

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

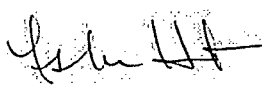
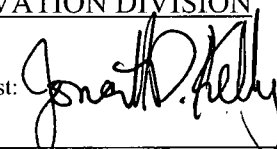
Name of Company: Burlington Resources, a Wholly owned Subsidiary of ConocoPhillips Company	Contact Lisa Hunter	
Address 3401 East 30th Street, Farmington, NM	Telephone No. 505-326-9786	
Facility Name San Juan 27-4 Unit 38N	Facility Type Gas Well	
Surface Owner Forest	Mineral Owner Federal	API No. 3003927633

LOCATION OF RELEASE

Unit Letter N	Section 6	Township 27N	Range 4W	Feet from the 40'	North/South Line South	Feet from the 2350'	East/West Line West	County Rio Arriba
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Latitude 36.59488 Longitude -107.29214

NATURE OF RELEASE

Type of Release Produced Water	Volume of Release Produced Water 13.41 BBLs	Volume Recovered 15 Gal
Source of Release Production Tank	Date and Hour of Occurrence Unknown	Date and Hour of Discovery 03-14-2013; 11:30 AM
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. RCVD MAY 10 '13 OIL CONS. DIV.	
If a Watercourse was Impacted, Describe Fully.* N/A	DIST. 3	
Describe Cause of Problem and Remedial Action Taken.* Production tank developed a small leak due to corrosion causing the release of 13.41 BBLs of Produced Water. 15 gallons were recovered. Spill as contained within Berm.		
Describe Area Affected and Cleanup Action Taken.* ConocoPhillips will replace the tank and assess the soils to determine further action, if needed. 03/31/13 Soils assessed and laboratory analytical results were below NMOCD action levels. No further remediation required. 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: Lisa Hunter	Approved by Environmental Specialist: 	
Title: Field Environmental Specialist	Approval Date: 11/8/2013	Expiration Date:
E-mail Address: Lisa.Hunter@cop.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: May 9, 2013 Phone: 505-326-9786		

* Attach Additional Sheets If Necessary

n5K 1331251612



Animas Environmental Services, LLC

www.animasenvironmental.com

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

Durango, Colorado
970-403-3084

April 10, 2013

Lisa Hunter
ConocoPhillips
San Juan Business Unit
Office 214-4
5525 Hwy 64
Farmington, New Mexico 87401

**RE: Initial Release Assessment Report
San Juan 27-4 #38N
Rio Arriba County, New Mexico**

RCVD MAY 10 '13

OIL CONS. DIV.

DIST. 3

Dear Ms. Hunter:

On March 21, 2012, Animas Environmental Services, LLC (AES) completed an initial release assessment at the ConocoPhillips (CoP) San Juan 27-4 #38N, located in Rio Arriba County, New Mexico. The reported release consisted of approximately 13.4 barrels (bbls) of produced water from a production tank at the location, of which 15 gallons were recovered.

1.0 Site Information

1.1 Location

Location - SE¼ SW¼, Section 6, T27N, R4W, Rio Arriba County, New Mexico
Well Head Latitude/Longitude - N36.59494 and W107.29279, respectively
Release Location Latitude/Longitude - N36.59517 and W107.29298, respectively
Land Jurisdiction - U.S. Forest Service
Figure 1. Topographic Site Location Map
Figure 2. Aerial Site Map, March 2013

1.2 NMOCD Ranking

Prior to site work, the New Mexico Oil Conservation Division (NMOCD) database was reviewed, and a Cathodic Protection Report dated February 1997 for the San Juan 27-4 #24 and #38 located approximately 2,000 to 2,200 feet to the northeast at a similar elevation to the release location reported the depth to groundwater as greater than 100 feet below ground surface (bgs). The New Mexico Office of the State Engineer (NMOSE) database was reviewed for nearby water wells, and no registered water wells were reported to be located within 1,000 feet of the location. Additionally, Google Earth and the New Mexico Tech Petroleum Recovery Research Center online mapping tool

(<http://ford.nmt.edu/react/project.html>) were accessed to aid in the identification of downgradient surface water.

Once on site, AES personnel further assessed the ranking using 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 bgs. An unnamed wash is located approximately 440 feet east of the location and drains to Tecolote Canyon. Based on this information, the location was assessed a ranking score of 10 per the NMOCD *Guidelines for Leaks, Spills, and Releases* (1993).

1.3 Assessments

AES was initially contacted by Lisa Hunter of CoP on March 19, 2013, and on March 21, 2013, Heather Woods and Corwin Lameman of AES completed the release assessment field work. The assessment included collection and field screening of four soil samples from two soil borings (SB-1 and SB-2). Additionally, a 5-point composite sample (SC-1) was collected from the release area for laboratory analysis. Sample locations are presented on Figure 3.

2.0 Soil Sampling

A total of four soil samples (SB-1 and SB-2) were collected during the assessment. All soil samples were field screened for volatile organic compounds (VOCs) and select samples were analyzed for total petroleum hydrocarbons (TPH). A composite sample (SC-1) collected from the release area during the initial assessment was submitted for laboratory analysis.

2.1 Field Screening

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 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 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. The sample was maintained on ice until delivery to the analytical laboratory, Hall Environmental Analysis Laboratory (Hall) in Albuquerque, New Mexico. The soil sample was laboratory analyzed for:

- Benzene, toluene, ethylbenzene, and xylene (BTEX) per U.S. Environmental Protection Agency (USEPA) Method 8021B;
- TPH for gasoline range organics (GRO) and diesel range organics (DRO) per USEPA Method 8015B; and
- Chloride per USEPA Method 300.0.

2.3 Field Screening and Laboratory Analytical Results

Assessment field screening readings for VOCs via OVM ranged from 3.5 ppm in SB-1 up to 10.8 ppm in SB-2. Field TPH concentrations were recorded as 28.2 mg/kg in SB-1 and 25.7 mg/kg in SB-2. Results are included below in Table 1 and on Figure 3. The AES Field Screening Report is attached.

Table 1. Soil Field Screening VOCs and TPH Results
San Juan 27-4 #38N Initial Release Assessment
March 2013

<i>Sample ID</i>	<i>Date Sampled</i>	<i>Sample Depth (ft bgs)</i>	<i>VOCs via OVM (ppm)</i>	<i>Field TPH (mg/kg)</i>
<i>NMOCD Action Level*</i>			100	1,000
SB-1	3/21/13	Surface	4.1	28.2
		2	3.5	NA
SB-2	3/21/13	Surface	10.8	25.7
		2	3.9	NA

NA – Not Analyzed

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

Laboratory analyses for SC-1 showed benzene and BTEX concentrations below the laboratory detection level of 0.047 mg/kg and 0.23 mg/kg, respectively. TPH concentrations were also below laboratory detection limits of 14.6 mg/kg and the chloride concentration was 15 mg/kg. Results are presented in Table 2 and on Figure 3. The laboratory analytical report is attached.

Table 2. Laboratory Analytical Results – Benzene, Total BTEX, TPH, and Chloride
San Juan 27-4 #38N Initial Release Assessment
March 2013

<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>Chloride (mg/kg)</i>
NMOCD Action Level*			10	50	1,000		----
SC-1	3/21/13	0 to 0.5	<0.047	<0.23	<4.7	<9.9	15

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

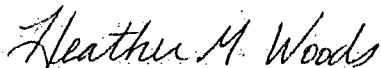
3.0 Conclusions and Recommendations

On March 31, 2013, AES conducted a release assessment associated with a 13.41 barrel produced water release from the production tank at the San Juan 27-4 #38N. Field screening results reported concentrations below the NMOCD action levels of 100 ppm VOCs and 1,000 mg/kg TPH in all samples (SB-1 and SB-2). Laboratory analytical results also reported concentrations below the NMOCD action levels of 10 mg/kg benzene, 50 mg/kg BTEX, and 1,000 mg/kg TPH (as GRO/DRO). The chloride concentration was 15 mg/kg in SC-1.

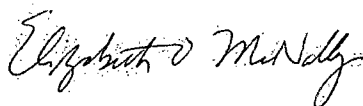
Based on field screening and laboratory analytical results, VOCs, benzene, total BTEX, and TPH concentrations were below applicable NMOCD action levels. No additional work is recommended for the San Juan 27-4 #38N produced water release.

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

Sincerely,



Heather M. Woods
Staff Geologist



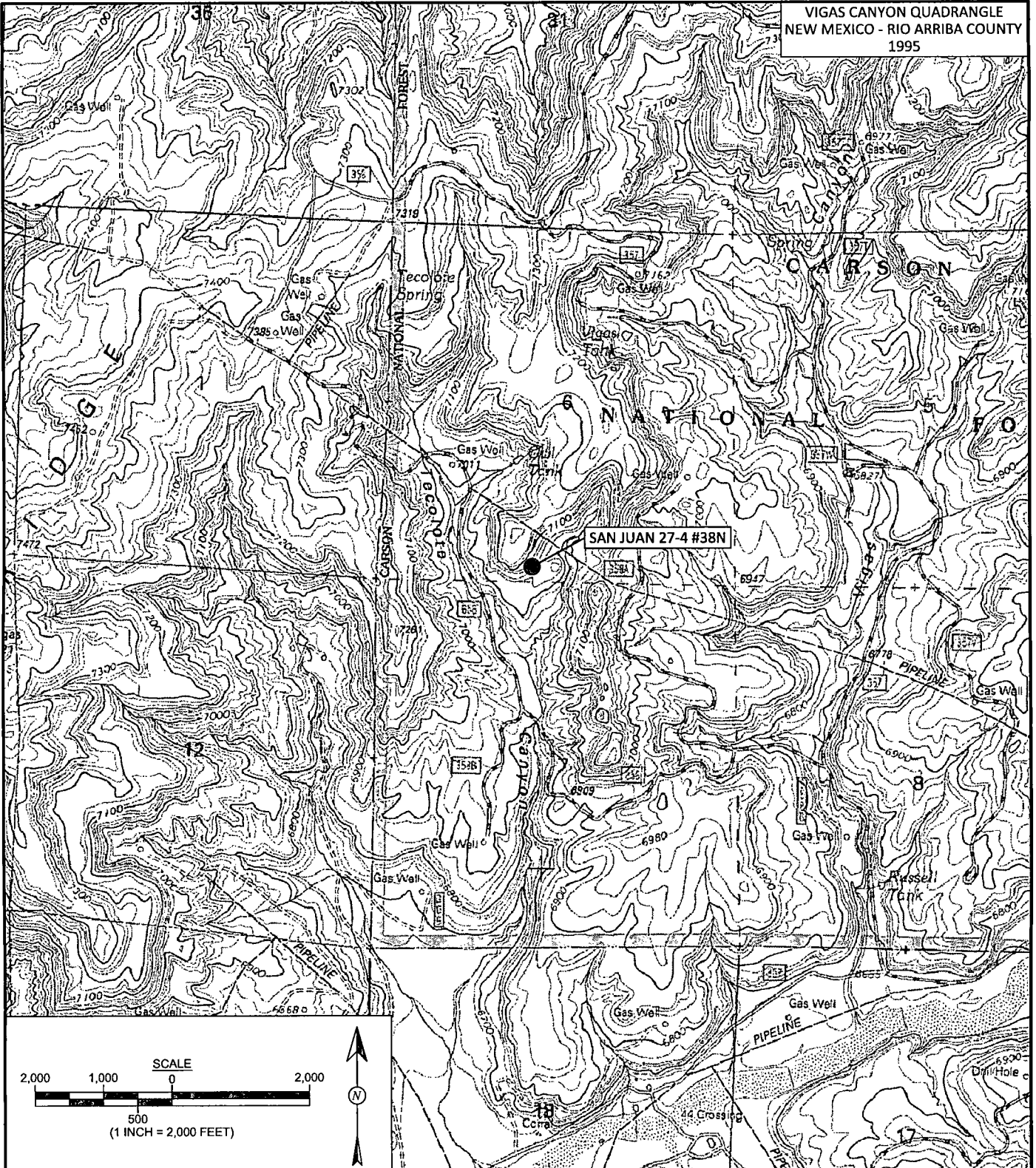
Elizabeth McNally, PE

Attachments:

- Figure 1. Topographic Site Location Map
- Figure 2. Aerial Site Map, March 2013
- Figure 3. Initial Assessment Soil Sample Locations and Results, March 2013
- AES Field Screening Report 032113
- Hall Laboratory Analytical Report 1303948

R:\Animas 2000\Dropbox\2013 Projects\ConocoPhillips\SJ 27-4 #38N\SJ 27-4 #38N Release Assessment Report 041013.docx

VIGAS CANYON QUADRANGLE
NEW MEXICO - RIO ARriba COUNTY
1995



Animas Environmental Services, LLC

DRAWN BY: C. Lameman	DATE DRAWN: April 2, 2013
REVISIONS BY: C. Lameman	DATE REVISED: April 2, 2013
CHECKED BY: D. Watson	DATE CHECKED: April 2, 2013
APPROVED BY: E. McNally	DATE APPROVED: April 2, 2013

FIGURE 1

TOPOGRAPHIC SITE LOCATION MAP

ConocoPhillips
SAN JUAN 27-4 #38N
SE¼ SW¼, SECTION 6, T27N, R4W
RIO ARriba COUNTY, NEW MEXICO
N36.59494, W107.29279

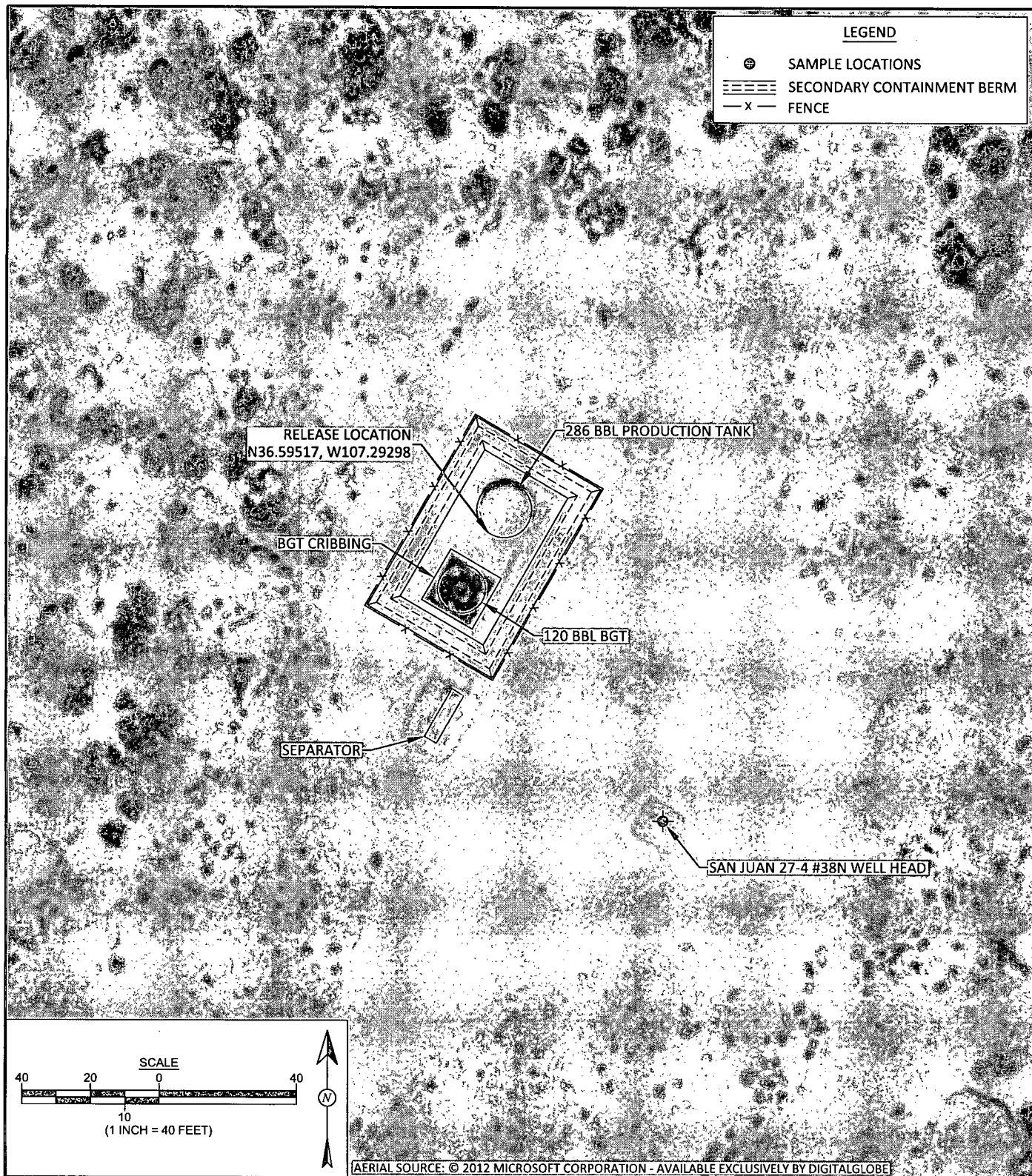


FIGURE 2

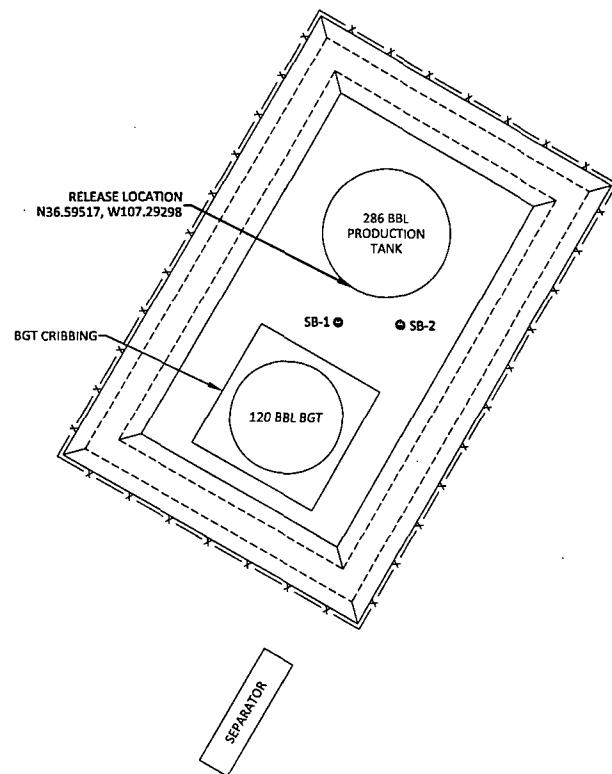
AERIAL SITE MAP MARCH 2013

ConocoPhillips
SAN JUAN 27-4 #38N
SE¼ SW¼, SECTION 6, T27N, R4W
RIO ARriba COUNTY, NEW MEXICO
N36.59494, W107.29279



Animas Environmental Services, LLC

DRAWN BY: C. Lameman	DATE DRAWN: April 2, 2013
REVISIONS BY: C. Lameman	DATE REVISED: April 2, 2013
CHECKED BY: D. Watson	DATE CHECKED: April 2, 2013
APPROVED BY: E. McNally	DATE APPROVED: April 2, 2013



Field Screening Results				
Sample ID	Date	Depth (ft)	OVM-PID (ppm)	TPH (mg/kg)
NMOCD ACTION LEVEL			100	1,000
SB-1	3/21/13	Surface	4.1	28.2
		2	3.5	NA
SB-2	3/21/13	Surface	10.8	25.7
		2	3.9	NA
NA - NOT ANALYZED				

Laboratory Analytical Results						
Sample ID	Date	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH - GRO (mg/kg)	TPH - DRO (mg/kg)	Chlorides (mg/kg)
NMOCD ACTION LEVEL		10	50	1,000		--
SC-1	3/21/13	<0.047	<0.234	<4.7	<9.9	15
SC-1 IS A 5-POINT COMPOSITE COLLECTED AT THE SURFACE IN THE AREA OF THE RELEASE. SAMPLE WAS ANALYZED PER EPA METHOD 8021B, 8015B, AND 300.0.						

SAN JUAN 27-4 #38N WELL HEAD

FIGURE 3

INITIAL ASSESSMENT SAMPLE LOCATIONS AND RESULTS
MARCH 2013
 ConocoPhillips
 SAN JUAN 27-4 #38N
 SE¼ SW¼, SECTION 6, T27N, R4W
 RIO ARriba COUNTY, NEW MEXICO
 N36.59494, W107.29279

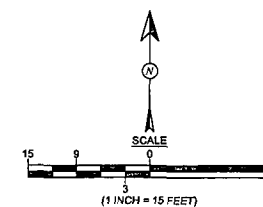


Animas Environmental Services, LLC

DRAWN BY: C. Lameman	DATE DRAWN: April 2, 2013
REVISIONS BY: C. Lameman	DATE REVISED: April 2, 2013
CHECKED BY: D. Watson	DATE CHECKED: April 2, 2013
APPROVED BY: E. McNally	DATE APPROVED: April 2, 2013

LEGEND

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



AES Field Screening 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 27-4 #38N

Date: 3/21/2013

Matrix: Soil

Sample ID	Collection Date	Collection Time	OVM (ppm)	Time of Sample Analysis	Field TPH* (mg/kg)	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SB-1 @ Surface	3/21/2013	15:28	4.1	15:56	28.2	20.0	1	HMW
SB-1 @ 2'	3/21/2013	15:30	3.5	Not Analyzed for TPH				
SB-2 @ Surface	3/21/2013	15:43	10.8	15:59	25.7	20.0	1	HMW
SB-2 @ 2'	3/21/2013		3.9	Not Analyzed for TPH				

Total Petroleum Hydrocarbons - USEPA 418.1

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

Analyst:

Heather M. Woods



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

April 01, 2013

Debbie Watson

Animas Environmental Services

624 East Comanche

Farmington, NM 87401

TEL: (505) 486-4071

FAX

RE: CoP San Juan 27-4 #38N

OrderNo.: 1303948

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 1 sample(s) on 3/23/2013 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. 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.

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 1303948

Date Reported: 4/1/2013

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Animas Environmental Services**Client Sample ID:** SC-1**Project:** CoP San Juan 27-4 #38N**Collection Date:** 3/21/2013 4:03:00 PM**Lab ID:** 1303948-001**Matrix:** SOIL**Received Date:** 3/23/2013 10:26:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: MMD
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	3/28/2013 11:02:44 AM
Surr: DNOP	106	72.4-120		%REC	1	3/28/2013 11:02:44 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/27/2013 4:06:41 PM
Surr: BFB	94.2	84-116		%REC	1	3/27/2013 4:06:41 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.047		mg/Kg	1	3/27/2013 4:06:41 PM
Toluene	ND	0.047		mg/Kg	1	3/27/2013 4:06:41 PM
Ethylbenzene	ND	0.047		mg/Kg	1	3/27/2013 4:06:41 PM
Xylenes, Total	ND	0.093		mg/Kg	1	3/27/2013 4:06:41 PM
Surr: 4-Bromofluorobenzene	99.5	80-120		%REC	1	3/27/2013 4:06:41 PM
EPA METHOD 300.0: ANIONS						Analyst: JRR
Chloride	15	7.5		mg/Kg	5	3/27/2013 10:41:45 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1303948

01-Apr-13

Client: Animas Environmental Services

Project: CoP San Juan 27-4 #38N

Sample ID	MB-6687	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	6687	RunNo:	9467					
Prep Date:	3/27/2013	Analysis Date:	3/27/2013	SeqNo:	270247	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-6687	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	6687	RunNo:	9467					
Prep Date:	3/27/2013	Analysis Date:	3/27/2013	SeqNo:	270248	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	16	1.5	15.00	0	104	90	110			

Sample ID	1303998-001AMS	SampType:	MS	TestCode:	EPA Method 300.0: Anions					
Client ID:	BatchQC	Batch ID:	6687	RunNo:	9467					
Prep Date:	3/27/2013	Analysis Date:	3/27/2013	SeqNo:	270252	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	16	15	15.00	0	110	64.4	117			

Sample ID	1303998-001AMSD	SampType:	MSD	TestCode:	EPA Method 300.0: Anions					
Client ID:	BatchQC	Batch ID:	6687	RunNo:	9467					
Prep Date:	3/27/2013	Analysis Date:	3/27/2013	SeqNo:	270253	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	15	15.00	0	103	64.4	117	6.37	20	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1303948

01-Apr-13

Client: Animas Environmental Services

Project: CoP San Juan 27-4 #38N

Sample ID	MB-6659	SampType:	MBLK	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	PBS	Batch ID:	6659	RunNo:	9417					
Prep Date:	3/26/2013	Analysis Date:	3/26/2013	SeqNo:	268861	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	10		10.00		103	72.4	120			

Sample ID	LCS-6659	SampType:	LCS	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	6659	RunNo:	9417					
Prep Date:	3/26/2013	Analysis Date:	3/26/2013	SeqNo:	268862	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.00	0	101	47.4	122			
Surr: DNOP	5.5		5.000		109	72.4	120			

Sample ID	1303982-001AMS	SampType:	MS	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	BatchQC	Batch ID:	6659	RunNo:	9477					
Prep Date:	3/26/2013	Analysis Date:	3/28/2013	SeqNo:	270691	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	130	9.7	48.73	63.36	142	12.6	148			
Surr: DNOP	5.4		4.873		111	72.4	120			

Sample ID	1303982-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	BatchQC	Batch ID:	6659	RunNo:	9477					
Prep Date:	3/26/2013	Analysis Date:	3/28/2013	SeqNo:	270692	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	120	10	51.39	63.36	111	12.6	148	7.59	22.5	
Surr: DNOP	5.8		5.139		113	72.4	120	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1303948

01-Apr-13

Client: Animas Environmental Services

Project: CoP San Juan 27-4 #38N

Sample ID	MB-6664	SampType:	MBLK	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	PBS	Batch ID:	6664	RunNo:	9453					
Prep Date:	3/26/2013	Analysis Date:	3/27/2013	SeqNo:	270328	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	900		1000		90.1	84	116			

Sample ID	LCS-6664	SampType:	LCS	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	LCSS	Batch ID:	6664	RunNo:	9453					
Prep Date:	3/26/2013	Analysis Date:	3/27/2013	SeqNo:	270340	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	106	62.6	136			
Surr: BFB	970		1000		97.3	84	116			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1303948

01-Apr-13

Client: Animas Environmental Services

Project: CoP San Juan 27-4 #38N

Sample ID	MB-6664	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles						
Client ID:	PBS	Batch ID: 6664		RunNo: 9453						
Prep Date:	3/26/2013	Analysis Date: 3/27/2013		SeqNo: 270399		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		100	80	120			

Sample ID	LCS-6664		SampType: LCS		TestCode: EPA Method 8021B: Volatiles					
Client ID:	LCSS		Batch ID: 6664		RunNo: 9453					
Prep Date:	3/26/2013		Analysis Date: 3/27/2013		SeqNo: 270406		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.050	1.000	0	95.0	80	120			
Toluene	0.98	0.050	1.000	0	98.4	80	120			
Ethylbenzene	1.0	0.050	1.000	0	99.9	80	120			
Xylenes, Total	3.1	0.10	3.000	0	105	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		107	80	120			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2
RL Reporting Detection Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

Sample Log-In Check List

Client Name: Anlmas Environmental

Work Order Number: 1303948

RcptNo: 1

Received by/date: 41 03/23/13

Logged By: Michelle Garcia **3/23/2013 10:26:00 AM**

Completed By: **Michelle Garcia** 3/25/2013 8:39:00 AM

Reviewed By: [Signature] 03/25/13

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

(<2)

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:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> 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	1.6	Good	Yes			

Chain-of-Custody Record		Turn-Around Time:
Client: <u>Animas Environmental Services</u>		<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush
Mailing Address: <u>624 E. Comanche</u>		Project Name: <u>CoP San Juan 27-4 #38N</u>
<u>Farmington, NM 87401</u>		Project #:
Phone #: <u>505-564-2281</u>		Project Manager: <u>D. Watson</u>
email or Fax#:		Sampler: <u>H. Woods / C. Lameman</u>
QA/QC Package:		On Ice <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Level 4 (Full Validation)		Sample Temperature: <u>1.6°C</u>
Accreditation		
<input type="checkbox"/> NELAP <input type="checkbox"/> Other		
<input type="checkbox"/> EDD (Type)		

Sample Temperature	16
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[illegible]

Remarks: Bill to ConocoPhillips
WO:
Supervisor: Freddy Proctor Requested by: Lisa Hunter
Area: 25
User: MK SPENC

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.