

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company ConocoPhillips Company	Contact Lindsay Dumas	
Address 3401 East 30th St, Farmington, NM	Telephone No. (505) 599-4089	
Facility Name: Lindrith B 8	Facility Type: Oil	
Surface Owner Fee	Mineral Owner BLM (SF-078913)	API No. 30-039-22422

LOCATION OF RELEASE

Unit Letter M	Section 27	Township 24N	Range 03W	Feet from the 940'	North/South Line South Line	Feet from the 825'	East/West Line West Line	County Rio Arriba
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Latitude **36.276859** Longitude **-107.14959**

NATURE OF RELEASE

Type of Release Produced Water	Volume of Release Unknown	Volume Recovered 0 BBLS
Source of Release Below Grade Tank	Date and Hour of Occurrence Unknown	Date and Hour of Discovery 3/13/2014
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.	
OIL CONS. DIV DIST. 3		
If a Watercourse was Impacted, Describe Fully.*		
Describe Cause of Problem and Remedial Action Taken.* A historic release was discovered during a below grade tank closure on location.		
Describe Area Affected and Cleanup Action Taken.* Excavation was 30' x 40' x 13' Deep. 578 c/yds of soil was transported to TNT Land Farm and 578 c/yds of clean soil was transported from Aztec Machine and placed in the excavation site. Analytical results were below the regulatory standards – no further action required. The soil sampling report is attached for review.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		
Signature: <i>Lindsay Dumas</i>	OIL CONSERVATION DIVISION	
Printed Name: Lindsay Dumas	Approved by Environmental Specialist: <i>[Signature]</i>	
Title: Field Environmental Specialist	Approval Date: 11/19/14	Expiration Date:
E-mail Address: Lindsay.Dumas@conocophillips.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 10/18/2014 Phone: (505) 599-4089		

* Attach Additional Sheets If Necessary

#NCS 143 2335055

54



Animas Environmental Services, LLC

www.animasenvironmental.com

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

Durango, Colorado
970-403-3084

August 18, 2014

Lindsay Dumas
ConocoPhillips
San Juan Business Unit
Office 214-07
5525 Hwy 64
Farmington, New Mexico 87401

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

**RE: Initial Release Assessment and Final Excavation Report
Lindrith B #8 (South)
Rio Arriba County, New Mexico**

Dear Ms. Dumas:

On March 13 and 14 and May 14 and 20, 2014, Animas Environmental Services, LLC (AES) completed a release assessment and environmental clearance of the final excavation limits at the ConocoPhillips (CoP) Lindrith B #8, located in Rio Arriba County, New Mexico. A historic release was discovered during a below grade tank (BGT) closure at the location. The initial release assessment was completed by AES on March 14, 2014, and the final excavation was completed by CoP contractors prior to AES' arrival at the location on May 20, 2014.

1.0 Site Information

1.1 Location

Site Name – Lindrith B #8

Location – SW¼ SW¼, Section 27, T24N, R3W, Rio Arriba County, New Mexico

Well Head Latitude/Longitude – N36.27684 and W107.15009, respectively

Release Location Latitude/Longitude – N36.27674 and W107.14980, respectively

Land Jurisdiction – Private

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map, March 2014

1.2 NMOCD Ranking

In accordance with New Mexico Oil Conservation Division (NMOCD) release protocols, action levels were established per NMOCD *Guidelines for Remediation of Leaks, Spills,*

and Releases (August 1993) prior to site work. The release was given a ranking score of 30 based on the following factors:

- **Depth to Groundwater:** A pit closure report form dated April 1995 for the Lindrith B #8 reported the depth to groundwater at 50 to 99 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:** There are two unnamed washes located approximately 180 feet to the east and west of the location. Both washes flow into the wash in Medio Canyon. (20 points)

1.3 Assessment

AES was initially contacted by Jess Henson, CoP representative, on March 12, 2014, and on March 13, 2014, Stephanie Lynn and Emilee Skyles of AES initiated the release assessment field work. The assessment included collection and field sampling of three soil samples from one test hole at the release area. The test hole was terminated at 12 feet bgs on sandstone.

On March 14, 2014, AES returned to the location to continue release assessment work. The assessment included collection of 12 soil samples from 6 soil borings. Soil borings were terminated between 5 and 8 feet. Based on field sampling results, AES recommended further excavation of the release area. Sample locations are shown on Figure 3.

On May 14, 2014, AES returned to the location to collect confirmation soil samples of the excavation. The field sampling activities included collection of five confirmation soil samples from the walls and base of the excavation. The area of the final excavation measured approximately 35 feet by 28 feet by 13 feet in depth. The depth of the excavation was limited due to a confining sandstone layer at about 13 feet bgs. Final confirmation soil samples (SC-6 through SC-9) from the south wall, east wall, west wall and base were collected on May 20, 2014, following application of Quantum Growth™ on May 19, 2014. Sample locations and final excavation extents are presented on Figure 4.

2.0 Soil Sampling

A total of 15 soil samples from one test hole and six soil borings (TH-1, SB-1 through SB-6) and 9 composite samples (SC-1 through SC-9) were collected during the assessments. All soil samples were field screened for volatile organic compounds (VOCs), and selected

samples were also analyzed for total petroleum hydrocarbons (TPH). Two discrete soil samples (SB-3 and SB-4) collected during the assessment and nine composite samples (SC-1 through SC-9) collected during the excavation clearance were submitted for confirmation laboratory analysis.

2.1 Field Sampling

2.1.1 Volatile Organic Compounds

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

2.1.2 Total Petroleum Hydrocarbons

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

2.2 Laboratory Analyses

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

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

In addition, soil sample SC-5 was laboratory analyzed for:

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

2.3 Field and Laboratory Analytical Results

On March 13 and 14, 2014, initial assessment field screening results for VOCs via OVM showed concentrations ranging from 0.2 ppm in SB-1 up to 1,785 ppm in TH-1. Field TPH concentrations ranged from less than 20.0 mg/kg in SB-1 to greater than 2,500 mg/kg in TH-1.

On May 14 and 20, 2014, final excavation field screening results for VOCs via OVM ranged from 0.1 ppm in SC-6 up to 28.7 ppm in SC-9. Field TPH concentrations ranged

from 24.4 mg/kg in SC-1 up to 1,250 mg/kg in SC-5. Results are included below in Table 1 and on Figures 3 and 4. The AES Field Sampling Reports are attached.

Table 1. Field Sampling VOCs and TPH Results
Lindrith B #8 Initial Release Assessment and Final Excavation (South Excavation)
March and May 2014

<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>			100	100
TH-1	3/13/14	7	454	830
		11	655	>2,500
		12	1,785	>2,500
SB-1	3/14/14	2	0.2	NA
		5	18.5	NA
		8	1.5	<20.0
SB-2	3/14/14	3	0.3	NA
		5	10.5	NA
		7.5	38.5	346
SB-3	3/14/14	5	19.2	298
SB-4	3/14/14	5.5	20.3	NA
		7	17.6	306
SB-5	3/14/14	5	9.3	997
SB-6	3/14/14	5	19.7	NA
		6	16.4	523
SC-1	5/14/14	1 to 13	0.3	24.4
SC-2	5/14/14	1 to 13	1.8	512
SC-3	5/14/14	1 to 13	2.1	285
SC-4	5/14/14	1 to 13	65.0	515
SC-5	5/14/14	13	231	1,250
SC-6	5/20/14	1 to 13	0.1	133
SC-7	5/20/14	1 to 13	0.6	240
SC-8	5/20/14	1 to 13	0.3	75.0
SC-9	5/20/14	13	28.7	550

NA – not analyzed

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

Laboratory analyses for SB-3 and SB-4 were used to confirm field sampling results of the initial release assessment. TPH concentrations as GRO/DRO were reported in SB-3 with 76 mg/kg and in SB-4 with 80 mg/kg.

Laboratory analyses for SC-1 through SC-9 were used to confirm field sampling results from the final excavation. Benzene and total BTEX concentrations in SC-5 were reported below laboratory detection limits of 0.033 mg/kg and 0.165 mg/kg, respectively. TPH concentrations as GRO/DRO above laboratory detection limits were reported in SC-2 (180 mg/kg), SC-3 (120 mg/kg), SC-4 (220 mg/kg), SC-5 (434.3 mg/kg), SC-7 (94 mg/kg), and SC-9 (620 mg/kg). Results are presented in Table 2 and on Figure 4. The laboratory analytical reports are attached.

Table 2. Laboratory Analytical Results – Benzene, Total BTEX, and TPH
Lindrith B #8 Initial Release Assessment and Final Excavation (South Excavation)
March and May 2014

Sample ID	Date Sampled	Sample Depth (ft bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)
NMOCD Action Level*			10	50	100	
SB-3	3/14/14	5	NA	NA	<3.6	76
SB-4	3/14/14	7	NA	NA	<3.0	80
SC-1	5/14/14	1 to 13	NA	NA	<3.3	<9.8
SC-2	5/14/14	1 to 13	NA	NA	<3.4	180
SC-3	5/14/14	1 to 13	NA	NA	<3.5	120
SC-4	5/14/14	1 to 13	NA	NA	<3.1	220
SC-5	5/14/14	13	<0.033	<0.165	4.3	430
SC-6	5/20/14	1 to 13	NA	NA	<3.4	<9.9
SC-7	5/20/14	1 to 13	NA	NA	<3.5	94
SC-8	5/20/14	1 to 13	NA	NA	<4.9	<10
SC-9	5/20/14	13	NA	NA	<2.9	620

NA – not analyzed

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

3.0 Conclusions and Recommendations

On March 13 and 14, 2014, AES conducted an initial assessment of petroleum contaminated soils associated with a historic release at the Lindrith B #8. 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.

In March 2014, initial assessment field sampling results above the NMOCD action level of 100 ppm VOCs were reported in TH-1, with the highest VOC concentration reported at 1,785 ppm. Field sampling TPH results exceeded the NMOCD action level of 100 mg/kg in six samples (TH-1, SB-2, SB-3, SB-4, SB-5, and SB-6), with the highest concentration reported in TH-1 at greater than 2,500 mg/kg. Laboratory analytical results from SB-3 and SB-4 reported TPH concentrations as GRO/DRO below the NMOCD action level of 100 mg/kg.

On May 14 and May 20, 2014, final excavation of the impacted area was completed. Field sampling results of the excavation extents on May 14, 2014, showed that VOC concentrations were below applicable NMOCD action levels for the walls of the excavation, while the base reported a VOC concentration of 231 ppm. Field TPH concentrations were reported above the applicable NMOCD action level of 100 mg/kg for the walls and base of the excavation, with the exception of SC-1 (north wall) which had a TPH concentration of 24.4 mg/kg. Laboratory analytical results reported benzene and total BTEX concentrations in SC-5 (base) below NMOCD action levels, and TPH concentrations as GRO/DRO were reported above the applicable NMOCD action level in the sidewalls and base, except SC-1 which reported GRO/DRO concentrations less than laboratory detection limits.

Quantum Growth™ was applied to the sidewalls and base of the excavation on May 19, 2014, and additional confirmation samples (SC-6 through SC-9) were collected on May 20, 2014. Field sampling results of the final excavation extents showed that VOC concentrations were below applicable NMOCD action levels for the remaining walls and base of the excavation. Field TPH concentrations were reported above the NMOCD action level in SC-6 (south wall), SC-7 (east wall), and SC-9 (base), and below the NMOCD action level in SC-8 (west wall). Laboratory analytical results reported TPH concentrations as GRO/DRO below the NMOCD action level for the remaining sidewalls (SC-6 through SC-8). The base (SC-9) remained above the NMOCD action level with 620 mg/kg TPH.

Based on the final field sampling and laboratory analytical results of the excavation of petroleum contaminated soils at the Lindrith B #8, benzene, total BTEX, and TPH

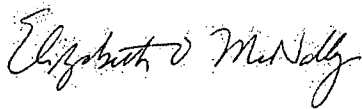
concentrations were below the applicable NMOCD action levels for the final sidewalls of the excavation. However, the base of the excavation exceeded applicable NMOCD action levels for TPH with a laboratory analytical concentration of 620 mg/kg. On May 21, 2014, CoP received approval to backfill the excavation from Johnathan Kelly of the NMOCD. No further work is recommended.

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

Sincerely,



Emilee Skyles
Staff Geologist



Elizabeth McNally, PE

Attachments:

- Figure 1. Topographic Site Location Map
- Figure 2. Aerial Site Map, March 2014
- Figure 3. Initial Assessment Sample Locations and Results, March 2014
- Figure 4. South Excavation Sample Locations and Results, May 2014
- AES Field Sampling Report 031314
- AES Field Sampling Report 031414
- AES Field Sampling Report 051414
- AES Field Sampling Report 052014
- Hall Laboratory Analytical Report 1403666
- Hall Laboratory Analytical Report 1405658
- Hall Laboratory Analytical Report 1405665
- Hall Laboratory Analytical Report 1405887
- Hall Laboratory Analytical Report 1405895

C:\Users\emcnally.AES\Dropbox (Animas Environmental)\0000 Animas Server Dropbox EM\2014
Projects\ConocoPhillips\Lindrith B #8\South Excavation\CoP Lindrith B #8 Release and Final Excavation
Report 081814.docx

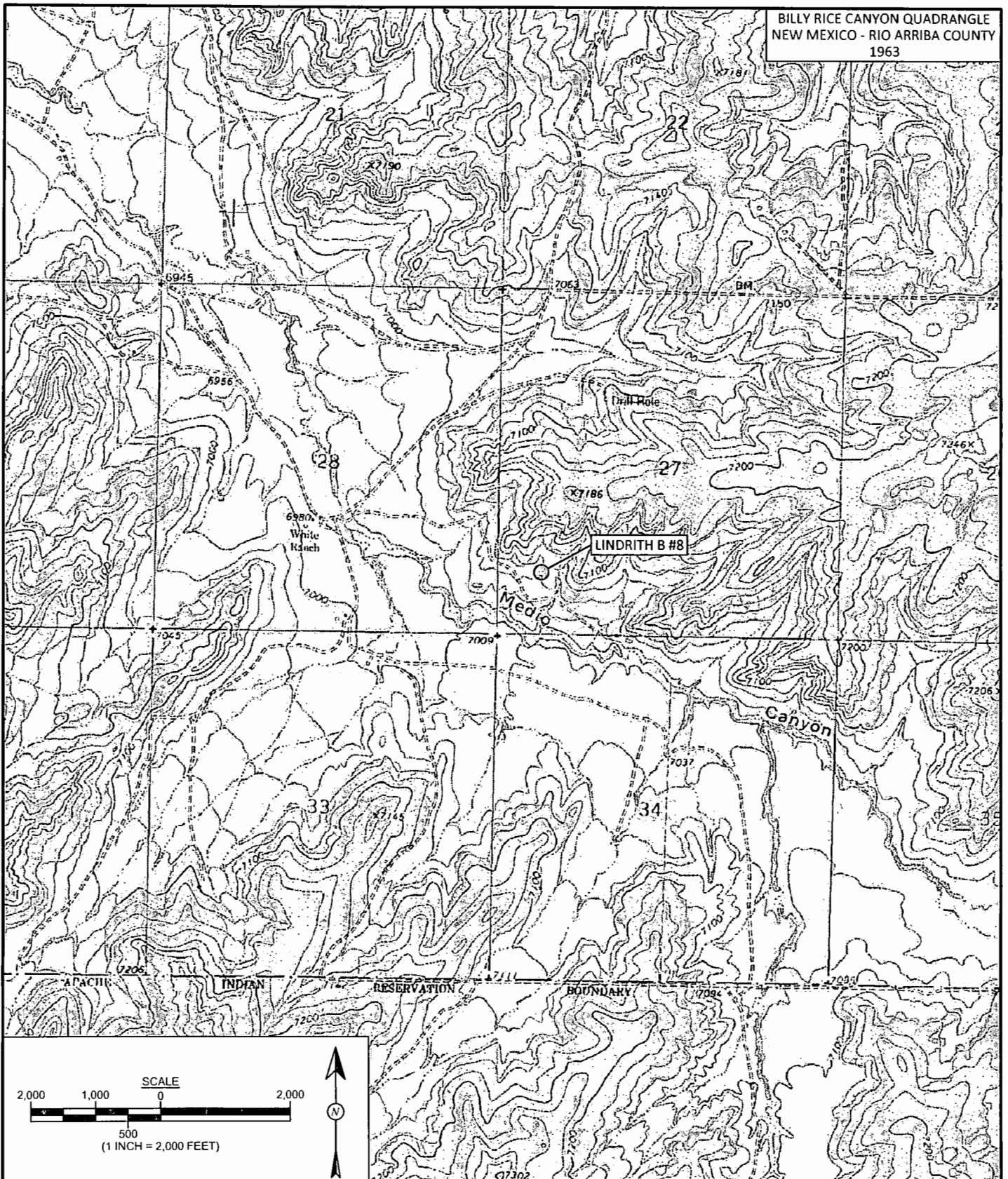


FIGURE 1

TOPOGRAPHIC SITE LOCATION MAP

ConocoPhillips
LINDRITH B #8
SW $\frac{1}{4}$ SW $\frac{1}{4}$, SECTION 27, T24N, R3W
RIO ARriba COUNTY, NEW MEXICO
N36.27684, W107.15009

DRAWN BY:

S. Glasses

DATE DRAWN:

March 24, 2014

REVISIONS BY:

C. Lameman

DATE REVISED:

June 25, 2014

CHECKED BY:

D. Watson

DATE CHECKED:

June 25, 2014

APPROVED BY:

E. McNally

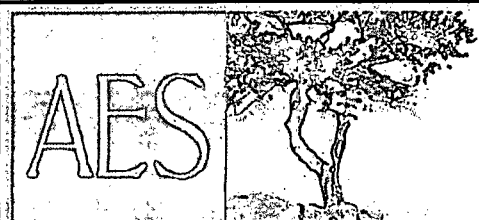
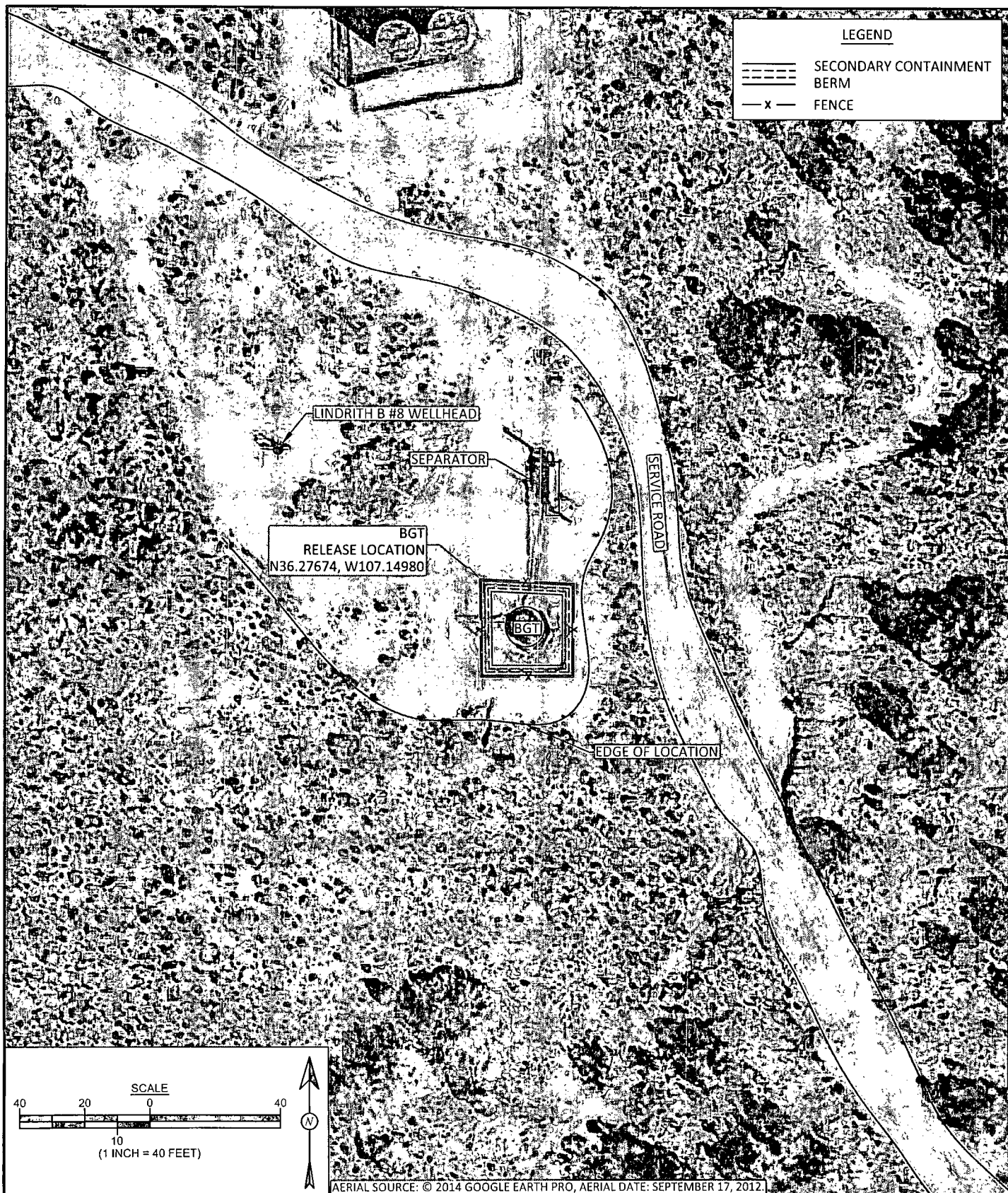
DATE APPROVED:

June 25, 2014

AES



Animas Environmental Services, LLC



Animas Environmental Services, LLC

DRAWN BY:

S. Glasses

DATE DRAWN:

March 25, 2014

REVISIONS BY:

C. Lameman

DATE REVISED:

June 25, 2014

CHECKED BY:

D. Watson

DATE CHECKED:

June 25, 2014

APPROVED BY:

E. McNally

DATE APPROVED:

June 25, 2014

FIGURE 2

AERIAL SITE MAP MARCH 2014

ConocoPhillips
LINDRITH B #8

SW¼ SW¼, SECTION 27, T24N, R3W
RIO ARriba COUNTY, NEW MEXICO
N36.27684, W107.15009

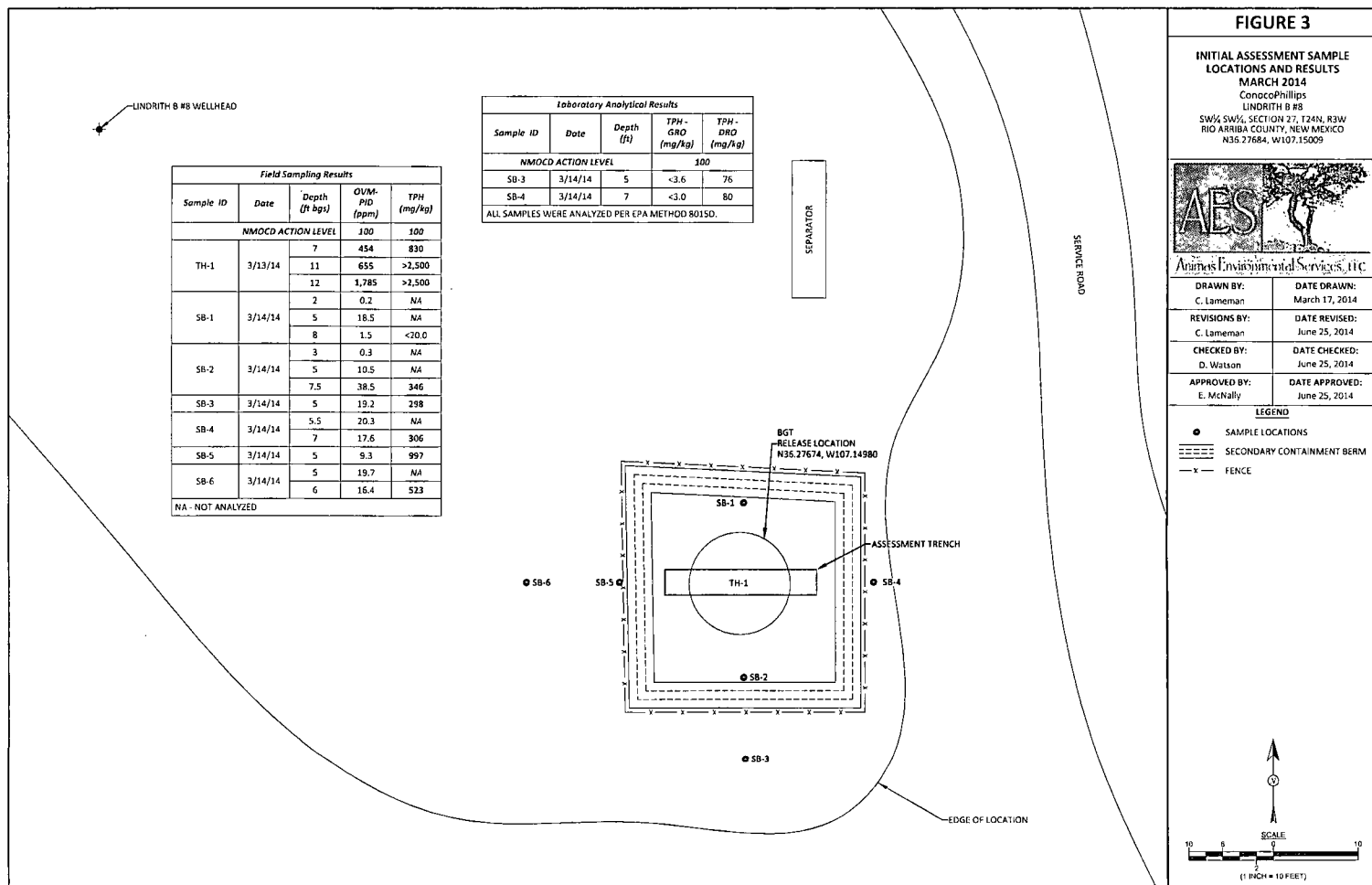


FIGURE 4

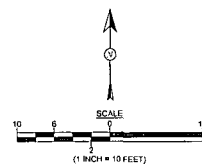
SOUTH EXCAVATION SAMPLE LOCATIONS AND RESULTS
MAY 2014
 ConocoPhillips
 LINDRITH B #8
 SW¼ SW¼, SECTION 27, T24N, R3W
 RIO ARriba COUNTY, NEW MEXICO
 N36.27684, W107.15009



DRAWN BY: C. Lamean	DATE DRAWN: June 25, 2014
REVISIONS BY: C. Lamean	DATE REVISED: June 25, 2014
CHECKED BY: D. Watson	DATE CHECKED: June 25, 2014
APPROVED BY: E. McNally	DATE APPROVED: June 25, 2014

LEGEND

- SAMPLE LOCATIONS
- SECONDARY CONTAINMENT BERM
- x— FENCE



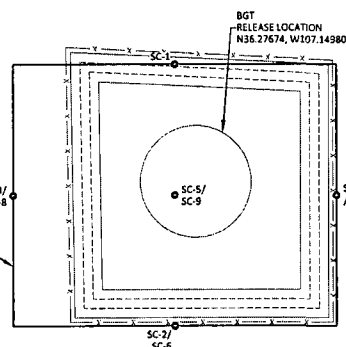
Field Sampling Results					
Sample ID	Date	Depth (ft bgs)	OVN-PID (ppm)	TPH (mg/kg)	
NMOCD ACTION LEVEL			100	100	
SC-1	5/14/14	1 to 13	0.3	24.4	
SC-2	5/14/14	1 to 13	1.8	512	
SC-3	5/14/14	1 to 13	7.1	285	
SC-4	5/14/14	1 to 13	65.0	515	
SC-5	5/14/14	13	231	1,250	
SC-6	5/20/14	1 to 13	0.1	133	
SC-7	5/20/14	1 to 13	0.6	240	
SC-8	5/20/14	1 to 13	0.3	75.0	
SC-9	5/20/14	13	28.7	550	

ALL SAMPLES ARE COMPOSITE SAMPLES.

Laboratory Analytical Results						
Sample ID	Date	Depth (ft)	Benzene (mg/kg)	BTEX (mg/kg)	TPH - GRO (mg/kg)	TPH - DRO (mg/kg)
NMOCD ACTION LEVEL			10	50	100	
SC-1	5/14/14	1 to 13	NA	NA	<4.8	<9.9
SC-2	5/14/14	1 to 13	NA	NA	<3.4	180
SC-3	5/14/14	1 to 13	NA	NA	<3.5	120
SC-4	5/14/14	1 to 13	NA	NA	<3.1	220
SC-5	5/14/14	13	<0.033	<0.165	4.3	430
SC-6	5/20/14	1 to 13	NA	NA	<3.4	<9.9
SC-7	5/20/14	1 to 13	NA	NA	<3.5	94
SC-8	5/20/14	1 to 13	NA	NA	<4.8	<10
SC-9	5/20/14	13	NA	NA	<2.9	620

ALL SAMPLES WERE ANALYZED PER EPA METHOD 8021B AND/OR 8015D.

SOUTH EXCAVATION AREA
 35 FT x 28 FT x 13 FT DEEP



AES Field Sampling Report



Animas Environmental Services, LLC

www.animasenvironmental.com

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

Durango, Colorado
970-403-3084

Client: ConocoPhillips

Project Location: Lindrith B #8

Date: 3/13/2014

Matrix: Soil

Sample ID	Collection Date	Collection Time	OVM (ppm)	TPH* (mg/kg)	TPH Analysis Time	TPH PQL (mg/kg)	DF	TPH Analysts Initials
TH-1 @ 7'	3/13/2014	11:30	454	830	11:52	20.0	1	ES
TH-1 @ 11'	3/13/2014	12:15	655	>2,500	12:30	20.0	1	ES
TH-1 @ 12'	3/13/2014	12:40	1,785	>2,500	13:05	20.0	1	ES

DF Dilution Factor

NA Not Analyzed

ND Not Detected at the Reporting Limit

PQL Practical Quantitation Limit

Total Petroleum Hydrocarbons - USEPA 418.1

Analyst:

Eric Skelton

*Field TPH concentrations recorded may be below PQL.

AES Field Sampling Report



Animas Environmental Service

www.animasenvironmental.com

Client: ConocoPhillips

Project Location: Lindrith B #8

Date: 3/14/2014

Matrix: Soil

624 E. Con
Farmington, NM
505-564
Durango, Co
970-403

Sample ID	Collection Date	Collection Time	Sample Location	OVM (ppm)	TPH* (mg/kg)	TPH Analysis Time	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SB-1 @ 2'	3/14/2014	10:45	North	0.2	Not Analyzed for TPH				
SB-1 @ 5'	3/14/2014	10:46	North	18.5	Not Analyzed for TPH				
SB-1 @ 8'	3/14/2014	10:47	North	1.5	19.3	15:45	20.0	1	ES
SB-2 @ 3'	3/14/2014	10:50	South	0.3	Not Analyzed for TPH				
SB-2 @ 5'	3/14/2014	10:51	South	10.5	Not Analyzed for TPH				
SB-2 @ 7.5'	3/14/2014	10:52	South	38.5	346	15:49	20.0	1	ES
SB-3 @ 5'	3/14/2014	11:30	South	19.2	298	15:53	20.0	1	ES
SB-4 @ 5.5'	3/14/2014	11:04	East	20.3	Not Analyzed for TPH				
SB-4 @ 7'	3/14/2014	11:15	East	17.6	306	15:58	20.0	1	ES
SB-5 @ 5'	3/14/2014	11:45	West	9.3	997	16:15	20.0	1	ES
SB-6 @ 5'	3/14/2014	12:18	West	19.7	Not Analyzed for TPH				
SB-6 @ 6'	3/14/2014	12:30	West	16.4	523	16:10	20.0	1	ES

DF Dilution Factor

NA Not Analyzed

ND Not Detected at the Reporting Limit

PQL Practical Quantitation Limit

*Field TPH concentrations recorded may be below PQL.

Total Petroleum Hydrocarbons - USEPA 418.1

Analyst:

Erin Skelton

AES Field Sampling Report



Animas Environmental Services, LLC

www.animasenvironmental.com

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

Durango, Colorado
970-403-3084

Client: ConocoPhillips

Project Location: Lindrith B #8

Date: 5/14/2014

Matrix: Soil

Sample ID	Collection Date	Time of Sample Collection	Sample Location	OVM (ppm)	Field TPH Analysis Time	Field TPH* (mg/kg)	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SC-1	5/14/2014	12:30	North Wall	0.3	12:50	24.4	20.0	1	DAW
SC-2	5/14/2014	12:32	South Wall	1.8	12:52	512	20.0	1	DAW
SC-3	5/14/2014	12:34	East Wall	2.1	12:55	285	20.0	1	DAW
SC-4	5/14/2014	12:36	West Wall	65.0	12:57	515	20.0	1	DAW
SC-5	5/14/2014	12:38	Base	231	13:00	1,250	20.0	1	DAW

DF Dilution Factor

NA Not Analyzed

ND Not Detected at the Reporting Limit

PQL Practical Quantitation Limit

*Field TPH concentrations recorded may be below PQL.

Total Petroleum Hydrocarbons - USEPA 418.1

Analyst:

Debrah Watten

AES Field Sampling Report



Animas Environmental Services, LLC

www.animasenvironmental.com

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

Durango, Colorado
970-403-3084

Client: ConocoPhillips

Project Location: Lindrith B #8

Date: 5/20/2014

Matrix: Soil

Sample ID	Collection Date	Time of Sample Collection	Sample Location	OVM (ppm)	TPH Analysis Time	TPH* (mg/kg)	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SC-6	5/20/2014	12:05	South Wall	0.1	12:27	133	20.0	1	DAW
SC-7	5/20/2014	12:35	East Wall	0.6	12:25	240	20.0	1	DAW
SC-8	5/20/2014	10:55	West Wall	0.3	12:55	75.0	20.0	1	DAW
SC-9	5/20/2014	11:00	Base	28.7	12:57	550	20.0	1	DAW

DF Dilution Factor

NA Not Analyzed

ND Not Detected at the Reporting Limit

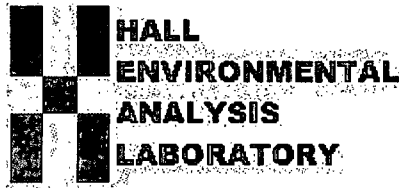
PQL Practical Quantitation Limit

*Field TPH concentrations recorded may be below PQL.

Total Petroleum Hydrocarbons - USEPA 418.1

Analyst:

Debrah Wata



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

March 18, 2014

Debbie Watson

Animas Environmental

624 East Comanche

Farmington, NM 87401

TEL: (505) 486-4071

FAX

RE: COP Lindrith B # 8

OrderNo.: 1403666

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 2 sample(s) on 3/17/2014 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data 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".

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1403666

Date Reported: 3/18/2014

CLIENT: Animas Environmental

Client Sample ID: ~~SB-E@7'~~ SB-4@7' DAW

Project: COP Lindrith B # 8

Collection Date: 3/14/2014 11:45:00 AM

Lab ID: 1403666-001

Matrix: MEOH (SOIL)

Received Date: 3/17/2014 10:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	80	9.9		mg/Kg	1	3/17/2014 2:42:32 PM	12207
Surr: DNOP	93.8	66-131		%REC	1	3/17/2014 2:42:32 PM	12207
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.0		mg/Kg	1	3/17/2014 11:09:37 AM	R17360
Surr: BFB	88.3	74.5-129		%REC	1	3/17/2014 11:09:37 AM	R17360

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 1 of 4
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1403666

Date Reported: 3/18/2014

CLIENT: Animas Environmental

Client Sample ID: ~~SB-S-2@5'~~ SB-3@5' DAW

Project: COP Lindrith B # 8

Collection Date: 3/14/2014 12:00:00 PM

Lab ID: 1403666-002

Matrix: MEOH (SOIL)

Received Date: 3/17/2014 10:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	76	9.9		mg/Kg	1	3/17/2014 3:50:29 PM	12207
Surr: DNOP	92.9	66-131		%REC	1	3/17/2014 3:50:29 PM	12207
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg	1	3/17/2014 11:39:50 AM	R17360
Surr: BFB	84.3	74.5-129		%REC	1	3/17/2014 11:39:50 AM	R17360

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 4
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1403666

18-Mar-14

Client: Animas Environmental

Project: COP Lindrith B # 8

Sample ID	MB-12207	SampType:	MBLK	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	12207	RunNo:	17357					
Prep Date:	3/17/2014	Analysis Date:	3/17/2014	SeqNo:	499908	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	8.4		10.00		84.4	66	131			

Sample ID	LCS-12165	SampType:	LCS	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	12165	RunNo:	17357					
Prep Date:	3/13/2014	Analysis Date:	3/17/2014	SeqNo:	499909	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.4		5.000		107	66	131			

Sample ID	LCS-12207	SampType:	LCS	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	12207	RunNo:	17357					
Prep Date:	3/17/2014	Analysis Date:	3/17/2014	SeqNo:	499910	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	91.7	60.8	145			
Surr: DNOP	4.4		5.000		87.7	66	131			

Sample ID	LCS-12173	SampType:	LCS	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	12173	RunNo:	17357					
Prep Date:	3/13/2014	Analysis Date:	3/17/2014	SeqNo:	500720	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.0		5.000		99.3	66	131			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1403666

18-Mar-14

Client: Animas Environmental

Project: COP Lindrith B # 8

Sample ID	5ML RB	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID:	PBS	Batch ID: R17360			RunNo: 17360						
Prep Date:		Analysis Date: 3/17/2014			SeqNo: 500200		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	74.5	129			

Sample ID	2.5UG GRO LCS	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range						
Client ID:	LCSS	Batch ID:	R17360	RunNo:	17360						
Prep Date:		Analysis Date:	3/17/2014	SeqNo:	500201	Units:	mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	24	5.0	25.00	0	95.1	71.7	134				
Surr: BFB	950		1000		94.6	74.5	129				

Sample ID	1403666-001AMS	SampType:	MS	TestCode:	EPA Method 8015D: Gasoline Range						
Client ID:	SB-E @ 7'	Batch ID:	R17360	RunNo:	17360						
Prep Date:		Analysis Date:	3/17/2014	SeqNo:	500203	Units:	mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	12	3.0	14.78	0	84.0	69.5	145				
Surr: BFB	530		591.4		90.2	74.5	129				

Sample ID	1403666-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015D: Gasoline Range						
Client ID:	SB-E @ 7'	Batch ID:	R17360	RunNo:	17360						
Prep Date:		Analysis Date:	3/17/2014	SeqNo:	500204	Units:	mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	13	3.0	14.78	0	85.7	69.5	145	2.07	20		
Surr: BFB	460		591.4		78.5	74.5	129	0	0		

Qualifiers:

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



Hall Environmental Analysis Laboratory
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: 1403666

RcptNo: 1

Received by/date:	<u>MB</u>	<u>03/17/14</u>
Logged By:	Lindsay Mangin	3/17/2014 10:05:00 AM
Completed By:	Lindsay Mangin	3/17/2014 10:56:42 AM
Reviewed By:	<u>[Signature]</u>	<u>03/17/14</u>

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:	<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 $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			

Chain-of-Custody Record		Turn-Around Time:	
Client: <u>Annas Environmental Services LLC</u>		<input type="checkbox"/> Standard <input checked="" type="checkbox"/> Rush <u>Same day</u>	
Mailing Address: <u>624 E Comanche Farmington NM</u>		Project Name: <u>CoP Linduth B #8</u>	
Phone #: <u>505 564 2281</u>		Project #: <u>CoP Linduth B #8</u>	
Email or Fax#:		Project Manager: <u>D Watson</u>	
QA/QC Package:		Sampler: <u>D Watson</u>	
<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Level 4 (Full Validation)		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
<input type="checkbox"/> NELAP <input type="checkbox"/> Other _____		<input checked="" type="checkbox"/> In Ice <input type="checkbox"/> No	
<input checked="" type="checkbox"/> EDD (Type) _____		Sample Temperature: <u>1:0</u>	

☐ Standard ☒ Rush same day

Project #: CoP Lindwith B #8

Project Manager:

D Watson
Sampler: D Watson

On Ice: ☒ Yes ☐ No

Sample Temperature: 15

[illegible]

Date:	Time:	Relinquished by:	Received by:	Date:	Time:
1-17-14	640	Debrah Water	M. G.	3/17/14	100
Date:	Time:	Relinquished by:	Received by:	Date:	Time:

Received by: M. G. V. Date: 03/07/14 Time: 100



www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

[illegible]

Remarks: Ball to ConocoPhillips



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

May 16, 2014

Debbie Watson

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

RE: CoP Lindrith B #8 South Excavation

OrderNo.: 1405658

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 4 sample(s) on 5/15/2014 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data 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', is written over a horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1405658

Date Reported: 5/16/2014

CLIENT: Animas Environmental

Client Sample ID: SC-2

Project: CoP Lindrith B #8 South Excavation

Collection Date: 5/14/2014 12:32:00 PM

Lab ID: 1405658-001

Matrix: MEOH (SOIL)

Received Date: 5/15/2014 10:08:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	180	9.9		mg/Kg	1	5/16/2014 10:19:49 AM	13180
Surr: DNOP	117	57.9-140		%REC	1	5/16/2014 10:19:49 AM	13180
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.4		mg/Kg	1	5/15/2014 12:44:29 PM	R18624
Surr: BFB	88.2	80-120		%REC	1	5/15/2014 12:44:29 PM	R18624

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

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

Analytical Report

Lab Order 1405658

Date Reported: 5/16/2014

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Animas Environmental**Client Sample ID:** SC-3**Project:** CoP Lindrith B #8 South Excavation**Collection Date:** 5/14/2014 12:34:00 PM**Lab ID:** 1405658-002**Matrix:** MEOH (SOIL)**Received Date:** 5/15/2014 10:08:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	120	9.9		mg/Kg	1	5/16/2014 11:03:27 AM	13180
Surr: DNOP	99.9	57.9-140		%REC	1	5/16/2014 11:03:27 AM	13180
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	5/15/2014 1:13:00 PM	R18624
Surr: BFB	88.2	80-120		%REC	1	5/15/2014 1:13:00 PM	R18624

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1405658

Date Reported: 5/16/2014

CLIENT: Animas Environmental

Client Sample ID: SC-4

Project: CoP Lindrith B #8 South Excavation

Collection Date: 5/14/2014 12:36:00 PM

Lab ID: 1405658-003

Matrix: MEOH (SOIL)

Received Date: 5/15/2014 10:08:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	220	10		mg/Kg	1	5/16/2014 11:47:12 AM	13180
Surr: DNOP	96.0	57.9-140		%REC	1	5/16/2014 11:47:12 AM	13180
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.1		mg/Kg	1	5/15/2014 1:41:42 PM	R18624
Surr: BFB	87.0	80-120		%REC	1	5/15/2014 1:41:42 PM	R18624

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 3 of 7
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1405658**

Date Reported: 5/16/2014

CLIENT: Animas Environmental**Client Sample ID:** SC-5**Project:** CoP Lindrith B #8 South Excavation**Collection Date:** 5/14/2014 12:38:00 PM**Lab ID:** 1405658-004**Matrix:** MEOH (SOIL)**Received Date:** 5/15/2014 10:08:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	430	10		mg/Kg	1	5/16/2014 12:31:07 PM	13180
Surr: DNOP	101	57.9-140		%REC	1	5/16/2014 12:31:07 PM	13180
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	4.3	3.3		mg/Kg	1	5/15/2014 2:10:21 PM	R18624
Surr: BFB	118	80-120		%REC	1	5/15/2014 2:10:21 PM	R18624
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.033		mg/Kg	1	5/15/2014 2:10:21 PM	R18624
Toluene	ND	0.033		mg/Kg	1	5/15/2014 2:10:21 PM	R18624
Ethylbenzene	ND	0.033		mg/Kg	1	5/15/2014 2:10:21 PM	R18624
Xylenes, Total	ND	0.066		mg/Kg	1	5/15/2014 2:10:21 PM	R18624
Surr: 4-Bromofluorobenzene	105	80-120		%REC	1	5/15/2014 2:10:21 PM	R18624

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1405658

16-May-14

Client: Animas Environmental
Project: CoP Lindrith B #8 South Excavation

Sample ID	MB-13155	SampType:	MBLK	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	13155	RunNo:	18605					
Prep Date:	5/13/2014	Analysis Date:	5/15/2014	SeqNo:	537633	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	11		10.00		115	57.9	140			

Sample ID	LCS-13155	SampType:	LCS	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	13155	RunNo:	18605					
Prep Date:	5/13/2014	Analysis Date:	5/15/2014	SeqNo:	537661	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	6.0		5.000		120	57.9	140			

Sample ID	MB-13180	SampType:	MBLK	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	13180	RunNo:	18605					
Prep Date:	5/15/2014	Analysis Date:	5/15/2014	SeqNo:	537900	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	9.7		10.00		96.7	57.9	140			

Sample ID	LCS-13180	SampType:	LCS	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	13180	RunNo:	18605					
Prep Date:	5/15/2014	Analysis Date:	5/15/2014	SeqNo:	537901	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	59	10	50.00	0	118	60.8	145			
Surr: DNOP	5.1		5.000		103	57.9	140			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1405658

16-May-14

Client: Animas Environmental
Project: CoP Lindrith B #8 South Excavation

Sample ID	MB-13175 MK		SampType:	MBLK		TestCode:	EPA Method 8015D: Gasoline Range				
Client ID:	PBS		Batch ID:	R18624		RunNo:	18624				
Prep Date:			Analysis Date:	5/15/2014		SeqNo:	538752		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	ND	5.0									
Surr: BFB	850		1000		85.3	80	120				

Sample ID	LCS-13175 MK		SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	LCSS		Batch ID: R18624		RunNo: 18624					
Prep Date:			Analysis Date: 5/15/2014		SeqNo: 538753		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	90.8	71.7	134			
Surr: BFB	930		1000		93.5	80	120			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1405658

16-May-14

Client: Animas Environmental
Project: CoP Lindrith B #8 South Excavation

Sample ID	MB-13175 MK	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles						
Client ID:	PBS	Batch ID:	R18624	RunNo:	18624						
Prep Date:		Analysis Date:	5/15/2014	SeqNo:	538774	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		103	80	120				

Sample ID	LCS-13175 MK	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles						
Client ID:	LCSS	Batch ID:	R18624	RunNo:	18624						
Prep Date:		Analysis Date:	5/15/2014	SeqNo:	538775	Units:	mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	1.2	0.050	1.000	0	119	80	120				
Toluene	1.1	0.050	1.000	0	109	80	120				
Ethylbenzene	1.1	0.050	1.000	0	106	80	120				
Xylenes, Total	3.1	0.10	3.000	0	104	80	120				
Surr: 4-Bromofluorobenzene	1.1		1.000		105	80	120				

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
O RSD is greater than RSDlimit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
P Sample pH greater than 2.
RL Reporting Detection Limit

Sample Log-In Check List

Client Name: Animas Environmental

Work Order Number: 1405658

RcptNo: 1

Received by/date:	CS	05/15/14	
Logged By:	Michelle Garcia	5/15/2014 10:08:00 AM	Michelle Garcia
Completed By:	Michelle Garcia	5/15/2014 10:32:42 AM	Michelle Garcia
Reviewed By:	[Signature]	05/15/14	

Chain of Custody

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

Log In

- Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
- Were all samples received at a temperature of >0° C to 6.0°C Yes ☒ No ☐ NA ☐
- Sample(s) in proper container(s)? Yes ☒ No ☐
- Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
- Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
- Was preservative added to bottles? Yes ☐ No ☒ NA ☐
- VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
- Were any sample containers received broken? Yes ☐ No ☒
- Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
- Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
- Is it clear what analyses were requested? Yes ☒ No ☐
- 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)

- 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	1.2	Good	Yes			

IDENTIFICATION TIME.

☐ Standard ☒ Rush Same day

Project Name: 101 W B #0 South Excavation

Project #:

1992

Project Manager:	21)	ent)
------------------	-----	------

D Watson

Sampler: DWatson

On Ice: ☒ Yes ☐ No
Sample Temperature: -1.2°

www.hallenvironmental.com

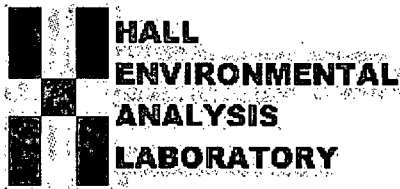
4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Date:	Time:	Relinquished by:	Received by:	Date	Time	Remarks:
4/4/14	1733	Debra White	Christie White	5/14/14	1733	
Date:	Time:	Relinquished by:	Received by:	Date	Time	
4/4/14	1754	Christie White	Colin Sura	05/15/14	10:08	

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



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

May 20, 2014

Debbie Watson

Animas Environmental

624 East Comanche

Farmington, NM 87401

TEL: (505) 486-4071

FAX

RE: CoP Lindrith B #8 South Excavation

OrderNo.: 1405665

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 1 sample(s) on 5/15/2014 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data 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.

CLIENT: Animas Environmental **Client Sample ID:** SC-1
Project: CoP Lindrith B #8 South Excavation **Collection Date:** 5/14/2014 12:30:00 PM
Lab ID: 1405665-001 **Matrix:** SOIL **Received Date:** 5/15/2014 10:08:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	5/16/2014 11:00:40 PM	13180
Surr: DNOP	105	57.9-140		%REC	1	5/16/2014 11:00:40 PM	13180
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/16/2014 4:56:13 PM	13192
Surr: BFB	87.0	80-120		%REC	1	5/16/2014 4:56:13 PM	13192

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 1 of 3
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1405665

20-May-14

Client: Animas Environmental

Project: CoP Lindrith B #8 South Excavation

Sample ID	MB-13180	SampType:	MBLK	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	13180	RunNo:	18605					
Prep Date:	5/15/2014	Analysis Date:	5/15/2014	SeqNo:	537900	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	9.7		10.00		96.7	57.9	140			

Sample ID	LCS-13180	SampType:	LCS	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	13180	RunNo:	18605					
Prep Date:	5/15/2014	Analysis Date:	5/15/2014	SeqNo:	537901	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	59	10	50.00	0	118	60.8	145			
Surr: DNOP	5.1		5.000		103	57.9	140			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1405665

20-May-14

Client: Animas Environmental
Project: CoP Lindrith B #8 South Excavation

Sample ID: MB-13192	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 13192	RunNo: 18658								
Prep Date: 5/15/2014	Analysis Date: 5/16/2014	SeqNo: 539584			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	840		1000		84.4	80	120			

Sample ID: LCS-13192	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 13192	RunNo: 18658								
Prep Date: 5/15/2014	Analysis Date: 5/16/2014	SeqNo: 539585			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	93.2	71.7	134			
Surr: BFB	970		1000		97.3	80	120			

Qualifiers:

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



**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: 1405665

RcptNo: 1

Received by/date: CS 05/15/14

Logged By: Michelle Garcia 5/15/2014 10:08:00 AM

Michelle Garcia

Completed By: Michelle Garcia 5/15/2014 11:06:39 AM

Michelle Garcia

Reviewed By: [Signature] 05/15/14

Chain of Custody

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

Log In

4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all samples received at a temperature of $>0^{\circ}\text{C}$ 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:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:			
Client Instructions:			

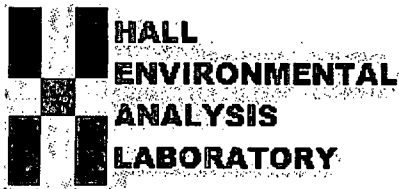
17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.2	Good	Yes			

[illegible]

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



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

May 22, 2014

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

RE: CoP Lindrith B #8

OrderNo.: 1405887

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 3 sample(s) on 5/21/2014 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data 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".

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1405887

Date Reported: 5/22/2014

CLIENT: Animas Environmental

Client Sample ID: SC-6

Project: CoP Lindrith B #8

Collection Date: 5/20/2014 12:05:00 PM

Lab ID: 1405887-001

Matrix: MEOH (SOIL)

Received Date: 5/21/2014 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	5/21/2014 2:41:40 PM	13277
Surr: DNOP	83.8	57.9-140		%REC	1	5/21/2014 2:41:40 PM	13277
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.4		mg/Kg	1	5/21/2014 12:30:58 PM	R18771
Surr: BFB	96.2	80-120		%REC	1	5/21/2014 12:30:58 PM	R18771

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1405887**

Date Reported: 5/22/2014

CLIENT: Animas Environmental

Client Sample ID: SC-7

Project: CoP Lindrith B #8

Collection Date: 5/20/2014 12:35:00 PM

Lab ID: 1405887-002

Matrix: MEOH (SOIL)

Received Date: 5/21/2014 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	94	10		mg/Kg	1	5/21/2014 1:46:12 PM	13277
Surr: DNOP	101	57.9-140		%REC	1	5/21/2014 1:46:12 PM	13277
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	5/21/2014 12:59:31 PM	R18771
Surr: BFB	93.0	80-120		%REC	1	5/21/2014 12:59:31 PM	R18771

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1405887

Date Reported: 5/22/2014

CLIENT: Animas Environmental

Client Sample ID: SC-9

Project: CoP Lindrith B #8

Collection Date: 5/20/2014 11:00:00 AM

Lab ID: 1405887-003

Matrix: MEOH (SOIL)

Received Date: 5/21/2014 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	620	10		mg/Kg	1	5/21/2014 3:17:34 PM	13277
Surr: DNOP	117	57.9-140		%REC	1	5/21/2014 3:17:34 PM	13277
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	2.9		mg/Kg	1	5/21/2014 1:28:12 PM	R18771
Surr: BFB	115	80-120		%REC	1	5/21/2014 1:28:12 PM	R18771

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1405887

22-May-14

Client: Animas Environmental

Project: CoP Lindrith B #8

Sample ID	LCS-13258		SampType: LCS		TestCode: EPA Method 8015D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 13258		RunNo: 18749					
Prep Date:	5/20/2014		Analysis Date: 5/21/2014		SeqNo: 541686		Units: %REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.3		5.000		86.5	57.9	140			

Sample ID	LCS-13277		SampType: LCS		TestCode: EPA Method 8015D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 13277		RunNo: 18749					
Prep Date:	5/21/2014		Analysis Date: 5/21/2014		SeqNo: 541687		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	98.7	60.8	145			
Surr: DNOP	4.7		5.000		94.5	57.9	140			

Sample ID	MB-13258		SampType: MBLK		TestCode: EPA Method 8015D: Diesel Range Organics					
Client ID:	PBS		Batch ID: 13258		RunNo: 18749					
Prep Date:	5/20/2014		Analysis Date: 5/21/2014		SeqNo: 541688		Units: %REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.8		10.00		97.6	57.9	140			

Sample ID	MB-13277		SampType:	MBLK		TestCode:	EPA Method 8015D: Diesel Range Organics				
Client ID:	PBS		Batch ID:	13277		RunNo:	18749				
Prep Date:	5/21/2014		Analysis Date:	5/21/2014		SeqNo:	541689		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	8.1		10.00		81.5	57.9	140				

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1405887

22-May-14

Client: Animas Environmental

Project: CoP Lindrith B #8

Sample ID	MB-13266 MK		SampType:	MBLK		TestCode:	EPA Method 8015D: Gasoline Range				
Client ID:	PBS		Batch ID:	R18771		RunNo:	18771				
Prep Date:			Analysis Date:	5/21/2014		SeqNo:	542189		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		86.5	80	120				

Sample ID	LCS-13266 MK		SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	LCSS		Batch ID: R18771		RunNo: 18771					
Prep Date:			Analysis Date: 5/21/2014		SeqNo: 542190		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	86.1	71.7	134			
Surr: BFB	1000		1000		100	80	120			

Qualifiers:

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

Sample Log-In Check List

Client Name: Animas Environmental

Work Order Number: 1405887

RcptNo: 1

Received by/date:	OS	05/21/14
Logged By:	Lindsay Mangin	5/21/2014 10:00:00 AM
Completed By:	Lindsay Mangin	5/21/2014 10:15:44 AM
Reviewed By:	IO	05/21/14

Chain of Custody

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

Log In

- Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
- Were all samples received at a temperature of >0° C to 6.0°C Yes ☒ No ☐ NA ☐
- Sample(s) in proper container(s)? Yes ☒ No ☐
- Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
- Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
- Was preservative added to bottles? Yes ☐ No ☒ NA ☐
- VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
- Were any sample containers received broken? Yes ☐ No ☒
- Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
- Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
- Is it clear what analyses were requested? Yes ☒ No ☐
- 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)

- 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	1.0	Good	Yes			



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

May 23, 2014

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

RE: CoP Lindrith B #8

OrderNo.: 1405895

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 1 sample(s) on 5/21/2014 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data 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', is written over a horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1405895

Date Reported: 5/23/2014

CLIENT: Animas Environmental

Client Sample ID: SC-8

Project: CoP Lindrith B #8

Collection Date: 5/20/2014 10:55:00 AM

Lab ID: 1405895-001

Matrix: SOIL

Received Date: 5/21/2014 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	5/22/2014 10:23:50 AM	13277
Surr: DNOP	101	57.9-140		%REC	1	5/22/2014 10:23:50 AM	13277
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/22/2014 4:04:35 PM	13281
Surr: BFB	85.2	80-120		%REC	1	5/22/2014 4:04:35 PM	13281

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 1 of 3
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1405895

23-May-14

Client: Animas Environmental

Project: CoP Lindrith B #8

Sample ID	LCS-13277		SampType:	LCS		TestCode:	EPA Method 8015D: Diesel Range Organics				
Client ID:	LCSS		Batch ID:	13277		RunNo:	18749				
Prep Date:	5/21/2014		Analysis Date:	5/21/2014		SeqNo:	541687		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	49	10	50.00	0	98.7	60.8	145				
Surr: DNOP	4.7		5.000		94.5	57.9	140				

Sample ID	MB-13277		SampType:	MBLK		TestCode:	EPA Method 8015D: Diesel Range Organics				
Client ID:	PBS		Batch ID:	13277		RunNo:	18749				
Prep Date:	5/21/2014		Analysis Date:	5/21/2014		SeqNo:	541689		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	8.1		10.00		81.5	57.9	140				

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
O RSD is greater than RSDlimit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
P Sample pH greater than 2.
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1405895

23-May-14

Client: Animas Environmental

Project: CoP Lindrith B #8

Sample ID	MB-13281	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	13281	RunNo:	18795					
Prep Date:	5/21/2014	Analysis Date:	5/22/2014	SeqNo:	543156	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	830		1000		83.0	80	120			

Sample ID	LCS-13281	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	13281	RunNo:	18795					
Prep Date:	5/21/2014	Analysis Date:	5/22/2014	SeqNo:	543158	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	5.0	25.00	0	85.4	71.7	134			
Surr: BFB	910		1000		90.7	80	120			

Qualifiers:

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



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: Anlmas Environmental

Work Order Number: 1405895

RcptNo: 1

Received by/date: CS 05/21/14

Logged By: Lindsay Mangin 5/21/2014 10:00:00 AM

Completed By: Lindsay Mangin 5/21/2014 10:56:26 AM

Reviewed By: [Signature] 05/21/14

Chain of Custody

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

Log In

4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all samples received at a temperature of $>0^{\circ}\text{C}$ 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	1.0	Good	Yes			

Chain-of-Custody Record		Turn-Around Time:	
Client: <u>Animas Environmental Services LLC</u>		<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush _____	
Mailing Address: <u>624 E Comanche</u>		Project Name: <u>CoP Lindroth B#8</u>	
<u>Farmington NM 87401</u>		Project #:	
Phone #: <u>505 564 2281</u>			
email or Fax#:		Project Manager:	
QA/QC Package:		<u>D. Watson</u>	
<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Level 4 (Full Validation)		Sampler: <u>D. Watson</u>	
Accreditation		On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
<input type="checkbox"/> NELAP <input type="checkbox"/> Other _____		Sample Temperature: <u>10.0°</u>	
<input type="checkbox"/> EDD (Type) _____			

Sample Temperature: 10°

Analysis Request

Date:	Time:	Relinquished by:	Received by:	Date	Time	Remarks: Bill to Conoco Phillips
5/20/14	11:45	Deborah Water	Master Waele	5/20/14	11:45	
Date:	Time:	Relinquished by:	Received by:	Date	Time	
5/20/14	17:00	Master Waele	Celina Suma	05/21/14	10:00	

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.