

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

Form C-141
Revised August 8, 2011

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

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 Bobby Spearman	
Address 3401 East 30 th St, Farmington, NM	Telephone No.(505)-320-3045	
Facility Name: Phillips Com1E	Facility Type: Gas well	
Surface Owner: FEE	Mineral Owner: FED	API No. 3004524198

LOCATION OF RELEASE

Unit Letter K	Section 23	Township 31N	Range 13W	Feet from the 1650	North/South Line South	Feet from the 1700	East/West Line West	County San Juan
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Latitude 36.88265 _Longitude -108.17654

NATURE OF RELEASE

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

If a Watercourse was Impacted, Describe Fully.*

OIL CONS. DIV DIST. 3

Describe Cause of Problem and Remedial Action Taken.*

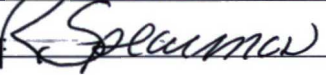

Historic contamination was encountered after a soil sample was taken on 3-15-16

NOV 28 2016

Describe Area Affected and Cleanup Action Taken.*

Historical hydrocarbon impacted soil was found during the BGT closure for the subject well. The excavation was 55'x 52' x 10' and 1059 yds of soil was transported to Envirotech landfarm and 1059 yds of clean soil was transported from 1059 and placed in the excavation site. 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: Bobby Spearman	Approved by Environmental Specialist: 	
Title: Field Environmental Specialist	Approval Date: 12/08/2016	Expiration Date:
E-mail Address: Robert.E.Spearman@conocophillips.com	Conditions of Approval: NVE1618247899	Attached <input type="checkbox"/>
Date: 11-21-16	Phone: (505) 320-3045	

* Attach Additional Sheets If Necessary

49



November 9, 2016

Robert Spearman
ConocoPhillips
San Juan Business Unit
(505) 320-3045

Via electronic mail to:

SJBUE-Team@ConocoPhillips.com

**RE: Below Grade Tank Closure, Release Assessment, and Final Excavation Report
Phillips Com 1E
San Juan County, New Mexico**

Dear Mr. Spearman:

On March 14, April 18 and September 20, 2016, Animas Environmental Services, LLC (AES) completed below grade tank (BGT) closure sampling, a release assessment, and environmental clearance of the final excavation limits at the ConocoPhillips (COPC) Phillips Com 1E located in San Juan County, New Mexico. At the request of the New Mexico Oil Conservation Division (NMOCD), resampling of the location below the former BGT was required in order to meet all required closure criteria listed in New Mexico Administrative Code (NMAC) 19.15.17.13E. The historic release at the BGT consisted of an unknown quantity produced water and hydrocarbons. An initial release assessment was completed on April 18, 2016, and the final excavation was completed by COPC contractors while AES was on location on September 20, 2016.

1.0 Site Information

1.1 Location

Site Name – Phillips Com 1E

Location – NE¼ SW¼, Section 23, T31N, R13W
San Juan County, New Mexico

Well Head Latitude/Longitude – N36.88279, W108.17654

BGT/Release Location Latitude/Longitude – N36.88265, W108.17646

Land Jurisdiction – Private

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map, March 2016

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

1911 Main, Ste 206
Durango, CO 81301
970-403-3084

1.2 NMOCD Ranking

In accordance with 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 Site-Specific Hydrology Report form dated August 2008 reported the depth to groundwater at 81 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:** An unnamed wash is located approximately 400 feet south, and the Thompson Arroyo is located approximately 550 feet northeast of the location. Both ultimately drain into the La Plata River west of the location. (10 points)

1.3 Assessment

AES was initially contacted by Robert Spearman, COPC representative, on March 1, 2016. At the request of the NMOCD, resampling of the location below the former BGT was required in order to meet required closure criteria listed in NMAC 19.15.17.13E. On March 14, 2016, Corwin Lameman and Emilee Skyles of AES traveled to the location. Soil sampling consisted of collection of one discrete soil sample from below the former BGT.

On April 18, 2016, AES personnel completed the release assessment field work. The assessment included collection and field sampling of 16 soil samples from 11 soil borings (SB-1 through SB-11). Based on field sampling results, AES recommended excavation of the release area. Sample locations are shown on Figure 3.

On September 20, 2016, AES returned to the location to collect confirmation soil samples of the excavation. The field sampling activities included collection of six confirmation soil samples (SC-1 through SC-6) from the walls and base of the excavation. The area of the final excavation measured approximately 55 feet by 52 feet by 10 to 12 feet in depth. The depth of the excavation was limited due to a confining sandstone unit from 3 to 10 feet bgs. Sample locations and final excavation extents are presented on Figure 4.

2.0 Soil Sampling

A total of 16 soil samples (SB-1 through SB-11) and 7 composite samples (S-1, and SC-1 through SC-6) were collected during the assessments. All soil samples except S-1 were field screened for volatile organic compounds (VOCs), and selected samples were analyzed for total petroleum hydrocarbon (TPH). All composite samples (S-1, and SC-1 through SC-6) collected 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

Soil samples were also analyzed in the field for TPH 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 sample chain of custody records. Samples were maintained on ice until delivery to the analytical laboratory, Hall Environmental Analysis Laboratory (Hall) in Albuquerque, New Mexico. Soil samples S-1, and SC-1 through SC-6 were laboratory analyzed for:

- Chlorides per USEPA Method 300.0; and
- Benzene, toluene, ethylbenzene, and xylene (BTEX) per USEPA Method 8021B.

S-1 was also analyzed for:

- TPH per USEPA Method 418.1.

SC-1 through SC-6 were also analyzed for:

- TPH as Gasoline Range Organics (GRO), Motor Oil Range Organics (MRO) and Diesel Range Organics (DRO) per USEPA Method 8015.

2.3 Field and Laboratory Analytical Results

On April 18, 2016, release assessment field screening results for VOCs via OVM ranged from 0.0 ppm in SB-5, SB-6, and SB-8, through SB-11 up to 4,455 ppm in SB-3. Field TPH concentrations were reported at less than 20.0 mg/kg in SB-8 through SB-11 up to to 1,474 mg/kg in SB-3.

On September 20, 2016, final excavation field screening results for VOCs via OVM ranged from 2.8 ppm in SC-6 up to 139 ppm in SC-3. Field TPH concentrations were less than 20.0 mg/kg in SC-1 through SC-6. Field screening VOC and TPH results are summarized in Table 1 and on Figures 3 and 4. The AES Field Sampling Reports are attached.

Table 1. Soil Field VOCs, TPH, and Chloride Results
Phillips Com 1E BGT Closure, Release Assessment and Final Excavation
March through September 2016

<i>Sample ID</i>	<i>Date Sampled</i>	<i>Sample Depth (ft bgs)</i>	<i>VOCs via OVM (ppm)</i>	<i>Field TPH (mg/kg)</i>
<i>NMOCD Action Level*</i>			<i>NE/100*</i>	<i>100/100*</i>
S-1	3/14/16	4.5	NA	NA
SB-1	4/18/16	2	0.0	NA
		4	404	568
		4.5	2,494	NA
SB-2	4/18/16	2	0.0	NA
		3	40.1	26.2
SB-3	4/18/16	2	0.0	NA
		4	4,455	1,470
SB-4	4/18/16	2	0.0	NA
		4	2,354	1,390
SB-5	4/18/16	4	0.0	<20.0
SB-6	4/18/16	4	0.0	<20.0
SB-7	4/18/16	3.75	508	67.0
SB-8	4/18/16	2	0.0	<20.0
SB-9	4/18/16	3.5	0.0	<20.0
SB-10	4/18/16	1	0.0	<20.0
SB-11	4/18/16	4	0.0	<20.0

<i>Sample ID</i>	<i>Date Sampled</i>	<i>Sample Depth (ft bgs)</i>	<i>VOCs via OVM (ppm)</i>	<i>Field TPH (mg/kg)</i>
<i>NMOCD Action Level*</i>			<i>NE/100*</i>	<i>100/100*</i>
SC-1	9/20/16	0 to 10	19.2	<20.0
SC-2	9/20/16	0 to 10	21.7	<20.0
SC-3	9/20/16	0 to 10	139	<20.0
SC-4	9/20/16	0 to 10	3.3	<20.0
SC-5	9/20/16	10 to 12	22.0	<20.0
SC-6	9/20/16	10 to 12	2.8	<20.0

NA – not analyzed

*Action level determined by the NMOCD ranking score per *NMOCD Guidelines for Remediation of Leaks, Spills, and Releases* (August 1993) and *NMAC 19.15.17.13E*.

Laboratory analysis of sample S-1 was used to determine the BTEX, TPH, and chloride concentrations for BGT closure sampling results. BTEX concentrations were measured at 302 mg/kg; TPH concentrations were reported at 2,700 mg/kg; and chloride concentration was less than 30 mg/kg.

Laboratory analyses for SC-1 through SC-6 were used to confirm field sampling results from the final excavation extents. Benzene concentrations and total BTEX concentrations were reported below laboratory detection limits in all samples (SC-1 through SC-6). Total TPH (GRO/DRO/MRO) concentrations were also below laboratory detection limits in SC-1 through SC-6. Results are summarized in Table 2 and included on Figure 4. Laboratory analytical reports are attached.

Table 2. Soil Laboratory Analytical Results – Benzene, Total BTEX, TPH and Chlorides
Phillips Com 1E BGT Closure, Release Assessment, and Final Excavation
March, April, and September 2016

<i>Sample ID</i>	<i>Date Sampled</i>	<i>Sample Depth (ft bgs)</i>	<i>Benzene (mg/kg)</i>	<i>Total BTEX (mg/kg)</i>	<i>Total TPH (418.1) (mg/kg)</i>	<i>TPH GRO (mg/kg)</i>	<i>TPH DRO (mg/kg)</i>	<i>TPH MRO (mg/kg)</i>	<i>Chlorides (mg/kg)</i>
<i>NMOCD Action Level*</i>			<i>0.2/10*</i>	<i>50</i>	<i>100/100*</i>		<i>100/100*</i>		<i>250/NE*</i>
S-1	3/14/16	5	<1.2	302	2,700	NA	NA	NA	<30
SC-1	9/20/16	0 to 10	<0.023	<0.206	NA	<4.6	<9.3	<46	110
SC-2	9/20/16	0 to 10	<0.024	<0.220	NA	<4.9	<9.8	<49	<30
SC-3	9/20/16	0 to 10	<0.018	<0.165	22	<3.7	<9.9	<50	98

Sample ID	Date Sampled	Sample Depth (ft bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	Total TPH (418.1) (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Chlorides (mg/kg)
NMOCD Action Level*			0.2/10*	50	100/100*		100/100*		250/NE*
SC-4	9/20/16	0 to 10	<0.024	<0.219	NA	<4.9	<9.9	<50	<30
SC-5	9/20/16	10 to 12	<0.025	<0.225	NA	<5.0	<9.5	<47	96
SC-6	9/20/16	10 to 12	<0.025	<0.225	NA	<5.0	12	<46	<30

NA – not analyzed

*Action level determined by the NMOCD ranking score per *NMOCD Guidelines for Remediation of Leaks, Spills, and Releases* (August 1993) and NMAC 19.15.17.13E.

3.0 Conclusions and Recommendations

On March 14, and April 18, 2016, AES conducted a BGT closure and assessment of petroleum contaminated soils associated with the Phillips Com 1E. NMOCD action levels for BGT closures are specified in NMAC 19.15.17.13E. 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.

BGT closure sampling results for total BTEX and total TPH in March 2016 were above the NMOCD action level of 0.2 mg/kg and 100 mg/kg, respectively, with S-1 reporting laboratory concentrations at 302 mg/kg and 2,700 mg/kg, respectively. Laboratory results for chloride concentrations in BGT SC-1 were reported below the NMOCD action level of 250 mg/kg. Based on laboratory concentrations of total BTEX and total TPH, a release was confirmed.

In April 2016, release assessment field sampling results above the NMOCD action level of 100 ppm VOCs were reported in SB-1, SB-3, SB-4 and SB-7, and field sampling results above the NMOCD Action level of 100 mg/kg TPH were reported in SB-1, SB-3, and SB-4. The highest VOC concentration of 4,453 ppm and the highest TPH concentration of 1,470 mg/kg were both reported in SB-3. Excavation of the release area was recommended.


On September, 2016, 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 all four of the final walls as well as the base of the excavation, except SC-3. Field TPH concentrations were below the applicable NMOCD action level of 100 mg/kg for the four final walls and the base of the excavation. Laboratory analytical results reported benzene and total BTEX concentrations in SC-1

through SC-6 as below NMOCD action levels. TPH concentrations as GRO/DRO/MRO were also reported below the applicable NMOCD action level in all samples.

Based on the final field sampling and laboratory analytical results of the excavation of petroleum contaminated soils at the Phillips Com 1E, benzene, total BTEX, and TPH concentrations were all below the applicable NMOCD action levels for the final 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,



Victoria Giannola
Project Manager



Emilee Skyles
Geologist/Project Lead

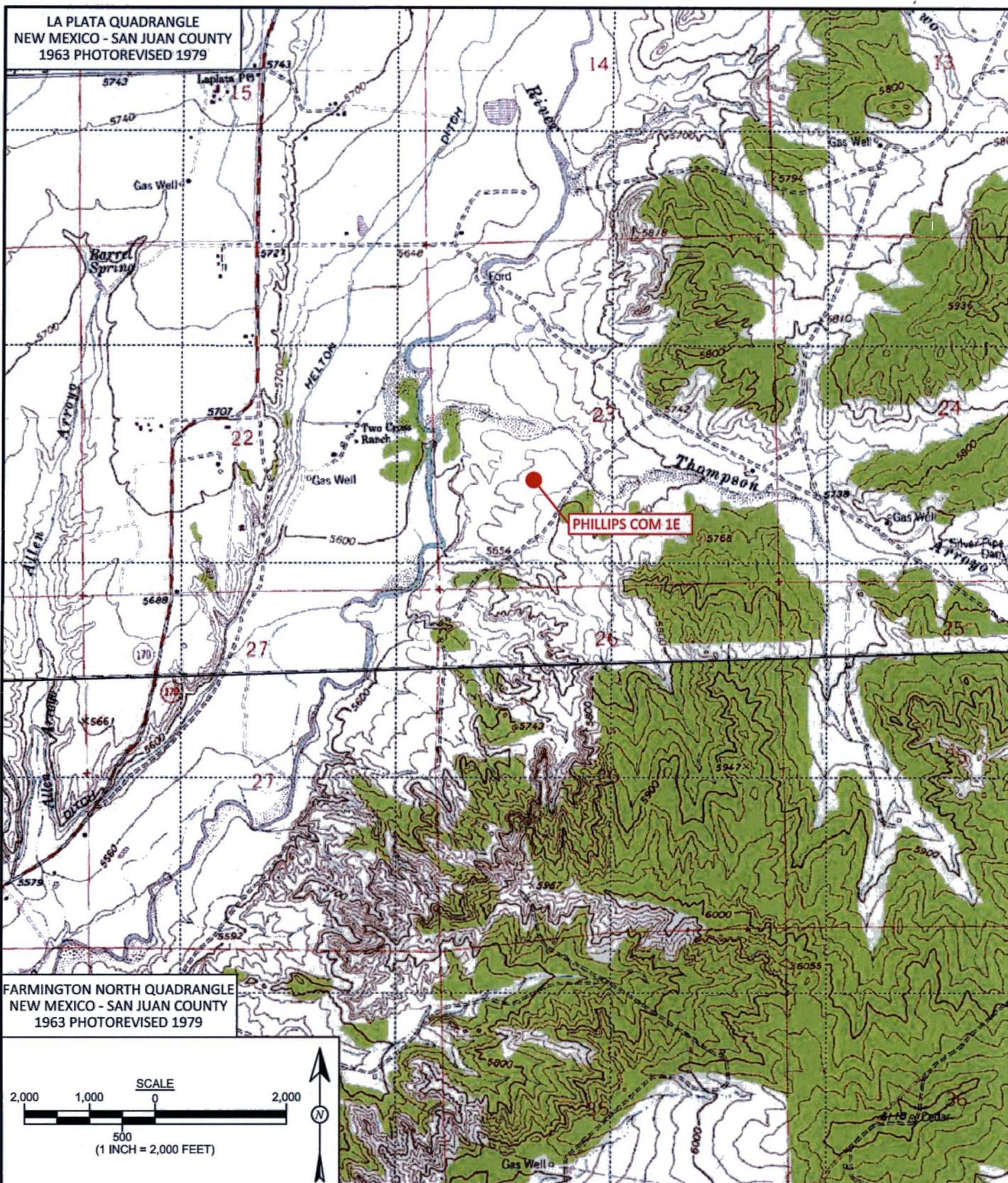


Elizabeth McNally, P.E.

Attachments:

- Figure 1. Topographic Site Location Map
- Figure 2. Aerial Site Map, March 2016
- Figure 3. Release Assessment Sample Locations and Results, March and April 2016
- Figure 4. Final Excavation Sample Locations and Results, September 2016
- AES Field Sampling Report 041816
- AES Field Sampling Report 092016
- Hall Laboratory Analytical Report 1603707
- Hall Laboratory Analytical Report 1609C05
- Hall Laboratory Analytical Report 1609B51

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DRAWN BY: C. Lameman	DATE DRAWN: April 28, 2016
REVISIONS BY: C. Lameman	DATE REVISED: April 28, 2016
CHECKED BY: E. Skyles	DATE CHECKED: October 28, 2016
APPROVED BY: E. McNally	DATE APPROVED: October 28, 2016

FIGURE 1

TOPOGRAPHIC SITE LOCATION MAP
ConocoPhillips
PHILLIPS COM 1E
NE $\frac{1}{4}$ SW $\frac{1}{4}$, SECTION 23, T31N, R13W
SAN JUAN COUNTY, NEW MEXICO
N36.88279, W108.17654

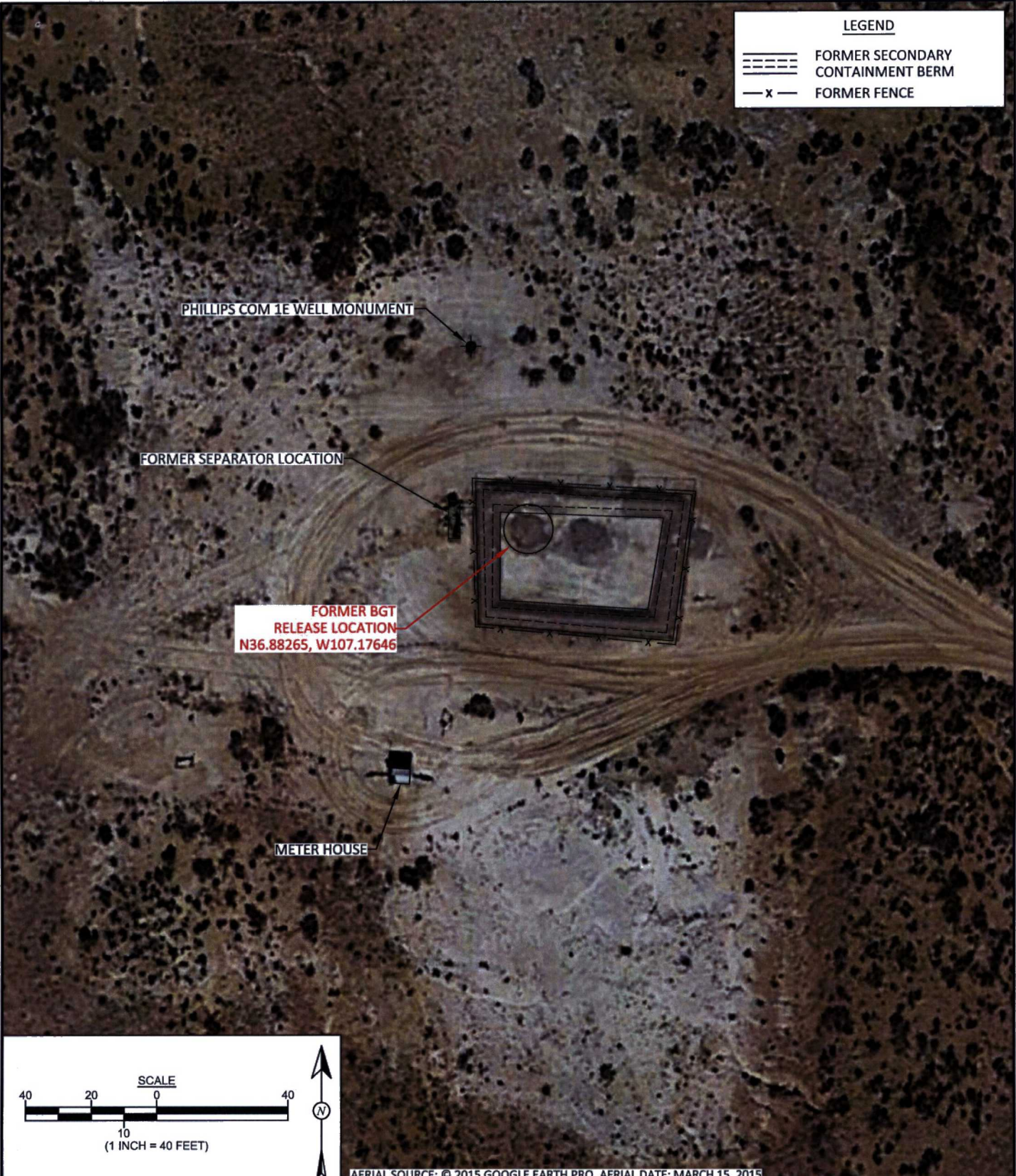
LEGEND

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FORMER SECONDARY CONTAINMENT BERM

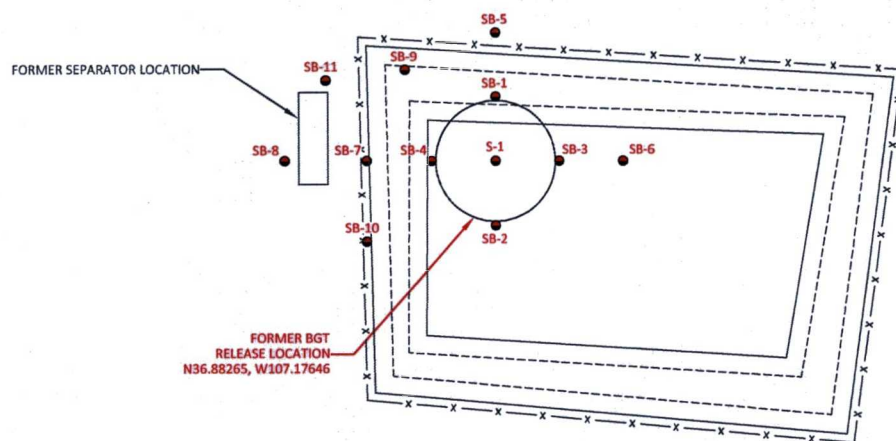
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FORMER FENCE



<div> <div> <div>AES</div> <div> <div>animas environmental services</div> <div>Farmington, NM • Durango, CO</div> <div>animasenvironmental.com</div> </div> </div> </div>	DRAWN BY: C. Lameman	DATE DRAWN: April 28, 2016	FIGURE 2
	REVISIONS BY: C. Lameman	DATE REVISED: April 28, 2016	<div> <div>AERIAL SITE MAP MARCH 2016</div> <div>ConocoPhillips PHILLIPS COM 1E</div> <div>NE¼ SW¼, SECTION 23, T31N , R13W SAN JUAN COUNTY, NEW MEXICO N36.88279, W108.17654</div> </div>
	CHECKED BY: E. Skyles	DATE CHECKED: October 28, 2016	
	APPROVED BY: E. McNally	DATE APPROVED: October 28, 2016	

PHILLIPS COM 1E WELL MONUMENT



METER HOUSE

Field Sampling Results				
Sample ID	Date	Depth (ft)	OVM-PID (ppm)	TPH (mg/kg)
		NMOCD ACTION LEVEL		100
SB-1	4/18/16	2.0	0.0	NA
		4.0	404	568
		4.5	2,494	NA
SB-2	4/18/16	2.0	0.0	NA
		3.0	40.1	26.2
		2.0	0.0	NA
SB-3	4/18/16	4.0	4,455	1,470
		2.0	0.0	NA
SB-4	4/18/16	4.0	2,354	1,390
		4.0	0.0	<20.0
SB-5	4/18/16	4.0	0.0	<20.0
SB-6	4/18/16	4.0	0.0	<20.0
SB-7	4/18/16	3.75	508	67.0
SB-8	4/18/16	2.0	0.0	<20.0
SB-9	4/18/16	3.5	0.0	<20.0
SB-10	4/18/16	1.0	0.0	<20.0
SB-11	4/18/16	4.0	0.0	<20.0
NA - NOT ANALYZED				

Laboratory Analytical Results					
Sample ID	Date	Depth (ft)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH (mg/kg)
		NMOCD ACTION LEVEL		10	50
S-1	3/14/16	5.0	<1.2	302	2,700
ALL SAMPLES WERE ANALYZED PER USEPA METHOD 8021B AND 418.1.					

FIGURE 3

RELEASE ASSESSMENT
SAMPLE LOCATIONS AND RESULTS
MARCH AND APRIL 2016
ConocoPhillips
PHILLIPS COM 1E
NE 1/4, SW 1/4, SECTION 23, T31N, R13W
SAN JUAN COUNTY, NEW MEXICO
N36.88279, W108.17654

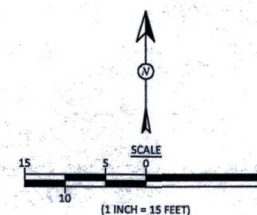


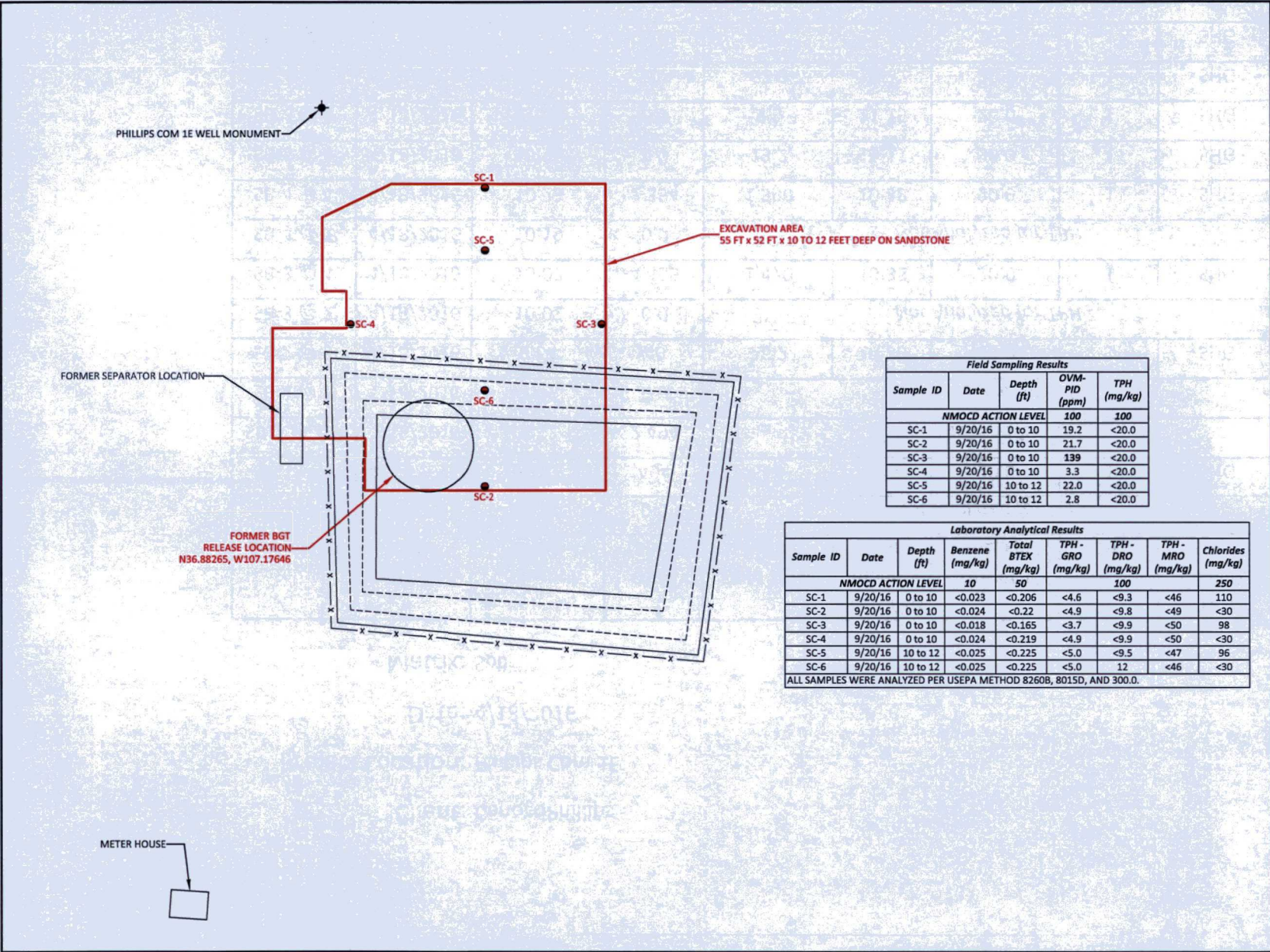
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REVISIONS BY: C. Lameman	DATE REVISED: October 28, 2016
CHECKED BY: E. Skyles	DATE CHECKED: October 28, 2016
APPROVED BY: E. McNally	DATE APPROVED: October 28, 2016

LEGEND

- SOIL BORING LOCATIONS






Field Sampling Results				
Sample ID	Date	Depth (ft)	OVM-PID (ppm)	TPH (mg/kg)
NMOCD ACTION LEVEL			100	100
SC-1	9/20/16	0 to 10	19.2	<20.0
SC-2	9/20/16	0 to 10	21.7	<20.0
SC-3	9/20/16	0 to 10	139	<20.0
SC-4	9/20/16	0 to 10	3.3	<20.0
SC-5	9/20/16	10 to 12	22.0	<20.0
SC-6	9/20/16	10 to 12	2.8	<20.0

Laboratory Analytical Results								
Sample ID	Date	Depth (ft)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH - GRO (mg/kg)	TPH - DRO (mg/kg)	TPH - MRO (mg/kg)	Chlorides (mg/kg)
NMOCD ACTION LEVEL			10	50	100			250
SC-1	9/20/16	0 to 10	<0.023	<0.206	<4.6	<9.3	<46	110
SC-2	9/20/16	0 to 10	<0.024	<0.22	<4.9	<9.8	<49	<30
SC-3	9/20/16	0 to 10	<0.018	<0.165	<3.7	<9.9	<50	98
SC-4	9/20/16	0 to 10	<0.024	<0.219	<4.9	<9.9	<50	<30
SC-5	9/20/16	10 to 12	<0.025	<0.225	<5.0	<9.5	<47	96
SC-6	9/20/16	10 to 12	<0.025	<0.225	<5.0	12	<46	<30
ALL SAMPLES WERE ANALYZED PER USEPA METHOD 8260B, 8015D, AND 300.0.								


FIGURE 4

**FINAL EXCAVATION CLEARANCE
SAMPLE LOCATIONS AND RESULTS
SEPTEMBER 2016**
ConocoPhillips
PHILLIPS COM 1E
NE¼ SW¼, SECTION 23, T31N, R13W
SAN JUAN COUNTY, NEW MEXICO
N36.88279, W108.17654

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DRAWN BY: S. Glasses	DATE DRAWN: October 6, 2016
REVISIONS BY: C. Lameman	DATE REVISED: October 28, 2016
CHECKED BY: E. Skyles	DATE CHECKED: October 28, 2016
APPROVED BY: E. McNally	DATE APPROVED: October 28, 2016

LEGEND
● SAMPLE COMPOSITE LOCATIONS


SCALE
0 5 15
10
(1 INCH = 15 FEET)

AES Field Sampling Report

Animas Environmental Services, LLC



Client: ConocoPhillips

Project Location: Phillips Com 1E

Date: 4/18/2016

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 @ 2'	4/18/2016	9:22	0.0	Not Analyzed for TPH				
SB-1 @ 4'	4/18/2016	9:25	404	568	9:41	20.0	1	SHG
SB-1 @ 4.5'	4/18/2016	9:32	2,494	Not Analyzed for TPH				
SB-2 @ 2'	4/18/2016	9:42	0.0	Not Analyzed for TPH				
SB-2 @ 3'	4/18/2016	9:54	40	26.2	10:30	20.0	1	SHG
SB-3 @ 2'	4/18/2016	10:02	0.0	Not Analyzed for TPH				
SB-3 @ 4'	4/18/2016	10:07	4,455	1,470	10:35	20.0	1	SHG
SB-4 @ 2'	4/18/2016	10:19	0.0	Not Analyzed for TPH				
SB-4 @ 4'	4/18/2016	10:23	2,354	1,390	10:38	20.0	1	SHG
SB-5 @ 4'	4/18/2016	10:56	0.0	13.2	11:11	20.0	1	SHG
SB-6 @ 4'	4/18/2016	11:04	0.0	9.9	11:15	20.0	1	SHG
SB-7 @ 3.75'	4/18/2016	11:25	508	67.0	11:32	20.0	1	SHG
SB-8 @ 2'	4/18/2016	11:36	0.0	<20.0	11:54	20.0	1	SHG

AES Field Sampling Report

Animas Environmental Services, LLC



Client: ConocoPhillips

Project Location: Phillips Com 1E

Date: 9/20/2016

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	9/20/2016	11:03	North Wall	19.2	0.0	11:49	20.0	1	SHG
SC-2	9/20/2016	10:34	South Wall	21.7	0.0	11:53	20.0	1	SHG
SC-3	9/20/2016	10:40	East Wall	139	14.2	11:56	20.0	1	SHG
SC-4	9/20/2016	11:12	West Wall	3.3	0.0	12:00	20.0	1	SHG
SC-5	9/20/2016	10:55	North Base	22.0	10.9	12:03	20.0	1	SHG
SC-6	9/20/2016	10:28	South Base	2.8	9.2	12:08	20.0	1	SHG

DF Dilution Factor

NA Not Analyzed

PQL Practical Quantitation Limit

**TPH concentrations recorded may be below PQL.*

Total Petroleum Hydrocarbons - USEPA 418.1

Analy:



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

March 23, 2016

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

RE: COPC PHILLIPS COM 1E

OrderNo.: 1603707

Dear Emilee Skyles:

Hall Environmental Analysis Laboratory received 1 sample(s) on 3/15/2016 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 qualifiers 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 1603707

Date Reported: 3/23/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: S-1

Project: COPC PHILLIPS COM 1E

Collection Date: 3/14/2016 10:16:00 AM

Lab ID: 1603707-001

Matrix: SOIL

Received Date: 3/15/2016 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 418.1: TPH							Analyst: TOM
Petroleum Hydrocarbons, TR	2700	200		mg/Kg	10	3/18/2016	24299
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	ND	30		mg/Kg	20	3/21/2016 11:06:08 PM	24365
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	1.2		mg/Kg	50	3/16/2016 8:47:15 AM	24254
Toluene	7.6	2.4		mg/Kg	50	3/16/2016 8:47:15 AM	24254
Ethylbenzene	24	2.4		mg/Kg	50	3/16/2016 8:47:15 AM	24254
Xylenes, Total	270	4.7		mg/Kg	50	3/16/2016 8:47:15 AM	24254
Surr: 4-Bromofluorobenzene	134	80-120	S	%Rec	50	3/16/2016 8:47:15 AM	24254

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	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1603707

23-Mar-16

Client: Animas Environmental
Project: COPC PHILLIPS COM 1E

Sample ID	MB-24365	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	24365	RunNo:	32963					
Prep Date:	3/21/2016	Analysis Date:	3/21/2016	SeqNo:	1011048	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-24365	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	24365	RunNo:	32963					
Prep Date:	3/21/2016	Analysis Date:	3/21/2016	SeqNo:	1011049	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.5	90	110			

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 | W Sample container temperature is out of limit as specified |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1603707

23-Mar-16

Client: Animas Environmental
Project: COPC PHILLIPS COM 1E

Sample ID	MB-24299	SampType:	MBLK	TestCode:	EPA Method 418.1: TPH					
Client ID:	PBS	Batch ID:	24299	RunNo:	32887					
Prep Date:	3/17/2016	Analysis Date:	3/18/2016	SeqNo:	1008187	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	ND	20								

Sample ID	LCS-24299	SampType:	LCS	TestCode:	EPA Method 418.1: TPH					
Client ID:	LCSS	Batch ID:	24299	RunNo:	32887					
Prep Date:	3/17/2016	Analysis Date:	3/18/2016	SeqNo:	1008188	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	97	20	100.0	0	96.8	83.4	127			

Sample ID	LCSD-24299	SampType:	LCSD	TestCode:	EPA Method 418.1: TPH					
Client ID:	LCSS02	Batch ID:	24299	RunNo:	32887					
Prep Date:	3/17/2016	Analysis Date:	3/18/2016	SeqNo:	1008189	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	100	20	100.0	0	101	83.4	127	4.29	20	

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
W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1603707

23-Mar-16

Client: Animas Environmental
Project: COPC PHILLIPS COM 1E

Sample ID	MB-24254		SampType:	MBLK		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	PBS		Batch ID:	24254		RunNo:	32841			
Prep Date:	3/15/2016		Analysis Date:	3/16/2016		SeqNo:	1006591		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		110	80	120			

Sample ID	LCS-24254		SampType:	LCS		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	LCSS		Batch ID:	24254		RunNo:	32841			
Prep Date:	3/15/2016		Analysis Date:	3/16/2016		SeqNo:	1006592		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	107	80	120			
Toluene	1.0	0.050	1.000	0	101	80	120			
Ethylbenzene	1.0	0.050	1.000	0	102	80	120			
Xylenes, Total	3.1	0.10	3.000	0	102	80	120			
Surr: 4-Bromofluorobenzene	1.2		1.000		116	80	120			

Sample ID	1603706-001AMS		SampType:	MS		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	BatchQC		Batch ID:	24254		RunNo:	32841			
Prep Date:	3/15/2016		Analysis Date:	3/16/2016		SeqNo:	1006594		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.024	0.9551	0	101	71.5	122			
Toluene	0.96	0.048	0.9551	0	101	71.2	123			
Ethylbenzene	1.0	0.048	0.9551	0	107	75.2	130			
Xylenes, Total	3.1	0.096	2.865	0	109	72.4	131			
Surr: 4-Bromofluorobenzene	1.1		0.9551		117	80	120			

Sample ID	1603706-001AMSD		SampType:	MSD		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	BatchQC		Batch ID:	24254		RunNo:	32841			
Prep Date:	3/15/2016		Analysis Date:	3/16/2016		SeqNo:	1006595		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.024	0.9785	0	104	71.5	122	5.32	20	
Toluene	0.98	0.049	0.9785	0	100	71.2	123	2.16	20	
Ethylbenzene	1.0	0.049	0.9785	0	104	75.2	130	0.738	20	
Xylenes, Total	3.1	0.098	2.935	0	104	72.4	131	2.15	20	
Surr: 4-Bromofluorobenzene	1.2		0.9785		120	80	120	0	0	S

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 | W Sample container temperature is out of limit as specified |



Hall Environmental Analysis Laboratory
4901 Havokins 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: 1603707

ReptNo: 1

Received by/date:

Logged By: Lindsay Mangin

3/15/2016 8:00:00 AM

Completed By: Lindsay Mangin

3/15/2016 8:54:24 AM

Reviewed By:

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 $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.9	Good	Yes			

Client: **Animas Environmental Services, LLC**

Phone #: 505-564-2281

Email or Fax#: eskyles@animasenvironmental.com

2A/QC Package:

☒ Standard ☐ Level 4 (Full Validation)

Accreditation:

☐ NELAP ☐ Other _____

EDD (Type) _____

מחלוקת זו נמשכה עד שנת 1970, אז הוכרז כי תאורית המפץ הגדול היא הנכונה.

☒ Standard ☐ Rush

Project Name:

Project #:

COPC PHILLIPS COM 1E

Project Manager:

E. Skyles

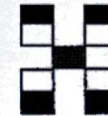
Sampler: CL / ES

On Ice ☒ Yes ☐ No

Sample Temperature: 21°C

Date:	Time:	Relinquished by:	Received by:	Date	Time	Remarks: Bill to Conoco Phillips WO # 21340555 Supervisor: Schaaphok USERID: GARRECD Area: 1 Ordered by: Bobby Spearman
3/14/16	1648	E. L. S. L.	Pat Wheeler	3/14/16	1648	
Date:	Time:	Relinquished by:	Received by:	Date	Time	
3/14/16	1821	Pat Wheeler	[Signature]	03/15/16	1800	

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

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request



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

September 30, 2016

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

RE: COPC Phillips Com 1E

OrderNo.: 1609C05

Dear Emilee Skyles:

Hall Environmental Analysis Laboratory received 5 sample(s) on 9/21/2016 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 qualifiers 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

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**

Lab Order 1609C05

Date Reported: 9/30/2016

CLIENT: Animas Environmental**Client Sample ID:** SC-1**Project:** COPC Phillips Com 1E**Collection Date:** 9/20/2016 11:03:00 AM**Lab ID:** 1609C05-001**Matrix:** SOIL**Received Date:** 9/21/2016 7:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							
Chloride	110	30		mg/Kg	20	9/27/2016 11:03:20 AM	27740
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	9/27/2016 1:23:12 PM	27685
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	9/27/2016 1:23:12 PM	27685
Surr: DNOP	86.9	70-130		%Rec	1	9/27/2016 1:23:12 PM	27685
EPA METHOD 8015D: GASOLINE RANGE							
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	9/23/2016 10:06:41 AM	27657
Surr: BFB	81.2	68.3-144		%Rec	1	9/23/2016 10:06:41 AM	27657
EPA METHOD 8021B: VOLATILES							
Benzene	ND	0.023		mg/Kg	1	9/23/2016 10:06:41 AM	27657
Toluene	ND	0.046		mg/Kg	1	9/23/2016 10:06:41 AM	27657
Ethylbenzene	ND	0.046		mg/Kg	1	9/23/2016 10:06:41 AM	27657
Xylenes, Total	ND	0.091		mg/Kg	1	9/23/2016 10:06:41 AM	27657
Surr: 4-Bromofluorobenzene	91.8	80-120		%Rec	1	9/23/2016 10:06:41 AM	27657

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	W Sample container temperature is out of limit as specified

Analytical Report

Lab Order 1609C05

Date Reported: 9/30/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: SC-2

Project: COPC Phillips Com 1E

Collection Date: 9/20/2016 10:34:00 AM

Lab ID: 1609C05-002

Matrix: SOIL

Received Date: 9/21/2016 7:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	30		mg/Kg	20	9/27/2016 11:40:34 AM	27740
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	9/27/2016 2:46:35 PM	27685
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/27/2016 2:46:35 PM	27685
Surr: DNOP	84.0	70-130		%Rec	1	9/27/2016 2:46:35 PM	27685
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/23/2016 10:30:08 AM	27657
Surr: BFB	80.0	68.3-144		%Rec	1	9/23/2016 10:30:08 AM	27657
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	9/23/2016 10:30:08 AM	27657
Toluene	ND	0.049		mg/Kg	1	9/23/2016 10:30:08 AM	27657
Ethylbenzene	ND	0.049		mg/Kg	1	9/23/2016 10:30:08 AM	27657
Xylenes, Total	ND	0.098		mg/Kg	1	9/23/2016 10:30:08 AM	27657
Surr: 4-Bromofluorobenzene	90.7	80-120		%Rec	1	9/23/2016 10:30:08 AM	27657

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	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**

Lab Order 1609C05

Date Reported: 9/30/2016

CLIENT: Animas Environmental**Client Sample ID:** SC-4**Project:** COPC Phillips Com 1E**Collection Date:** 9/20/2016 11:12:00 AM**Lab ID:** 1609C05-003**Matrix:** SOIL**Received Date:** 9/21/2016 7:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	30		mg/Kg	20	9/27/2016 11:52:59 AM	27740
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	9/27/2016 3:14:30 PM	27685
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	9/27/2016 3:14:30 PM	27685
Surr: DNOP	86.2	70-130		%Rec	1	9/27/2016 3:14:30 PM	27685
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/23/2016 10:53:40 AM	27657
Surr: BFB	81.1	68.3-144		%Rec	1	9/23/2016 10:53:40 AM	27657
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	9/23/2016 10:53:40 AM	27657
Toluene	ND	0.049		mg/Kg	1	9/23/2016 10:53:40 AM	27657
Ethylbenzene	ND	0.049		mg/Kg	1	9/23/2016 10:53:40 AM	27657
Xylenes, Total	ND	0.097		mg/Kg	1	9/23/2016 10:53:40 AM	27657
Surr: 4-Bromofluorobenzene	91.4	80-120		%Rec	1	9/23/2016 10:53:40 AM	27657

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	W Sample container temperature is out of limit as specified

Analytical Report

Lab Order 1609C05

Date Reported: 9/30/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: SC-5

Project: COPC Phillips Com 1E

Collection Date: 9/20/2016 10:55:00 AM

Lab ID: 1609C05-004

Matrix: SOIL

Received Date: 9/21/2016 7:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	96	30		mg/Kg	20	9/27/2016 12:05:24 PM	27740
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	9/27/2016 3:42:45 PM	27685
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	9/27/2016 3:42:45 PM	27685
Surr: DNOP	78.6	70-130		%Rec	1	9/27/2016 3:42:45 PM	27685
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/23/2016 11:17:12 AM	27657
Surr: BFB	81.2	68.3-144		%Rec	1	9/23/2016 11:17:12 AM	27657
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	9/23/2016 11:17:12 AM	27657
Toluene	ND	0.050		mg/Kg	1	9/23/2016 11:17:12 AM	27657
Ethylbenzene	ND	0.050		mg/Kg	1	9/23/2016 11:17:12 AM	27657
Xylenes, Total	ND	0.10		mg/Kg	1	9/23/2016 11:17:12 AM	27657
Surr: 4-Bromofluorobenzene	90.5	80-120		%Rec	1	9/23/2016 11:17:12 AM	27657

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	W	Sample container temperature is out of limit as specified

Analytical Report

Lab Order 1609C05

Date Reported: 9/30/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: SC-6

Project: COPC Phillips Com 1E

Collection Date: 9/20/2016 10:28:00 AM

Lab ID: 1609C05-005

Matrix: SOIL

Received Date: 9/21/2016 7:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	30		mg/Kg	20	9/27/2016 12:17:48 PM	27740
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	12	9.3		mg/Kg	1	9/27/2016 4:10:35 PM	27685
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	9/27/2016 4:10:35 PM	27685
Surr: DNOP	83.7	70-130		%Rec	1	9/27/2016 4:10:35 PM	27685
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/23/2016 11:40:43 AM	27657
Surr: BFB	79.6	68.3-144		%Rec	1	9/23/2016 11:40:43 AM	27657
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	9/23/2016 11:40:43 AM	27657
Toluene	ND	0.050		mg/Kg	1	9/23/2016 11:40:43 AM	27657
Ethylbenzene	ND	0.050		mg/Kg	1	9/23/2016 11:40:43 AM	27657
Xylenes, Total	ND	0.10		mg/Kg	1	9/23/2016 11:40:43 AM	27657
Surr: 4-Bromofluorobenzene	88.9	80-120		%Rec	1	9/23/2016 11:40:43 AM	27657

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	W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1609C05

30-Sep-16

Client: Animas Environmental

Project: COPC Phillips Com 1E

Sample ID	MB-27740	SampType	mblk	TestCode	EPA Method 300.0: Anions					
Client ID	PBS	Batch ID	27740	RunNo	37523					
Prep Date	9/27/2016	Analysis Date	9/27/2016	SeqNo	1167041	Units	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-27740	SampType	lcs	TestCode	EPA Method 300.0: Anions					
Client ID	LCSS	Batch ID	27740	RunNo	37523					
Prep Date	9/27/2016	Analysis Date	9/27/2016	SeqNo	1167042	Units	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.4	90	110			

Sample ID	1609C05-001AMSD	SampType	msd	TestCode	EPA Method 300.0: Anions					
Client ID	SC-1	Batch ID	27740	RunNo	37523					
Prep Date	9/27/2016	Analysis Date	9/27/2016	SeqNo	1167046	Units	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	130	30	15.00	111.6	146	70.8	119	16.4	20	S

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
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1609C05

30-Sep-16

Client: Animas Environmental

Project: COPC Phillips Com 1E

Sample ID	1609C05-001AMS	SampType:	MS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	SC-1	Batch ID:	27685	RunNo:	37494					
Prep Date:	9/26/2016	Analysis Date:	9/27/2016	SeqNo:	1166204	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	49.80	0	101	33.9	141			
Surr: DNOP	4.4		4.980		89.1	70	130			

Sample ID	1609C05-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	SC-1	Batch ID:	27685	RunNo:	37494					
Prep Date:	9/26/2016	Analysis Date:	9/27/2016	SeqNo:	1166205	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	9.5	47.66	0	103	33.9	141	1.61	20	
Surr: DNOP	4.4		4.766		91.4	70	130	0	0	

Sample ID	LCS-27685	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	27685	RunNo:	37494					
Prep Date:	9/26/2016	Analysis Date:	9/27/2016	SeqNo:	1166208	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	96.7	62.6	124			
Surr: DNOP	4.5		5.000		90.9	70	130			

Sample ID	MB-27685	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	27685	RunNo:	37494					
Prep Date:	9/26/2016	Analysis Date:	9/27/2016	SeqNo:	1166209	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.0		10.00		90.1	70	130			

Sample ID	MB-27707	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	27707	RunNo:	37494					
Prep Date:	9/26/2016	Analysis Date:	9/27/2016	SeqNo:	1166802	Units:	%Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.7		10.00		87.3	70	130			

Sample ID	LCS-27707	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	27707	RunNo:	37494					
Prep Date:	9/26/2016	Analysis Date:	9/27/2016	SeqNo:	1166803	Units:	%Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

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
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1609C05

30-Sep-16

Client: Animas Environmental

Project: COPC Phillips Com 1E

Sample ID	LCS-27707		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 27707		RunNo: 37494					
Prep Date:	9/26/2016		Analysis Date: 9/27/2016		SeqNo: 1166803		Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.9		5.000		98.9	70	130			

Sample ID	MB-27738		SampType:	MBLK		TestCode:	EPA Method 8015M/D: Diesel Range Organics				
Client ID:	PBS		Batch ID:	27738		RunNo:	37494				
Prep Date:	9/27/2016		Analysis Date:	9/28/2016		SeqNo:	1167146		Units: %Rec		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: DNOP	8.7		10.00		87.1	70	130				

Sample ID	LCS-27738		SampType:	LCS		TestCode:	EPA Method 8015M/D: Diesel Range Organics				
Client ID:	LCSS		Batch ID:	27738		RunNo:	37494				
Prep Date:	9/27/2016		Analysis Date:	9/28/2016		SeqNo:	1167147		Units: %Rec		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: DNOP	4.6		5.000		91.2	70	130				

Sample ID	LCS-27783		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 27783		RunNo: 37554					
Prep Date:	9/29/2016		Analysis Date: 9/29/2016		SeqNo: 1168526		Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.8		5.000		95.4	70	130			

Sample ID	MB-27783		SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS		Batch ID: 27783		RunNo: 37554					
Prep Date:	9/29/2016		Analysis Date: 9/29/2016		SeqNo: 1168527		Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	10		10.00		100	70	130			

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
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1609C05

30-Sep-16

Client: Animas Environmental

Project: COPC Phillips Com 1E

Sample ID	MB-27657	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	27657	RunNo:	37456					
Prep Date:	9/22/2016	Analysis Date:	9/23/2016	SeqNo:	1164347	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	780		1000		78.2	68.3	144			

Sample ID	LCS-27657	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	27657	RunNo:	37456					
Prep Date:	9/22/2016	Analysis Date:	9/23/2016	SeqNo:	1164348	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	25.00	0	110	74.6	123			
Surr: BFB	880		1000		87.6	68.3	144			

Sample ID	1609C05-005AMS	SampType:	MS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	SC-6	Batch ID:	27657	RunNo:	37456					
Prep Date:	9/22/2016	Analysis Date:	9/23/2016	SeqNo:	1164355	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	25.00	0	114	59.3	143			
Surr: BFB	920		1000		91.6	68.3	144			

Sample ID	1609C05-005AMSD	SampType:	MSD	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	SC-6	Batch ID:	27657	RunNo:	37456					
Prep Date:	9/22/2016	Analysis Date:	9/23/2016	SeqNo:	1164356	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	30	4.8	24.02	0	125	59.3	143	5.23	20	
Surr: BFB	860		960.6		89.9	68.3	144	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
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1609C05

30-Sep-16

Client: Animas Environmental

Project: COPC Phillips Com 1E

Sample ID	MB-27657	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	27657	RunNo:	37456					
Prep Date:	9/22/2016	Analysis Date:	9/23/2016	SeqNo:	1164360	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.90		1.000		90.1	80	120			

Sample ID	LCS-27657	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	27657	RunNo:	37456					
Prep Date:	9/22/2016	Analysis Date:	9/23/2016	SeqNo:	1164361	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.025	1.000	0	98.5	75.3	123			
Toluene	0.96	0.050	1.000	0	96.4	80	124			
Ethylbenzene	0.96	0.050	1.000	0	96.3	82.8	121			
Xylenes, Total	2.9	0.10	3.000	0	95.3	83.9	122			
Surr: 4-Bromofluorobenzene	0.94		1.000		94.1	80	120			

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
- W Sample container temperature is out of limit as specified



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: 1609C05

RcptNo: 1

Received by/date:	LM	09/21/16	
Logged By:	Michelle Garcia	9/21/2016 7:45:00 AM	Michelle Garcia
Completed By:	Michelle Garcia	9/21/2016 3:44:34 PM	Michelle Garcia
Reviewed By:	aj	09/22/16	

Chain of Custody

- | | | | |
|--|---|-----------------------------|---|
| 1. Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 2. Is Chain of Custody complete? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| 3. How was the sample delivered? | Courier | | |

Log In

- | | | | |
|--|---|--|--|
| 4. Was an attempt made to cool the samples? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 5. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 6. Sample(s) in proper container(s)? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 7. Sufficient sample volume for indicated test(s)? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 8. Are samples (except VOA and ONG) properly preserved? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 9. Was preservative added to bottles? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | NA <input type="checkbox"/> |
| 10. VOA vials have zero headspace? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | No VOA Vials <input checked="" type="checkbox"/> |
| 11. Were any sample containers received broken? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | |
| 12. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 13. Are matrices correctly identified on Chain of Custody? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 14. Is it clear what analyses were requested? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 15. Were all holding times able to be met?
(If no, notify customer for authorization.) | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |

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 <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> |
|---|------------------------------|-----------------------------|--|

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

17. Additional remarks:

18. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.8	Good	Yes			

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

September 23, 2016

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

RE: COPC Phillips COM 1E

OrderNo.: 1609B51

Dear Emilee Skyles:

Hall Environmental Analysis Laboratory received 1 sample(s) on 9/21/2016 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 qualifiers 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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental
Project: COPC Phillips COM 1E
Lab ID: 1609B51-001

Client Sample ID: SC-3
Collection Date: 9/20/2016 10:40:00 AM
Received Date: 9/21/2016 7:45:00 AM

Matrix: MEOH (SOIL)

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 418.1: TPH Analyst: MAB							
Petroleum Hydrocarbons, TR	22	19		mg/Kg	1	9/21/2016 12:00:00 PM	27625
EPA METHOD 300.0: ANIONS Analyst: LGT							
Chloride	98	30		mg/Kg	20	9/21/2016 11:18:38 AM	27630
EPA METHOD 8015D MOD: GASOLINE RANGE Analyst: AG							
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	9/21/2016 12:53:45 PM	M37365
Surr: BFB	101	70-130		%Rec	1	9/21/2016 12:53:45 PM	M37365
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: TOM							
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	9/22/2016 9:33:36 AM	27651
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	9/22/2016 9:33:36 AM	27651
Surr: DNOP	97.4	70-130		%Rec	1	9/22/2016 9:33:36 AM	27651
EPA METHOD 8260B: VOLATILES SHORT LIST Analyst: AG							
Benzene	ND	0.018		mg/Kg	1	9/21/2016 12:53:45 PM	S37365
Toluene	ND	0.037		mg/Kg	1	9/21/2016 12:53:45 PM	S37365
Ethylbenzene	ND	0.037		mg/Kg	1	9/21/2016 12:53:45 PM	S37365
Xylenes, Total	ND	0.073		mg/Kg	1	9/21/2016 12:53:45 PM	S37365
Surr: 1,2-Dichloroethane-d4	97.4	70-130		%Rec	1	9/21/2016 12:53:45 PM	S37365
Surr: 4-Bromofluorobenzene	88.3	70-130		%Rec	1	9/21/2016 12:53:45 PM	S37365
Surr: Dibromofluoromethane	112	70-130		%Rec	1	9/21/2016 12:53:45 PM	S37365
Surr: Toluene-d8	97.0	70-130		%Rec	1	9/21/2016 12:53:45 PM	S37365

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	W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1609B51

23-Sep-16

Client: Animas Environmental

Project: COPC Phillips COM 1E

Sample ID	MB-27630	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	27630	RunNo:	37376					
Prep Date:	9/21/2016	Analysis Date:	9/21/2016	SeqNo:	1161518	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-27630	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	27630	RunNo:	37376					
Prep Date:	9/21/2016	Analysis Date:	9/21/2016	SeqNo:	1161520	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.1	90	110			

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 | W Sample container temperature is out of limit as specified |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1609B51

23-Sep-16

Client: Animas Environmental
Project: COPC Phillips COM 1E

Sample ID	MB-27625	SampType:	MBLK	TestCode:	EPA Method 418.1: TPH					
Client ID:	PBS	Batch ID:	27625	RunNo:	37367					
Prep Date:	9/21/2016	Analysis Date:	9/21/2016	SeqNo:	1160961	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	ND	20								

Sample ID	LCS-27625	SampType:	LCS	TestCode:	EPA Method 418.1: TPH					
Client ID:	LCSS	Batch ID:	27625	RunNo:	37367					
Prep Date:	9/21/2016	Analysis Date:	9/21/2016	SeqNo:	1160962	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	110	20	100.0	0	109	80.7	121			

Sample ID: LCSD-27625	SampType: LCSD	TestCode: EPA Method 418.1: TPH								
Client ID: LCSS02	Batch ID: 27625	RunNo: 37367								
Prep Date: 9/21/2016	Analysis Date: 9/21/2016	SeqNo: 1160963 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	110	20	100.0	0	110	80.7	121	1.26	20	

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
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1609B51

23-Sep-16

Client: Animas Environmental
Project: COPC Phillips COM 1E

Sample ID	LCS-27651		SampType:	LCS		TestCode:	EPA Method 8015M/D: Diesel Range Organics				
Client ID:	LCSS		Batch ID:	27651		RunNo:	37383				
Prep Date:	9/22/2016		Analysis Date:	9/22/2016		SeqNo:	1161862		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	93.1	62.6	124				
Surr: DNOP	4.2		5.000		84.8	70	130				

Sample ID	MB-27651	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	27651	RunNo:	37383					
Prep Date:	9/22/2016	Analysis Date:	9/22/2016	SeqNo:	1161863	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.2		10.00		92.3	70	130			

Sample ID	1609B51-001AMS		SampType:	MS		TestCode:	EPA Method 8015M/D: Diesel Range Organics				
Client ID:	SC-3		Batch ID:	27651		RunNo:	37383				
Prep Date:	9/22/2016		Analysis Date:	9/22/2016		SeqNo:	1161866		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	52	9.9	49.46	4.608	96.4	33.9	141				
Surr: DNOP	4.7		4.946		94.3	70	130				

Sample ID	1609B51-001AMSD		SampType:	MSD		TestCode:	EPA Method 8015M/D: Diesel Range Organics				
Client ID:	SC-3		Batch ID:	27651		RunNo:	37383				
Prep Date:	9/22/2016		Analysis Date:	9/22/2016		SeqNo:	1161873		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	48	9.2	46.00	4.608	94.2	33.9	141	8.59	20		
Surr: DNOP	4.3		4.600		93.3	70	130	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
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1609B51

23-Sep-16

Client: Animas Environmental
Project: COPC Phillips COM 1E

Sample ID	100ng lcs	SampType:	LCS	TestCode:	EPA Method 8260B: Volatiles Short List					
Client ID:	LCSS	Batch ID:	S37365	RunNo:	37365					
Prep Date:		Analysis Date:	9/21/2016	SeqNo:	1160917	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	104	70	130			
Toluene	0.93	0.050	1.000	0	92.7	70	130			
Surr: 1,2-Dichloroethane-d4	0.51		0.5000		103	70	130			
Surr: 4-Bromofluorobenzene	0.48		0.5000		96.0	70	130			
Surr: Dibromofluoromethane	0.48		0.5000		96.7	70	130			
Surr: Toluene-d8	0.49		0.5000		98.0	70	130			

Sample ID	rb	SampType:	MBLK	TestCode:	EPA Method 8260B: Volatiles Short List					
Client ID:	PBS	Batch ID:	S37365	RunNo:	37365					
Prep Date:		Analysis Date:	9/21/2016	SeqNo:	1160918	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.50		0.5000		100	70	130			
Surr: 4-Bromofluorobenzene	0.49		0.5000		98.1	70	130			
Surr: Dibromofluoromethane	0.50		0.5000		99.6	70	130			
Surr: Toluene-d8	0.49		0.5000		97.5	70	130			

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
W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1609B51

23-Sep-16

Client: Animas Environmental

Project: COPC Phillips COM 1E

Sample ID: 2.5ug gro lcs	SampType: LCS		TestCode: EPA Method 8015D Mod: Gasoline Range							
Client ID: LCSS	Batch ID: M37365		RunNo: 37365							
Prep Date:	Analysis Date: 9/21/2016		SeqNo: 1160923		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	95.2	62.9	123			
Surr: BFB	500		500.0		100	70	130			

Sample ID	rb	SampType:	MBLK			TestCode:	EPA Method 8015D Mod: Gasoline Range				
Client ID:	PBS	Batch ID:	M37365			RunNo:	37365				
Prep Date:		Analysis Date:	9/21/2016			SeqNo:	1160924	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	490		500.0		97.3	70	130				

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
W Sample container temperature is out of limit as specified

Sample Log-In Check List

Client Name: Animas Environmental

Work Order Number: 1609B51

RcptNo: 1

Received by/date:	<i>[Signature]</i>	09/21/16
Logged By:	Lindsay Mangin	9/21/2016 7:45:00 AM
Completed By:	Lindsay Mangin	9/21/2016 8:38:17 AM
Reviewed By:	<i>[Signature]</i>	09/21/16

Chain of Custody

- Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒
- Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
- How was the sample delivered? Courier

Log In

- Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
- Were all samples received at a temperature of >0° C to 6.0°C Yes ☒ No ☐ NA ☐
- Sample(s) in proper container(s)? Yes ☒ No ☐
- Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
- Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
- Was preservative added to bottles? Yes ☐ No ☒ NA ☐
- VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
- Were any sample containers received broken? Yes ☐ No ☒
- Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
- Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
- Is it clear what analyses were requested? Yes ☒ No ☐
- 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)

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

Person Notified:	_____	Date:	_____
By Whom:	_____	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	_____		
Client Instructions:	_____		

- Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.8	Good	Yes			

Client: Animas Environmental Services, LLC

Mailing Address: 604 W Pinon St.

Farmington, NM 87401

Phone #: 505-564-2281

Email or Fax#: eskyles@animasenvironmental.com

IA/QC Package:

☒ Standard ☐ Level 4 (Full Validation)

accreditation:

☒ NELAP ☐ Other

EDD (Type)

☐ Standard ☒ Rush Same Day

Project Name:

Project #:

COPC PHILLIPS COM 1E

Project Manager:

E. Skyles

Sampler: S. Glasses

On Ice: ☒ Yes ☐ No

Sample Temperature: 1.8

[illegible]

ate:	Time:	Relinquished by:
1/20/16	1810	A. J. [Signature]

ate:	Time:	Relinquished by:
12/14	2014	Christa Walker

Received by:	Date	Time
<i>[Signature]</i>	9/20/14	1810

Received by:  Date: 09/21/16 Time: 0745

Remarks: Bill to Conoco Phillips
WO # 21340555
Supervisor: Schaaphok
USERID: GARRECD
Area: 1
Ordered by: Bobby Spearman

per ES
Analyze TPH by
8015 JWB 9/6/16

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.