

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 CONS. DIV DIST. 3

JUL 29 2015

Form C-141
Revised August 8, 2011

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

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

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company ConocoPhillips Company	Contact Crystal Walker
Address 3401 East 30th St, Farmington, NM	Telephone No. (505) 326-9837
Facility Name: Moore LS 1B	Facility Type: Gas Well
Surface Owner BLM	Mineral Owner BLM (SF-078147)
API No. 30-045-24652	

LOCATION OF RELEASE

Unit Letter H	Section 27	Township 32N	Range 12W	Feet from the 1715	North/South Line North	Feet from the 809	East/West Line East	County San Juan
-------------------------	----------------------	------------------------	---------------------	------------------------------	----------------------------------	-----------------------------	-------------------------------	---------------------------

Latitude 36.95967 Longitude -108.07652

NATURE OF RELEASE

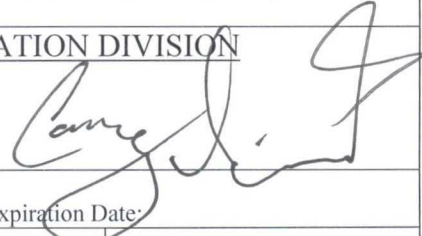
Type of Release Produced Fluids	Volume of Release Unknown	Volume Recovered 67 cubic yds
Source of Release Unknown	Date and Hour of Occurrence Unknown	Date and Hour of Discovery 2/11/2015
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

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

Describe Cause of Problem and Remedial Action Taken.*
Plug & Abandonment Activities

Describe Area Affected and Cleanup Action Taken.*
Historical hydrocarbon impacted soil was found during the P&A activities for the subject well. The excavation was 15'x 10' x 10' and 67 yds of soil was transported to IEI landfarm and 67 yds of clean soil was transported to location and placed in the excavation site. The soil sampling report is attached for review.

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

Signature: 	OIL CONSERVATION DIVISION	
Printed Name: Crystal Walker	Approved by Environmental Specialist: 	
Title: Field Environmental Specialist	Approval Date: 8/12/15	Expiration Date:
E-mail Address: crystal.walker@conocophillips.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 7/27/2015	Phone: (505) 326-9837	

* Attach Additional Sheets If Necessary

#NCS 150224 34933



June 30, 2015

Crystal Walker
ConocoPhillips
San Juan Business Unit
(505) 326-9837

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

**RE: Release Assessment and Final Excavation Report
Moore LS #1B
San Juan County, New Mexico**

Dear Ms. Walker:

On February 11, 2015, Animas Environmental Services, LLC (AES) completed an initial release assessment and environmental clearance of the final excavation limits at the ConocoPhillips (COPC) Moore LS #1B, located in San Juan County, New Mexico. The historic contamination was discovered during plugging and abandonment activities at the location. The initial release assessment was completed by AES on February 11, 2015, and the final excavation was completed by COPC contractors while AES was on location on the same day.

1.0 Site Information

1.1 Location

Site Name – Moore LS #1B

Location – SE¼ NE¼, Section 27, T32N, R12W, San Juan County, New Mexico

Well Head Latitude/Longitude – N36.95967 and W108.07652, respectively

Release Location Latitude/Longitude – N36.95985 and W108.07631, respectively

Land Jurisdiction – Bureau of Land Management (BLM)

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map, February 2015

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

1911 Main, Ste 280
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 30 based on the following factors:

- **Depth to Groundwater:** Based on elevation, topographic interpretation and visual reconnaissance, depth to groundwater is interpreted to be between 50 to 100 feet below ground surface (bgs). (10 points)
- **Wellhead Protection Area:** The release location is not within a wellhead protection area. (0 points)
- **Distance to Surface Water Body:** An unnamed wash which discharges to Hartley Wash is located approximately 190 feet north of the location. An intermittent pond is located approximately 330 feet southwest. (20 points)

1.3 Assessment

AES was initially contacted by Mike Morris of COPC on February 10, 2015, and on February 11, 2015, Emilee Skyles and Sam Glasses of AES completed the release assessment field work. The assessment included collection and field sampling of 12 soil samples from 5 test holes (TH-1 through TH-5) in and around the release area. One composite soil sample was collected from stockpiled soil (SP) associated with TH-1. Test holes were terminated between 8 and 10 feet bgs. Based on field sampling results, AES recommended excavation of the release area. Sample locations are shown on Figure 3.

Also on February 11, 2015, AES collected confirmation soil samples from the excavation. The field sampling activities included collection of five composite soil samples (SC-1 through SC-5) from the walls and base of the excavation. The area of the final excavation measured approximately 18 feet by 6 to 15 feet by 10 feet in depth. Sample locations and final excavation extents are presented on Figure 4.

2.0 Soil Sampling

A total of 17 soil samples from 5 borings (TH-1 through TH-5), one stockpile sample (SP) and 5 composite samples (SC-1 through SC-5) were collected during the release assessment and excavation clearance. All soil samples were field screened for volatile organic compounds (VOCs) and total petroleum hydrocarbons (TPH). Samples SC-1 through SC-5 collected during the excavation clearance were submitted for confirmation laboratory analysis.

2.1 Field Sampling

2.1.1 Volatile Organic Compounds

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

2.1.2 Total Petroleum Hydrocarbons

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

2.2 Laboratory Analyses

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

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

2.3 Field and Laboratory Analytical Results

On February 11, 2015, initial assessment field screening results for VOCs via OVM showed concentrations ranging from 0.0 ppm in TH-3 and TH-5 up to 3,813 ppm in TH-1. Field TPH concentrations ranged from less than 20.0 mg/kg in TH-4 and TH-5 up to greater than 2,500 mg/kg in TH-1.

Final excavation clearance was conducted the same day with field screening results for VOCs via OVM ranging from 0.3 ppm in SC-1 up to 218 ppm in SC-5. Field TPH concentrations ranged from less than 20 mg/kg in SC-3, SC-4, and SC-5 up to 27.6 mg/kg in SC-2. 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
Moore LS #1B Initial Release Assessment and Final Excavation
February 2015

<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>100</i>
SP	2/11/15	0 to 4	1,890	447
		4	3,813	>2,500
TH-1	2/11/15	8	907	246
		10	617	72.5
TH-2	2/11/15	5	0.2	22.7
		8	0.1	28.9
TH-3	2/11/15	5	0.1	21.5
		8	0.0	21.5
TH-4	2/11/15	5	2.6	<20.0
		9	1.6	<20.0
TH-5	2/11/15	5	1.3	25.2
		8	0.0	<20.0
SC-1	2/11/15	1 to 10	0.3	24.0
SC-2	2/11/15	1 to 10	15.2	27.6
SC-3	2/11/15	1 to 10	42.8	<20.0
SC-4	2/11/15	1 to 10	5.5	<20.0
SC-5	2/11/15	1 to 10	218	<20.0

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

Laboratory analyses for SC-1 through SC-5 were used to confirm field sampling results from the final excavation extents. Benzene and total BTEX concentrations in SC-1 through SC-5 were reported below laboratory detection limits with the exception of SC-5, which reported total BTEX at 0.19 mg/kg. TPH concentrations as GRO/DRO/MRO were also reported below laboratory detection limits in all samples with the exception of SC-5, which reported GRO at 4.0 mg/kg. Results are presented in Table 2 and on Figure 4. The laboratory analytical report is attached.

Table 2. Laboratory Analytical Results – Benzene, Total BTEX, and TPH
Moore LS #1B Initial Release Assessment and Final Excavation
February 2015

<i>Sample ID</i>	<i>Date Sampled</i>	<i>Sample Depth (ft bgs)</i>	<i>Benzene (mg/kg)</i>	<i>Total BTEX (mg/kg)</i>	<i>GRO (mg/kg)</i>	<i>DRO (mg/kg)</i>	<i>MRO (mg/kg)</i>
<i>NMOCD Action Level*</i>			<i>10</i>	<i>50</i>		<i>100</i>	
SC-1	2/11/15	1 to 10	<0.048	<0.240	<4.8	<9.8	<49.0
SC-2	2/11/15	1 to 10	<0.050	<0.249	<5.0	<10.0	<50.0
SC-3	2/11/15	1 to 10	<0.047	<0.236	<4.7	<9.9	<50.0
SC-4	2/11/15	1 to 10	<0.050	<0.250	<5.0	<10.0	<50.0
SC-5	2/11/15	1 to 10	<0.025	0.19	4.0	<10.0	<50.0

*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 February 11, 2015, AES conducted an initial assessment and excavation clearance of petroleum contaminated soils associated with a historic release at the Moore LS #1B. 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 30.

On February 11, 2015, initial assessment field sampling results above the NMOCD action level of 100 ppm VOCs and 100 mg/kg TPH were reported in TH-1, with 3,813 ppm VOCs and TPH greater than 2,500 mg/kg. Based on the results of the release assessment, a release was confirmed and COPC contractors continued with an excavation of contaminated soils.

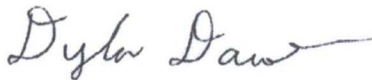
Also on February 11, 2015, final clearance of the excavation area was completed. Field sampling results of the excavation extents showed that VOC concentrations were below applicable NMOCD action levels for the final walls of the excavation but above the NMOCD action level for the excavation base (SC-5), which had a VOC concentration of 218 ppm. Field TPH concentrations were below the applicable NMOCD action level of 100 mg/kg for the final walls and base of the excavation. Laboratory analytical results reported benzene, total BTEX and TPH (as GRO/DRO/MRO) concentrations below NMOCD action levels in all samples.

Based on final field sampling and laboratory analytical results of the excavation of petroleum contaminated soils at the Moore LS #1B, VOC concentrations were above

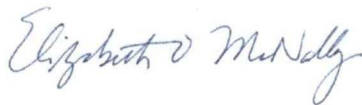
NMOCD action levels for the base of the excavation and below NMOCD action levels for each of the excavation sidewalls. Benzene, total BTEX, and TPH concentrations were below applicable NMOCD action levels for each of the sidewalls and base of the excavation. No further work is recommended.

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

Sincerely,



Dylan K. Davis
Staff Geologist



Elizabeth McNally, PE

Attachments:

- Figure 1. Topographic Site Location Map
- Figure 2. Aerial Site Map, February 2015
- Figure 3. Initial Assessment Sample Locations and Results, February 2015
- Figure 4. Final Excavation Sample Locations and Results, February 2015
- AES Initial Assessment Field Sampling Report 021115
- AES Final Excavation Field Sampling Report 021115
- Hall Laboratory Analytical Report 1502524

C:\Users\emcnally\Dropbox (Animas Environmental)\0000 Animas Server Dropbox EM\2015
Projects\ConocoPhillips\Moore LS #1B\Release\Moore LS #1B Release and Final Excavation Report
063015.docx

ADOBE DOWNS RANCH QUADRANGLE
NEW MEXICO - SAN JUAN COUNTY
1963 PHOTOREVISED 1979

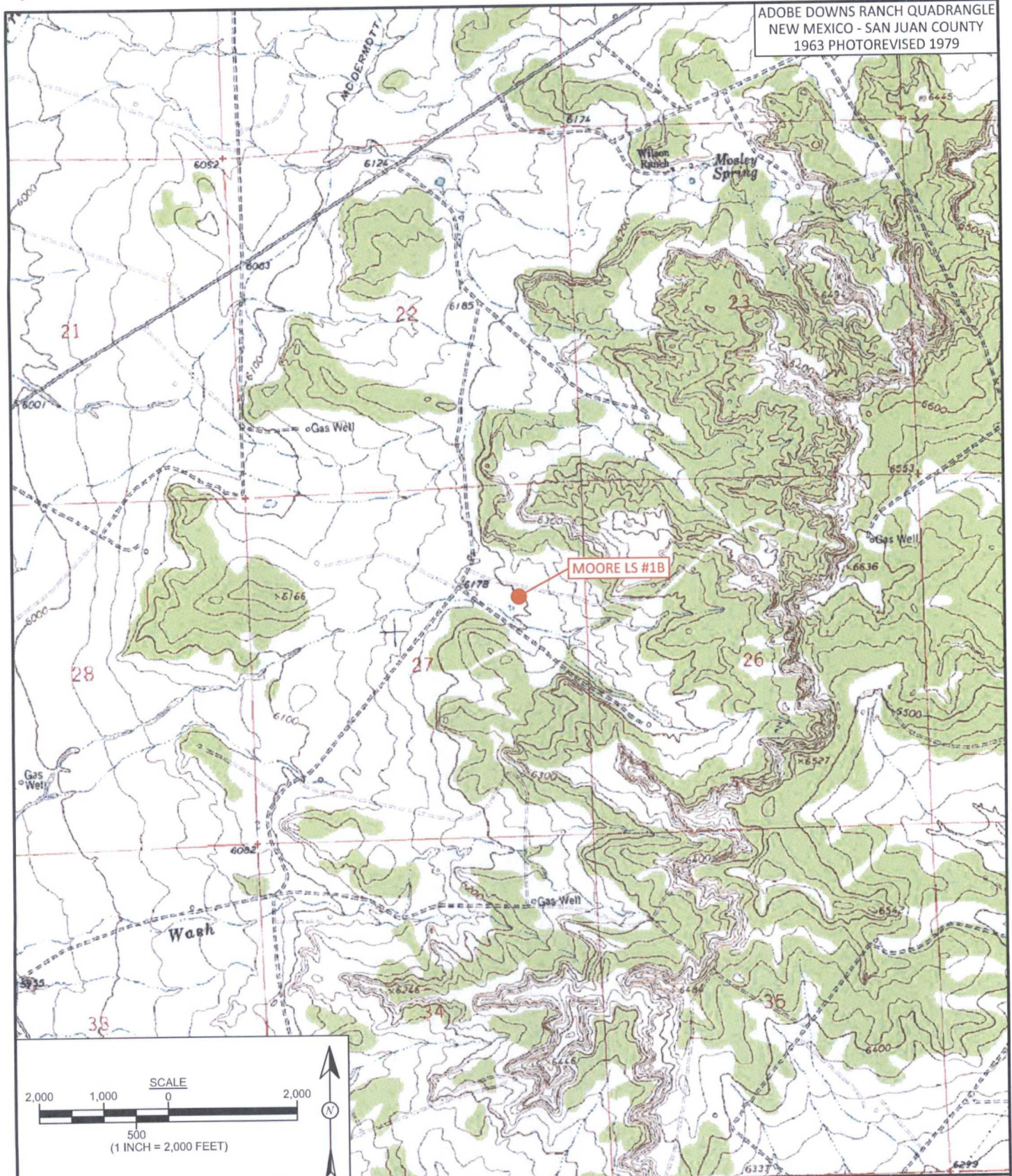
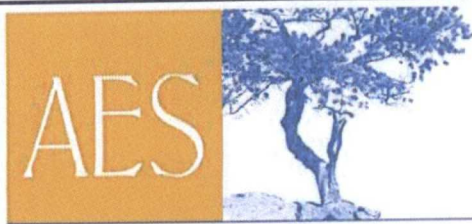


FIGURE 1

TOPOGRAPHIC SITE LOCATION MAP

ConocoPhillips
MOORE LS #1B
SE¼ NE¼, SECTION 27, T32N, R12W
SAN JUAN COUNTY, NEW MEXICO
N36.95967, W108.07652



Animas Environmental Services, LLC

DRAWN BY:

S. Glasses

DATE DRAWN:

February 12, 2015

REVISIONS BY:

C. Lameman

DATE REVISED:

June 22, 2015

CHECKED BY:

E. Skyles

DATE CHECKED:

June 22, 2015

APPROVED BY:

E. McNally

DATE APPROVED:

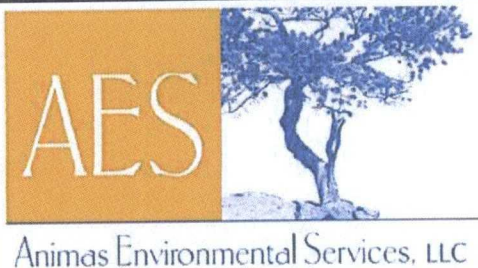
June 22, 2015



FIGURE 2

**AERIAL SITE MAP
FEBRUARY 2015**

ConocoPhillips
MOORE LS #1B
SE¼ NE¼, SECTION 27, T32N, R12W
SAN JUAN COUNTY, NEW MEXICO
N36.95967, W108.07652



DRAWN BY: S. Glasses	DATE DRAWN: February 12, 2015
REVISIONS BY: C. Lameman	DATE REVISED: June 22, 2015
CHECKED BY: E. Skyles	DATE CHECKED: June 22, 2015
APPROVED BY: E. McNally	DATE APPROVED: June 22, 2015

Field Sampling Results				
Sample ID	Date	Depth (ft)	OVM-PID (ppm)	TPH (mg/kg)
NMOCD ACTION LEVEL			100	100
SP	2/11/15	0 to 4	1,890	447
TH-1	2/11/15	4	3,813	>2,500
		8	907	246
		10	617	72.5
TH-2	2/11/15	5	0.2	22.7
		8	0.1	28.9
TH-3	2/11/15	5	0.1	21.5
		8	0.0	21.5
TH-4	2/11/15	5	2.6	<20.0
		9	1.6	<20.0
TH-5	2/11/15	5	1.3	25.2
		8	0.0	<20.0

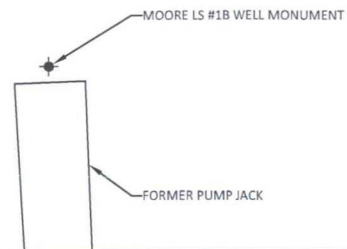
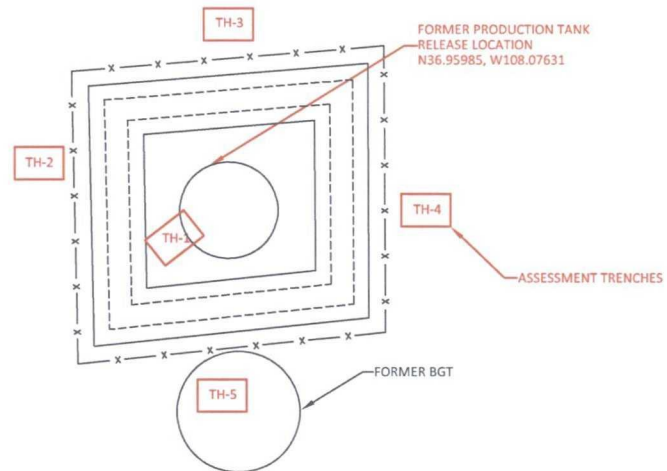


FIGURE 3

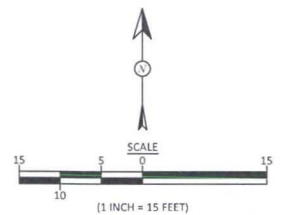
INITIAL ASSESSMENT SAMPLE LOCATIONS AND RESULTS FEBRUARY 2015
 ConocoPhillips
 MOORE LS #1B
 SE¼ NE¼, SECTION 27, T32N, R12W
 SAN JUAN COUNTY, NEW MEXICO
 N36.95967, W108.07652



DRAWN BY: S. Glasses	DATE DRAWN: February 12, 2015
REVISIONS BY: C. Lameman	DATE REVISED: June 22, 2015
CHECKED BY: E. Skyles	DATE CHECKED: June 22, 2015
APPROVED BY: E. McNally	DATE APPROVED: June 22, 2015

LEGEND

--- SECONDARY CONTAINMENT BERM
 — x — FENCE



Field Sampling Results				
Sample ID	Date	Depth (ft)	OVM-PID (ppm)	TPH (mg/kg)
NMOCD ACTION LEVEL			100	100
SC-1	2/11/15	1 to 10	0.3	24.0
SC-2	2/11/15	1 to 10	15.2	27.6
SC-3	2/11/15	1 to 10	42.8	<20.0
SC-4	2/11/15	1 to 10	5.5	<20.0
SC-5	2/11/15	10	218	<20.0

SC-1 THROUGH SC-5 ARE SOIL COMPOSITE SAMPLES.

Laboratory Analytical Results						
Sample ID	Date	Depth (ft)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH - GRO (mg/kg)	TPH - MRO (mg/kg)
NMOCD ACTION LEVEL			10	50	100	
SC-1	2/11/15	1 to 10	<0.048	<0.240	<4.8	<49
SC-2	2/11/15	1 to 10	<0.050	<0.249	<5.0	<50
SC-3	2/11/15	1 to 10	<0.047	<0.236	<4.7	<50
SC-4	2/11/15	1 to 10	<0.050	<0.250	<5.0	<50
SC-5	2/11/15	10	<0.025	0.19	4.0	<50

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

EXCAVATION AREA
18 FT x 6 to 15 FT x 10 FT DEEP

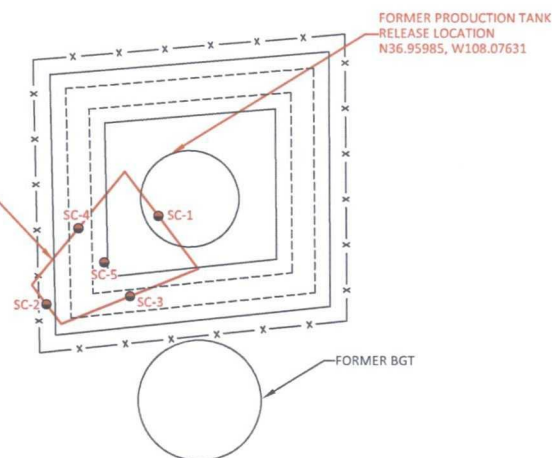


FIGURE 4

FINAL EXCAVATION SAMPLE
LOCATIONS AND RESULTS
FEBRUARY 2015
ConocoPhillips
MOORE LS #1B
SE¼ NE¼, SECTION 27, T32N, R12W
SAN JUAN COUNTY, NEW MEXICO
N36.95967, W108.07652

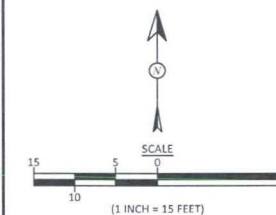


Animas Environmental Services, LLC

DRAWN BY: S. Glasses	DATE DRAWN: February 12, 2015
REVISIONS BY: C. Lameman	DATE REVISED: June 22, 2015
CHECKED BY: E. Skyles	DATE CHECKED: June 22, 2015
APPROVED BY: E. McNally	DATE APPROVED: June 22, 2015

LEGEND

- SAMPLE LOCATIONS
- SECONDARY CONTAINMENT BERM
- FENCE



AES Field Sampling Report

Animas Environmental Services, LLC



Client: ConocoPhillips

Project Location: Moore LS #1B

Date: 2/11/2015

Matrix: Soil

Sample ID	Collection Date	Collection Time	OVM (ppm)	Field TPH* (mg/kg)	Field TPH Analysis Time	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SP	2/11/2015	12:13	1,890	447	12:47	20.0	1	EMS
TH-1 @ 4'	2/11/2015	12:15	3,813	>2,500	12:40	20.0	1	EMS
TH-1 @ 8'	2/11/2015	12:45	907	246	13:15	20.0	1	EMS
TH-1 @ 10'	2/11/2015	12:51	617	72.5	13:45	20.0	1	EMS
TH-2 @ 5'	2/11/2015	13:15	0.2	22.7	13:49	20.0	1	EMS
TH-2 @ 8'	2/11/2015	13:16	0.1	28.9	13:55	20.0	1	EMS
TH-3 @ 5'	2/11/2015	13:20	0.1	21.5	13:59	20.0	1	EMS
TH-3 @ 8'	2/11/2015	13:22	0.0	21.5	14:02	20.0	1	EMS
TH-4 @ 5'	2/11/2015	13:26	2.6	19.1	14:05	20.0	1	EMS
TH-4 @ 9'	2/11/2015	13:31	1.6	17.9	14:08	20.0	1	EMS
TH-5 @ 5'	2/11/2015	13:39	1.3	25.2	14:10	20.0	1	EMS
TH-5 @ 8'	2/11/2015	13:42	0.0	9.28	14:12	20.0	1	EMS

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

DF Dilution Factor

NA Not Analyzed

PQL Practical Quantitation Limit

**Field TPH concentrations recorded may be below PQL.*

Total Petroleum Hydrocarbons - USEPA 418.1

Analyst: *Enih ShL*

AES Field Sampling Report

Animas Environmental Services, LLC



Client: ConocoPhillips

Project Location: Moore LS #1B

Date: 2/11/2015

Matrix: Soil

Sample ID	Collection Date	Collection Time	Sample Location	OVM (ppm)	Field TPH* (mg/kg)	Field TPH Analysis Time	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SC-1	2/11/2015	14:14	North Wall	0.3	24.0	15:08	20.0	1	EMS
SC-2	2/11/2015	14:15	South Wall	15.2	27.6	15:10	20.0	1	EMS
SC-3	2/11/2015	14:20	East Wall	42.8	17.9	15:12	20.0	1	EMS
SC-4	2/11/2015	14:10	West Wall	5.5	19.1	15:15	20.0	1	EMS
SC-5	2/11/2015	14:26	Base	218	19.1	15:18	20.0	1	EMS

DF Dilution Factor

NA Not Analyzed

PQL Practical Quantitation Limit

*TPH concentrations recorded may be below PQL.

Total Petroleum Hydrocarbons - USEPA 418.1

Analyst:

Eric Skyl



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

February 16, 2015

Emilee Skyles

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

RE: CoP Moore LS # 1B

OrderNo.: 1502524

Dear Emilee Skyles:

Hall Environmental Analysis Laboratory received 5 sample(s) on 2/12/2015 for the analyses presented in the following report.

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

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", with a stylized flourish at the end.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1502524

Date Reported: 2/16/2015

CLIENT: Animas Environmental

Client Sample ID: SC-1

Project: CoP Moore LS # 1B

Collection Date: 2/11/2015 2:04:00 PM

Lab ID: 1502524-001

Matrix: SOIL

Received Date: 2/12/2015 7:28:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	2/12/2015 2:19:35 PM	17710
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/12/2015 2:19:35 PM	17710
Surr: DNOP	101	63.5-128		%REC	1	2/12/2015 2:19:35 PM	17710
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/13/2015 11:07:21 AM	17714
Surr: BFB	89.7	80-120		%REC	1	2/13/2015 11:07:21 AM	17714
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.048		mg/Kg	1	2/13/2015 11:07:21 AM	17714
Toluene	ND	0.048		mg/Kg	1	2/13/2015 11:07:21 AM	17714
Ethylbenzene	ND	0.048		mg/Kg	1	2/13/2015 11:07:21 AM	17714
Xylenes, Total	ND	0.096		mg/Kg	1	2/13/2015 11:07:21 AM	17714
Surr: 4-Bromofluorobenzene	96.2	80-120		%REC	1	2/13/2015 11:07:21 AM	17714

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 Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1502524

Date Reported: 2/16/2015

CLIENT: Animas Environmental

Client Sample ID: SC-2

Project: CoP Moore LS # 1B

Collection Date: 2/11/2015 2:15:00 PM

Lab ID: 1502524-002

Matrix: SOIL

Received Date: 2/12/2015 7:28:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	2/12/2015 3:23:59 PM	17710
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	2/12/2015 3:23:59 PM	17710
Surr: DNOP	99.4	63.5-128		%REC	1	2/12/2015 3:23:59 PM	17710
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/13/2015 12:33:31 PM	17714
Surr: BFB	91.3	80-120		%REC	1	2/13/2015 12:33:31 PM	17714
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	2/13/2015 12:33:31 PM	17714
Toluene	ND	0.050		mg/Kg	1	2/13/2015 12:33:31 PM	17714
Ethylbenzene	ND	0.050		mg/Kg	1	2/13/2015 12:33:31 PM	17714
Xylenes, Total	ND	0.099		mg/Kg	1	2/13/2015 12:33:31 PM	17714
Surr: 4-Bromofluorobenzene	100	80-120		%REC	1	2/13/2015 12:33:31 PM	17714

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	Page 2 of 10
	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 Not In Range	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

Analytical Report

Lab Order 1502524

Date Reported: 2/16/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental

Client Sample ID: SC-3

Project: CoP Moore LS # 1B

Collection Date: 2/11/2015 2:20:00 PM

Lab ID: 1502524-003

Matrix: SOIL

Received Date: 2/12/2015 7:28:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	2/12/2015 3:45:36 PM	17710
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	2/12/2015 3:45:36 PM	17710
Surr: DNOP	99.6	63.5-128		%REC	1	2/12/2015 3:45:36 PM	17710
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	2/13/2015 10:07:45 PM	17714
Surr: BFB	91.1	80-120		%REC	1	2/13/2015 10:07:45 PM	17714
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.047		mg/Kg	1	2/13/2015 10:07:45 PM	17714
Toluene	ND	0.047		mg/Kg	1	2/13/2015 10:07:45 PM	17714
Ethylbenzene	ND	0.047		mg/Kg	1	2/13/2015 10:07:45 PM	17714
Xylenes, Total	ND	0.095		mg/Kg	1	2/13/2015 10:07:45 PM	17714
Surr: 4-Bromofluorobenzene	97.0	80-120		%REC	1	2/13/2015 10:07:45 PM	17714

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 Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1502524

Date Reported: 2/16/2015

CLIENT: Animas Environmental

Client Sample ID: SC-4

Project: CoP Moore LS # 1B

Collection Date: 2/11/2015 2:10:00 PM

Lab ID: 1502524-004

Matrix: SOIL

Received Date: 2/12/2015 7:28:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	2/12/2015 4:07:06 PM	17710
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	2/12/2015 4:07:06 PM	17710
Surr: DNOP	101	63.5-128		%REC	1	2/12/2015 4:07:06 PM	17710
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/13/2015 10:36:22 PM	17714
Surr: BFB	90.6	80-120		%REC	1	2/13/2015 10:36:22 PM	17714
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	2/13/2015 10:36:22 PM	17714
Toluene	ND	0.050		mg/Kg	1	2/13/2015 10:36:22 PM	17714
Ethylbenzene	ND	0.050		mg/Kg	1	2/13/2015 10:36:22 PM	17714
Xylenes, Total	ND	0.10		mg/Kg	1	2/13/2015 10:36:22 PM	17714
Surr: 4-Bromofluorobenzene	96.2	80-120		%REC	1	2/13/2015 10:36:22 PM	17714

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	Page 4 of 10
	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 Not In Range	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1502524

Date Reported: 2/16/2015

CLIENT: Animas Environmental

Client Sample ID: SC-5

Project: CoP Moore LS # 1B

Collection Date: 2/11/2015 2:26:00 PM

Lab ID: 1502524-005

Matrix: MEOH (SOIL)

Received Date: 2/12/2015 7:28:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	2/12/2015 12:10:38 PM	17710
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	2/12/2015 12:10:38 PM	17710
Surr: DNOP	102	63.5-128		%REC	1	2/12/2015 12:10:38 PM	17710
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	4.0	2.5		mg/Kg	1	2/12/2015 11:10:25 AM	17666
Surr: BFB	136	80-120	S	%REC	1	2/12/2015 11:10:25 AM	17666
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	2/12/2015 11:10:25 AM	17666
Toluene	ND	0.025		mg/Kg	1	2/12/2015 11:10:25 AM	17666
Ethylbenzene	ND	0.025		mg/Kg	1	2/12/2015 11:10:25 AM	17666
Xylenes, Total	0.19	0.050		mg/Kg	1	2/12/2015 11:10:25 AM	17666
Surr: 4-Bromofluorobenzene	102	80-120		%REC	1	2/12/2015 11:10:25 AM	17666

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 Not In Range
RL	Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1502524

16-Feb-15

Client: Animas Environmental

Project: CoP Moore LS # 1B

Sample ID	MB-17710	SampType:	MBLK	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	17710	RunNo:	24258					
Prep Date:	2/12/2015	Analysis Date:	2/12/2015	SeqNo:	714976	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.1		10.00		91.5	63.5	128			

Sample ID	LCS-17710	SampType:	LCS	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	17710	RunNo:	24260					
Prep Date:	2/12/2015	Analysis Date:	2/12/2015	SeqNo:	714989	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	96.2	67.8	130			
Surr: DNOP	5.0		5.000		101	63.5	128			

Sample ID	1502524-001AMS	SampType:	MS	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	SC-1	Batch ID:	17710	RunNo:	24260					
Prep Date:	2/12/2015	Analysis Date:	2/12/2015	SeqNo:	715176	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52	9.8	49.21	0	106	29.2	176			
Surr: DNOP	5.4		4.921		110	63.5	128			

Sample ID	1502524-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	SC-1	Batch ID:	17710	RunNo:	24260					
Prep Date:	2/12/2015	Analysis Date:	2/12/2015	SeqNo:	715209	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	9.9	49.26	0	101	29.2	176	4.88	23	
Surr: DNOP	5.6		4.926		114	63.5	128	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 Not In Range
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1502524

16-Feb-15

Client: Animas Environmental

Project: CoP Moore LS # 1B

Sample ID	MB-17666		SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	PBS		Batch ID: 17666		RunNo: 24264					
Prep Date:	2/10/2015		Analysis Date: 2/12/2015		SeqNo: 715459		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	860		1000		85.5	80	120			

Sample ID	LCS-17666		SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	LCSS		Batch ID: 17666		RunNo: 24264					
Prep Date:	2/10/2015		Analysis Date: 2/12/2015		SeqNo: 715460		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	110	64	130			
Surr: BFB	960		1000		95.7	80	120			

Sample ID	MB-17714		SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	PBS		Batch ID: 17714		RunNo: 24310					
Prep Date:	2/12/2015		Analysis Date: 2/13/2015		SeqNo: 716430		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	890		1000		88.8	80	120			

Sample ID	LCS-17714		SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	LCSS		Batch ID: 17714		RunNo: 24310					
Prep Date:	2/12/2015		Analysis Date: 2/13/2015		SeqNo: 716432		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	108	64	130			
Surr: BFB	950		1000		95.4	80	120			

Sample ID	1502524-001AMS		SampType: MS		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	SC-1		Batch ID: 17714		RunNo: 24310					
Prep Date:	2/12/2015		Analysis Date: 2/13/2015		SeqNo: 716435		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	31	4.8	23.92	0	130	47.9	144			
Surr: BFB	950		956.9		99.3	80	120			

Sample ID	1502524-001AMSD		SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	SC-1		Batch ID: 17714		RunNo: 24310					
Prep Date:	2/12/2015		Analysis Date: 2/13/2015		SeqNo: 716436		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

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 Not In Range
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1502524

16-Feb-15

Client: Animas Environmental

Project: CoP Moore LS # 1B

Sample ID	1502524-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	SC-1	Batch ID:	17714	RunNo:	24310					
Prep Date:	2/12/2015	Analysis Date:	2/13/2015	SeqNo:	716436	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	4.8	23.88	0	119	47.9	144	9.21	29.9	
Surr: BFB	940		955.1		98.7	80	120	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 Not In Range
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1502524

16-Feb-15

Client: Animas Environmental

Project: CoP Moore LS # 1B

Sample ID	MB-17666		SampType:	MBLK		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	PBS		Batch ID:	17666		RunNo:	24264			
Prep Date:	2/10/2015		Analysis Date:	2/12/2015		SeqNo:	715490		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	0.92		1.000		92.5	80	120			

Sample ID	LCS-17666		SampType:	LCS		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	LCSS		Batch ID:	17666		RunNo:	24264			
Prep Date:	2/10/2015		Analysis Date:	2/12/2015		SeqNo:	715491		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	109	80	120			
Toluene	1.1	0.050	1.000	0	108	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	1.0		1.000		103	80	120			

Sample ID	MB-17714		SampType:	MBLK		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	PBS		Batch ID:	17714		RunNo:	24310			
Prep Date:	2/12/2015		Analysis Date:	2/13/2015		SeqNo:	716465		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	0.96		1.000		95.6	80	120			

Sample ID	LCS-17714		SampType:	LCS		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	LCSS		Batch ID:	17714		RunNo:	24310			
Prep Date:	2/12/2015		Analysis Date:	2/13/2015		SeqNo:	716466		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	107	80	120			
Toluene	1.1	0.050	1.000	0	106	80	120			
Ethylbenzene	1.1	0.050	1.000	0	107	80	120			
Xylenes, Total	3.2	0.10	3.000	0	106	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	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 Not In Range

RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1502524

16-Feb-15

Client: Animas Environmental

Project: CoP Moore LS # 1B

Sample ID	1502524-002AMS	SampType: MS			TestCode: EPA Method 8021B: Volatiles					
Client ID:	SC-2	Batch ID: 17714			RunNo: 24310					
Prep Date:	2/12/2015	Analysis Date: 2/13/2015			SeqNo: 716469		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.050	0.9950	0	112	69.2	126			
Toluene	1.1	0.050	0.9950	0.008750	113	65.6	128			
Ethylbenzene	1.2	0.050	0.9950	0	116	65.5	138			
Xylenes, Total	3.6	0.10	2.985	0.04389	118	63	139			
Surr: 4-Bromofluorobenzene	1.1		0.9950		109	80	120			

Sample ID	1502524-002AMSD	SampType:	MSD	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	SC-2	Batch ID:	17714	RunNo:	24310					
Prep Date:	2/12/2015	Analysis Date:	2/13/2015	SeqNo:	716470	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.2	0.050	0.9930	0	118	69.2	126	4.69	18.5	
Toluene	1.2	0.050	0.9930	0.008750	117	65.6	128	3.30	20.6	
Ethylbenzene	1.2	0.050	0.9930	0	120	65.5	138	2.94	20.1	
Xylenes, Total	3.5	0.099	2.979	0.04389	117	63	139	1.43	21.1	
Surr: 4-Bromofluorobenzene	1.0		0.9930		105	80	120	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 Not In Range
- 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: 1502524

RcptNo: 1

Received by/date:

Logged By: Lindsay Mangin

2/12/2015 7:28:00 AM

Completed By: Lindsay Mangin

2/12/2015 8:12:05 AM

Reviewed By:

CS

02/12/15

Chain of Custody

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

Log In

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

Special Handling (if applicable)

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

Person Notified:

Date:

By Whom:

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

17. Additional remarks:

18. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.1	Good	Yes			

