District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office to accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company **Burlington Resources, a Wholly Owned Subsidiary of ConocoPhillips Company**	Contact **Lisa Hunter**
Address **3401 East 30th St, Farmington, NM**	Telephone No. **(505) 326-9786**
Facility Name: **San Juan 29-7 Unit 52**	Facility Type: **Gas Well**

Surface Owner **Private**	Mineral Owner **Federal**	API No.**3003907664**

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
H	**07**	**29N**	**07W**	**1710'**	**North**	**855'**	**East**	**Rio Arriba**

Latitude 36.7429 Longitude -107.60585

NATURE OF RELEASE

Type of Release **Historic Hydrocarbon**	Volume of Release **Unknown**	Volume Recovered **786 c/yds**
Source of Release **Below Grade Tank Leak**	Date and Hour of Occurrence **Unknown**	Date and Hour of Discovery **02/27/14**
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom? **n/a**	
By Whom? **n/a**	Date and Hour **n/a**	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. **n/a**	

If a Watercourse was Impacted, Describe Fully.*
n/a

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

Describe Cause of Problem and Remedial Action Taken.*
Historical hydrocarbon impacted soil was found during an environmental assessment and removal of a leaking tank (1.8 BBL condensate spill).

Describe Area Affected and Cleanup Action Taken.*
Historical hydrocarbon impacted soil was found during an environmental assessment/remediation of a non-reportable 1.8 BBL condensate spill. The excavation was 45' x 45' x 10' in depth and 786 c/yds of soil was transported to IEI land farm and 786 c/yds of clean soil was transported from Aztec Machine Company and placed in the excavation site. The soil sampling report is attached for review. Backfilled excavation per authorization of Brandon Powell, NMOCD, May 5, 2014.

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

Signature:	OIL CONSERVATION DIVISION Approved by Environmental Specialist:	
Printed Name: **Lisa Hunter**		
Title: **Field Environmental Specialist**	Approval Date: 11/5/14	Expiration Date:
E-mail Address: **Lisa.Hunter@cop.com**	Conditions of Approval:	Attached ☐
Date: **August 18, 2014** Phone: (505) **326-9786**		

* Attach Additional Sheets If Necessary

#NCS1430954580

48

Hunter, Lisa

From: Hunter, Lisa
Sent: Monday, May 05, 2014 2:58 PM
To: Brandon Powell (Brandon.Powell@state.nm.us)
Cc: Jonathan Kelly (Jonathan.Kelly@state.nm.us); cory.smith@state.nm.us; Hunter, Lisa
Subject: San Juan 29-7 #52 Excavation Backfill

Brandon –

As per our phone conversation of Monday, May 05, 2014, and with your verbal consent, COPC Environmental has approved the backfill of the San Juan 29-7 Unit 52 excavation. This excavation was a result of historic contamination discovered during a release assessment.

As discussed, our excavation terminated at sandstone at about 12 feet (confirmed the depth with third-party environmental). With the original lab samples of April 29th, the walls cleared the NMOCD thresholds, however the sample levels at base (terminating at sandstone) were 890 ppm for TPH (750 DRO & 140 GRO). We sprayed the base with Quantum Growth on Thursday, May 1st and resampled the next day (May 2nd), and left the excavation open over the weekend. The lab results came in this morning dropping the TPH to 738 ppm (640 DRO & 98 MRO). This site is ranked a 20 (100 ppm), and is located on private property.

Please let me know if you have any questions.

Thanks,

Lisa Hunter
Field Environmental Specialist
ConocoPhillips Company
5525 Hwy 64 - 500 Bldg., 214-04
P O Box 4289
Lisa.Hunter@ConocoPhillips.com
Office: 505.326.9786
Cell: 505.258.1607

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

August 11, 2014

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

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

RE: Below Grade Tank Closure, Release Assessment, and Final Excavation Report
San Juan 29-7 #52
Rio Arriba County, New Mexico

Dear Ms. Hunter:

On February 28, March 5, April 29, and May 2, 2014, 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 (CoP) San Juan 29-7 #52 located in Rio Arriba County, New Mexico. The release at the BGT consisted of approximately 1.8 barrels (bbl) of hydrocarbons and paraffin, of which 1 bbl was recovered. An initial release assessment was completed on February 28, 2014, and the final excavation was completed by CoP contractors while AES was on location on April 29, 2014.

1.0 Site Information

1.1 Location

Site Name – San Juan 29-7 #52
Location – SE¼ NE¼, Section 7, T29N, R7W, Rio Arriba County, New Mexico
Well Head Latitude/Longitude – N36.74292 and W107.60656, respectively
BGT/Release Location Latitude/Longitude – N36.74303 and W107.60645, respectively
Land Jurisdiction – Private
Figure 1. Topographic Site Location Map
Figure 2. Aerial Site Map, February 2014

1.2 NMOCD Ranking

In accordance with New Mexico Oil Conservation Division (NMOCD) release protocols, action levels were established per NMOCD *Guidelines for Remediation of Leaks, Spills, and Releases* (August 1993) prior to site work. The release was given a ranking score of 20 based on the following factors:

- **Depth to Groundwater:** A cathodic protection report form dated May 1991 reported depth to water 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**: Approximately 165 feet to the south-southeast is an unnamed ephemeral stream that drains into a livestock pond located approximately 195 feet east of the location. (20 points)

1.3 Assessment

AES was initially contacted by Lisa Hunter, CoP representative, on February 24, 2014, and on February 28, 2014, Emilee Skyles and Anna Riling of AES traveled to the location. Soil sampling consisted of collection of five soil samples from below the BGT. Four samples were collected from the perimeter of the BGT footprint, one sample was collected from the center of the BGT footprint, and one sample was composited from the four perimeter samples and one center sample.

On March 5, 2014, AES personnel returned to the location to complete the release assessment field work. The assessment included collection and field screening of 33 soil samples from 11 soil borings (SB-1 through SB-11). Based on field screening results, AES recommended excavation of the release area. Sample locations are shown on Figure 3.

On April 29, 2014, AES personnel returned to the location to collect confirmation soil samples of the excavation. The field screening activities included collection of five confirmation soil samples (SC-1 through SC-5) of the walls and base of the excavation. The final excavation measured approximately 61 feet by 40 by 12 feet in depth. The depth of the excavation was limited due to a confining shale unit around 12 feet bgs. A final confirmation soil sample (SC-6) from the base was collected on May 2, 2014, following application of Quantum Growth™. Sample locations and final excavation extents are presented on Figure 4.

2.0 Soil Sampling

A total of 38 soil samples (S-1 through S-5 and SB-1 through SB-11) and 7 composite samples (BGT SC-1 and SC-1 through SC-6) were collected during the assessments. All soil samples were field screened for volatile organic compounds (VOCs), and selected samples were analyzed for total petroleum hydrocarbon (TPH). All composite samples (BGT SC-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.*

2.1.3 Chlorides

Soil sample SC-1 was field screened for chlorides using Chloride Drop Count Titration with silver nitrate. Sampling and analysis methods followed procedures provided by Hach Company.

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

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

In addition, SC-4, SC-5, and SC-6 were also analyzed for:

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

Composite soil sample BGT SC-1 was laboratory analyzed for:

- Chlorides per USEPA Method 300.0.

2.3 Field and Laboratory Analytical Results

On February 28, 2014, BGT closure field screening results for VOCs via OVM ranged from 1,458 ppm in S-5 up to 3,218 ppm in S-1. Field TPH concentrations in all samples were greater than 2,300 mg/kg.

On March 5, 2014, initial assessment field screening readings for VOCs via OVM ranged from 0.1 ppm in SB-10 and SB-11 up to 3,340 ppm in SB-1. Field TPH concentrations ranged from less than 20.0 mg/kg in SB-10 and SB-11 to greater than 25,000 mg/kg in SB-3 and SB-4.

Final excavation field screening results for VOCs via OVM ranged from 15.9 ppm in SC-2 up to 3,827 ppm in SC-5. Field TPH concentrations ranged from 46.5 mg/kg in SC-2 up to 1,770 mg/kg in SC-5. Field screening VOC and TPH results are summarized in Table 1 and on Figures 2 through 4. The AES field sampling reports are attached.

Table 1. Soil Field Sampling VOCs, TPH, and Chloride Results
San Juan 29-7 #52 BGT Closure, Release Assessment and Final Excavation
February through May 2014

Sample ID	*Date Sampled*	*Sample Depth (ft bgs)*	*VOCs via OVM (ppm)*	*TPH 418.1 (mg/kg)*	*Field Chlorides (mg/kg)*
NMOCD Action Level* (NMAC 19.15.17.13E)			***NE/100***	***100***	***250/NE***
S-1	2/28/14	0.5	**3,218**	**>2,300**	NA
S-2	2/28/14	0.5	**2,661**	**>2,300**	NA
S-3	2/28/14	0.5	**2,535**	**>2,300**	NA
S-4	2/28/14	0.5	**2,392**	**>2,300**	NA
S-5	2/28/14	0.5	**1,458**	**>2,300**	NA
BGT SC-1	2/28/14	0.5	**2,375**	NA	80
SB-1	3/5/14	6.25	**2,771**	NA	NA
		8.5	**3,340**	NA	NA
SB-2	3/5/14	0.5	**179**	**512**	NA
		3	75.9	NA	NA

Sample ID	Date Sampled	Sample Depth (ft bgs)	VOCs via OVM (ppm)	TPH 418.1 (mg/kg)	Field Chlorides (mg/kg)
NMOCD Action Level* (NMAC 19.15.17.13E)			NE/100	100	250/NE
SB-3	3/5/14	0.5	24.2	NA	NA
		3	6.4	NA	NA
		6	**1,945**	**>25,000**	NA
SB-4	3/5/14	0.5	35.2	NA	NA
		3	56.7	NA	NA
		5	**1,816**	**>25,000**	NA
SB-5	3/5/14	0.5	23.8	NA	NA
		3	65.3	NA	NA
		6	**1,823**	NA	NA
		7.75	**2,156**	**792**	NA
SB-6	3/5/14	0.5	5.8	NA	NA
		3	1.8	NA	NA
		6	1.3	NA	NA
		8	**1,453**	**681**	NA
SB-7	3/5/14	0.5	2.5	NA	NA
		2.5	1.0	NA	NA
SB-8	3/5/14	0.5	0.7	NA	NA
		2.5	0.8	NA	NA
SB-9	3/5/14	0.5	1.8	NA	NA
		3	0.8	NA	NA
		6	0.8	NA	NA
		8	1.3	26.8	NA
SB-10	3/5/14	0.5	0.2	NA	NA
		3	0.1	NA	NA
		8	0.1	<20.0	NA
SB-11	3/5/14	0.5	0.2	NA	NA
		3	0.1	NA	NA
		6	0.2	NA	NA

Sample ID	Date Sampled	Sample Depth (ft bgs)	VOCs via OVM (ppm)	TPH 418.1 (mg/kg)	Field Chlorides (mg/kg)
NMOCD Action Level* (NMAC 19.15.17.13E)			NE/100	100	250/NE
		9	0.1	<20.0	NA
SC-1	4/29/14	1 to 12	19.3	**289**	NA
SC-2	4/29/14	1 to 12	15.9	46.5	NA
SC-3	4/29/14	1 to 12	26.2	**270**	NA
SC-4	4/29/14	1 to 12	**122**	**192**	NA
SC-5	4/29/14	12	**3,827**	**1,770**	NA
SC-6	5/2/14	12	**575**	**854**	NA

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 BGT SC-1 was used to confirm the chloride concentration for BGT closure sampling results. Laboratory analytical results reported the chloride concentration as 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 were reported below laboratory detection limits in all samples (SC-4, SC-5, and SC-6). Total BTEX concentrations ranged from 0.070 mg/kg in SC-4 up to 5.58 mg/kg in SC-6. Total TPH concentrations ranged from below laboratory detection limits in SC-2 up to 890 mg/kg in SC-5. Results are summarized in Table 2 and included on Figures 2 through 4. Laboratory analytical reports are attached.

Table 2. Soil Laboratory Analytical Results – Benzene, Total BTEX, TPH, and Chlorides
San Juan 29-7 #52 BGT Closure, Release Assessment, and Final Excavation
February, April, and May 2014

Sample ID	Date Sampled	Sample Depth (ft bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	Chlorides (mg/kg)
NMOCD Action Level* (NMAC 19.15.17.13E)			0.2/10	50	100		250/NE
BGT SC-1	2/28/14	0.5	NA	NA	NA	NA	<30
SC-1	4/29/14	1 to 12	NA	NA	<3.4	96	NA
SC-2	4/29/14	1 to 12	NA	NA	<5.0	<10	NA

Sample ID	Date Sampled	Sample Depth (ft bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	Chlorides (mg/kg)
NMOCD Action Level* (NMAC 19.15.17.13E)			0.2/10	50	100		250/NE
SC-3	4/29/14	1 to 12	NA	NA	<3.5	46	NA
SC-4	4/29/14	1 to 12	<0.031	0.070	3.5	65	NA
SC-5	4/29/14	12	<0.083	5.2	**140**	**750**	NA
SC-6	5/2/14	12	<0.081	5.58	**98**	**640**	NA

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 February 28 and March 5, 2014, AES conducted a BGT closure and assessment of petroleum contaminated soils associated with a 1.8 bbl release of hydrocarbons and paraffin at the San Juan 29-7 #52. NMOCD action levels for BGT closures are specified in New Mexico Administrative Code (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.

Field BGT closure sampling results in February 2014 were above the NMOCD action level of 100 mg/kg, with all samples reporting concentrations greater than 2,300 mg/kg. Laboratory results for chloride concentrations in BGT SC-1 were reported below the NMOCD action level of 250 mg/kg. Based on field concentrations, a release was confirmed.

In March 2014, release assessment field sampling results above the NMOCD action level of 100 ppm VOCs and 100 mg/kg TPH were reported in SB-1 through SB-6. The highest VOC concentration was reported in SB-1 with 3,340 ppm, and the highest TPH concentration was reported in SB-3 and SB-4 with concentrations greater than 25,000 mg/kg. Excavation of the release area was recommended.

On April 29, 2014, final excavation of the impacted area was completed. Field sampling results of the excavation extents showed that VOC concentrations were below applicable NMOCD action levels for three of the final walls of the excavation. However, samples SC-4 (west wall) and SC-5 (base) reported VOC concentrations above the NMOCD action level with 122 ppm and 3,827 ppm, respectively. Field TPH concentrations were above the applicable NMOCD action level of 100 mg/kg for the

final walls and base of the excavation, with the exception of SC-2 (south wall) which had a TPH concentration of 46.1 mg/kg. Laboratory analytical results reported benzene and total BTEX concentrations in SC-4 and SC-5 as below NMOCD action levels. TPH concentrations as GRO/DRO were also reported below the applicable NMOCD action level in all samples except SC-5, which had a TPH concentration of 890 mg/kg. Quantum Growth™ was applied to the base of the excavation, and an additional confirmation sample (SC-6) was collected on May 2, 2014. Field sampling results for SC-6 reported VOC and TPH concentrations above applicable NMOCD action levels. However, laboratory analytical results for SC-6 reported benzene and total BTEX concentrations below applicable NMOCD action levels, but TPH concentrations remained above NMOCD action levels.

Based on the final field sampling and laboratory analytical results of the excavation of petroleum contaminated soils at the San Juan 29-7 #52, VOCs, benzene, total BTEX, and TPH concentrations were below the applicable NMOCD action levels for the final sidewalls of the excavation. However, the base of the excavation exceeded applicable NMOCD action levels for TPH. On May 5, 2014, CoP received approval to backfill the excavation from Brandon Powell of the NMOCD. No further work is recommended.

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

Sincerely,

Emilee Skyles
Staff Geologist

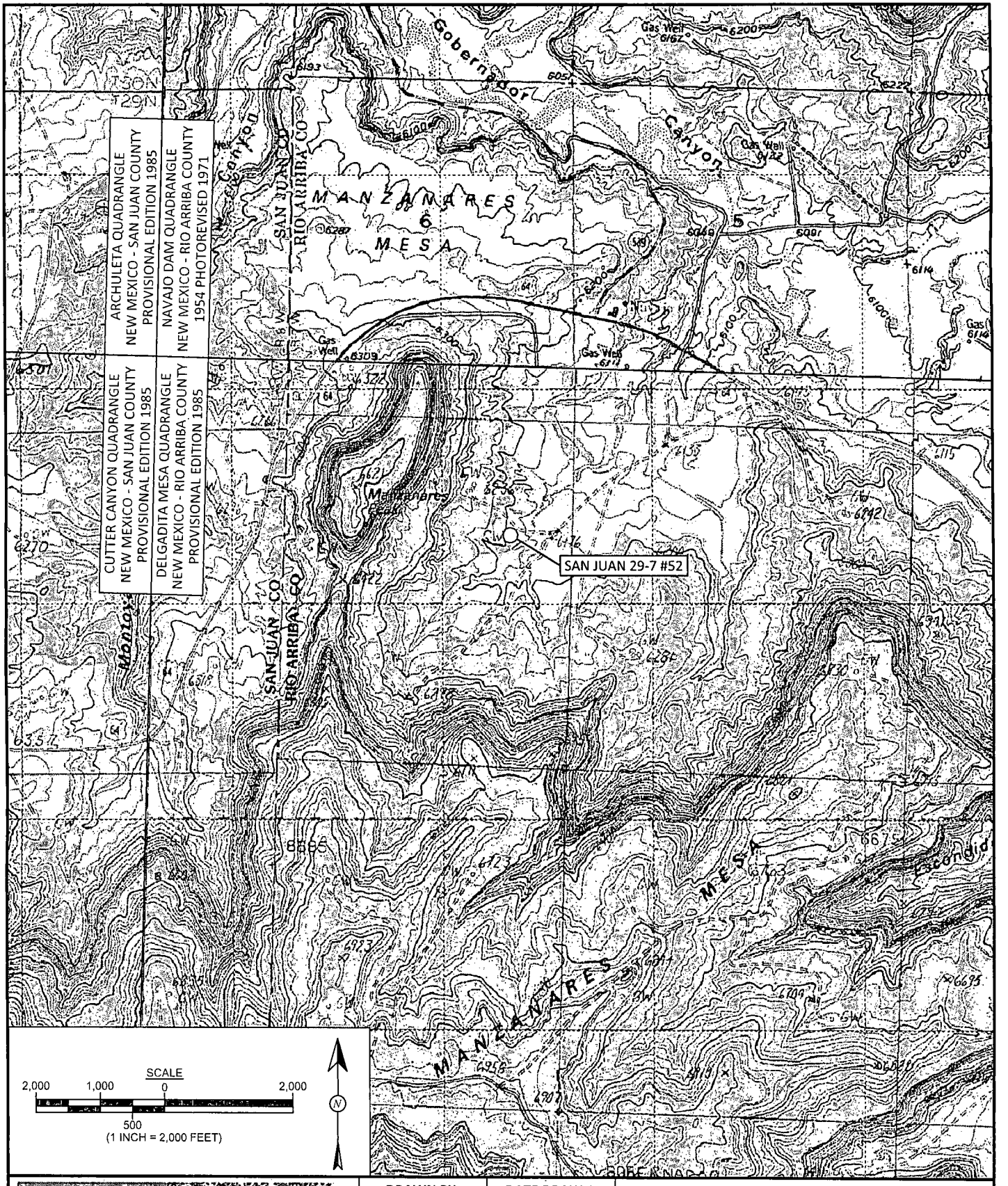
Elizabeth McNally, PE

Attachments:

Figure 1. Topographic Site Location Map
Figure 2. Aerial Site Map, February 2014
Figure 3. Release Assessment Sample Locations and Results, March 2014
Figure 4. Final Excavation Sample Locations and Results, April and May 2014
AES Field Sampling Report 022814

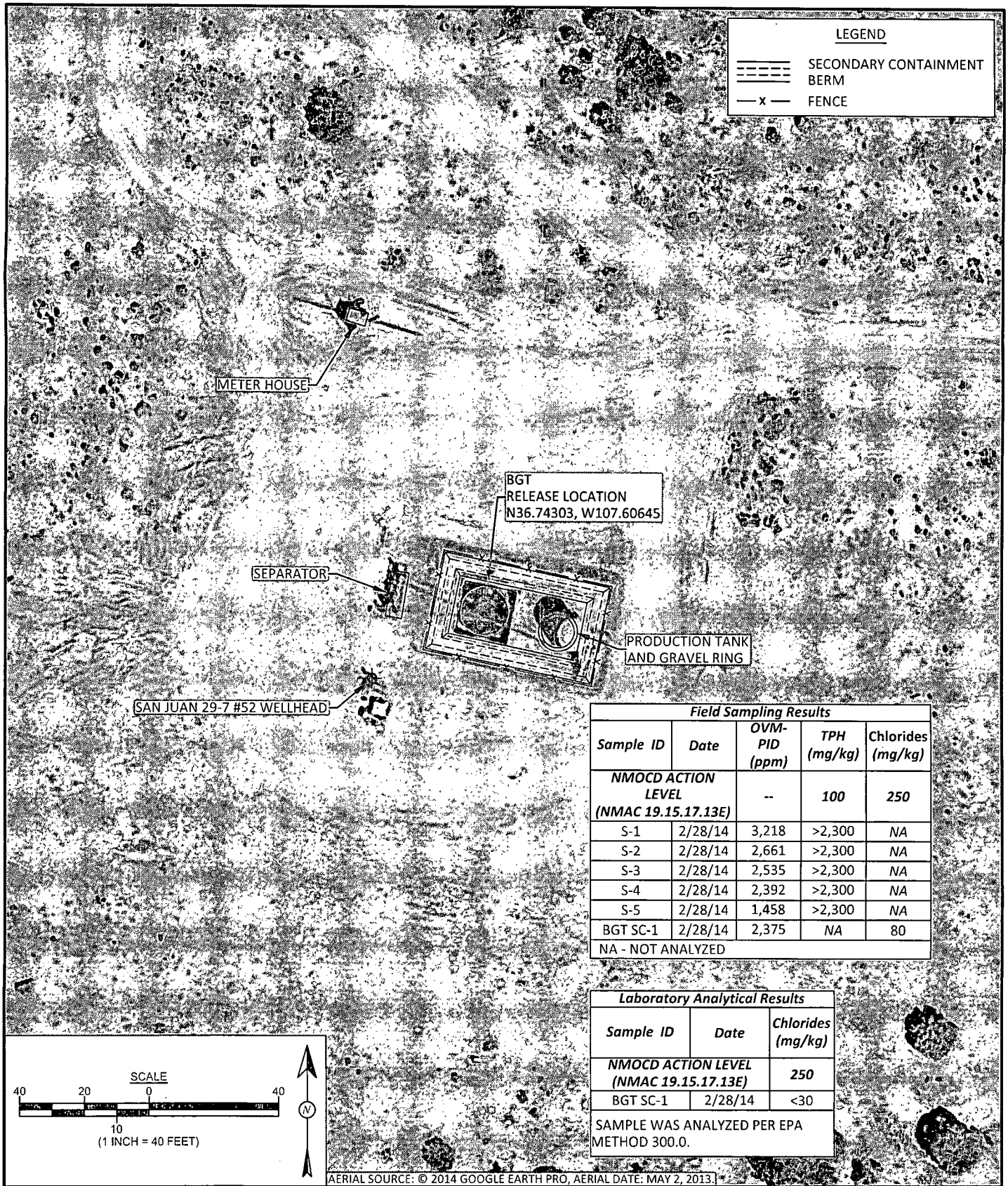
AES Field Sampling Report 030514
AES Field Sampling Report 042914
AES Field Sampling Report 050214
Hall Laboratory Analytical Report 1403065
Hall Laboratory Analytical Report 1404B95
Hall Laboratory Analytical Report 1404C13
Hall Laboratory Analytical Report 1405102

C:\Users\emcnally.AES\Dropbox (Animas Environmental)\0000 Animas Server Dropbox EM\2014 Projects\ConocoPhillips\SJ 29-7 #52\San Juan 29-7 #52 BGT Closure Assessment and Excavation Report 081114.docx



DRAWN BY: C. Lameman	**DATE DRAWN:** May 29, 2014	**FIGURE 1**
REVISIONS BY: C. Lameman	**DATE REVISED:** May 29, 2014	**TOPOGRAPHIC SITE LOCATION MAP**
CHECKED BY: D. Watson	**DATE CHECKED:** May 29, 2014	ConocoPhillips SAN JUAN 29-7 #52 SE¼ NE¼, SECTION 7, T29N, R7W RIO ARRIBA COUNTY, NEW MEXICO N36.74292, W107.60656
APPROVED BY: E. McNally	**DATE APPROVED:** May 29, 2014	

AES
Animas Environmental Services, LLC



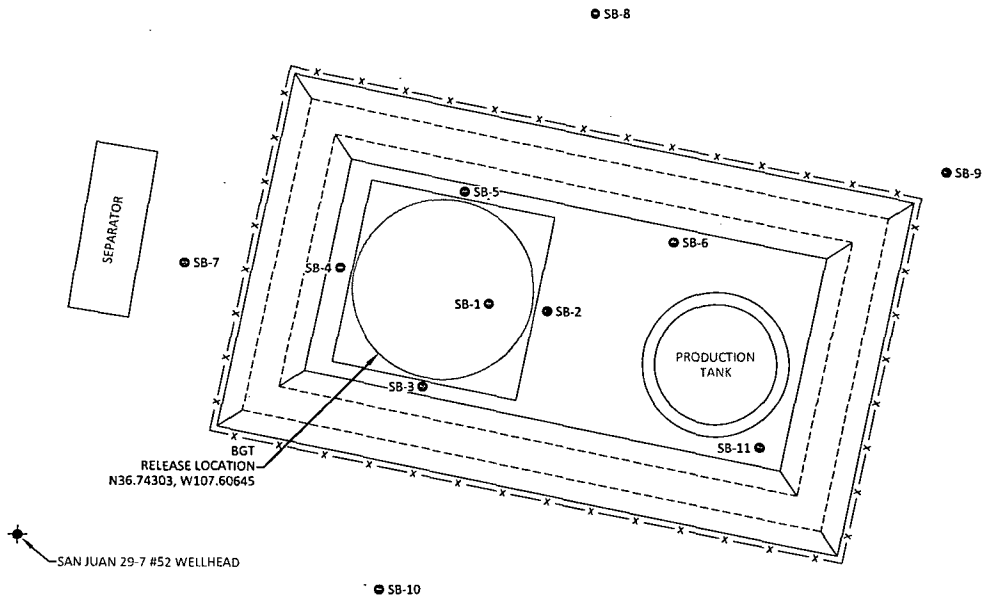
Field Sampling Results				
Sample ID	*Date*	*OVM-PID (ppm)*	*TPH (mg/kg)*	Chlorides *(mg/kg)*
NMOCD ACTION LEVEL (NMAC 19.15.17.13E)		--	*100*	*250*
S-1	2/28/14	3,218	>2,300	*NA*
S-2	2/28/14	2,661	>2,300	*NA*
S-3	2/28/14	2,535	>2,300	*NA*
S-4	2/28/14	2,392	>2,300	*NA*
S-5	2/28/14	1,458	>2,300	*NA*
BGT SC-1	2/28/14	2,375	*NA*	80
NA - NOT ANALYZED				

Laboratory Analytical Results		
Sample ID	*Date*	*Chlorides (mg/kg)*
NMOCD ACTION LEVEL (NMAC 19.15.17.13E)		*250*
BGT SC-1	2/28/14	<30
SAMPLE WAS ANALYZED PER EPA METHOD 300.0.		

AERIAL SOURCE: © 2014 GOOGLE EARTH PRO, AERIAL DATE: MAY 2, 2013.

Animas Environmental Services, LLC

DRAWN BY: C. Lameman	**DATE DRAWN:** May 29, 2014	**FIGURE 2**
REVISIONS BY: C. Lameman	**DATE REVISED:** May 29, 2014	**AERIAL SITE MAP FEBRUARY 2014**
CHECKED BY: D. Watson	**DATE CHECKED:** May 29, 2014	ConocoPhillips SAN JUAN 29-7 #52 SE¼ NE¼, SECTION 7, T29N, R7W RIO ARRIBA COUNTY, NEW MEXICO N36.74292, W107.60656
APPROVED BY: E. McNally	**DATE APPROVED:** May 29, 2014	



Field Sampling Results				
Sample ID	Date	Depth (ft)	OVM-PID (ppm)	TPH (mg/kg)
NMOCD ACTION LEVEL			100	100
SB-1	3/5/14	6.25	2,771	NA
		8.5	3,340	NA
SB-2	3/5/14	0.5	179	512
		3	75.9	NA
SB-3	3/5/14	0.5	24.2	NA
		3	6.4	NA
		6	1,945	>25,000
SB-4	3/5/14	0.5	35.2	NA
		3	56.7	NA
		5	1,816	>25,000
SB-5	3/5/14	0.5	23.8	NA
		3	65.3	NA
		6	1,823	NA
		7.75	2,156	792
SB-6	3/5/14	0.5	5.8	NA
		3	1.8	NA
		6	1.3	NA
		8	1,453	681
SB-7	3/5/14	0.5	2.5	NA
		2.5	1.0	NA
SB-8	3/5/14	0.5	0.7	NA
		2.5	0.8	NA
SB-9	3/5/14	0.5	1.8	NA
		3	0.8	NA
		6	0.8	NA
		8	1.3	26.8
SB-10	3/15/14	0.5	0.2	NA
		3	0.1	NA
		8	0.1	<20.0
SB-11	3/5/14	0.5	0.2	NA
		3	0.1	NA
		6	0.2	NA
		9	0.1	<20.0

NA - NOT ANALYZED

FIGURE 3

RELEASE ASSESSMENT SAMPLE LOCATIONS AND RESULTS MARCH 2014

ConocoPhillips
SAN JUAN 29-7 #52
SE¼ NE¼, SECTION 7, T29N, R7W
RIO ARRIBA COUNTY, NEW MEXICO
N36.74292, W107.60656

Animas Environmental Services, LLC

DRAWN BY: C. Lameman	DATE DRAWN: March 6, 2014
REVISIONS BY: S. Glasses	DATE REVISED: July 15, 2014
CHECKED BY: D. Watson	DATE CHECKED: July 15, 2014
APPROVED BY: E. McNally	DATE APPROVED: July 15, 2014

LEGEND

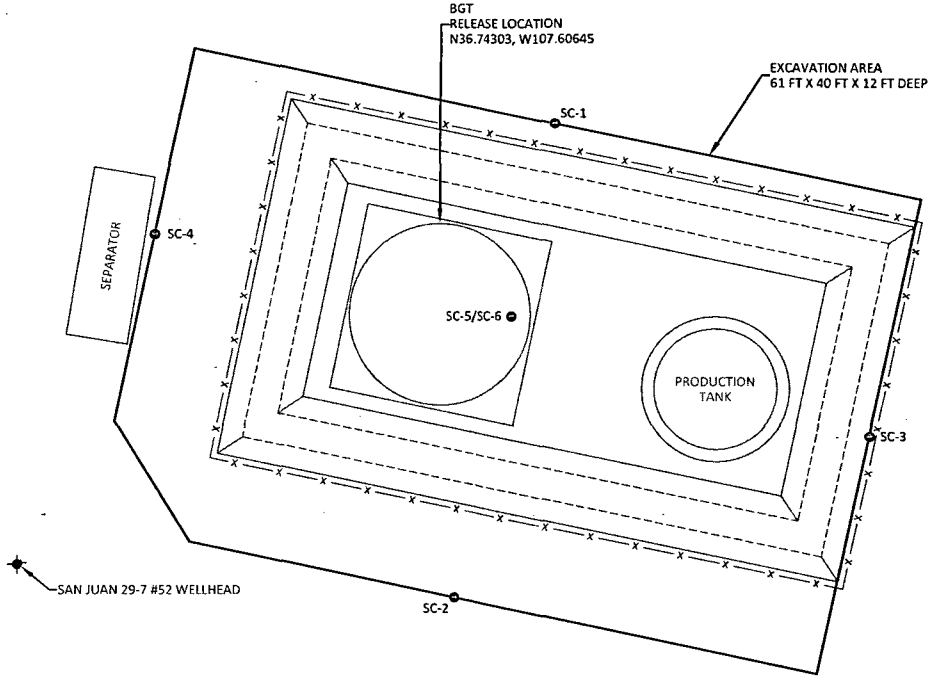
- SAMPLE LOCATIONS
- SECONDARY CONTAINMENT BERM
- —x— FENCE

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

FIGURE 4

FINAL EXCAVATION SAMPLE LOCATIONS AND RESULTS APRIL AND MAY 2014

ConocoPhillips
SAN JUAN 29-7 #52
SE¼ NE¼, SECTION 7, T29N, R7W
RIO ARRIBA COUNTY, NEW MEXICO
N36.74292, W107.60656



Field Sampling Results				
Sample ID	*Date*	*Depth (ft)*	*OVM-PID (ppm)*	*TPH (mg/kg)*
	NMOCD ACTION LEVEL		*100*	*100*
SC-1	4/29/14	1 to 12	19.3	**289**
SC-2	4/29/14	1 to 12	15.9	46.5
SC-3	4/29/14	1 to 12	26.2	**270**
SC-4	4/29/14	1 to 12	**122**	**192**
SC-5	4/29/14	12	**3,827**	**1,770**
SC-6	5/2/14	12	**575**	**854**
ALL SAMPLES WERE COMPOSITE SAMPLES.				

Laboratory Analytical Results						
Sample ID	*Date*	*Depth (ft)*	*Benzene (mg/kg)*	*Total BTEX (mg/kg)*	*TPH - GRO (mg/kg)*	*TPH - DRO (mg/kg)*
	NMOCD ACTION LEVEL		*10*	*50*	*100*	
SC-1	4/29/14	1 to 12	*NA*	*NA*	<3.4	96
SC-2	4/29/14	1 to 12	*NA*	*NA*	<5.0	<10
SC-3	4/29/14	1 to 12	*NA*	*NA*	<3.5	46
SC-4	4/29/14	1 to 12	<0.031	0.070	3.5	65
SC-5	4/29/14	12	<0.083	5.2	**140**	**750**
SC-6	5/2/14	12	<0.081	5.58	**98**	**640**
ALL SAMPLES WERE ANALYZED PER EPA METHOD 8021B AND/OR 8015D.						

Animas Environmental Services, LLC

DRAWN BY: C. Lameman	**DATE DRAWN:** May 29, 2014
REVISIONS BY: C. Lameman	**DATE REVISED:** May 29, 2014
CHECKED BY: D. Watson	**DATE CHECKED:** May 29, 2014
APPROVED BY: E. McNally	**DATE APPROVED:** May 29, 2014

LEGEND

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

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

AES Field Sampling Report

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

Client: ConocoPhillips

Project Location: San Juan 29-7 #52

Date: 2/28/2014

Matrix: Soil

Sample ID	Collection Date	Time of Sample Collection	Sample Location	OVM (ppm)	Field Chloride (mg/kg)	TPH Analysis Time	TPH* (mg/kg)	TPH PQL (mg/kg)	DF	TPH Analysts Initials
S-1	2/28/2014	10:15	North	3,218	NA	11:34	>2,300	20.0	1	AR
S-2	2/28/2014	10:16	South	2,661	NA	11:40	>2,300	20.0	1	AR
S-3	2/28/2014	10:17	East	2,535	NA	11:45	>2,300	20.0	1	AR
S-4	2/28/2014	10:18	West	2,392	NA	11:50	>2,300	20.0	1	AR
S-5	2/28/2014	12:57	Center	1,458	NA	13:11	>2,300	20.0	1	AR
SC-1	2/28/2014	10:25	Composite	2,375	80	*Not Analyzed for TPH*				

DF Dilution Factor
NA Not Analyzed
ND Not Detected at the Reporting Limit
PQL Practical Quantitation Limit
Total Petroleum Hydrocarbons - USEPA 418.1
*TPH concentrations recorded may be below PQL.

Field Chloride - Quantab Chloride Titrators or Drop Count Titration with Silver Nitrate

Analyst:

Report Finalized: 2/28/14

AES Field Sampling Report

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

Client: ConocoPhillips

Project Location: San Juan 29-7 #52

Date: 3/5/2014

Matrix: Soil

Sample ID	Collection Date	Collection Time	OVM (ppm)	TPH* (mg/kg)	TPH Analysis Time	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SB-1 @ 6.25'	3/5/2014	11:05	2,771	*Not Analyzed for TPH*				
SB-1 @ 8.5'	3/5/2014	11:15	3,340	*Not Analyzed for TPH*				
SB-2 @ 0.5'	3/5/2014	11:20	179	512	14:45	20.0	1	EMS
SB-2 @ 3'	3/5/2014	11:24	75.9	*Not Analyzed for TPH*				
SB-3 @ 0.5'	3/5/2014	11:35	24.2	*Not Analyzed for TPH*				
SB-3 @ 3'	3/5/2014	11:42	6.4	*Not Analyzed for TPH*				
SB-3 @ 6'	3/5/2014	11:50	1,945	>25,000	12:19	200	10	EMS
SB-4 @ 0.5'	3/5/2014	12:10	35.2	*Not Analyzed for TPH*				
SB-4 @ 3'	3/5/2014	12:18	56.7	*Not Analyzed for TPH*				
SB-4 @ 5'	3/5/2014	12:20	1,816	>25,000	16:02	200	10	EMS
SB-5 @ 0.5'	3/5/2014	12:30	23.8	*Not Analyzed for TPH*				
SB-5 @ 3'	3/5/2014	12:35	65.3	*Not Analyzed for TPH*				
SB-5 @ 6'	3/5/2014	13:09	1,823	*Not Analyzed for TPH*				
SB-5 @ 7.75'	3/5/2014	13:13	2,156	792	16:08	20.0	1	EMS
SB-6 0.5'	3/5/2014	13:17	5.8	*Not Analyzed for TPH*				
SB-6 @ 3'	3/5/2014	13:20	1.8	*Not Analyzed for TPH*				
SB-6 @ 6'	3/5/2014	13:00	1.3	*Not Analyzed for TPH*				
SB-6 @ 8'	3/5/2014	13:24	1,453	681	15:20	20.0	1	EMS
SB-7 @ 0.5'	3/5/2014	14:25	2.5	*Not Analyzed for TPH*				
SB-7 @ 2.5'	3/5/2014	14:30	1.0	*Not Analyzed for TPH*				
SB-8 @ 0.5'	3/5/2014	14:35	0.7	*Not Analyzed for TPH*				
SB-8 @ 2.5'	3/5/2014	14:40	0.8	*Not Analyzed for TPH*				
SB-9@ 0.5'	3/5/2014	14:36	1.8					

Report Finalized: 3/5/14

Sample ID	Collection Date	Collection Time	OVM (ppm)	TPH* (mg/kg)	TPH Analysis Time	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SB-9 @ 6'	3/5/2014	14:44	0.8	*Not Analyzed for TPH*				
SB-9 @ 8'	3/5/2014	14:50	1.3	26.8	15:24	20.0	1	EMS
SB-10 @ 0.5'	3/5/2014	15:10	0.2	*Not Analyzed for TPH*				
SB-10 @ 3'	3/5/2014	15:20	0.1	*Not Analyzed for TPH*				
SB-10 @ 8'	3/5/2014	16:20	0.1	8.6	16:55	20.0	1	EMS
SB-11 @ 0.5'	3/5/2014	16:00	0.2	*Not Analyzed for TPH*				
SB-11 @ 3'	3/5/2014	16:12	0.1	*Not Analyzed for TPH*				
SB-11 @ 6'	3/5/2014	16:30	0.2	*Not Analyzed for TPH*				
SB-11 @ 9'	3/5/2014	16:40	0.1	19.0	16:59	20.0	1	EMS

DF Dilution Factor
NA Not Analyzed
ND Not Detected at the Reporting Limit
PQL Practical Quantitation Limit
**TPH concentrations recorded may be below PQL.*
Total Petroleum Hydrocarbons - USEPA 418.1

Analyst: Erik Sy L

AES Field Sampling Report

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

Client: ConocoPhillips

Project Location: San Juan 29-7 #52

Date: 4/29/2014

Matrix: Soil

Sample ID	Collection Date	Time of Sample Collection	Sample Location	OVM (ppm)	TPH Analysis Time	TPH* (mg/kg)	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SC-1	4/29/2014	14:35	North Wall	19.3	14:51	289	20.0	1	EMS
SC-2	4/29/2014	11:30	South Wall	15.9	12:16	46.5	20.0	1	EMS
SC-3	4/29/2014	11:35	East Wall	26.2	12:19	270	20.0	1	EMS
SC-4	4/29/2014	14:16	West Wall	122	14:31	192	20.0	1	EMS
SC-5	4/29/2014	11:42	Base	3,827	12:22	1,770	20.0	1	EMS

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

Total Petroleum Hydrocarbons - USEPA 418.1
**TPH concentrations recorded may be below PQL.*

Analyst: Emily Sy L

Report Finalized: 4/29/14

AES Field Sampling Report

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

Client: ConocoPhillips

Project Location: San Juan 29-7 #52

Date: 5/2/2014

Matrix: Soil

Sample ID	Collection Date	Time of Sample Collection	Sample Location	OVM (ppm)	TPH Analysis Time	TPH* (mg/kg)	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SC-6	5/2/2014	11:20	Base	575	11:37	854	20.0	1	HMW

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

Total Petroleum Hydrocarbons - USEPA 418.1
**TPH concentrations recorded may be below PQL.*

Analyst: Heather M. Woods

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

March 10, 2014

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

RE: SJ 29-7 # 52 OrderNo.: 1403065

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 1 sample(s) on 3/4/2014 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1403065**
Date Reported: **3/10/2014**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental
Project: SJ 29-7 # 52
Lab ID: 1403065-001 **Matrix:** SOIL

Client Sample ID: ~~SC-1~~ BGT SC-1 DAW
Collection Date: 2/28/2014 10:25:00 AM
Received Date: 3/4/2014 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JRR**	
Chloride	ND	30		mg/Kg	20	3/6/2014 7:37:40 PM	12064

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

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1403065**

10-Mar-14

Client: Animas Environmental

Project: SJ 29-7 # 52

Sample ID	**MB-12064**	SampType:	**MBLK**	TestCode:	**EPA Method 300.0: Anions**					
Client ID:	**PBS**	Batch ID:	**12064**	RunNo:	**17165**					
Prep Date:	**3/6/2014**	Analysis Date:	**3/6/2014**	SeqNo:	**493843**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	**LCS-12064**	SampType:	**LCS**	TestCode:	**EPA Method 300.0: Anions**					
Client ID:	**LCSS**	Batch ID:	**12064**	RunNo:	**17165**					
Prep Date:	**3/6/2014**	Analysis Date:	**3/6/2014**	SeqNo:	**493844**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.2	90	110			

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: Animas Environmental Work Order Number: 1403065 RcptNo: 1

Received by/date: 03/04/14

Logged By: Lindsay Mangin 3/4/2014 10:00:00 AM

Completed By: Lindsay Mangin 3/4/2014 11:07:00 AM

Reviewed By: MG 03/05/14

Chain of Custody

1. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
2. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
3. How was the sample delivered?	Courier		

Log In

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

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

17. Additional remarks:

18. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.5	Good	Yes			

Chain-of-Custody Record

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Client: Ammis Environmental Services, LLC	Turn-Around Time: ☒ Standard ☐ Rush
Mailing Address: 624 E. Comanche Farmington NM 87401	Project Name: SJ 29-7 #52
Phone #: 505-564-2281	Project #:
email or Fax#:	Project Manager: D. Watson
QA/QC Package: ☒ Standard ☐ Level 4 (Full Validation)	Sampler: E. Skyles
Accreditation ☐ NELAP ☐ Other	On Ice: ☒ Yes ☐ No
☐ EDD (Type)	Sample Temperature: 2.5

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1403065	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	300.0 Chlorides				Air Bubbles (Y or N)
2/8/14	10:25	Soil	SC-1	1-4oz	non	-001												X				

Analysis Request

Date:	Time:	Relinquished by:	Received by:	Date	Time
4-14	630		Debrah Watson	3-4-14	630
Date:	Time:	Relinquished by:	Received by:	Date	Time
4-14	630	Debrah Watson		03/04/14	1000

Remarks: Bill to ConocoPhillips
WO: 2605218
AREA: 7
ACTIVITY CODE:
USER: LINDAJ
ORDERED BY: LISA HUNTER
SUPERVISOR: JIM KENNEDY

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

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

May 02, 2014

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

RE: COP SJ 29-7 #52 OrderNo.: 1404B95

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 4 sample(s) on 4/30/2014 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental
Project: COP SJ 29-7 #52
Lab ID: 1404B95-001

Client Sample ID: SC-1
Collection Date: 4/29/2014 2:35:00 PM
Matrix: MEOH (SOIL) **Received Date:** 4/30/2014 10:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS						Analyst: **BCN**	
Diesel Range Organics (DRO)	96	10		mg/Kg	1	4/30/2014 12:21:16 PM	12938
Surr: DNOP	105	57.9-140		%REC	1	4/30/2014 12:21:16 PM	12938
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.4		mg/Kg	1	4/30/2014 12:02:25 PM	R18302
Surr: BFB	89.7	74.5-129		%REC	1	4/30/2014 12:02:25 PM	R18302

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

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental
Client Sample ID: SC-3
Project: COP SJ 29-7 #52
Collection Date: 4/29/2014 11:35:00 AM
Lab ID: 1404B95-002
Matrix: MEOH (SOIL)
Received Date: 4/30/2014 10:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS						Analyst: **BCN**	
Diesel Range Organics (DRO)	46	10		mg/Kg	1	4/30/2014 12:52:35 PM	12938
Surr: DNOP	94.4	57.9-140		%REC	1	4/30/2014 12:52:35 PM	12938
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	4/30/2014 12:30:59 PM	R18302
Surr: BFB	85.2	74.5-129		%REC	1	4/30/2014 12:30:59 PM	R18302

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

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental
Project: COP SJ 29-7 #52
Lab ID: 1404B95-003

Client Sample ID: SC-4
Collection Date: 4/29/2014 2:16:00 PM
Matrix: MEOH (SOIL) **Received Date:** 4/30/2014 10:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS						Analyst: **BCN**	
Diesel Range Organics (DRO)	65	9.9		mg/Kg	1	4/30/2014 1:23:37 PM	12938
Surr: DNOP	106	57.9-140		%REC	1	4/30/2014 1:23:37 PM	12938
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	3.5	3.1		mg/Kg	1	4/30/2014 12:59:35 PM	R18302
Surr: BFB	111	74.5-129		%REC	1	4/30/2014 12:59:35 PM	R18302
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.031		mg/Kg	1	4/30/2014 12:59:35 PM	R18302
Toluene	ND	0.031		mg/Kg	1	4/30/2014 12:59:35 PM	R18302
Ethylbenzene	ND	0.031		mg/Kg	1	4/30/2014 12:59:35 PM	R18302
Xylenes, Total	0.070	0.063		mg/Kg	1	4/30/2014 12:59:35 PM	R18302
Surr: 4-Bromofluorobenzene	104	80-120		%REC	1	4/30/2014 12:59:35 PM	R18302

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

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental
Client Sample ID: SC-5
Project: COP SJ 29-7 #52
Collection Date: 4/29/2014 11:42:00 AM
Lab ID: 1404B95-004
Matrix: MEOH (SOIL)
Received Date: 4/30/2014 10:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS						Analyst: **BCN**	
Diesel Range Organics (DRO)	750	9.9		mg/Kg	1	4/30/2014 1:54:44 PM	12938
Surr: DNOP	112	57.9-140		%REC	1	4/30/2014 1:54:44 PM	12938
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	140	17		mg/Kg	5	4/30/2014 11:33:47 AM	R18302
Surr: BFB	258	74.5-129	S	%REC	5	4/30/2014 11:33:47 AM	R18302
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.083		mg/Kg	5	4/30/2014 11:33:47 AM	R18302
Toluene	ND	0.17		mg/Kg	5	4/30/2014 11:33:47 AM	R18302
Ethylbenzene	0.40	0.17		mg/Kg	5	4/30/2014 11:33:47 AM	R18302
Xylenes, Total	4.8	0.33		mg/Kg	5	4/30/2014 11:33:47 AM	R18302
Surr: 4-Bromofluorobenzene	117	80-120		%REC	5	4/30/2014 11:33:47 AM	R18302

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

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1404B95**

02-May-14

Client: Animas Environmental

Project: COP SJ 29-7 #52

Sample ID **MB-12938**	SampType: **MBLK**			TestCode: **EPA Method 8015D: Diesel Range Organics**					
Client ID: **PBS**	Batch ID: **12938**			RunNo: **18255**					
Prep Date: **4/29/2014**	Analysis Date: **4/30/2014**			SeqNo: **528682**		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		86.3	57.9	140			

Sample ID **LCS-12938**	SampType: **LCS**			TestCode: **EPA Method 8015D: Diesel Range Organics**					
Client ID: **LCSS**	Batch ID: **12938**			RunNo: **18255**					
Prep Date: **4/29/2014**	Analysis Date: **4/30/2014**			SeqNo: **528683**		Units: **mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	40	10	50.00	0	80.9	60.8	145			
Surr: DNOP	3.9		5.000		78.1	57.9	140			

Sample ID **MB-12956**	SampType: **MBLK**			TestCode: **EPA Method 8015D: Diesel Range Organics**					
Client ID: **PBS**	Batch ID: **12956**			RunNo: **18327**					
Prep Date: **5/1/2014**	Analysis Date: **5/1/2014**			SeqNo: **529725**		Units: **%REC**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.7		10.00		87.3	57.9	140			

Sample ID **LCS-12956**	SampType: **LCS**			TestCode: **EPA Method 8015D: Diesel Range Organics**					
Client ID: **LCSS**	Batch ID: **12956**			RunNo: **18327**					
Prep Date: **5/1/2014**	Analysis Date: **5/1/2014**			SeqNo: **529726**		Units: **%REC**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.7		5.000		94.0	57.9	140			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1404B95**

02-May-14

Client: Animas Environmental

Project: COP SJ 29-7 #52

Sample ID	**MB-12911 MK**	SampType: **MBLK**			TestCode: **EPA Method 8015D: Gasoline Range**					
Client ID:	**PBS**	Batch ID: **R18302**			RunNo: **18302**					
Prep Date:		Analysis Date: **4/30/2014**			SeqNo: **529079**		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	850		1000		84.8	74.5	129			

Sample ID	**LCS-12911 MK**	SampType: **LCS**			TestCode: **EPA Method 8015D: Gasoline Range**					
Client ID:	**LCSS**	Batch ID: **R18302**			RunNo: **18302**					
Prep Date:		Analysis Date: **4/30/2014**			SeqNo: **529080**		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	95.1	71.7	134			
Surr: BFB	940		1000		93.8	74.5	129			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1404B95**

02-May-14

Client: Animas Environmental

Project: COP SJ 29-7 #52

Sample ID **MB-12911 MK**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **R18302**	RunNo: **18302**
Prep Date:	Analysis Date: **4/30/2014**	SeqNo: **529270** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		101	80	120			

Sample ID **LCS-12911 MK**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **R18302**	RunNo: **18302**
Prep Date:	Analysis Date: **4/30/2014**	SeqNo: **529271** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.050	1.000	0	108	80	120			
Toluene	1.0	0.050	1.000	0	99.8	80	120			
Ethylbenzene	1.0	0.050	1.000	0	101	80	120			
Xylenes, Total	3.0	0.10	3.000	0	99.0	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		104	80	120			

Qualifiers:

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

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 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: 1404B95 RcptNo: 1

Received by/date: 04/30/14

Logged By: Ashley Gallegos 4/30/2014 10:05:00 AM

Completed By: Ashley Gallegos 4/30/2014 10:12:57 AM

Reviewed By: 04/30/14

Chain of Custody

1. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
2. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
3. How was the sample delivered?	Courier		

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
6. Sample(s) in proper container(s)?	Yes ☑	No ☐	
7. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
8. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
9. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
10. VOA vials have zero headspace?	Yes ☐	No ☐	No VOA Vials ☑
11. Were any sample containers received broken?	Yes ☐	No ☑	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	# of preserved bottles checked for pH: (<2 or >12 unless noted)
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	Adjusted?
14. Is it clear what analyses were requested?	Yes ☑	No ☐	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	Checked by:

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order?	Yes ☐	No ☐	NA ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			

Chain-of-Custody Record

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Client: Animas Environmental Services	Turn-Around Time: ☐ Standard ☒ Rush Same day
Mailing Address: 624 E. Comanche Farmington, NM 87401	Project Name: CoP SJ 29-7 #52
Phone #: 505-564-2281	Project #:
email or Fax#:	Project Manager: D. Watson
QA/QC Package: ☒ Standard ☐ Level 4 (Full Validation)	Sampler: E. Skyles
Accreditation ☐ NELAP ☐ Other	On Ice: ☒ Yes ☐ No
☐ EDD (Type)	Sample Temperature: 1.0

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1404895	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)					Air Bubbles (Y or N)
4/29/14	14:35	Soil	SC-1	MeOH Kit 1-4oz	MeOH non	-001			X													
	11:35	Soil	SC-3	MeOH Kit 1-4oz	MeOH non	-002			X													
	14:16	Soil	SC-4	MeOH Kit 1-4oz	MeOH non	-003	X		X													
	11:42	Soil	SC-5	MeOH Kit 1-4oz	MeOH non	-004	X		X													

Date:	Time:	Relinquished by:	Received by:	Date	Time
4/29/14	1716			4/29/14	1716
4/29/14	1740			04/30/14	10:05

Remarks: Bill to Conoco Phillips

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
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Website: www.hallenvironmental.com

May 05, 2014

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

RE: COP SJ 29-7#52 OrderNo.: 1404C13

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 1 sample(s) on 4/30/2014 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1404C13**
Date Reported: **5/5/2014**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental
Project: COP SJ 29-7#52
Lab ID: 1404C13-001 **Matrix:** SOIL

Client Sample ID: SC-2
Collection Date: 4/29/2014 11:30:00 AM
Received Date: 4/30/2014 10:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS						Analyst: **BCN**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	5/2/2014 3:26:00 PM	12956
Surr: DNOP	92.8	57.9-140		%REC	1	5/2/2014 3:26:00 PM	12956
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	5/1/2014 3:34:23 PM	12950
Surr: BFB	85.1	74.5-129		%REC	1	5/1/2014 3:34:23 PM	12950

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

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1404C13**

06-May-14

Client: Animas Environmental

Project: COP SJ 29-7#52

Sample ID **MB-12956**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **12956**	RunNo: **18327**
Prep Date: **5/1/2014**	Analysis Date: **5/1/2014**	SeqNo: **529725** 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	8.7		10.00		87.3	57.9	140			

Sample ID **LCS-12956**	SampType: **LCS**	TestCode: **EPA Method 8015D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **12956**	RunNo: **18327**
Prep Date: **5/1/2014**	Analysis Date: **5/1/2014**	SeqNo: **529726** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	91.8	60.8	145			
Surr: DNOP	4.7		5.000		94.0	57.9	140			

Sample ID **MB-12982**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **12982**	RunNo: **18356**
Prep Date: **5/2/2014**	Analysis Date: **5/2/2014**	SeqNo: **530268** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.4		10.00		84.4	57.9	140			

Sample ID **LCS-12982**	SampType: **LCS**	TestCode: **EPA Method 8015D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **12982**	RunNo: **18356**
Prep Date: **5/2/2014**	Analysis Date: **5/2/2014**	SeqNo: **530310** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.4		5.000		88.8	57.9	140			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1404C13**

06-May-14

Client: Animas Environmental

Project: COP SJ 29-7#52

Sample ID **MB-12950**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **12950**	RunNo: **18348**
Prep Date: **4/30/2014**	Analysis Date: **5/1/2014**	SeqNo: **530007** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	840		1000		84.5	74.5	129			

Sample ID **LCS-12950**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **12950**	RunNo: **18348**
Prep Date: **4/30/2014**	Analysis Date: **5/1/2014**	SeqNo: **530008** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	99.0	71.7	134			
Surr: BFB	920		1000		91.9	74.5	129			

Sample ID **1404C12-001AMS**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **BatchQC**	Batch ID: **12950**	RunNo: **18348**
Prep Date: **4/30/2014**	Analysis Date: **5/1/2014**	SeqNo: **530010** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	4.7	23.63	0	104	69.5	145			
Surr: BFB	890		945.2		93.9	74.5	129			

Sample ID **1404C12-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **BatchQC**	Batch ID: **12950**	RunNo: **18348**
Prep Date: **4/30/2014**	Analysis Date: **5/1/2014**	SeqNo: **530011** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20	4.7	23.67	0	86.4	69.5	145	17.9	20	
Surr: BFB	890		947.0		93.8	74.5	129	0	0	

Qualifiers:

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

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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: **1404C13** RcptNo: **1**

Received by/date: 04/30/14

Logged By: **Ashley Gallegos** 4/30/2014 10:05:00 AM

Completed By: **Ashley Gallegos** 4/30/2014 1:11:09 PM

Reviewed By: IO 04/30/14

Chain of Custody

1. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
2. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
3. How was the sample delivered?	Courier		

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
6. Sample(s) in proper container(s)?	Yes ☑	No ☐	
7. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
8. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
9. Was preservative added to bottles?	Yes ☐	No ☑	NA
10. VOA vials have zero headspace?	Yes ☐	No ☐	No VOA Vials ☑
11. Were any sample containers received broken?	Yes ☐	No ☑	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	Adjusted? _____
14. Is it clear what analyses were requested?	Yes ☑	No ☐	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	Checked by:

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified:		Date:	
By Whom:		Via:	☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:			
Client Instructions:			

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			

Client: Animas Environmental Services

Mailing Address: 624 E. Comanche
Farmington, NM 87401

Phone #: 505-564-2281

email or Fax#:

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

Accreditation
☐ NELAP ☐ Other

☐ EDD (Type)

☒ Standard ☐ Rush

Project Name: CoP SJ 29-7 #52

Project #:

Project Manager: D. Watson

Sampler: E. Skyles

On Ice: ☒ Yes ☐ No

Sample Temperature: 1.0

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1404213	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO) (DRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Air Bubbles (Y or N)
4/29/14	11:30	Soil	SC-2	1-4oz	non	-001			+									

Analysis Request

Date:	Time:	Relinquished by:	Received by:	Date	Time	Remarks:
4/29/14	1716			4/29/14	1716	All to Conoco Phillips
4/29/14	1740			04/30/14	1005	

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

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

May 06, 2014

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

RE: CoP SJ 29-7 #52 OrderNo.: 1405102

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 1 sample(s) on 5/3/2014 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1405102**
Date Reported: **5/6/2014**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental
Project: CoP SJ 29-7 #52
Lab ID: 1405102-001
Matrix: SOIL
Client Sample ID: SC-6
Collection Date: 5/2/2014 11:20:00 AM
Received Date: 5/3/2014 10:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	640	10		mg/Kg	1	5/5/2014 11:16:48 AM	12995
Surr: DNOP	101	57.9-140		%REC	1	5/5/2014 11:16:48 AM	12995
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	98	16		mg/Kg	5	5/5/2014 9:52:28 AM	R18376
Surr: BFB	204	74.5-129	S	%REC	5	5/5/2014 9:52:28 AM	R18376
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.081		mg/Kg	5	5/5/2014 9:52:28 AM	R18376
Toluene	ND	0.16		mg/Kg	5	5/5/2014 9:52:28 AM	R18376
Ethylbenzene	0.38	0.16		mg/Kg	5	5/5/2014 9:52:28 AM	R18376
Xylenes, Total	5.2	0.32		mg/Kg	5	5/5/2014 9:52:28 AM	R18376
Surr: 4-Bromofluorobenzene	112	80-120		%REC	5	5/5/2014 9:52:28 AM	R18376

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

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1405102**

06-May-14

Client: Animas Environmental

Project: CoP SJ 29-7 #52

Sample ID **MB-12995**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **12995**	RunNo: **18374**
Prep Date: **5/5/2014**	Analysis Date: **5/5/2014**	SeqNo: **530743** 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	8.2		10.00		81.9	57.9	140			

Sample ID **LCS-12995**	SampType: **LCS**	TestCode: **EPA Method 8015D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **12995**	RunNo: **18374**
Prep Date: **5/5/2014**	Analysis Date: **5/5/2014**	SeqNo: **530744** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	10	50.00	0	88.0	60.8	145			
Surr: DNOP	3.9		5.000		78.0	57.9	140			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1405102**

06-May-14

Client: Animas Environmental

Project: CoP SJ 29-7 #52

Sample ID **MB-12990 MK**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **R18376**	RunNo: **18376**
Prep Date:	Analysis Date: **5/5/2014**	SeqNo: **531630** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	840		1000		84.2	74.5	129			

Sample ID **LCS-12990 MK**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **R18376**	RunNo: **18376**
Prep Date:	Analysis Date: **5/5/2014**	SeqNo: **531635** 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	95.3	71.7	134			
Surr: BFB	930		1000		92.6	74.5	129			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1405102**

06-May-14

Client: Animas Environmental

Project: CoP SJ 29-7 #52

Sample ID **MB-12990 MK**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **R18376**	RunNo: **18376**
Prep Date:	Analysis Date: **5/5/2014**	SeqNo: **531665** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.99		1.000		99.1	80	120			

Sample ID **100NG BTEX LCS**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **R18376**	RunNo: **18376**
Prep Date:	Analysis Date: **5/5/2014**	SeqNo: **531666** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.2	0.050	1.000	0	119	80	120			
Toluene	1.1	0.050	1.000	0	109	80	120			
Ethylbenzene	1.1	0.050	1.000	0	108	80	120			
Xylenes, Total	3.2	0.10	3.000	0	107	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		108	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
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VIRONMENTAL
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: 1405102 RcptNo: 1

Received by/date: AT 05/03/14

Logged By: Anne Thorne 5/3/2014 10:20:00 AM Anne Thorne

Completed By: Anne Thorne 5/5/2014 Anne Thorne

Reviewed By: AT 05/05/14

Chain of Custody

1. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
2. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
3. How was the sample delivered?	Courier		

Log In

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

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Animas Environmental Services	☐ Standard ☒ Rush Same Day
Mailing Address: 624 E. Comanche	Project Name: CoP SJ 29-7 #52
Farmington, NM 87401	Project #:
Phone #: 505-564-2281	
email or Fax#:	Project Manager: D. Watson
QA/QC Package: ☒ Standard ☐ Level 4 (Full Validation)	Sampler: H. Woods
Accreditation ☐ NELAP ☐ Other	On Ice: ☒ Yes ☐ No
☐ EDD (Type)	Sample Temperature: 1.0

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1405102	BTEX + MTBE + TPH (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / [redacted])	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions ($F, Cl, NO_3, NO_2, PO_4, SO_4$)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)					Air Bubbles (Y or N)
5/2/14	1120	Soil	SC-1	MeOH Kit 1-4oz	MeOH	-001	X		X													

Date:	Time:	Relinquished by:	Received by:	Date	Time
5/2/14	1603	Heather M. Woods	Christine Walters	5/2/14	1603
5/2/14	1644	Christine Walters		05/03/14	0820

Remarks: Bill to ConocoPhillips

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.