

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

MAY 18 2016

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 <b>ConocoPhillips Company</b>	Contact <b>Lisa Hunter</b>
Address <b>3401 East 30<sup>th</sup> St, Farmington, NM</b>	Telephone No. <b>(505) 258-1607</b>
Facility Name: <b>San Juan 29-6 Unit 94M</b>	Facility Type: <b>Gas Well</b>
Surface Owner <b>State</b>	Mineral Owner <b>State (E-289-26339)</b>
API No. <b>3003926339</b>	

## LOCATION OF RELEASE

Unit Letter <b>F</b>	Section <b>16</b>	Township <b>29N</b>	Range <b>06W</b>	Feet from the <b>2370</b>	North/South Line <b>North</b>	Feet from the <b>1845</b>	East/West Line <b>West</b>	County <b>Rio Arriba</b>
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Latitude 36.72618 Longitude -107.47095

## NATURE OF RELEASE

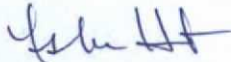
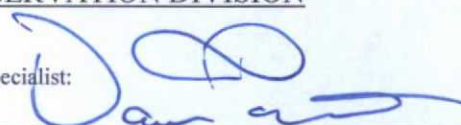
Type of Release <b>Hydrocarbon &amp; Produced Water</b>	Volume of Release <b>103bbb/10.5bbl</b>	Volume Recovered <b>0bbl</b>
Source of Release <b>Production Tank</b>	Date and Hour of Occurrence <b>Unknown</b>	Date and Hour of Discovery <b>02/24/16 @ 12:30 PM</b>
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? <b>Cory Smith, OCD</b>	
By Whom? <b>Lisa Hunter</b>	Date and Hour <b>02/25/16 @ 10:39 a.m</b>	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. <b>N/A</b>	
If a Watercourse was Impacted, Describe Fully.* <b>N/A</b>		
Describe Cause of Problem and Remedial Action Taken.* <b>During routine tank gauging, a total of 113.5bbl of production missing from production tank from previous month's gauge. No visible evidence of release on surface. No product recovered.</b>		

Describe Area Affected and Cleanup Action Taken.\*

ConocoPhillips will assess the soil to determine a path forward for clean-up. Excavation was 67' x 83' x 2-5' deep, terminating at sandstone. Approximately 823 c/yds of contaminated soil was transported to IEI Land Farm. Base was sprayed with a microbial agent on April 13<sup>th</sup> and resampled on April 15<sup>th</sup>. Laboratory results reported total BTEX and TPH were below NMOCD Action Levels. Excavation was backfilled. No further action required. The soil sampling report is attached for review.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

## OIL CONSERVATION DIVISION

Signature: 	Approved by Environmental Specialist: 	
Printed Name: <b>Lisa Hunter</b>	Approval Date: <b>04/05/2016</b>	Expiration Date:
Title: <b>Field Environmental Specialist</b>	Conditions of Approval:	
E-mail Address: <b>Lisa.Hunter@cop.com</b>	Attached <input type="checkbox"/>	
Date: <b>May 16, 2016</b> Phone: <b>(505) 258-1607</b>		

\* Attach Additional Sheets If Necessary

**NCS1605638706**



May 9, 2016

Lisa Hunter  
ConocoPhillips  
San Juan Business Unit  
(505) 326-9786

*Via electronic mail to:*  
[SJBUE-Team@ConocoPhillips.com](mailto:SJBUE-Team@ConocoPhillips.com)

**RE: Release Assessment and Final Excavation Report  
San Juan 29-6 Unit #94M  
Rio Arriba County, New Mexico**

Dear Ms. Hunter:

On March 8, April 5, and April 15, 2016, Animas Environmental Services, LLC (AES) completed an initial release assessment and environmental clearance of the final excavation limits at the ConocoPhillips (COPC) San Juan 29-6 Unit #94M, located in Rio Arriba County, New Mexico. The release consisted of approximately 113.5 barrels (bbls) of produced water and condensate and was the result of a corrosion hole on the bottom of the condensate tank at the location. The initial release assessment was completed by AES on March 8, 2016, and the final clearance of the excavation area was completed on April 15, 2016.

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## 1.0 Site Information

### 1.1 Location

Site Name – San Juan 29-6 Unit #94M  
Location – SE¼ NW¼, Section 16, T29N, R6W, Rio Arriba County, New Mexico  
Well Head Latitude/Longitude – N36.72643 and W107.47102, respectively  
Release Location Latitude/Longitude – N36.72618 and W107.47095, respectively  
Land Jurisdiction – State of New Mexico  
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 200  
Durango, CO 81301  
970-403-3084



## 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 0 based on the following factors:

- **Depth to Groundwater:** A cathodic protection report form dated January 1993 for the San Juan 29-6 #258, located approximately 1,700 feet south and 70 feet lower in elevation than the location, reported the depth to groundwater at 110 feet below ground surface (bgs). (0 points)
- **Wellhead Protection Area:** The release location is not within a wellhead protection area. (0 points)
- **Distance to Surface Water Body:** An unnamed ephemeral wash which ultimately discharges to Gobernador Canyon Wash is located approximately 750 feet east of the location. However, based on COPC correspondence with Cory Smith of the NMOCD, a ranking of 0 was approved for the distance to surface water. (0 points)

## 1.3 Assessment

AES was initially contacted by Lisa Hunter of COPC on March 1, 2016, and on March 8, 2016, Corwin Lameman and Delilah Dougi of AES completed the release assessment field work. The assessment included collection and field sampling of 31 soil samples from 21 borings in and around the release area. Soil borings were terminated between 0.25 and 4.5 feet below grade. Based on field sampling results, AES recommended excavation of the release area. Sample locations are shown on Figure 3.

On April 5, 2016, AES returned to the location to collect confirmation soil samples of the excavation. The field sampling activities included collection of seven confirmation soil samples (SC-1 through SC-7) from the walls and base of the excavation. The area of the final excavation measured approximately 67 feet by 83 feet by 2 to 5 feet in depth. The depth of the excavation was limited due to a confining sandstone unit about 2 to 5 feet bgs. Two final confirmation soil samples from the base (SC-8 and SC-9) were collected on April 15, 2016, following application of Quantum Growth™. Sample locations and final excavation extents are presented on Figure 4.

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## 2.0 Soil Sampling

A total of 31 soil samples from 21 borings (SB-1 through SB-21, SB-1D, and SB-9D) plus nine composite samples (SC-1 through SC-9) 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). Two samples (SB-1D and SB-9D) collected during the initial assessment and nine composite samples (SC-1 through SC-9) collected during the excavation clearance were submitted for confirmation laboratory analysis.

## **2.1 Field Sampling**

### **2.1.1 Volatile Organic Compounds**

Field screening for VOC vapors was conducted with a photo-ionization detector (PID) organic vapor meter (OVM). Before beginning field screening, the PID-OVM was first calibrated with 100 parts per million (ppm) isobutylene gas.

### **2.1.2 Total Petroleum Hydrocarbons**

Field TPH samples were analyzed per U.S. Environmental Protection Agency (USEPA) Method 418.1 using a Buck Scientific Model HC-404 Total Hydrocarbon Analyzer Infrared Spectrometer (Buck). A 3-point calibration was completed prior to conducting soil analyses. Field analytical protocol followed AES's *Standard Operating Procedure: Field Analysis Total Petroleum Hydrocarbons per EPA Method 418.1*.

## **2.2 Laboratory Analyses**

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

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

In addition, soil samples SC-1 through SC-7 were laboratory analyzed for:

- Chlorides per USEPA Method 300.0.

## **2.3 Field and Laboratory Analytical Results**

On March 8, 2016, initial assessment field screening results for VOCs via OVM showed concentrations ranging from 0.0 ppm in SB-4, SB-8, SB-20, and SB-21, up to 4,754 ppm in SB-16. Field TPH concentrations ranged from 37.0 mg/kg in SB-11 up to 13,600 mg/kg in SB-1.



On April 5 and 15, 2016, final excavation field screening results for VOCs via OVM ranged from 40.4 ppm in SC-2 up to 4,500 ppm in SC-6. Field TPH concentrations ranged from 24.8 mg/kg in SC-4 up to 2,240 mg/kg in SC-6. Results are included below in Table 1 and on Figures 3 and 4. The AES Field Sampling Reports are attached.

Table 1. Soil Field VOCs and TPH Results  
San Juan 29-6 Unit #94M Initial Release Assessment and Final Excavation  
March and April 2016

<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>			<i>100</i>	<i>5,000</i>
SB-1	3/8/16	4.5	<b>4,336</b>	<b>13,600</b>
SB-1D	3/8/16	4.5	NA	NA
SB-2	3/8/16	0.5	<b>4,024</b>	NA
		1.5	<b>3,187</b>	<b>6,170</b>
SB-3	3/8/16	0.5	<b>3,897</b>	NA
		1.0	<b>4,350</b>	<b>7,090</b>
SB-4	3/8/16	0.5	0.0	NA
		0.75	4.7	50.5
SB-5	3/8/16	0.75	<b>3,474</b>	<b>10,300</b>
SB-6	3/8/16	0.75	<b>4,181</b>	2,050
SB-7	3/8/16	0.75	4.2	75.8
SB-8	3/8/16	0.5	0.0	60.6
SB-9	3/8/16	0.5	<b>2,740</b>	<b>10,900</b>
SB-9D	3/8/16	0.5	NA	NA
SB-10	3/8/16	0.5	3.1	52.2
SB-11	3/8/16	0.5	6.1	37.0
SB-12	3/8/16	0.5	11.0	NA
		2.0	19.9	NA
		4.0	<b>151</b>	40.4
		4.25	<b>339</b>	40.4
SB-13	3/8/16	0.75	42.3	42.0
SB-14	3/8/16	1.0	<b>1,950</b>	NR
SB-15	3/8/16	0.75	NR	NR

<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>			<b>100</b>	<b>5,000</b>
SB-16	3/8/16	0.25	<b>4,754</b>	<b>10,200</b>
SB-17	3/8/16	0.5	24.7	99.5
SB-18	3/8/16	0.5	53.9	72.4
SB-19	3/8/16	0.5	<b>4,718</b>	NA
		2.0	<b>3,903</b>	1,520
SB-20	3/8/16	0.5	0.0	NA
		1.5	1.6	64.0
SB-21	3/8/16	0.75	0.0	52.2
SC-1	4/5/16	0 to 5	<b>577</b>	80.7
SC-2	4/5/16	0 to 5	40.4	55.9
SC-3	4/5/16	0 to 4	<b>164</b>	41.9
SC-4	4/5/16	0 to 2	<b>638</b>	24.8
SC-5	4/5/16	0 to 4	50.2	29.5
SC-6	4/5/16	2 to 4	<b>4,500</b>	2,240
SC-7	4/5/16	2 to 5	<b>4,495</b>	2,190
SC-8	4/15/16	2 to 4	55.9	27.6
SC-9	4/15/16	2 to 5	<b>1,940</b>	579

NA - not analyzed

NR - no recovery

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

Laboratory analyses for SB-1D and SB-9D were used to confirm field sampling results of the initial release assessment. Benzene concentrations were reported below laboratory detection limits in SB-1D and at 6.8 mg/kg in SB-9D. However, total BTEX concentrations were reported as 243 mg/kg (SB-1D) and 787 mg/kg (SB-9D). TPH concentrations as GRO/DRO were reported in SB-1D at 4,800 mg/kg and in SB-9D at 6,900 mg/kg.

Laboratory analyses for SC-1 through SC-9 were used to confirm field sampling results from the final excavation. Benzene concentrations were reported below laboratory detection limits in all samples except SC-2 (0.041 mg/kg). Total BTEX concentrations varied from below laboratory detection limits in SC-4 and SC-5 up to 148 mg/kg in SC-6. TPH concentrations as GRO/DRO ranged from below the laboratory detection limits in SC-4 and SC-5 up to 2,670 mg/kg in SC-7. Chloride concentrations of SC-1 through SC-7 were all



reported below laboratory detection limits (30 mg/kg) except SC-2 (39 mg/kg). Results are presented in Table 2 and on Figure 4. The laboratory analytical reports are attached.

Table 2. Laboratory Analytical Results – Benzene, Total BTEX, TPH, and Chlorides  
San Juan 29-6 Unit #94M Initial Release Assessment and Final Excavation  
March and April 2016

<b>Sample ID</b>	<b>Date Sampled</b>	<b>Sample Depth (ft bgs)</b>	<b>Benzene (mg/kg)</b>	<b>Total BTEX (mg/kg)</b>	<b>GRO (mg/kg)</b>	<b>DRO (mg/kg)</b>	<b>Chlorides (mg/kg)</b>
<b>NMOCD Action Level*</b>			<b>10</b>	<b>50</b>	<b>5,000</b>		<b>250</b>
SB-1D	3/8/16	4.5	<0.74	<b>243</b>	2,900	1,900	NA
SB-9D	3/8/16	0.5	6.8	<b>787</b>	<b>5,600</b>	<b>1,300</b>	NA
SC-1	4/5/16	0 to 5	<0.018	0.46	17	50	<30
SC-2	4/5/16	0 to 5	0.041	0.45	5.1	17	39
SC-3	4/5/16	0 to 4	<0.021	0.43	5.0	12	<30
SC-4	4/5/16	0 to 2	<0.017	<0.154	<3.4	<9.9	<30
SC-5	4/5/16	0 to 4	<0.017	<0.153	<3.4	<9.6	<30
SC-6	4/5/16	2 to 4	<0.88	<b>148</b>	1,500	870	<30
SC-7	4/5/16	2 to 5	<1.0	<b>141</b>	1,700	970	<30
SC-8	4/15/16	2 to 4	<0.016	0.11	8.8	28	NA
SC-9	4/15/16	2 to 5	<0.076	40	760	500	NA

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 March 8, 2016, AES conducted an initial assessment of petroleum contaminated soils associated with a historic release of produced water and condensate at the San Juan 29-6 Unit #94M. 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 0.

Initial assessment field sampling results above the NMOCD action level of 100 ppm VOCs and 5,000 mg/kg TPH were reported in SB-1, SB-2, SB-3, SB-5, SB-6, SB-9, SB-12, SB-14, SB-16, and SB-19. The highest VOC concentration was reported in SB-16 with 4,754 ppm, and the highest TPH concentration was reported in SB-1 with 13,600 mg/kg.

Laboratory analyses for SB-1D and SB-9D were used to confirm field sampling results. Benzene concentrations were reported below the NMOCD action level of 10 mg/kg in both samples; however, total BTEX concentrations exceeded the NMOCD action level of 50 mg/kg in SB-1D with 243 mg/kg and SB-9D with 787 mg/kg. TPH concentrations as GRO/DRO exceeded the NMOCD action level of 5,000 mg/kg in SB-9D with 6,900 mg/kg.

On April 5, 2016, final excavation of the impacted area was completed. Field sampling results of the excavation extents showed that VOC concentrations exceeded applicable NMOCD action levels for the final walls and base of the excavation, except for SC-2 (southwest wall), SC-5 (northeast wall), and SC-8 (north base), which had VOC concentrations of 40.4 ppm, 50.2 ppm and 55.8 ppm, respectively. In contrast, field TPH concentrations were below the applicable NMOCD action level of 5,000 mg/kg for all of the final walls and base of the excavation. Laboratory analytical results reported benzene, total BTEX, and TPH concentrations (as GRO/DRO) below applicable NMOCD action levels in all samples except total BTEX for the two excavation base samples, at 148 mg/kg (SC-6) and 141 mg/kg (SC-7). Final excavation extents measured 67 ft by 83 ft by 2 to 5 ft and was terminated on sandstone.

Quantum Growth™ was applied to the base of the excavation on April 13, 2016, and two additional confirmation samples (SC-8 and SC-9) were collected on April 15, 2016. Field sampling results for SC-8 and SC-9 reported VOC concentrations above applicable NMOCD action levels for SC-9, at 1,940 ppm. However, laboratory analytical results reported benzene, total BTEX, and TPH concentrations below applicable NMOCD action levels in both SC-8 and SC-9.

Based on final field sampling and laboratory analytical results of the excavation of petroleum contaminated soils at the San Juan 29-6 Unit #94M, benzene, total BTEX, and TPH concentrations were below applicable NMOCD action levels for each of the sidewalls and base of the excavation. No further work is recommended.

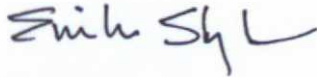
If you have any questions about this report or site conditions, please do not hesitate to contact Emilee Skyles at (505) 564-2281.

Sincerely,

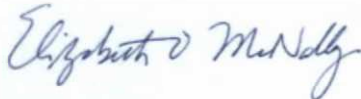


David J. Reese  
Environmental Scientist





Emilee Skyles  
Geologist/Project Lead



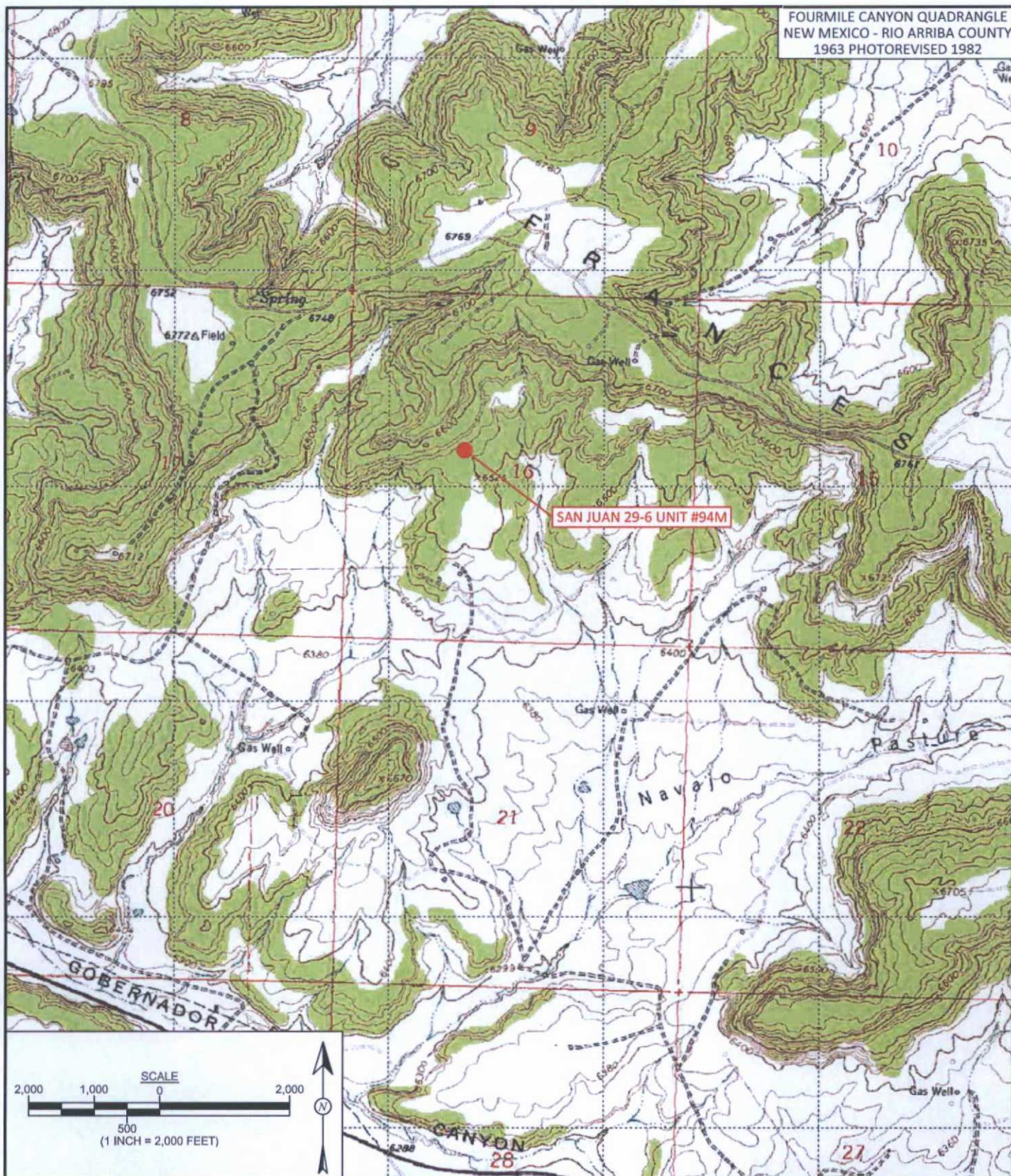
Elizabeth McNally, PE

Attachments:

- Figure 1. Topographic Site Location Map
- Figure 2. Aerial Site Map, March 2016
- Figure 3. Release Assessment Sample Locations and Results, March 2016
- Figure 4. Final Excavation Clearance Sample Locations and Results, April 2016
- AES Field Sampling Report 030816
- AES Field Sampling Report 040516
- AES Field Sampling Report 041516
- Hall Laboratory Analytical Report 1603522
- Hall Laboratory Analytical Report 1604155
- Hall Laboratory Analytical Report 1604706

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Dropbox\2016 Client Projects\ConocoPhillips\SJ 29-6 Unit #94M\San Juan 29-6 Unit #94M Release and Final  
Excavation Report 050316 ems EM.docx





**FIGURE 1**

**TOPOGRAPHIC SITE LOCATION MAP**

ConocoPhillips  
SAN JUAN 29-6 UNIT #94M  
SE¼ NW¼, SECTION 16, T29N, R6W  
RIO ARRIBA COUNTY, NEW MEXICO  
N36.72643, W107.47102



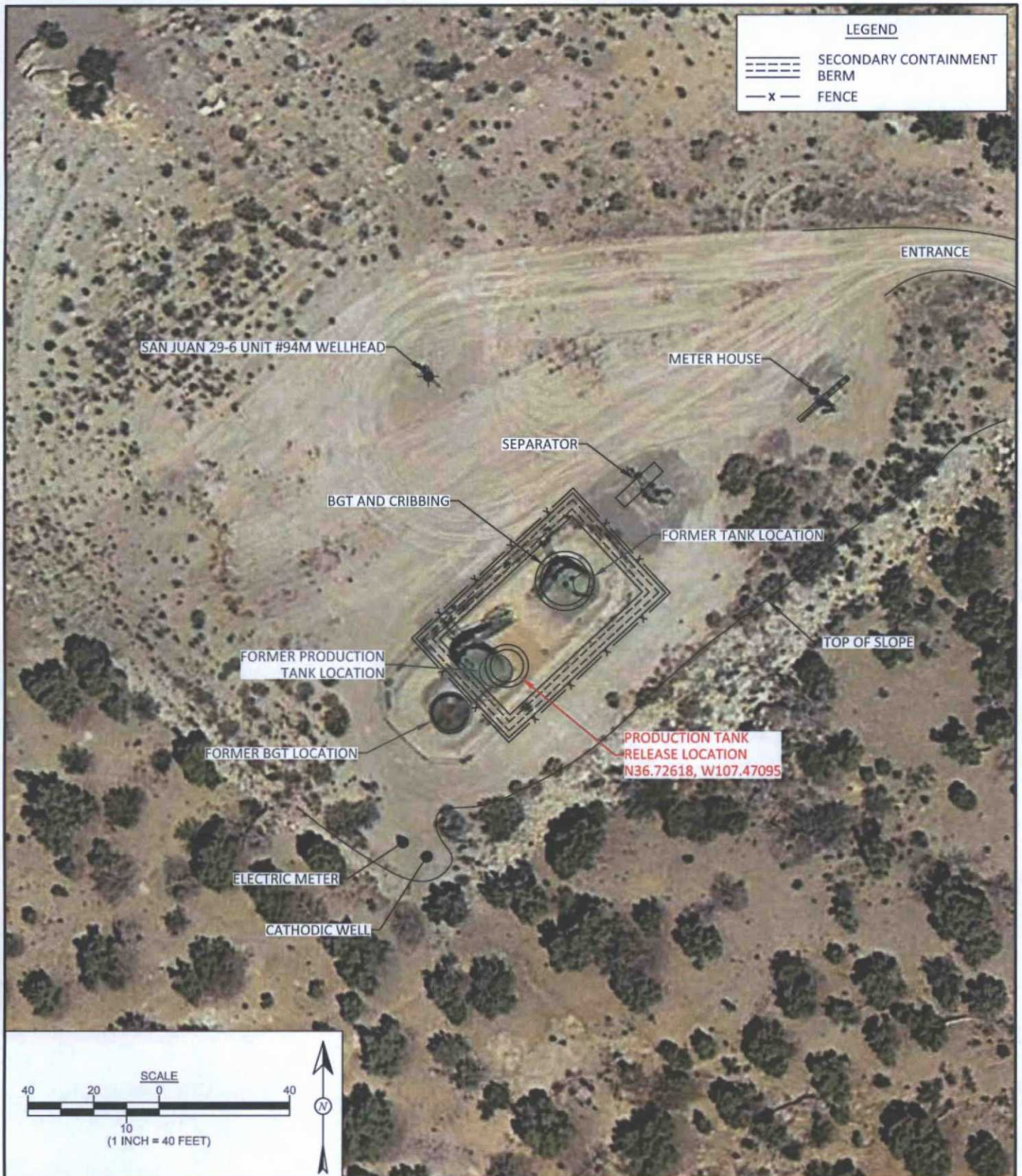
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environmental  
services**

Farmington, NM • Durango, CO  
animasenvironmental.com

<b>DRAWN BY:</b> C. Lameman	<b>DATE DRAWN:</b> April 7, 2016
<b>REVISIONS BY:</b> C. Lameman	<b>DATE REVISED:</b> April 22, 2016
<b>CHECKED BY:</b> E. Skyles	<b>DATE CHECKED:</b> April 22, 2016
<b>APPROVED BY:</b> E. McNally	<b>DATE APPROVED:</b> April 22, 2016



LEGEND	
	SECONDARY CONTAINMENT BERM
	FENCE



**FIGURE 2**

**AERIAL SITE MAP  
MARCH 2016**

ConocoPhillips  
SAN JUAN 29-6 UNIT #94M  
SE¼ NW¼, SECTION 16, T29N, R6W  
RIO ARriba COUNTY, NEW MEXICO  
N36.72643, W107.47102



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services**

Farmington, NM • Durango, CO  
animasenvironmental.com

**DRAWN BY:**  
C. Lameman

**DATE DRAWN:**  
April 7, 2016

**REVISIONS BY:**  
C. Lameman

**DATE REVISED:**  
April 26, 2016

**CHECKED BY:**  
E. Skyles

**DATE CHECKED:**  
April 26, 2016

**APPROVED BY:**  
E. McNally

**DATE APPROVED:**  
April 26, 2016



Field Sampling Results				
Sample ID	Date	Depth (ft)	OVMPID (ppm)	TPH (mg/kg)
NMOCD ACTION LEVEL		100	5,000	
SB-1	3/8/16	4.5	4,336	13,600
SB-1D	3/8/16	4.5	NA	NA
SB-2	3/8/16	0.5	4,024	NA
		1.5	3,187	6,170
SB-3	3/8/16	0.5	3,897	NA
		1.0	4,350	7,090
SB-4	3/8/16	0.5	0.0	NA
		0.75	4.7	50.5
SB-5	3/8/16	0.75	3,474	10,300
SB-6	3/8/16	0.75	4,181	2,050
SB-7	3/8/16	0.75	4.2	75.8
SB-8	3/8/16	0.5	0.0	60.6
SB-9	3/8/16	0.75	2,740	10,900
SB-9D	3/8/16	0.75	NA	NA
SB-10	3/8/16	0.5	3.1	52.2
SB-11	3/8/16	0.5	6.1	37.0
		0.5	11.0	NA
		2.0	19.9	NA
		4.0	151	40.4
SB-12	3/8/16	4.25	339	40.4
SB-13	3/8/16	0.75	42.3	42.0
SB-14	3/8/16	1.0	1,950	NR
SB-15	3/8/16	0.75	NR	NR
SB-16	3/8/16	0.25	4,754	10,200
SB-17	3/8/16	0.5	24.7	99.5
SB-18	3/8/16	0.5	53.9	72.4
		0.5	4,718	NA
SB-19	3/8/16	2.0	3,903	1,520
SB-20	3/8/16	0.5	0.0	NA
		1.5	1.6	64.0
SB-21	3/8/16	0.75	0.0	52.2

NA - NOT ANALYZED  
NR - NO RECOVERY

Laboratory Analytical Results					
Sample ID	Date	Depth (ft)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH - GRO (mg/kg)
NMOCD ACTION LEVEL			10	50	5,000
SB-1D	3/8/16	4.5	<0.74	243	2,900
SB-9D	3/8/16	0.5	6.8	787	5,600

ALL SAMPLES WERE ANALYZED PER USEPA METHOD 8021B AND 8015D.

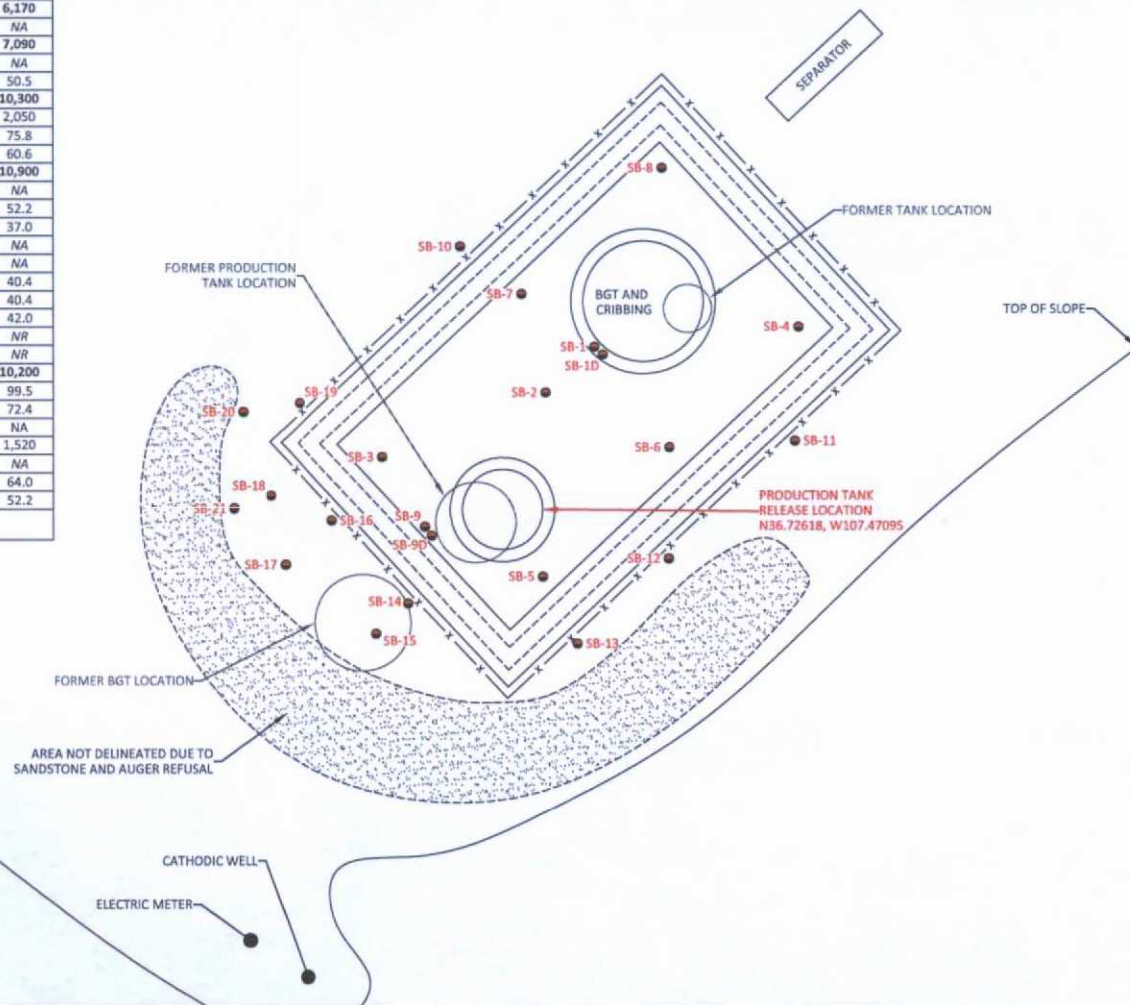


FIGURE 3

RELEASE ASSESSMENT SAMPLE LOCATIONS AND RESULTS MARCH 2016

ConocoPhillips  
SAN JUAN 29-6 UNIT #94M  
SE¼ NW¼, SECTION 16, T29N, R6W  
RIO ARriba COUNTY, NEW MEXICO  
N36.72643, W107.47102

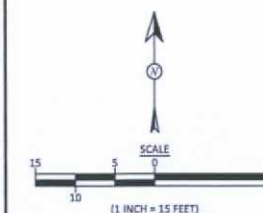


animas environmental services  
Farmington, NM • Durango, CO  
animasenvironmental.com

DRAWN BY: C. Lameman	DATE DRAWN: March 9, 2016
REVISIONS BY: C. Lameman	DATE REVISED: April 22, 2016
CHECKED BY: E. Skyles	DATE CHECKED: April 22, 2016
APPROVED BY: E. McNally	DATE APPROVED: April 22, 2016

LEGEND

- SOIL BORING LOCATIONS
- SECONDARY CONTAINMENT BERM
- x- FENCE





Field Sampling Results				
Sample ID	Date	Depth (ft)	OVM-PID (ppm)	TPH (mg/kg)
NMOCD ACTION LEVEL			100	5,000
SC-1	4/5/16	0 to 5	577	80.7
SC-2	4/5/16	0 to 5	40.4	55.9
SC-3	4/5/16	0 to 4	164	41.9
SC-4	4/5/16	0 to 2	638	24.8
SC-5	4/5/16	0 to 4	50.2	29.5
SC-6	4/5/16	2 to 4	4,500	2,240
SC-7	4/5/16	2 to 5	4,495	2,190
SC-8	4/15/16	2 to 4	55.9	27.6
SC-9	4/15/16	2 to 5	1,940	579

ALL SAMPLES WERE COMPOSITE SAMPLES.

Preliminary Laboratory Analytical Results							
Sample ID	Date	Depth (ft)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH - GRO (mg/kg)	TPH - DRO (mg/kg)	Chlorides (mg/kg)
NMOCD ACTION LEVEL			10	50	5,000		250
SC-1	4/5/16	0 to 5	<0.018	0.46	17	50	<30
SC-2	4/5/16	0 to 5	0.041	0.45	5.1	17	39
SC-3	4/5/16	0 to 4	<0.021	0.43	5.0	12	<30
SC-4	4/5/16	0 to 2	<0.017	<0.154	<3.4	<9.9	<30
SC-5	4/5/16	0 to 4	<0.017	<0.153	<3.4	<9.6	<30
SC-6	4/5/16	2 to 4	<0.88	148	1,500	870	<30
SC-7	4/5/16	2 to 5	<1.0	141	1,700	970	<30
SC-8	4/15/16	2 to 4	<0.016	0.11	8.8	28	NA
SC-9	4/15/16	2 to 5	<0.076	40	760	500	NA

ALL SAMPLES WERE ANALYZED PER USEPA METHOD 8021B, 8015D, AND 300.0.  
NA - NOT ANALYZED

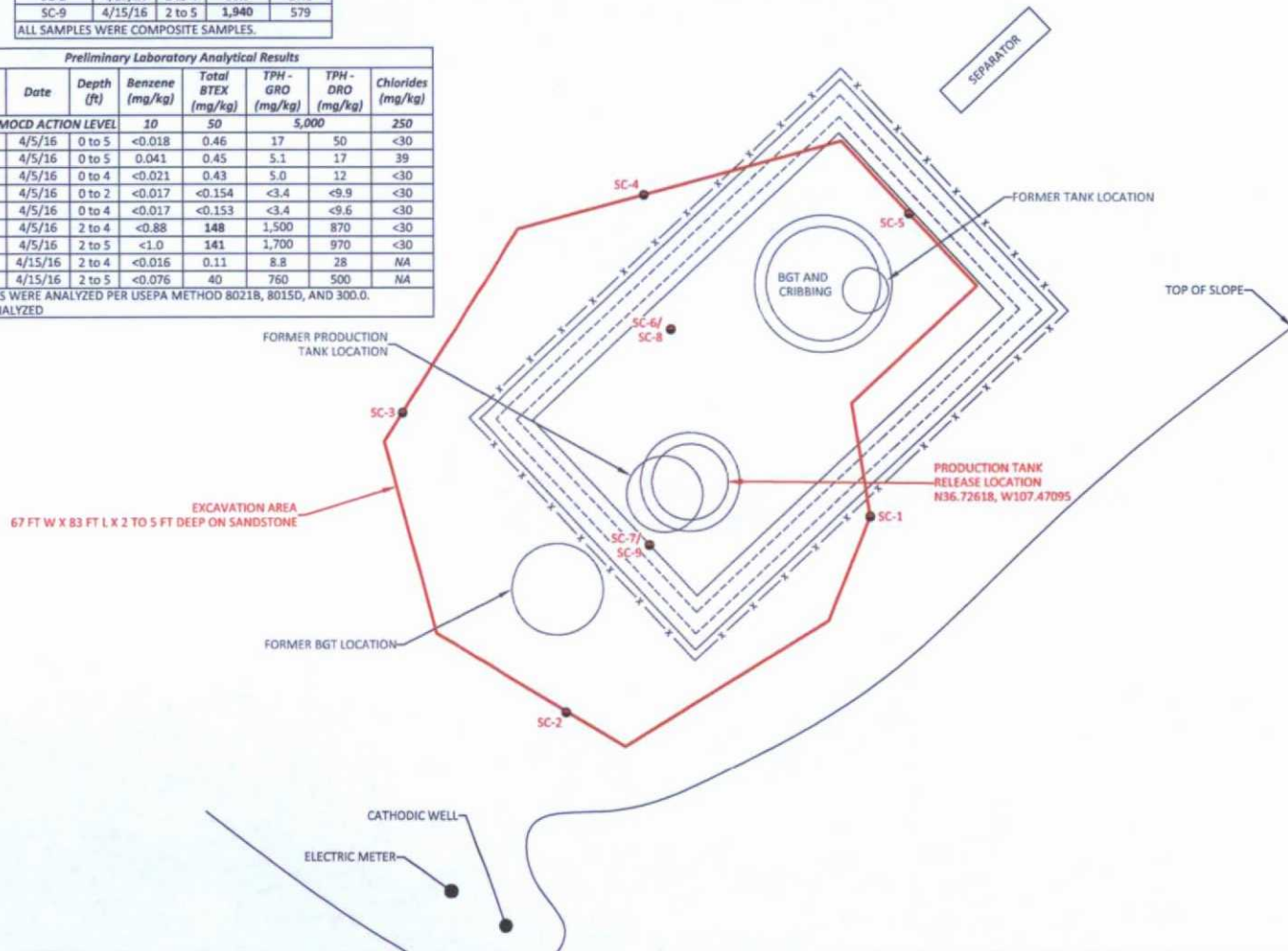


FIGURE 4

# FINAL EXCAVATION CLEARANCE SAMPLE LOCATIONS AND RESULTS APRIL 2016

ConocoPhillips  
SAN JUAN 29-6 UNIT #94M  
SE 1/4 NW 1/4, SECTION 16, T29N, R6W  
RIO ARriba COUNTY, NEW MEXICO  
N36.72643, W107.47102



animas  
environmental  
services

Farmington, NM • Durango, CO  
animasenvironmental.com

DRAWN BY:  
C. Lameman

DATE DRAWN:  
April 6, 2016

REVISIONS BY:  
C. Lameman

DATE REVISED:  
April 26, 2016

CHECKED BY:  
E. Skyles

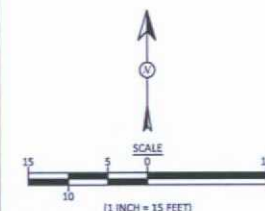
DATE CHECKED:  
April 26, 2016

APPROVED BY:  
E. McNally

DATE APPROVED:  
April 26, 2016

## LEGEND

- SAMPLE LOCATIONS
- SECONDARY CONTAINMENT BERM
- x- FENCE



# AES Field Sampling Report

Animas Environmental Services, LLC



Client: ConocoPhillips

Project Location: San Juan 29-6 Unit #94M

Date: 3/8/2016

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 @ 4.5'	3/8/2016	10:05	4,336	13,617	12:39	420	21	CL
SB-2 @ 0.5'	3/8/2016	10:16	4,024	Not Analyzed for TPH				
SB-2 @ 1.5'	3/8/2016	10:22	3,187	6,168	12:49	420	21	CL
SB-3 @ 0.5'	3/8/2016	10:30	3,897	Not Analyzed for TPH				
SB-3 @ 1'	3/8/2016	10:36	4,350	7,090	12:57	420	21	CL
SB-4 @ 0.5'	3/8/2016	10:39	0.0	Not Analyzed for TPH				
SB-4 @ 0.75'	3/8/2016	10:42	4.7	50.5	13:15	20.0	1	CL
SB-5 @ 0.75'	3/8/2016	10:51	3,474	10,318	13:23	420	21	CL
SB-6 @ 0.75'	3/8/2016	11:00	4,181	2,047	13:28	20.0	1	CL
SB-7 @ 0.75'	3/8/2016	11:08	4.2	75.8	13:33	20.0	1	CL
SB-8 @ 0.5'	3/8/2016	11:13	0.0	60.6	13:38	20.0	1	CL
SB-9 @ 0.75'	3/8/2016	11:55	2,740	10,921	13:10	420	21	CL
SB-10 @ 0.5'	3/8/2016	12:01	3.1	52.2	13:43	20.0	1	CL
SB-11 @ 0.5'	3/8/2016	12:10	6.1	37.0	14:19	20.0	1	CL



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-12 @ 0.5'	3/8/2016	12:15	11.0	Not Analyzed for TPH				
SB-12 @ 2.0'	3/8/2016	12:19	19.9	Not Analyzed for TPH				
SB-12 @ 4.0'	3/8/2016	12:24	151	40.4	14:24	20.0	1	CL
SB-12 @ 4.25'	3/8/2016	12:30	339	40.4	14:32	20.0	1	CL
SB-13 @ 0.75'	3/8/2016	12:55	42.3	42.0	14:42	20.0	1	CL
SB-14 @ 1'	3/8/2016	--	1,950	No Recovery Due to Gravel				
SB-15 @ 0.75'	3/8/2016	--	NA	No Recovery Due to Gravel				
SB-16 @ 0.25'	3/8/2016	14:45	4,754	10,176	15:24	420	21	CL
SB-17 @ 0.5'	3/8/2016	14:55	24.7	100	16:12	20.0	1	CL
SB-18 @ 0.5'	3/8/2016	14:56	53.9	72.4	16:16	20.0	1	CL
SB-19 @ 0.5'	3/8/2016	15:01	4,718	Not Analyzed for TPH				
SB-19 @ 2'	3/8/2016	15:05	3,903	1,522	16:21	20.0	1	CL
SB-20 @ 0.5'	3/8/2016	15:10	0.0	Not Analyzed for TPH				
SB-20 @ 1.5'	3/8/2016	15:20	1.6	64.0	16:01	20.0	1	CL
SB-21 @ 0.75'	3/8/2016	15:24	0.0	52.2	16:05	20.0	1	CL

DF Dilution Factor

NA Not Analyzed

PQL Practical Quantitation Limit

\*Field TPH concentrations recorded may be below PQL.

Total Petroleum Hydrocarbons - USEPA 418.1

Analyst: 

# AES Field Sampling Report

Animas Environmental Services, LLC



Client: ConocoPhillips

Project Location: San Juan 29-6 Unit #94M

Date: 4/5/2016

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	4/5/2016	10:23	East Wall N	577	80.7	11:40	20.0	1	CL
SC-2	4/5/2016	14:00	East Wall S	40.4	55.9	14:26	20.0	1	CL
SC-3	4/5/2016	14:07	South Wall	164	41.9	14:30	20.0	1	CL
SC-4	4/5/2016	10:32	West Wall	638	24.8	11:55	20.0	1	CL
SC-5	4/5/2016	10:35	North Wall	50.2	29.5	11:58	20.0	1	CL
SC-6	4/5/2016	11:05	Base N Half	4,500	2,236	12:04	200	10	CL
SC-7	4/5/2016	11:11	Base S Half	4,495	2,190	12:11	200	10	CL

DF

Dilution Factor

NA

Not Analyzed

PQL

Practical Quantitation Limit

\*TPH concentrations recorded may be below PQL.

Total Petroleum Hydrocarbons - USEPA 418.1

Analyst:



# AES Field Sampling Report

Animas Environmental Services, LLC



Client: ConocoPhillips

Project Location: San Juan 29-6 Unit #94M

Date: 4/15/2016

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-8	4/15/2016	9:30	Base N Half	56	27.6	9:50	20.0	1	CL
SC-9	4/15/2016	9:35	Base S Half	1,940	579	9:53	20.0	1	CL

DF Dilution Factor  
NA Not Analyzed  
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](http://www.hallenvironmental.com)

March 14, 2016

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

RE: COPC SJ 29-6 Unit #94M

OrderNo.: 1603522

Dear Emilee Skyles:

Hall Environmental Analysis Laboratory received 2 sample(s) on 3/10/2016 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](http://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.

## Analytical Report

Lab Order 1603522

Date Reported: 3/14/2016

CLIENT: Animas Environmental

Project: COPC SJ 29-6 Unit #94M

Lab ID: 1603522-001

Matrix: SOIL

Client Sample ID: SB-1D @ 4.5'

Collection Date: 3/8/2016 5:35:00 PM

Received Date: 3/10/2016 7:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: KJH
Diesel Range Organics (DRO)	1900	93		mg/Kg	10	3/11/2016 8:57:03 AM	24190
Surr: DNOP	0	70-130	S	%Rec	10	3/11/2016 8:57:03 AM	24190
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	2900	300		mg/Kg	100	3/10/2016 7:22:31 PM	24158
Surr: BFB	287	66.2-112	S	%Rec	100	3/10/2016 7:22:31 PM	24158
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.74		mg/Kg	50	3/11/2016 1:42:30 PM	24193
Toluene	18	1.5		mg/Kg	50	3/11/2016 1:42:30 PM	24193
Ethylbenzene	15	1.5		mg/Kg	50	3/11/2016 1:42:30 PM	24193
Xylenes, Total	210	3.0		mg/Kg	50	3/11/2016 1:42:30 PM	24193
Surr: 4-Bromofluorobenzene	167	80-120	S	%Rec	50	3/11/2016 1:42:30 PM	24193

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 1603522

Date Reported: 3/14/2016

**CLIENT:** Animas Environmental

**Project:** COPC SJ 29-6 Unit #94M

**Lab ID:** 1603522-002

**Matrix:** SOIL

**Client Sample ID:** SB-9D @ 0.5'

**Collection Date:** 3/8/2016 5:20:00 PM

**Received Date:** 3/10/2016 7:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>KJH</b>
Diesel Range Organics (DRO)	1300	96		mg/Kg	10	3/11/2016 9:18:49 AM	24190
Surr: DNOP	0	70-130	S	%Rec	10	3/11/2016 9:18:49 AM	24190
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	5600	160		mg/Kg	50	3/10/2016 8:32:40 PM	24158
Surr: BFB	356	66.2-112	S	%Rec	50	3/10/2016 8:32:40 PM	24158
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	6.8	0.79		mg/Kg	50	3/10/2016 8:32:40 PM	24158
Toluene	160	6.3		mg/Kg	200	3/11/2016 2:31:24 PM	24193
Ethylbenzene	40	1.6		mg/Kg	50	3/10/2016 8:32:40 PM	24158
Xylenes, Total	580	13		mg/Kg	200	3/11/2016 2:31:24 PM	24193
Surr: 4-Bromofluorobenzene	145	80-120	S	%Rec	50	3/10/2016 8:32:40 PM	24158

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

<b>Qualifiers:</b>	*	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#: 1603522

14-Mar-16

Client: Animas Environmental

Project: COPC SJ 29-6 Unit #94M

Sample ID	MB-24190	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	24190	RunNo:	32726					
Prep Date:	3/10/2016	Analysis Date:	3/11/2016	SeqNo:	1001548	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	10		10.00		105	70	130			

Sample ID	LCS-24190	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	24190	RunNo:	32726					
Prep Date:	3/10/2016	Analysis Date:	3/11/2016	SeqNo:	1001558	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52	10	50.00	0	104	65.8	136			
Surr: DNOP	5.0		5.000		100	70	130			

## 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#: 1603522

14-Mar-16

Client: Animas Environmental  
Project: COPC SJ 29-6 Unit #94M

Sample ID	MB-24158	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	24158	RunNo:	32721					
Prep Date:	3/9/2016	Analysis Date:	3/10/2016	SeqNo:	1001398	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	1000		1000		104	66.2	112			

Sample ID	LCS-24158	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	24158	RunNo:	32721					
Prep Date:	3/9/2016	Analysis Date:	3/10/2016	SeqNo:	1001399	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	97.2	80	120			
Surr: BFB	1100		1000		112	66.2	112			S

Sample ID	1603522-001AMS	SampType:	MS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	SB-1D @ 4.5'	Batch ID:	24158	RunNo:	32721					
Prep Date:		Analysis Date:	3/10/2016	SeqNo:	1001401	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	4400	300	1481	2899	103	59.3	143			
Surr: BFB	180000		59240		297	66.2	112			S

Sample ID	1603522-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	SB-1D @ 4.5'	Batch ID:	24158	RunNo:	32721					
Prep Date:		Analysis Date:	3/10/2016	SeqNo:	1001402	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	4500	300	1481	2899	105	59.3	143	0.814	20	
Surr: BFB	180000		59240		306	66.2	112	0	0	S

Sample ID	MB-24193	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	24193	RunNo:	32759					
Prep Date:	3/10/2016	Analysis Date:	3/11/2016	SeqNo:	1002860	Units:	%Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	910		1000		91.2	66.2	112			

Sample ID	LCS-24193	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	24193	RunNo:	32759					
Prep Date:	3/10/2016	Analysis Date:	3/11/2016	SeqNo:	1002861	Units:	%Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1000		1000		99.9	66.2	112			

### 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#: 1603522

14-Mar-16

Client: Animas Environmental  
Project: COPC SJ 29-6 Unit #94M

Sample ID	MB-24158	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	24158	RunNo:	32721					
Prep Date:	3/9/2016	Analysis Date:	3/10/2016	SeqNo:	1001408	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Ethylbenzene	ND	0.050								
Surr: 4-Bromofluorobenzene	1.1		1.000		108	80	120			

Sample ID	LCS-24158	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	24158	RunNo:	32721					
Prep Date:	3/9/2016	Analysis Date:	3/10/2016	SeqNo:	1001409	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	98.0	80	120			
Ethylbenzene	1.0	0.050	1.000	0	102	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		115	80	120			

Sample ID	MB-24193	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	24193	RunNo:	32759					
Prep Date:	3/10/2016	Analysis Date:	3/11/2016	SeqNo:	1002891	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		113	80	120			

Sample ID	LCS-24193	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	24193	RunNo:	32759					
Prep Date:	3/10/2016	Analysis Date:	3/11/2016	SeqNo:	1002892	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.025	1.000	0	88.8	80	120			
Toluene	0.96	0.050	1.000	0	96.4	80	120			
Ethylbenzene	0.98	0.050	1.000	0	98.0	80	120			
Xylenes, Total	3.0	0.10	3.000	0	98.6	80	120			
Surr: 4-Bromofluorobenzene	1.2		1.000		117	80	120			

### Qualifiers:

- |   |   |
|---|---|
| * Value exceeds Maximum Contaminant Level.              | B Analyte detected in the associated Method Blank           |
| D Sample Diluted Due to Matrix                          | E Value above quantitation range                            |
| H Holding times for preparation or analysis exceeded    | J Analyte detected below quantitation limits                |
| ND Not Detected at the Reporting Limit                  | P Sample pH Not In Range                                    |
| R RPD outside accepted recovery limits                  | RL Reporting Detection Limit                                |
| S % Recovery outside of range due to dilution or matrix | 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: 1603522

RcptNo: 1

Received by/date: JA 03/10/16

Logged By: Anne Thorne 3/10/2016 7:25:00 AM

Completed By: Anne Thorne 3/10/2016

Reviewed By: TO 03/10/16

### 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  $6.0^{\circ}\text{C}$ ? 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	1.0	Good	Yes			



Turn-Around Time:

☐ Standard      ☒ Rush 3-Day TAT

Project Name: COPC SJ 29-6 Unit #94M

Project #:

**Project Manager:**

E. Skyles

Sampler: CL/DTD

On Ice: ☒ Yes ☐ No☐ NELAP      ☐ Other☐ EDD (Type)

Sample Temperature: / °C

[illegible]

Date: 3/9/16	Time: 1631	Relinquished by: Deleah Douzi
-----------------	---------------	----------------------------------

Received by:	Date	Time
<i>Y. Smith</i>	3/9/00	1631

Remarks: Bill to ConocoPhillips  
WO#: 21348394  
Supervisor: Clayton Hamilton  
USER: MKSPENC  
AREA: 8  
Ordered by: Lisa Hunter

Date:	Time:	Relinquished by:
3/9/16	1814	[Signature]

Received by: Dr. Robert Date 03/10/00 Time 0725



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

April 11, 2016

Emilee Skyles

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

RE: COPC SJ 29-6 Unit #94M

OrderNo.: 1604155

Dear Emilee Skyles:

Hall Environmental Analysis Laboratory received 7 sample(s) on 4/6/2016 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](http://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.****Analytical Report**

Lab Order 1604155

Date Reported: 4/11/2016

**CLIENT:** Animas Environmental**Client Sample ID:** SC-1**Project:** COPC SJ 29-6 Unit #94M**Collection Date:** 4/5/2016 10:23:00 AM**Lab ID:** 1604155-001**Matrix:** MEOH (SOIL)**Received Date:** 4/6/2016 7:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LGT</b>
Chloride	ND	30		mg/Kg	20	4/7/2016 1:50:21 PM	24670
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>JME</b>
Diesel Range Organics (DRO)	50	9.9		mg/Kg	1	4/7/2016 3:03:29 PM	24639
Surr: DNOP	118	70-130		%Rec	1	4/7/2016 3:03:29 PM	24639
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	17	3.6		mg/Kg	1	4/6/2016 6:16:03 PM	24628
Surr: BFB	189	66.2-112	S	%Rec	1	4/6/2016 6:16:03 PM	24628
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>RAA</b>
Benzene	ND	0.018		mg/Kg	1	4/6/2016 6:16:03 PM	24628
Toluene	0.040	0.036		mg/Kg	1	4/6/2016 6:16:03 PM	24628
Ethylbenzene	ND	0.036		mg/Kg	1	4/6/2016 6:16:03 PM	24628
Xylenes, Total	0.42	0.072		mg/Kg	1	4/6/2016 6:16:03 PM	24628
Surr: 4-Bromofluorobenzene	113	80-120		%Rec	1	4/6/2016 6:16:03 PM	24628

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

<b>Qualifiers:</b>	*	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 1604155

Date Reported: 4/11/2016

CLIENT: Animas Environmental

Client Sample ID: SC-2

Project: COPC SJ 29-6 Unit #94M

Collection Date: 4/5/2016 2:00:00 PM

Lab ID: 1604155-002

Matrix: MEOH (SOIL)

Received Date: 4/6/2016 7:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LGT</b>
Chloride	39	30		mg/Kg	20	4/7/2016 2:27:34 PM	24670
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>JME</b>
Diesel Range Organics (DRO)	17	9.9		mg/Kg	1	4/7/2016 3:25:08 PM	24639
Surr: DNOP	94.1	70-130		%Rec	1	4/7/2016 3:25:08 PM	24639
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	5.1	4.2		mg/Kg	1	4/6/2016 3:31:14 PM	24628
Surr: BFB	102	66.2-112		%Rec	1	4/6/2016 3:31:14 PM	24628
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>RAA</b>
Benzene	0.041	0.021		mg/Kg	1	4/6/2016 3:31:14 PM	24628
Toluene	0.22	0.042		mg/Kg	1	4/6/2016 3:31:14 PM	24628
Ethylbenzene	ND	0.042		mg/Kg	1	4/6/2016 3:31:14 PM	24628
Xylenes, Total	0.19	0.084		mg/Kg	1	4/6/2016 3:31:14 PM	24628
Surr: 4-Bromofluorobenzene	106	80-120		%Rec	1	4/6/2016 3:31:14 PM	24628

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

<b>Qualifiers:</b>	*	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 1604155

Date Reported: 4/11/2016

**CLIENT:** Animas Environmental**Client Sample ID:** SC-3**Project:** COPC SJ 29-6 Unit #94M**Collection Date:** 4/5/2016 2:07:00 PM**Lab ID:** 1604155-003**Matrix:** MEOH (SOIL)**Received Date:** 4/6/2016 7:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LGT</b>
Chloride	ND	30		mg/Kg	20	4/7/2016 2:39:58 PM	24670
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>JME</b>
Diesel Range Organics (DRO)	12	9.5		mg/Kg	1	4/7/2016 3:46:56 PM	24639
Surr: DNOP	102	70-130		%Rec	1	4/7/2016 3:46:56 PM	24639
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	5.0	4.1		mg/Kg	1	4/6/2016 3:54:37 PM	24628
Surr: BFB	114	66.2-112	S	%Rec	1	4/6/2016 3:54:37 PM	24628
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>RAA</b>
Benzene	ND	0.021		mg/Kg	1	4/6/2016 3:54:37 PM	24628
Toluene	0.078	0.041		mg/Kg	1	4/6/2016 3:54:37 PM	24628
Ethylbenzene	ND	0.041		mg/Kg	1	4/6/2016 3:54:37 PM	24628
Xylenes, Total	0.35	0.083		mg/Kg	1	4/6/2016 3:54:37 PM	24628
Surr: 4-Bromofluorobenzene	108	80-120		%Rec	1	4/6/2016 3:54:37 PM	24628

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

<b>Qualifiers:</b>	*	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 1604155

Date Reported: 4/11/2016

**CLIENT:** Animas Environmental**Client Sample ID:** SC-4**Project:** COPC SJ 29-6 Unit #94M**Collection Date:** 4/5/2016 10:32:00 AM**Lab ID:** 1604155-004**Matrix:** MEOH (SOIL)**Received Date:** 4/6/2016 7:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LGT</b>
Chloride	ND	30		mg/Kg	20	4/7/2016 2:52:23 PM	24670
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>JME</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	4/7/2016 4:08:40 PM	24639
Surr: DNOP	124	70-130		%Rec	1	4/7/2016 4:08:40 PM	24639
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	ND	3.4		mg/Kg	1	4/6/2016 4:18:08 PM	24628
Surr: BFB	106	66.2-112		%Rec	1	4/6/2016 4:18:08 PM	24628
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>RAA</b>
Benzene	ND	0.017		mg/Kg	1	4/6/2016 4:18:08 PM	24628
Toluene	ND	0.034		mg/Kg	1	4/6/2016 4:18:08 PM	24628
Ethylbenzene	ND	0.034		mg/Kg	1	4/6/2016 4:18:08 PM	24628
Xylenes, Total	ND	0.069		mg/Kg	1	4/6/2016 4:18:08 PM	24628
Surr: 4-Bromofluorobenzene	105	80-120		%Rec	1	4/6/2016 4:18:08 PM	24628

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

<b>Qualifiers:</b>	*	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 1604155

Date Reported: 4/11/2016

CLIENT: Animas Environmental

Client Sample ID: SC-5

Project: COPC SJ 29-6 Unit #94M

Collection Date: 4/5/2016 10:35:00 AM

Lab ID: 1604155-005

Matrix: MEOH (SOIL)

Received Date: 4/6/2016 7:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: LGT
Chloride	ND	30		mg/Kg	20	4/7/2016 3:29:37 PM	24670
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: JME
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	4/7/2016 4:30:32 PM	24639
Surr: DNOP	96.5	70-130		%Rec	1	4/7/2016 4:30:32 PM	24639
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: RAA
Gasoline Range Organics (GRO)	ND	3.4		mg/Kg	1	4/6/2016 4:41:39 PM	24628
Surr: BFB	101	66.2-112		%Rec	1	4/6/2016 4:41:39 PM	24628
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: RAA
Benzene	ND	0.017		mg/Kg	1	4/6/2016 4:41:39 PM	24628
Toluene	ND	0.034		mg/Kg	1	4/6/2016 4:41:39 PM	24628
Ethylbenzene	ND	0.034		mg/Kg	1	4/6/2016 4:41:39 PM	24628
Xylenes, Total	ND	0.068		mg/Kg	1	4/6/2016 4:41:39 PM	24628
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	4/6/2016 4:41:39 PM	24628

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 1604155

Date Reported: 4/11/2016

**CLIENT:** Animas Environmental**Client Sample ID:** SC-6**Project:** COPC SJ 29-6 Unit #94M**Collection Date:** 4/5/2016 11:05:00 AM**Lab ID:** 1604155-006**Matrix:** MEOH (SOIL)**Received Date:** 4/6/2016 7:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LGT</b>
Chloride	ND	30		mg/Kg	20	4/7/2016 3:42:02 PM	24670
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>JME</b>
Diesel Range Organics (DRO)	870	10		mg/Kg	1	4/7/2016 4:52:12 PM	24639
Surr: DNOP	97.5	70-130		%Rec	1	4/7/2016 4:52:12 PM	24639
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	1500	180		mg/Kg	50	4/6/2016 5:05:15 PM	24628
Surr: BFB	218	66.2-112	S	%Rec	50	4/6/2016 5:05:15 PM	24628
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>RAA</b>
Benzene	ND	0.88		mg/Kg	50	4/6/2016 5:05:15 PM	24628
Toluene	20	1.8		mg/Kg	50	4/6/2016 5:05:15 PM	24628
Ethylbenzene	8.3	1.8		mg/Kg	50	4/6/2016 5:05:15 PM	24628
Xylenes, Total	120	3.5		mg/Kg	50	4/6/2016 5:05:15 PM	24628
Surr: 4-Bromofluorobenzene	118	80-120		%Rec	50	4/6/2016 5:05:15 PM	24628

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

<b>Qualifiers:</b>	* 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 1604155

Date Reported: 4/11/2016

**CLIENT:** Animas Environmental**Client Sample ID:** SC-7**Project:** COPC SJ 29-6 Unit #94M**Collection Date:** 4/5/2016 11:11:00 AM**Lab ID:** 1604155-007**Matrix:** MEOH (SOIL)**Received Date:** 4/6/2016 7:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LGT</b>
Chloride	ND	30		mg/Kg	20	4/7/2016 3:54:27 PM	24670
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>KJH</b>
Diesel Range Organics (DRO)	970	99		mg/Kg	10	4/8/2016 10:31:47 AM	24639
Surr: DNOP	0	70-130	S	%Rec	10	4/8/2016 10:31:47 AM	24639
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>RAA</b>
Gasoline Range Organics (GRO)	1700	210		mg/Kg	50	4/6/2016 5:28:56 PM	24628
Surr: BFB	205	66.2-112	S	%Rec	50	4/6/2016 5:28:56 PM	24628
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>RAA</b>
Benzene	ND	1.0		mg/Kg	50	4/6/2016 5:28:56 PM	24628
Toluene	23	2.1		mg/Kg	50	4/6/2016 5:28:56 PM	24628
Ethylbenzene	7.9	2.1		mg/Kg	50	4/6/2016 5:28:56 PM	24628
Xylenes, Total	110	4.2		mg/Kg	50	4/6/2016 5:28:56 PM	24628
Surr: 4-Bromofluorobenzene	119	80-120		%Rec	50	4/6/2016 5:28:56 PM	24628

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

<b>Qualifiers:</b>	*	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#: 1604155

11-Apr-16

Client: Animas Environmental  
Project: COPC SJ 29-6 Unit #94M

Sample ID	MB-24670	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	24670	RunNo:	33400					
Prep Date:	4/7/2016	Analysis Date:	4/7/2016	SeqNo:	1026942	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-24670	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	24670	RunNo:	33400					
Prep Date:	4/7/2016	Analysis Date:	4/7/2016	SeqNo:	1026943	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.7	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#: 1604155

11-Apr-16

Client: Animas Environmental  
Project: COPC SJ 29-6 Unit #94M

Sample ID	MB-24639	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	24639	RunNo:	33362					
Prep Date:	4/6/2016	Analysis Date:	4/7/2016	SeqNo:	1025299	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	8.6		10.00		86.0	70	130			

Sample ID	LCS-24639	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	24639	RunNo:	33362					
Prep Date:	4/6/2016	Analysis Date:	4/7/2016	SeqNo:	1025300	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	96.8	65.8	136			
Surr: DNOP	4.7		5.000		94.7	70	130			

### 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#: 1604155

11-Apr-16

Client: Animas Environmental  
Project: COPC SJ 29-6 Unit #94M

Sample ID	LCS-24628		SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	LCSS		Batch ID: 24628		RunNo: 33358					
Prep Date:	4/5/2016		Analysis Date: 4/6/2016		SeqNo: 1025083		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	5.0	25.00	0	83.5	80	120			
Surr: BFB	1100		1000		106	66.2	112			

Sample ID	MB-24628		SampType:	MBLK		TestCode:	EPA Method 8015D: Gasoline Range				
Client ID:	PBS		Batch ID:	24628		RunNo:	33358				
Prep Date:	4/5/2016		Analysis Date:	4/6/2016		SeqNo:	1025084		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	1000		1000		101	66.2	112				

### 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#: 1604155

11-Apr-16

Client: Animas Environmental  
Project: COPC SJ 29-6 Unit #94M

Sample ID	LCS-24628		SampType:	LCS		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	LCSS		Batch ID:	24628		RunNo:	33358			
Prep Date:	4/5/2016		Analysis Date:	4/6/2016		SeqNo:	1025112		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	1.000	0	93.3	75.3	123			
Toluene	0.91	0.050	1.000	0	91.0	80	124			
Ethylbenzene	0.88	0.050	1.000	0	88.0	82.8	121			
Xylenes, Total	2.6	0.10	3.000	0	87.9	83.9	122			
Surr: 4-Bromofluorobenzene	1.1		1.000		112	80	120			

Sample ID	MB-24628		SampType:	MBLK		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	PBS		Batch ID:	24628		RunNo:	33358			
Prep Date:	4/5/2016		Analysis Date:	4/6/2016		SeqNo:	1025113		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		107	80	120			

## Qualifiers:

- |   |   |
|---|---|
| * Value exceeds Maximum Contaminant Level.              | B Analyte detected in the associated Method Blank           |
| D Sample Diluted Due to Matrix                          | E Value above quantitation range                            |
| H Holding times for preparation or analysis exceeded    | J Analyte detected below quantitation limits                |
| ND Not Detected at the Reporting Limit                  | P Sample pH Not In Range                                    |
| R RPD outside accepted recovery limits                  | RL Reporting Detection Limit                                |
| S % Recovery outside of range due to dilution or matrix | 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: 1604155

RcptNo: 1

Received by/date:

*AG*

*04/06/16*

Logged By: Ashley Gallegos

4/6/2016 7:25:00 AM

*AG*

Completed By: Ashley Gallegos

4/6/2016 8:32:56 AM

*AG*

Reviewed By:

*AG*

*04/06/16*

### 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  $5.0^{\circ}\text{C}$ ? 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	1.1	Good	Yes			



**Turn-Around Time:**

ent: Animas Environmental Services, LLC

☐ Standard      ☒ Rush 3-Day TAT

Project Name: COPC SJ 29-6 Unit #94M

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

Project #:

Phone #: 505-564-2281

nail or Fax#: [eskyles@animasenvironmental.com](mailto:eskyles@animasenvironmental.com)

**Project Manager:**  
E. Skyles

**VQC Package:**

☐ Level 4 (Full Validation)

:creditation:

Sampler: CL

☐ Other

On Ice: ☒ Yes ☐ No

EDD (Type)

Sample Temperature: 1.1

[illegible]

te:	Time:	Relinquished by:
-----	-------	------------------

Received by:	Date	Time
--------------	------	------

Remarks: Bill to ConocoPhillips  
WO#: ~~24348304~~ 21376793  
Supervisor: Clayton Hamilton  
USER: MKSPENC  
AREA: 8  
Ordered by: Lisa Hunter

te:	Time:	Relinquished by:
-----	-------	------------------

Received by: <i>[Signature]</i>	Date: <i>15/11/17</i>	Time: <i>11:10</i>
---------------------------------	-----------------------	--------------------



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

April 21, 2016

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

RE: COPC SJ 29 6 Unit 94M

OrderNo.: 1604706

Dear Emilee Skyles:

Hall Environmental Analysis Laboratory received 2 sample(s) on 4/16/2016 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](http://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



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

Lab Order 1604706

Date Reported: 4/21/2016

**CLIENT:** Animas Environmental**Client Sample ID:** SC-8**Project:** COPC SJ 29 6 Unit 94M**Collection Date:** 4/15/2016 9:30:00 AM**Lab ID:** 1604706-001**Matrix:** MEOH (SOIL)**Received Date:** 4/16/2016 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: KJH
Diesel Range Organics (DRO)	28	9.8		mg/Kg	1	4/18/2016 12:51:13 PM	24823
Surr: DNOP	89.7	70-130		%Rec	1	4/18/2016 12:51:13 PM	24823
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	8.8	3.3		mg/Kg	1	4/19/2016 11:24:43 AM	24853
Surr: BFB	155	80-120	S	%Rec	1	4/19/2016 11:24:43 AM	24853
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.016		mg/Kg	1	4/19/2016 11:24:43 AM	24853
Toluene	ND	0.033		mg/Kg	1	4/19/2016 11:24:43 AM	24853
Ethylbenzene	ND	0.033		mg/Kg	1	4/19/2016 11:24:43 AM	24853
Xylenes, Total	0.11	0.066		mg/Kg	1	4/19/2016 11:24:43 AM	24853
Surr: 4-Bromofluorobenzene	98.1	80-120		%Rec	1	4/19/2016 11:24:43 AM	24853

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

<b>Qualifiers:</b>	*	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 1604706

Date Reported: 4/21/2016

**CLIENT:** Animas Environmental**Client Sample ID:** SC-9**Project:** COPC SJ 29 6 Unit 94M**Collection Date:** 4/15/2016 9:35:00 AM**Lab ID:** 1604706-002**Matrix:** MEOH (SOIL)**Received Date:** 4/16/2016 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>KJH</b>
Diesel Range Organics (DRO)	500	9.8		mg/Kg	1	4/18/2016 1:12:59 PM	24823
Surr: DNOP	93.2	70-130		%Rec	1	4/18/2016 1:12:59 PM	24823
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	760	15		mg/Kg	5	4/19/2016 11:48:10 AM	24853
Surr: BFB	1000	80-120	S	%Rec	5	4/19/2016 11:48:10 AM	24853
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.076		mg/Kg	5	4/19/2016 11:48:10 AM	24853
Toluene	3.0	0.15		mg/Kg	5	4/19/2016 11:48:10 AM	24853
Ethylbenzene	2.6	0.15		mg/Kg	5	4/19/2016 11:48:10 AM	24853
Xylenes, Total	34	0.30		mg/Kg	5	4/19/2016 11:48:10 AM	24853
Surr: 4-Bromofluorobenzene	165	80-120	S	%Rec	5	4/19/2016 11:48:10 AM	24853

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

<b>Qualifiers:</b>	*	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#: 1604706

21-Apr-16

Client: Animas Environmental  
Project: COPC SJ 29 6 Unit 94M

Sample ID	LCS-24823		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 24823		RunNo: 33593					
Prep Date:	4/18/2016		Analysis Date: 4/18/2016		SeqNo: 1033600		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	93.6	65.8	136			
Surr: DNOP	4.0		5.000		80.9	70	130			

Sample ID	MB-24823		SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS		Batch ID: 24823		RunNo: 33593					
Prep Date:	4/18/2016		Analysis Date: 4/18/2016		SeqNo: 1033602		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	8.4		10.00		84.4	70	130			

Sample ID	1604655-001AMS		SampType: MS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	BatchQC		Batch ID: 24823		RunNo: 33593					
Prep Date:	4/18/2016		Analysis Date: 4/18/2016		SeqNo: 1033909		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	9.4	47.17	0	99.7	31.2	162			
Surr: DNOP	4.3		4.717		90.3	70	130			

Sample ID	1604655-001AMSD		SampType:	MSD		TestCode:	EPA Method 8015M/D: Diesel Range Organics				
Client ID:	BatchQC		Batch ID:	24823		RunNo:	33593				
Prep Date:	4/18/2016		Analysis Date:	4/18/2016		SeqNo:	1033910		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	44	9.2	46.08	0	94.7	31.2	162	7.44	31.7		
Surr: DNOP	3.9		4.608		85.6	70	130	0	0		

### 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#: 1604706

21-Apr-16

Client: Animas Environmental  
Project: COPC SJ 29 6 Unit 94M

Sample ID	MB-24853		SampType:	MBLK		TestCode:	EPA Method 8015D: Gasoline Range				
Client ID:	PBS		Batch ID:	24853		RunNo:	33642				
Prep Date:	4/18/2016		Analysis Date:	4/19/2016		SeqNo:	1035851		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	ND	5.0									
Surr: BFB	940		1000		94.3	80	120				

Sample ID	LCS-24853		SampType:	LCS		TestCode:	EPA Method 8015D: Gasoline Range				
Client ID:	LCSS		Batch ID:	24853		RunNo:	33642				
Prep Date:	4/18/2016		Analysis Date:	4/19/2016		SeqNo:	1035852		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	96.8	80	120				
Surr: BFB	1000		1000		101	80	120				

Sample ID	1604711-001AMS		SampType: MS		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	BatchQC		Batch ID: 24853		RunNo: 33642					
Prep Date:	4/18/2016		Analysis Date: 4/19/2016		SeqNo: 1035858		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	4.7	23.65	0	103	59.3	143			
Surr: BFB	990		946.1		104	80	120			

Sample ID	1604711-001AMSD		SampType:	MSD		TestCode:	EPA Method 8015D: Gasoline Range				
Client ID:	BatchQC		Batch ID:	24853		RunNo:	33642				
Prep Date:	4/18/2016		Analysis Date:	4/19/2016		SeqNo:	1035859		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	21	4.7	23.67	0	90.2	59.3	143	13.0	20		
Surr: BFB	990		947.0		104	80	120	0	0		

### 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#: 1604706

21-Apr-16

Client: Animas Environmental  
Project: COPC SJ 29 6 Unit 94M

Sample ID	MB-24853	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	24853	RunNo:	33642					
Prep Date:	4/18/2016	Analysis Date:	4/19/2016	SeqNo:	1035903	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	0.95		1.000		95.4	80	120			

Sample ID	LCS-24853	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	24853	RunNo:	33642					
Prep Date:	4/18/2016	Analysis Date:	4/19/2016	SeqNo:	1035904	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	100	75.3	123			
Toluene	0.93	0.050	1.000	0	93.4	80	124			
Ethylbenzene	0.90	0.050	1.000	0	89.8	82.8	121			
Xylenes, Total	2.7	0.10	3.000	0	89.1	83.9	122			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	80	120			

Sample ID	1604709-001AMS	SampType:	MS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	BatchQC	Batch ID:	24853	RunNo:	33642					
Prep Date:	4/18/2016	Analysis Date:	4/19/2016	SeqNo:	1035909	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	0.9930	0.01035	108	71.5	122			
Toluene	1.2	0.050	0.9930	0.1694	107	71.2	123			
Ethylbenzene	1.0	0.050	0.9930	0.04259	100	75.2	130			
Xylenes, Total	3.4	0.099	2.979	0.4179	99.4	72.4	131			
Surr: 4-Bromofluorobenzene	1.1		0.9930		106	80	120			

Sample ID	1604709-001AMSD	SampType:	MSD	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	BatchQC	Batch ID:	24853	RunNo:	33642					
Prep Date:	4/18/2016	Analysis Date:	4/19/2016	SeqNo:	1035910	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.023	0.9390	0.01035	108	71.5	122	5.49	20	
Toluene	1.2	0.047	0.9390	0.1694	108	71.2	123	4.30	20	
Ethylbenzene	0.97	0.047	0.9390	0.04259	98.9	75.2	130	6.54	20	
Xylenes, Total	3.2	0.094	2.817	0.4179	97.3	72.4	131	6.74	20	
Surr: 4-Bromofluorobenzene	0.98		0.9390		104	80	120	0	0	

### 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 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: 1604706

RcptNo: 1

Received by/date:

Logged By: Lindsay Mangin

4/16/2016 8:00:00 AM

Completed By: Lindsay Mangin

4/16/2016 10:19:54 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  $6.0^{\circ}\text{C}$ ? 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	2.7	Good	Yes			



<b>Chain-of-Custody Record</b>		Turn-Around Time:	
Client: Animas Environmental Services, LLC		<input type="checkbox"/> Standard <b>X Rush 3-Day Turnaround</b>	
Billing Address: 604 W Pinon St.		Project Name:	
Farmington, NM 87401		COPC SJ 29-6 Unit #94M	
Phone #: 505-564-2281		Project #:	
Email or Fax#: <a href="mailto:eskyles@animasenvironmental.com">eskyles@animasenvironmental.com</a>		Project Manager:	
VQC Package: Standard <input type="checkbox"/> Level 4 (Full Validation)		E. Skyles	
Accreditation: NELAP <input type="checkbox"/> Other _____		Sampler: CL	
EDD (Type) _____		On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
		Sample Temperature: 21.7	

Sample Temperature: 21.7

[illegible]

ite:	Time:	Relinquished by:	Received by:	Date	Time
15/16	1640			4/15/16	1640
ite:	Time:	Relinquished by:	Received by:	Date	Time
4/15/16	1741			4/15/16	0800

Remarks: Bill to ConocoPhillips  
WO#: 21348394  
Supervisor: Clayton Hamilton  
USER: MKSPENC  
AREA: 8  
Ordered by: Lisa Hunter