	293
SC-2	5/20/14	1 to 14	19.2	88.1
SC-3	5/20/14	1 to 14	8.8	74.2
SC-4	5/20/14	1 to 14	36.3	1,320
SC-5	5/20/14	14	4,888	3,210
ALL SAMPLES WERE COMPOSITE SAMPLES.				

Laboratory Analytical Results						
Sample ID	Date	Depth (ft)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH - GRO (mg/kg)	TPH - DRO (mg/kg)
NMOCD ACTION LEVEL			10	50	1,000	
SC-1	5/22/14	1 to 14	NA	NA	<4.9	36
SC-2	5/22/14	1 to 14	NA	NA	<4.9	<10
SC-3	5/22/14	1 to 14	NA	NA	<4.8	<9.9
SC-4	5/20/14	1 to 14	NA	NA	4.3	79
SC-5	5/20/14	14	<0.11	44.3	590	850
ALL SAMPLES WERE ANALYZED PER EPA METHOD 8021B AND/OR 8015D.						

FORMER COMPRESSOR

TANK
RELEASE LOCATION
N36.85720, W107.80134

EXCAVATION AREA
59 FT x 49 FT x 14 FT DEEP TO SANDSTONE

300 BBL PRODUCTION TANK

APPROXIMATE WELL PAD BOUNDARY

AES Field Sampling Report



Animas Environmental Services, LLC

www.animasenvironmental.com

Client: ConocoPhillips

Project Location: State Com H #4

Date: 5/12/2014

Matrix: Soil

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

Durango, Colorado
970-403-3084

Sample ID	Collection Date	Collection Time	OVM (ppm)	TPH* (mg/kg)	TPH Analysis Time	TPH PQL (mg/kg)	DF	TPH Analysts Initials
TH-1 @ 0.5'	5/12/2014	11:43	4,192	7,008	12:06	200	10	EMS
TH-1 @ 3.5'	5/12/2014	14:50	4,187	Not Analyzed for TPH				
TH-1 @ 4.5'	5/12/2014	14:53	3,611	Not Analyzed for TPH				
TH-1 @ 7'	5/12/2014	14:56	3,321	>2,300	15:32	20.0	1	EMS
TH-1 @ 9.25'	5/12/2014	15:00	2,985	>2,300	15:29	20.0	1	EMS
TH-1 @ 12'	5/12/2014	15:04	3,168	Not Analyzed for TPH				
TH-1 @ 13'	5/12/2014	15:06	3,590	>2,300	15:27	20.0	1	EMS
TH-2 @ 1.5'	5/12/2014	15:36	0.3	Not Analyzed for TPH				
TH-2 @ 7'	5/12/2014	15:39	0.5	25.0	10:07**	20.0	1	EMS
TH-3 @ 2'	5/12/2014	15:50	38.0	362	10:10**	20.0	1	EMS
TH-3 @ 6.25'	5/12/2014	15:55	1,587	1,727	10:12**	20.0	1	EMS
TH-4 @ 1.5'	5/12/2014	16:02	0.3	Not Analyzed for TPH				
TH-4 @ 6.25'	5/12/2014	16:05	0.1	45.0	10:15**	20.0	1	EMS
TH-5 @ 1.5'	5/12/2014	16:07	0.1	Not Analyzed for TPH				
TH-5 @ 6.5'	5/12/2014	16:09	0.2	38.0	10:17**	20.0	1	EMS
TH-6 @ 2'	5/12/2014	16:15	3.5	250	10:20**	20.0	1	EMS
TH-6 @ 5.5'	5/12/2014	16:22	3,532	>2,300	10:22**	20.0	1	EMS
TH-7 @ 3'	5/12/2014	16:30	2,960	Not Analyzed for TPH				
TH-8 @ 4.75'	5/12/2014	16:32	2.4	120	10:25**	20.0	1	EMS
TH-9 @ 2'	5/12/2014	16:40	0.4	Not Analyzed for TPH				
TH-9 @ 6.75'	5/12/2014	16:45	0.3	142	10:27**	20.0	1	EMS
TH-10 @ 6'	5/12/2014	17:00	2.1	32.1	10:30**	20.0	1	EMS

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.*
****Samples were analyzed on 5/13/14**

Total Petroleum Hydrocarbons - USEPA 418.1

Analyst: 

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: State Com H #4

Date: 5/20/2014

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	5/20/2014	9:35	North Wall	26.9	10:29	293	20.0	1	CL
SC-2	5/20/2014	9:40	South Wall	19.2	10:35	88.1	20.0	1	CL
SC-3	5/20/2014	9:48	East Wall	8.8	10:41	74.2	20.0	1	CL
SC-4	5/20/2014	9:52	West Wall	36.3	10:49	1,320	20.0	1	CL
SC-5	5/20/2014	9:55	Base	4,888	10:57	3,208	200	10	CL

DF Dilution Factor

NA Not Analyzed

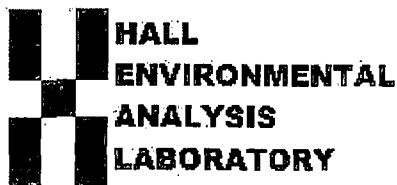
ND Not Detected at the Reporting Limit

PQL Practical Quantitation Limit

*TPH concentrations recorded may be below PQL.

Total Petroleum Hydrocarbons - USEPA 418.1

Analyst:



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

May 22, 2014

Debbie Watson

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

RE: CoP State Com H #4

OrderNo.: 1405886

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 2 sample(s) on 5/21/2014 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 1405886

Date Reported: 5/22/2014

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Animas Environmental**Client Sample ID:** SC-4**Project:** CoP State Com H #4**Collection Date:** 5/20/2014 9:52:00 AM**Lab ID:** 1405886-001**Matrix:** MEOH (SOIL)**Received Date:** 5/21/2014 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	79	10		mg/Kg	1	5/21/2014 11:41:49 AM	13277
Surr: DNOP	92.5	57.9-140		%REC	1	5/21/2014 11:41:49 AM	13277
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	4.3	3.3		mg/Kg	1	5/21/2014 11:05:11 AM	R18771
Surr: BFB	128	80-120	S	%REC	1	5/21/2014 11:05:11 AM	R18771

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		

Analytical Report

Lab Order 1405886

Date Reported: 5/22/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: SC-5

Project: CoP State Com H #4

Collection Date: 5/20/2014 9:55:00 AM

Lab ID: 1405886-002

Matrix: MEOH (SOIL)

Received Date: 5/21/2014 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	850	100		mg/Kg	10	5/21/2014 2:19:48 PM	13277
Surr: DNOP	0	57.9-140	S	%REC	10	5/21/2014 2:19:48 PM	13277
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	590	22		mg/Kg	5	5/21/2014 11:33:49 AM	R18771
Surr: BFB	802	80-120	S	%REC	5	5/21/2014 11:33:49 AM	R18771
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.11		mg/Kg	5	5/21/2014 11:33:49 AM	R18771
Toluene	ND	0.22		mg/Kg	5	5/21/2014 11:33:49 AM	R18771
Ethylbenzene	3.3	0.22		mg/Kg	5	5/21/2014 11:33:49 AM	R18771
Xylenes, Total	41	0.45		mg/Kg	5	5/21/2014 11:33:49 AM	R18771
Surr: 4-Bromofluorobenzene	173	80-120	S	%REC	5	5/21/2014 11:33:49 AM	R18771

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#: 1405886

22-May-14

Client: Animas Environmental

Project: CoP State Com H #4

Sample ID	LCS-13258		SampType:	LCS		TestCode:	EPA Method 8015D: Diesel Range Organics				
Client ID:	LCSS		Batch ID:	13258		RunNo:	18749				
Prep Date:	5/20/2014		Analysis Date:	5/21/2014		SeqNo:	541686		Units: %REC		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: DNOP	4.3		5.000		86.5	57.9	140				

Sample ID	LCS-13277		SampType: LCS		TestCode: EPA Method 8015D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 13277		RunNo: 18749					
Prep Date:	5/21/2014		Analysis Date: 5/21/2014		SeqNo: 541687		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	98.7	60.8	145			
Surr: DNOP	4.7		5.000		94.5	57.9	140			

Sample ID	MB-13258		SampType:	MBLK		TestCode:	EPA Method 8015D: Diesel Range Organics				
Client ID:	PBS		Batch ID:	13258		RunNo:	18749				
Prep Date:	5/20/2014		Analysis Date:	5/21/2014		SeqNo:	541688		Units: %REC		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: DNOP	9.8		10.00		97.6	57.9	140				

Sample ID	MB-13277		SampType:	MBLK		TestCode:	EPA Method 8015D: Diesel Range Organics				
Client ID:	PBS		Batch ID:	13277		RunNo:	18749				
Prep Date:	5/21/2014		Analysis Date:	5/21/2014		SeqNo:	541689		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	8.1		10.00		81.5	57.9	140				

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#: 1405886

22-May-14

Client: Animas Environmental

Project: CoP State Com H #4

Sample ID	MB-13266 MK	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	R18771	RunNo:	18771					
Prep Date:		Analysis Date:	5/21/2014	SeqNo:	542189	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	860		1000		86.5	80	120			

Sample ID	LCS-13266 MK	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	R18771	RunNo:	18771					
Prep Date:		Analysis Date:	5/21/2014	SeqNo:	542190	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	86.1	71.7	134			
Surr: BFB	1000		1000		100	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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1405886

22-May-14

Client: Animas Environmental

Project: CoP State Com H #4

Sample ID	MB-13266 MK		SampType:	MBLK		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	PBS		Batch ID:	R18771		RunNo:	18771			
Prep Date:			Analysis Date:	5/21/2014		SeqNo:	542226		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	1.1		1.000		105	80	120			

Sample ID	LCS-13266 MK		SampType:	LCS		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	LCSS		Batch ID:	R18771		RunNo:	18771			
Prep Date:			Analysis Date:	5/21/2014		SeqNo:	542228		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.050	1.000	0	112	80	120			
Toluene	1.0	0.050	1.000	0	102	80	120			
Ethylbenzene	1.0	0.050	1.000	0	101	80	120			
Xylenes, Total	3.0	0.10	3.000	0	98.4	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		113	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
4901 Hawkins NE
Albuquerque, NM 87105
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Animas Environmental

Work/Order Number: 1405886

RcptNo: 1

Received by/date:

CS 05/20/14

Logged By: Lindsay Mangin

5/21/2014 10:00:00 AM

Lindsay Mangin

Completed By: Lindsay Mangin

5/21/2014 10:11:06 AM

Lindsay Mangin

Reviewed By:

IO

05/21/14

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 $>0^{\circ}\text{C}$ 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	1.0	Good	Yes			

UNIT-ALONG TITLE.

☐ Standard ☒ Rush Save day

Project Name:

COP State Comm #4

Project #:

Project Manager:

email or Fax#:

QA/QC Package:

☒ Standard ☐ Level 4 (Full Validation)

Accreditation

☐ NELAP ☐ Other☐ EDD (Type)

Sampler: SG/CL

On Ice ☒ Yes ☐ No

Sample Temperature / °C

per D.W.
805 21/14

Received by:	Date	Time
<i>Christina White</i>	5/20/14	11:45

Received by: Celina Sura Date 05/21/14 Time 10:00

Remarks:	Bill to Conoco Phillips
----------	-------------------------

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.



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

May 29, 2014

Debbie Watson

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

RE: COP State Com H #4

OrderNo.: 1405A39

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 3 sample(s) on 5/23/2014 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,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 1405A39

Date Reported: 5/29/2014

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Animas Environmental**Client Sample ID:** SC-1**Project:** COP State Com H #4**Collection Date:** 5/22/2014 9:45:00 AM**Lab ID:** 1405A39-001**Matrix:** SOIL**Received Date:** 5/23/2014 10:06:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	36	10		mg/Kg	1	5/27/2014 10:38:54 PM	13337
Surr: DNOP	100	57.9-140		%REC	1	5/27/2014 10:38:54 PM	13337
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/27/2014 3:59:32 PM	13340
Surr: BFB	90.7	80-120		%REC	1	5/27/2014 3:59:32 PM	13340

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		

Analytical Report

Lab Order 1405A39

Date Reported: 5/29/2014

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Animas Environmental**Client Sample ID:** SC-2**Project:** COP State Com H #4**Collection Date:** 5/22/2014 9:50:00 AM**Lab ID:** 1405A39-002**Matrix:** SOIL**Received Date:** 5/23/2014 10:06:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	5/27/2014 11:09:26 PM	13337
Surr: DNOP	105	57.9-140		%REC	1	5/27/2014 11:09:26 PM	13337
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/27/2014 4:28:05 PM	13340
Surr: BFB	89.5	80-120		%REC	1	5/27/2014 4:28:05 PM	13340

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		

Analytical Report

Lab Order 1405A39

Date Reported: 5/29/2014

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Animas Environmental**Client Sample ID:** SC-3**Project:** COP State Com H #4**Collection Date:** 5/22/2014 9:55:00 AM**Lab ID:** 1405A39-003**Matrix:** SOIL**Received Date:** 5/23/2014 10:06:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	5/27/2014 11:39:56 PM	13337
Surr: DNOP	103	57.9-140		%REC	1	5/27/2014 11:39:56 PM	13337
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/27/2014 4:56:42 PM	13340
Surr: BFB	89.0	80-120		%REC	1	5/27/2014 4:56:42 PM	13340

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#: 1405A39

29-May-14

Client: Animas Environmental

Project: COP State Com H #4

Sample ID	MB-13337	SampType:	MBLK	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	13337	RunNo:	18843					
Prep Date:	5/23/2014	Analysis Date:	5/27/2014	SeqNo:	544843	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	9.4		10.00		94.0	57.9	140			

Sample ID	LCS-13337	SampType:	LCS	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	13337	RunNo:	18843					
Prep Date:	5/23/2014	Analysis Date:	5/27/2014	SeqNo:	544844	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	64	10	50.00	0	128	60.8	145			
Surr: DNOP	6.5		5.000		129	57.9	140			

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#: 1405A39

29-May-14

Client: Animas Environmental

Project: COP State Com H #4

Sample ID	MB-13340	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	13340	RunNo:	18869					
Prep Date:	5/23/2014	Analysis Date:	5/27/2014	SeqNo:	545108	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	880		1000		88.4	80	120			

Sample ID	LCS-13340	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	13340	RunNo:	18869					
Prep Date:	5/23/2014	Analysis Date:	5/27/2014	SeqNo:	545109	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	109	71.7	134			
Surr: BFB	990		1000		99.3	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

Sample Log-In Check List

Client Name: Animas Environmental

Work Order Number: 1405A39

RcptNo: 1

Received by/date: LB 05/23/14

Logged By: Lindsay Mangin 5/23/2014 10:06:00 AM Judy H

Completed By: Lindsay Mangin 5/23/2014 10:57:16 AM Judy H

Reviewed By: [Signature] 05/23/14

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	3.6	Good	Yes			

☐ EDD (Type) _____

Sample Temperature: 3.1

Date:	Time:	Relinquished by:	Received by:	Date	Time	Remarks:
5/22/14	1722	SL Sh	Christ Waeter	5/22/14	1722	
Date:	Time:	Relinquished by:	Received by:	Date	Time	
5/22/14	1741	Christine Waeter	Michele Sp	05/23/14	1004	

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.