

District I
1625 N French Dr., Hobbs, NM 88240
District II
811 S. First St., 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 in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company ConocoPhillips Company	Contact Ashley Maxwell
Address 3401 E. 30th St., Farmington, NM 87402	Telephone No. 505-324-5169
Facility Name Moore LS 5B	Facility Type Gas Well Lease # SF-078147
Surface Owner Federal	Mineral Owner Federal API No. 3004535266

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
E	24	32N	12W	2020'	North	750'	West	San Juan County

Latitude 36.973258 ° N Longitude -108.052767 ° W

NATURE OF RELEASE

Type of Release KCL Water	Volume of Release 30 BBL	Volume Recovered 0 BBL
Source of Release Frac Tank	Date and Hour of Occurrence Unknown	Date and Hour of Discovery 1/16/2012 7:00 a.m.
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Brandon Powell – NMOCD Mark Kelly – BLM FFO	
By Whom? Ashley Maxwell	Date and Hour NMOCD – 1/17/2012 @ 9:08 AM BLM FFO – 1/17/2012 @ 9:06 AM	
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.*		
Describe Cause of Problem and Remedial Action Taken.* A frac tank leaked releasing 30 BBL of KCL. Leak remained on location with zero BBL recovered.		
Describe Area Affected and Cleanup Action Taken.* COPC will assess the soil and determine a path forward for clean-up. Samples were collected and analytical results for benzene, BTEX and TPH were below the regulatory standards set forth in the NMOCD Guidelines for Remediation of Leaks, Spills and Release; therefore no further action is required.		
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: Ashley Maxwell	Approved by Environmental Specialist: 	
Title: Field Environmental Specialist	Approval Date: 7/25/2012 Expiration Date:	
E-mail Address: ashley.p.wethington@conocophillips.com	Conditions of Approval: Chlorides sample Attached <input type="checkbox"/>	
Date: May 15, 2012 Phone: 505-324-5169	Required due to type of fluid released	

* Attach Additional Sheets If Necessary

nJR 1220736658



Animas Environmental Services, LLC

www.animasenvironmental.com

May 8, 2012

Ashley Maxwell
ConocoPhillips
San Juan Business Unit
Office 216-2
5525 Hwy 64
Farmington, NM 87401

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

Durango, Colorado
970-403-3274

**RE: Moore LS 5B Release Assessment Report
San Juan County, New Mexico**

RCVD MAY 17 '12

OIL CONS. DIV.

Dear Ms. Maxwell:

DIST. 3

Animas Environmental Services, LLC (AES) is pleased to provide the final report associated with a well fracturing tank release assessment at ConocoPhillips (CoP) Moore LS 5B, located in San Juan County, New Mexico. The release was a result of a leaking tank that contained potassium chloride solution that was used during hydraulic fracturing activities at the Moore LS 5B natural gas well.

1.0 Site Information

1.1 Location

Site Name – Moore LS 5B

Legal Description - SW¼ NW¼, Section 24, T32N, R12W, San Juan County, New Mexico

Release Latitude/Longitude – N36.97312 and W108.05284, respectively

Well Latitude/Longitude – N36.97336, W108.05324, respectively

Land Jurisdiction - Bureau of Land Management (BLM)

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Location Map

Figure 3. Sample Location and Results Map, April 2012

1.2 NMOCD Ranking

Prior to site work, the New Mexico Oil Conservation Division (NMOCD) and New Mexico Office of the State Engineer (NMOSE) databases were reviewed, and no prior ranking information was located. Once on site, AES personnel assessed the ranking using known information of the area, topographical interpretation, Global Positioning System (GPS) elevation readings, and visual reconnaissance. AES personnel concluded that depth to groundwater at the site was greater than 100 feet below ground surface (bgs); distance

to the nearest surface water is approximately 300 feet west-northwest (unnamed wash); and the location is not within a well-head protection area. The site location has been assigned a ranking score of 10 per the NMOCD *Guidelines for Leaks, Spills, and Releases* (1993).

1.3 Release Assessment

AES was initially contacted by Ashley Maxwell, CoP representative, on April 3, 2012, and on the same day, AES personnel collected one soil sample (SC-1) from the release area, which was identified by visibly stained soil. The 5-point composite soil sample was collected from the area where the frac tanks were located during the well fracturing activities. The composite sample was submitted for laboratory analysis.

2.0 Soil Sampling

The composite soil sample was collected from the ground surface and field-screened for volatile organic compounds (VOCs). The sample was also submitted for laboratory analysis. The soil sample location is included on Figure 3.

2.1 Soil Field Screening

A portion of the sample was utilized for field screening of VOC vapors 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.

2.2 Soil Laboratory Analyses

The composite soil sample SC-1 collected for laboratory analysis was 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, to Hall Environmental Analysis Laboratory (Hall), located in Albuquerque, New Mexico. The soil sample was laboratory analyzed for:

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

2.3 Soil Field and Laboratory Analytical Results

Field screening for VOCs in SC-1 had a reported OVM result of 0.0 ppm. Laboratory analytical results showed that benzene, total BTEX, and TPH concentrations were below laboratory detection limits. Field screening and laboratory results are summarized in Table 1 and on Figure 3. The laboratory analytical report is attached.

Table 1. Soil OVMs and Laboratory Analytical Results, Moore LS 5B, April 2012

Sample ID	Date	Depth (ft)	OVM (ppm)	Benzene (mg/kg)	BTEX (mg/kg)	TPH- GRO (mg/kg)	TPH- DRO (mg/kg)
NMOCD Action Level*			100	10	50	1,000	
SC-1	04/03/12	Surface	0.0	<0.050	<0.25	<5.0	<9.9

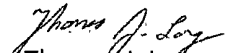
*Action level determined by the NMOCD ranking score per *NMOCD Guidelines for Leaks, Spills, and Releases* (August 1993)

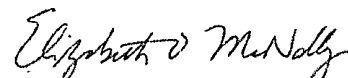
3.0 Conclusions and Recommendations

AES completed a release assessment at the Moore LS 5B on April 3, 2012. The release was associated with a potassium chloride tank used in hydraulic fracturing activities at the site. NMOCD action levels for releases are specified in *NMOCD's Guidelines for Leaks, Spills, and Releases* (August 1993). Soil field screening for VOCs and laboratory analytical results showed that benzene, BTEX and TPH concentrations were below the NMOCD action levels for SC-1. No further work is recommended.

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

Sincerely,

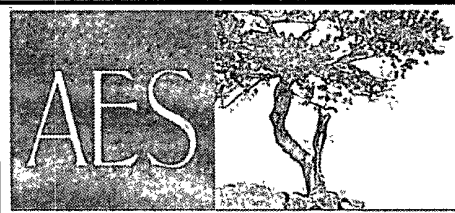
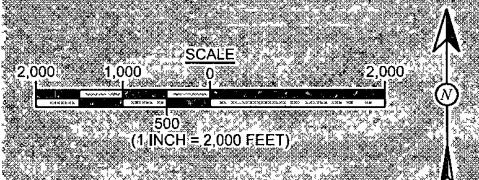
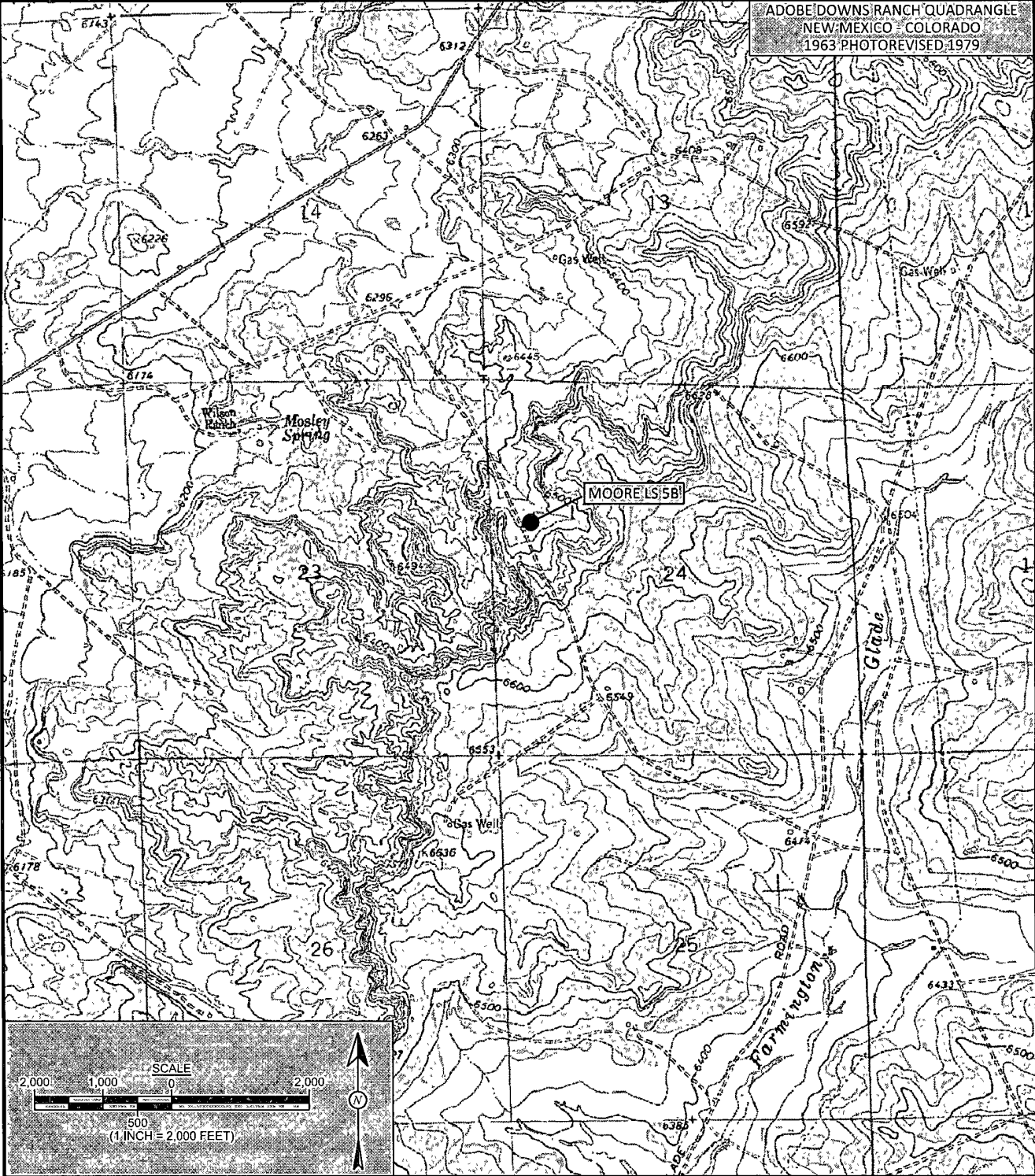

Thomas J. Long
Project Manager


Elizabeth McNally, P.E.

Attachments:

- Figure 1. Topographic Site Location Map
- Figure 2. Aerial Site Location Map
- Figure 3. Sample Location and Results Map, April 2012
- Hall Analytical Report 1204145

ADOBE DOWNS RANCH QUADRANGLE
 NEW MEXICO - COLORADO
 1963 PHOTO REVISÉD 1979

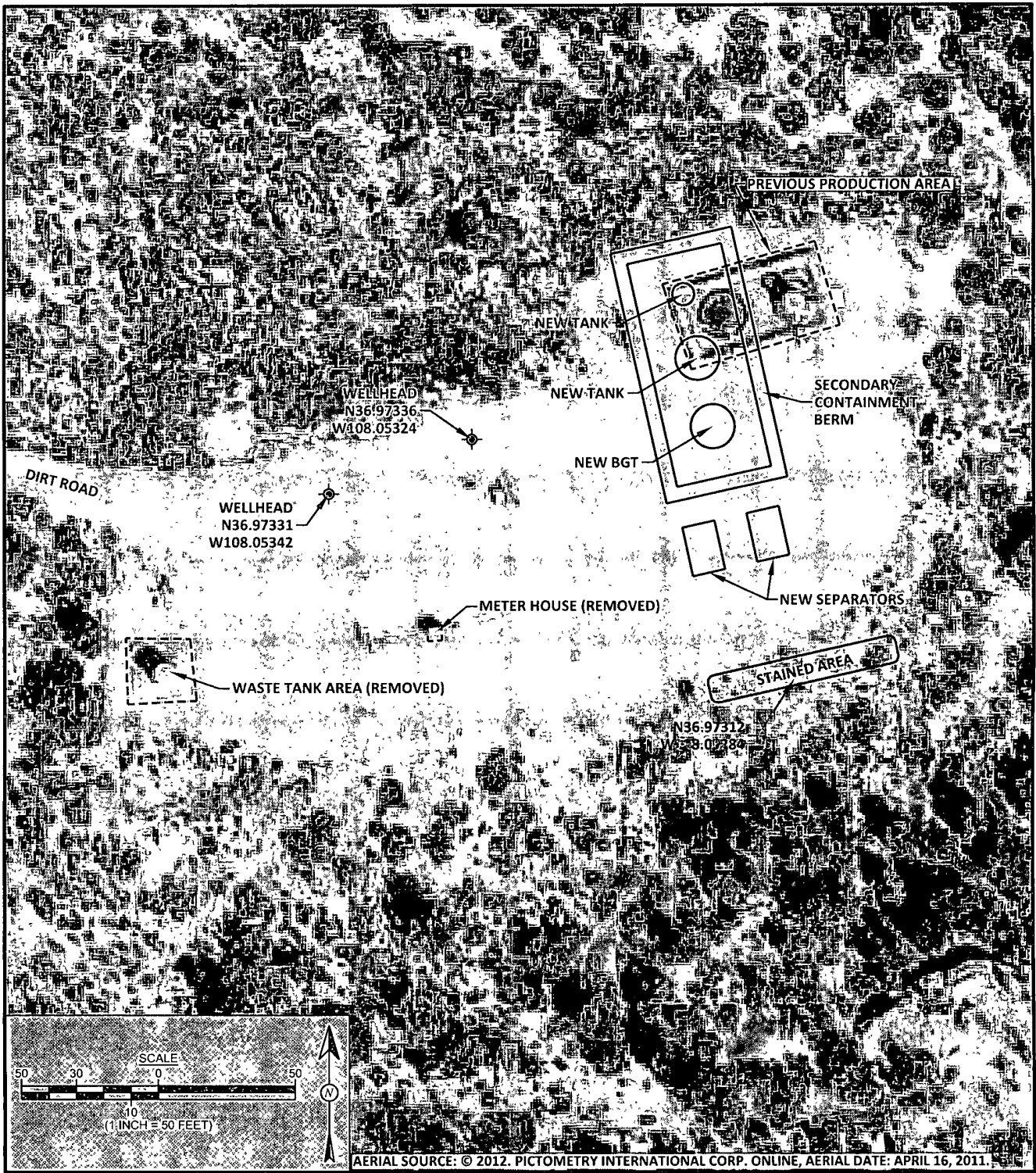


Animas Environmental Services, LLC

DRAWN BY: C Lameman	DATE DRAWN: April 4, 2012
REVISIONS BY: C Lameman	DATE REVISED: April 4, 2012
CHECKED BY: T. Long	DATE CHECKED: April 4, 2012
APPROVED BY: R Kennemer	DATE APPROVED: April 4, 2012

FIGURE 1

TOPOGRAPHIC SITE LOCATION MAP
 ConocoPhillips
 MOORE LS 5B
 SAN JUAN COUNTY, NEW MEXICO
 SW¼, NW¼, SECTION 24, T32N, R12W
 N36 97336, W108.05324



DRAWN BY: C. Lameman	DATE DRAWN: April 4, 2012
REVISIONS BY: C. Lameman	DATE REVISED: April 4, 2012
CHECKED BY: T. Long	DATE CHECKED: April 4, 2012
APPROVED BY: R. Kennemer	DATE APPROVED: April 4, 2012

FIGURE 2

AERIAL SITE LOCATION MAP
 ConocoPhillips
 MOORE LS 5B
 SAN JUAN COUNTY, NEW MEXICO
 SW¼, NW¼, SECTION 24, T32N, R12W
 N36.97336, W108.05324

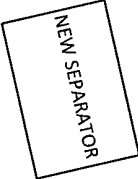
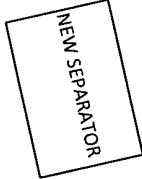
LEGEND
 ● SAMPLE LOCATION

Soil Laboratory Analytical Results							
Sample ID	Date	Depth (ft)	OVM-PID (ppm)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)
NMOCD Action Level			100	10	50	1,000	
SC-1	4/3/12	Surface	0.0	<0.050	<0.25	<5.0	<9.9

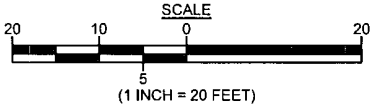
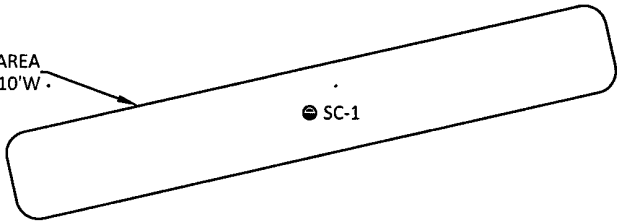
Note: NA = Not Analyzed



SECONDARY CONTAINMENT BERM



STAINED AREA
70'L x 10'W



HILL SLOPE

HILL SLOPE



Animas Environmental Services, LLC

DRAWN BY: C. Lameman	DATE DRAWN: April 4, 2012
REVISIONS BY: C. Lameman	DATE REVISED: April 4, 2012
CHECKED BY: T Long	DATE CHECKED: April 4, 2012
APPROVED BY: R Kenemer	DATE APPROVED: April 4, 2012

FIGURE 3

SAMPLE LOCATION AND RESULTS
APRIL 2012
 ConocoPhillips
 MOORE LS 5B
 SAN JUAN COUNTY, NEW MEXICO
 SW¼, NW¼, SECTION 24, T32N, R12W
 N36.97336, W108.05324



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

April 05, 2012

Ross Kennemer
Animas Environmental Services
624 East Comanche
Farmington, NM 87401
TEL: (505) 564-2281
FAX (505) 324-2022

RE: CoP Moore LS 5B

OrderNo.: 1204145

Dear Ross Kennemer:

Hall Environmental Analysis Laboratory received 1 sample(s) on 4/4/2012 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. 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. All samples are reported as received unless otherwise indicated.

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services **Client Sample ID:** SC-1
Project: CoP Moore LS 5B **Collection Date:** 4/3/2012 11:02:00 AM
Lab ID: 1204145-001 **Matrix:** MEOH (SOIL) **Received Date:** 4/4/2012 9:49:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst JMP
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	4/4/2012 12 05 16 PM
Surr DNOP	84.2	77.4-131		%REC	1	4/4/2012 12 05 16 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/4/2012 11 33 27 AM
Surr BFB	94.4	69.7-121		%REC	1	4/4/2012 11 33 27 AM
EPA METHOD 8021B: VOLATILES						Analyst NSB
Benzene	ND	0.050		mg/Kg	1	4/4/2012 11 33 27 AM
Toluene	ND	0.050		mg/Kg	1	4/4/2012 11 33 27 AM
Ethylbenzene	ND	0.050		mg/Kg	1	4/4/2012 11 33 27 AM
Xylenes, Total	ND	0.10		mg/Kg	1	4/4/2012 11 33 27 AM
Surr 4-Bromofluorobenzene	91.1	80-120		%REC	1	4/4/2012 11 33 27 AM

Qualifiers: */X Value exceeds Maximum Contaminant Level
 E Value above quantitation range
 J Analyte detected below quantitation limits
 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
 RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1204145

05-Apr-12

Client: Animas Environmental Services

Project: CoP Moore LS 5B

Sample ID MB-1369	SampType: MBLK	TestCode: EPA Method 8015B: Diesel Range Organics								
Client ID: PBS	Batch ID: 1369	RunNo: 1889								
Prep Date: 4/4/2012	Analysis Date: 4/4/2012	SeqNo: 52862	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		82.2	77.4	131			

Sample ID LCS-1369	SampType: LCS	TestCode: EPA Method 8015B: Diesel Range Organics								
Client ID: LCSS	Batch ID: 1369	RunNo: 1889								
Prep Date: 4/4/2012	Analysis Date: 4/4/2012	SeqNo: 52877	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42	10	50.00	0	83.4	62.7	139			
Surr: DNOP	4.0		5.000		79.7	77.4	131			

Qualifiers:

- * / X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD 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
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1204145

05-Apr-12

Client: Animas Environmental Services

Project: CoP Moore LS 5B

Sample ID	MB-1361	SampType	MBLK	TestCode	EPA Method 8015B: Gasoline Range					
Client ID	PBS	Batch ID	1361	RunNo	1907					
Prep Date	4/3/2012	Analysis Date	4/4/2012	SeqNo	53409	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	980		1,000		97.8	69.7	121			

Sample ID	LCS-1361	SampType	LCS	TestCode	EPA Method 8015B: Gasoline Range					
Client ID	LCSS	Batch ID	1361	RunNo	1907					
Prep Date	4/3/2012	Analysis Date	4/4/2012	SeqNo	53410	Units	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	31	5.0	25.00	0	124	98.5	133			
Surr BFB	1,100		1,000		107	69.7	121			

Qualifiers:

*X Value exceeds Maximum Contaminant Level
 E Value above quantitation range
 J Analyte detected below quantitation limits
 R RPD 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
 RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1204145

05-Apr-12

Client: Animas Environmental Services

Project: CoP Moore LS 5B

Sample ID	MB-1361	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	1361	RunNo:	1908					
Prep Date:	4/3/2012	Analysis Date:	4/4/2012	SeqNo:	53510	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	0.95		1.000		95.3	80	120			

Sample ID	LCS-1361	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	1361	RunNo:	1908					
Prep Date:	4/3/2012	Analysis Date:	4/4/2012	SeqNo:	53511	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.050	1.000	0	91.5	83.3	107			
Toluene	0.92	0.050	1.000	0	91.8	74.3	115			
Ethylbenzene	0.91	0.050	1.000	0	91.2	80.9	122			
Xylenes, Total	2.7	0.10	3.000	0	91.5	85.2	123			
Surr. 4-Bromofluorobenzene	0.96		1.000		96.4	80	120			

Qualifiers:

* / X Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD 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
RL Reporting Detection Limit



Hall Environmental Analysis Laboratory
 4901 Hawkins NE
 Albuquerque, NM 87105
 TEL 505-345-3975 FAX 505-345-4107
 Website www.hallenvironmental.com

Sample Log-In Check List

Client Name **Animas Environmental** Work Order Number: **1204145**

Received by/date: *AG* *04/04/12*
 Logged By: **Michelle Garcia** **4/4/2012 9:49:00 AM** *Michelle Garcia*
 Completed By: **Michelle Garcia** **4/4/2012 9:59:51 AM** *Michelle Garcia*
 Reviewed By: *[Signature]* *04/04/12*

Chain of Custody

- 1. Were seals intact? Yes No Not Present
- 2. Is Chain of Custody complete? Yes No Not Present
- 3. How was the sample delivered? **GREYHOUND**

Log In

- 4. Coolers are present? (see 19 for cooler specific information) Yes No NA
- 5. Was an attempt made to cool the samples? Yes No NA
- 6. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
- 7. Sample(s) in proper container(s)? Yes No
- 8. Sufficient sample volume for indicated test(s)? Yes No
- 9. Are samples (except VOA and ONG) properly preserved? Yes No
- 10. Was preservative added to bottles? Yes No NA
- 11. VOA vials have zero headspace? Yes No No VOA Vials
- 12. Were any sample containers received broken? Yes No
- 13. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes No ; # of preserved bottles checked for pH.
- 14. Are matrices correctly identified on Chain of Custody? Yes No (<2 or >12 unless noted)
- 15. Is it clear what analyses were requested? Yes No Adjusted?
- 16. Were all holding times able to be met? (If no, notify customer for authorization) Yes No Checked by

Special Handling (if applicable)

- 17. 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: _____

18. Additional remarks:

19. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.8	Good	Yes			

Chain of Custody Record

Client: **Animas Environmental Services**

Mailing Address: **624 E Comanche Farmington NM
Farmington, NM 87401**

Phone #: **505-564-2281**

email or Fax#: **505-324-2022**

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

Accreditation:
 NELAP Other _____

EDD (Type) _____

Standard Rush: **SAME DAY**

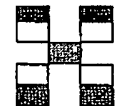
Project Name: **CoP Moore LS 5B**

Project #:

Project Manager: **Ross Kennemer**

Sampler: **Thomas Long**

Office: _____
 State: _____
 Date: _____



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	EA No.	8021 BTEX	8015 DRO/GRO										
4/3/2012	11:02	Soil	SC-1	4 oz Jar/40 ml VOAs	Ice/Methanol	- 001	x	x										

Date: 4-3-12	Time: 1535	Relinquished by: <i>Thomas Long</i>	Received by: <i>Christine Walden</i>	Date: 4/3/12	Time: 1535
Date: 4/3/12	Time: 1627	Relinquished by: <i>Christine Walden</i>	Received by: <i>[Signature]</i>	Date: 04/04/12	Time: 0949

Remarks: **Bill Conoco Phillips**

WO: **8941988** User ID: **GARRECD**

Area: **1** ordered by: **Ashley Maxwell**

Supervisor: **Richard Lopez**

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 re