

3R-1011

**Release Report/ General
Correspondence**

Enterprise SJ

Date: Jul-Sep 2013

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 Enterprise Field Services	Contact: Runell Seale / Jim Lieb
Address 614 Reilly Ave., Farmington, NM 87401	Telephone No. 505-599-2124 / 505-599-2159
Facility Name Lateral 2A-3 Gathering Line	Facility Type: Natural gas gathering line

Surface Owner: BLM	Mineral Owner BLM	API No.
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
D	27	27N	10W					San Juan

Latitude_N 36.55191 _ Longitude_W 107.88884 (Decimal Degrees) _

NATURE OF RELEASE

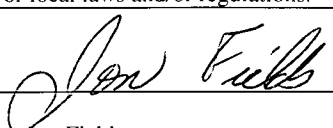
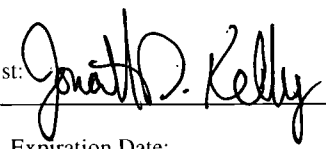
Type of Release: Natural Gas Pipeline Release	Volume of Release Unknown	Volume Recovered: Approximately 51 cubic yards of contaminated soil was removed from the location.
Source of Release: Corrosion hole	Date and Hour of Occurrence: Unknown	Date and Hour of Discovery 7.11.2013 @ 15:00 hours
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	RCVD SEP 30 '13
By Whom?	Date and Hour	OIL CONS. DIV.
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	DIST. 3

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* Enterprise gas control was notified of a possible line leak from a third party. Enterprise Operations responded to the reported location and verified the leak, isolated the pipeline, and coordinated for repairs. Contractor and Enterprise Operations/Environmental worked to mitigate the release location by removing the stained soil on the surface of the pipe release location until permanent repairs could be made.

Describe Area Affected and Cleanup Action Taken.* Enterprise Environmental was dispatched to the location to verify that water/condensate mix released from the pipe leak was mitigated prior to equipment arrival. A third party environmental contractor was dispatched to the leak location upon successful repairs and provided cleanup guidance. Approximately 51 cubic yards of contaminated soil was hauled to an OCD permitted land farm facility to achieve closure standards. Please find attached associated third party corrective action report with this "final" c-141 report.

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: Jon Fields	Approved by Environmental Specialist: 	
Title: Director, Field Environmental	Approval Date: 10/23/2013	Expiration Date:
E-mail Address: jefields@eprod.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 9-24-2013 Phone: 832-501-4078		

* Attach Additional Sheets If Necessary

nJK 1329652126
1413

Enterprise Products
Lateral 2A-3 Pipeline Release
Latitude North 36.55191, Longitude West -107.88884
NW1/4, NW1/4 Section 27 T27N R10W
San Juan County, New Mexico

RCVD SEP 30 '13
OIL CONS. DIV.
DIST. 3



Submitted To:

Enterprise Products
Field Environmental-San Juan Basin
614 Reilly Avenue
Farmington, NM 87401

Submitted By:

Souder, Miller & Associates
2101 San Juan Boulevard
Farmington, NM 87401
(505)325-7535



Table of Contents

1.0	Executive Summary	3
2.0	Introduction.....	3
3.0	Site Ranking and Land Jurisdiction	4
4.0	Summary of Field Activities	4
5.0	Conclusions and Recommendations.....	4
6.0	Closure and Limitations.....	5

Figures:

Figure 1: Vicinity Map

Figure 2: Site and Soil Contaminant Concentration Map

Tables:

Table 1: Release Information

Table 2: Site Ranking

Table 3: Summary of Field Screening Results

Table 4: Summary of Laboratory Analysis

Appendices:

Appendix A: Field Notes

Appendix B: Site Photography

Appendix C: Soil Disposal Documentation

Appendix D: Laboratory Analytical Reports

1.0 Executive Summary

On July 16, 2013, Souder, Miller & Associates (SMA) responded to a hydrocarbon release associated with the Lateral 2A-3 pipeline. On August 7, 2013, SMA sampled a wash that was located to the north of the main excavation associated with the release. The table below summarizes information about the release and remediation activities.

TABLE 1: RELEASE INFORMATION				
Name	Lateral 2A-3 Pipeline Release			
Location	Latitude/Longitude		Section, Township, Range	
	36.55191	-107.88884	Unit D NW ¼ NW ¼ Section 27	T 27 N, R 10 W
Date Reported	July 11, 2013			
	Aaron Dailey			
Land Owner	Bureau of Land Management (BLM)			
Reported To	New Mexico Oil Conservation Division (NMOCD) and BLM			
Diameter of Pipeline	14 inches			
Source of Release	Internal Corrosion			
Release Contents	Natural Gas Liquids/Condensate			
Release Volume	Unknown			
Nearest Waterway	Kutz Wash			
Depth to Groundwater	Assumed to be less than 50 feet			
Nearest Domestic Water Source	Greater than 200 feet			
NMOCD Ranking	30			
SMA Response Dates	July 16, 2013 & August 7, 2013			
Subcontractors	Energy Maintenance Services (EMS)			
Disposal Facility	Envirotech Landfarm			
Yd ³ Contaminated Soil Excavated and Disposed	51			

2.0 Introduction

On behalf of Enterprise Products Operating, LLC. (Enterprise), SMA has prepared this report that describes remediation of a hydrocarbon release associated with the Lateral 2A-3 pipeline. The Lateral 2A-3 pipeline release was a result of internal corrosion of the steel pipeline. The release was reported on July 11, 2013. The pipeline is located in Unit D (NW ¼, NW ¼) Section 27, Township 27 North, Range 10W, 36.55191, -107.88884, San Juan County, New Mexico. Figure 1, Vicinity Map, illustrates the location of the release.

3.0 Site Ranking and Land Jurisdiction

The release site is located approximately 300 feet northeast of Kutz Wash with an elevation of approximately 6,151 feet above sea level. After evaluation of the site using aerial photography and topographic maps, depth to groundwater is estimated to be less than 50 feet below ground surface (bgs).

SMA searched the New Mexico State Engineer's Office online water well data base for water wells in the vicinity of the release. No wells were located in sections 15, 16, or 27. This release location has been assigned a NMOCD ranking of 30. The physical location of this release is within the jurisdiction of the BLM and NMOCD and requires soil remediation to below 10 parts per million (ppm) benzene, 50 ppm total benzene, toluene, ethyl-benzene, and total xylenes (BTEX), and 100 ppm total petroleum hydrocarbons (TPH). Table 2 illustrates site ranking rationale.

4.0 Summary of Field Activities

On July 16, 2013, under the supervision of SMA, EMS excavated the hydrocarbon impacted soil while making repairs to the Lateral 2A-3 pipeline. SMA personnel guided the excavation activities by collecting soil samples for field screening with a calibrated photo-ionization detector (PID). Table 3 summarizes the field screening results. After field screening results indicated that the hydrocarbon impacted soil had been removed, SMA collected five composite soil samples for laboratory analysis. SMA also collected a composite sample from the southern portion of a small wash located to the west of the main excavation.

On August 7, 2013, SMA returned to sample the northern portion and below the convergence of the north and south portions of the wash located to the west of the main excavation associated with the release. A total of five composite soil samples were collected from this wash. All laboratory soil samples were field screened with a calibrated PID and submitted for laboratory analysis per United States Environmental Protection Agency Method 8021 BTEX, and 8015 Diesel Range Organics (DRO) and Gasoline Range Organics (GRO) to Hall Environmental Analysis Laboratory of Albuquerque, New Mexico. Figure 2 illustrates the extent of the excavation and composite soil sample locations.

The final excavation dimensions were approximately 40 feet long by 14 feet wide by 4 feet deep. Field notes are included in Appendix A. Site photography is included in Appendix B. Approximately 51 cubic yards of hydrocarbon contaminated soil were excavated and transported by EMS to Envirotech Land Farm near Bloomfield, New Mexico for proper disposal. Soil disposal documentation is included in Appendix C. Clean imported soil was transported to the site and used as backfill.

5.0 Conclusions and Recommendations

As noted in Section 3.0 of this report, NMOCD Guidelines for Remediation of Leaks, Spills, and Releases have established the following action levels for contaminants of concern with a site ranking of 30: 10 ppm benzene, 50 ppm total BTEX, and 100 ppm TPH. Based on laboratory

analysis, all of the soil samples collected were either below laboratory detection limits or below NMOCD soil remediation standards. Soil contaminant concentrations are illustrated in Figure 2. A summary of laboratory analysis is included in Table 4. Laboratory reports are included in Appendix D.

SMA recommends no further action at this site.

6.0 Closure and Limitations

The scope of our services consisted of the performance of a preliminary spill assessment and stabilization, regulatory liaison, oversight and control of remediation operations, disposal arrangements and documentation, project management, and preparation of this summary report. All work has been performed in accordance with generally accepted professional environmental consulting practices.

If there are any questions regarding this report, please contact either Thomas Long or Reid Allan at 505-325-7535.

Submitted by:

Reviewed by:

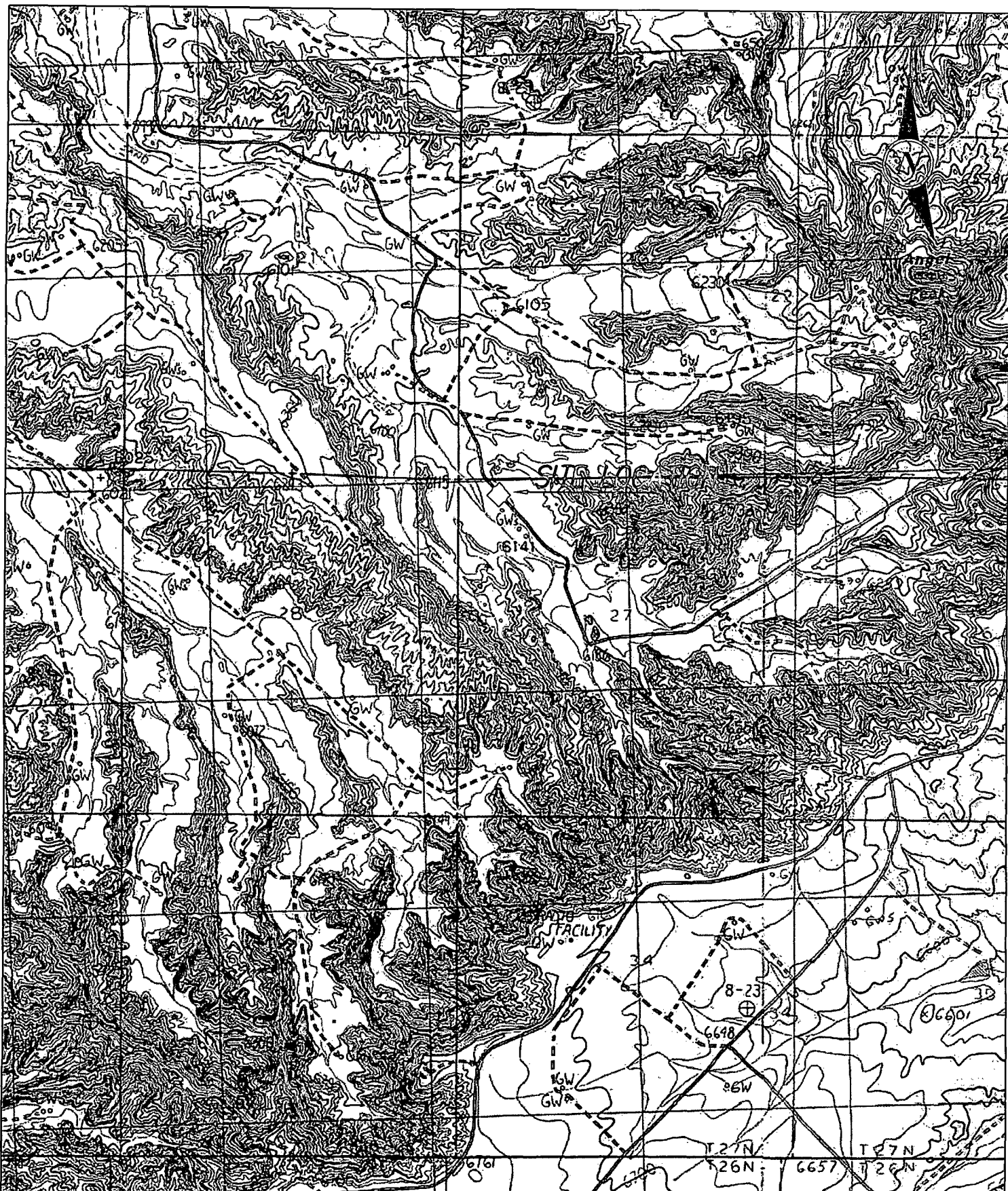
SOUDER, MILLER & ASSOCIATES



Thomas J. Long
Project Scientist



Reid S. Allan, PG
Principal Scientist



SCALE

0' 1000' 2000' 4000'



2101 SAN JUAN BLVD
FARMINGTON, NM 87401

FAX (505) 327-1496
PH. (505) 325-6667

APPROVED: RSA
DRAWN BY: TLONG
REVISIONS BY:
PROJECT # 5122104

DATE: 7/18/2013
DATE: 7/18/2013
DATE:
FIGURE: 1

VICINITY MAP
LATERAL 2A-3
NW 1/4 NW 1/4 SECTION 27 T27N R10W
SAN JUAN COUNTY, NEW MEXICO



EXTENT OF EXCAVATION
40 FEET X 14 FEET X 4 FEET DEEP

DIRT ROAD

SC-2 (7/16/2013)
BENZENE = <0.047
BTEX = <0.095
DRO = <10
GRO = <4.7

SC-4 (7/16/2013)
BENZENE = <0.048
BTEX = <0.097
DRO = <9.9
GRO = <4.8

SC-6 (7/16/2013)
BENZENE = <0.046
BTEX = <0.093
DRO = <10
GRO = <4.6

SC-3 (7/16/2013)
BENZENE = <0.047
BTEX = <0.094
DRO = <10
GRO = <4.7

SC-1 (8/7/2013)
BENZENE = <0.046
BTEX = <0.093
DRO = 17
GRO = <4.6

SC-2 (8/7/2013)
BENZENE = <0.047
BTEX = <0.095
DRO = <10
GRO = <4.7

SC-5 (7/16/2013)
BENZENE = <0.047
BTEX = <0.093
DRO = <10
GRO = <4.7

SC-1 (7/16/2013)
BENZENE = <0.047
BTEX = <0.093
DRO = <4.7
GRO = <10

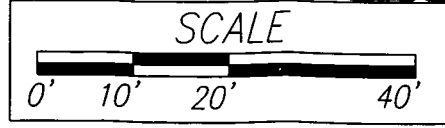
SC-3 (8/7/2013)
BENZENE = <0.048
BTEX = <0.095
DRO = 15
GRO = <4.8

SC-4 (8/7/2013)
BENZENE = <0.048
BTEX = <0.096
DRO = <10
GRO = <4.8

SC-5 (8/7/2013)
BENZENE = <0.049
BTEX = <0.097
DRO = 13
GRO = <4.8

SMALL WASH

SMALL WASH



LEGEND:

SC-3
○ - COMPOSITE SOIL SAMPLE LOCATION
(RESULTS IN mg/Kg)

□ - EXTENT OF EXCAVATION

By	CHD
Revision	Date
San Juan County, New Mexico	
ENTERPRISE PRODUCTS COMPANY	
SITE AND SOIL CONTAMINANT CONCENTRATION MAP	
LATERAL 2A-3 PIPELINE RELEASE	
NW 1/4 NW 1/4 SECTION 27 T27N R10W	
Soudier, Miller & Associates 1000 SAN JUAN AVENUE FARMINGTON, NM 87401 Phone (505) 325-7535 Toll-Free (800) 519-4098 Fax (505) 325-0445	
Designed	T.J.L.
Drawn	T.J.L.
Checked	RSA
THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS STAMPED, SIGNED AND DATED	
Date: 08/21/2013	
Scale: Horiz: 1" = 20'	
Vert: N/A	
Project No: 5122104	
Figure 2	

Depth to Groundwater	NMOCD Numeric Rank for this Site	Source for Ranking	Notes
< 50 BGS = 20	20	USGS Topo Maps; Google Earth Elevation Difference from the site and the unnamed wash to the north	Kutz Wash is located approximately 300 feet to the southwest; Site elevation is approximately 10 feet above Kutz Wash
50' to 99' = 10			
>100' = 0			
Ranking Criteria for Horizontal Distance to Nearest Surface Water	NMOCD Numeric Rank for this Site	Source for Ranking	Notes
< 200' = 20		USGS Topo Maps; Google Earth (An unnamed wash ~600' to the north); PRCC Mapping Tool	Kutz Wash is located approximately 300 feet to the southwest
200'-1000' = 10	10		
>1000'			
Ranking Criteria for Horizontal Distance to a Water Well or Water Source	NMOCD Numeric Rank for this Site	Source for Ranking	Notes
<1000' from a water source? <200' for a private domestic water source? YES OR NO to BOTH. YES = 20, NO = 0	0	NM State Engineer Water Well Database	No Wells in Sections 15, 16 and 27
Total Site Ranking	30		
Soil Remediation Standards	0 to 9	10 to 19	>19
Benzene	10 PPM	10 PPM	10 PPM
BTEX	50 PPM	50 PPM	50 PPM
TPH	5000 PPM	1000 PPM	100 PPM



Enterprise Products
Table 3: Summary of Field Screening Results
(PPM)

Lateral 2A-3 Pipeline Release
8/1/2013
Revised 8/29/13

FIELD SCREENING RESULTS SUMMARY					
Date	Time	Field Screening Reference	Sample Depth (Feet BGS)	PID Results	Lab Sample Collected Y/N
7/16/2013	13:10	S-1 (small wash)	0.5	0.8	N
7/16/2013	13:11	S-2 (small wash)	0.5	0.2	N
7/16/2013	13:12	S-3 (small wash)	0.5	0.2	N
7/16/2013	13:15	SC-1 (small wash)	0.5	0.3	Y
7/16/2013	14:05	S-4/SC-2	0-4	13.3	Y
7/16/2013	14:06	S-5/SC-3	0-4	28.3	Y
7/16/2013	14:07	S-6/SC-4	0-4	83.4	Y
7/16/2013	15:00	S-7/SC-5	0-4	9.9	Y
7/16/2013	15:03	S-8/SC-6 (Base)	4	149.0	Y
8/7/2013	14:10	SC-1	0.5	0.5	Y
8/7/2013	14:11	SC-2	0.5	0.7	Y
8/7/2013	14:12	SC-3	0.5	0.3	Y
8/7/2013	14:13	SC-4	0.5	0.2	Y
8/7/2013	14:14	SC-5	0.5	0.5	Y



Enterprise Products
Table 4: Summary of Laboratory Analysis
Results in Kg/mg

Lateral 2A-3 Pipeline Release
8/1/2013
Revised 8/29/2013

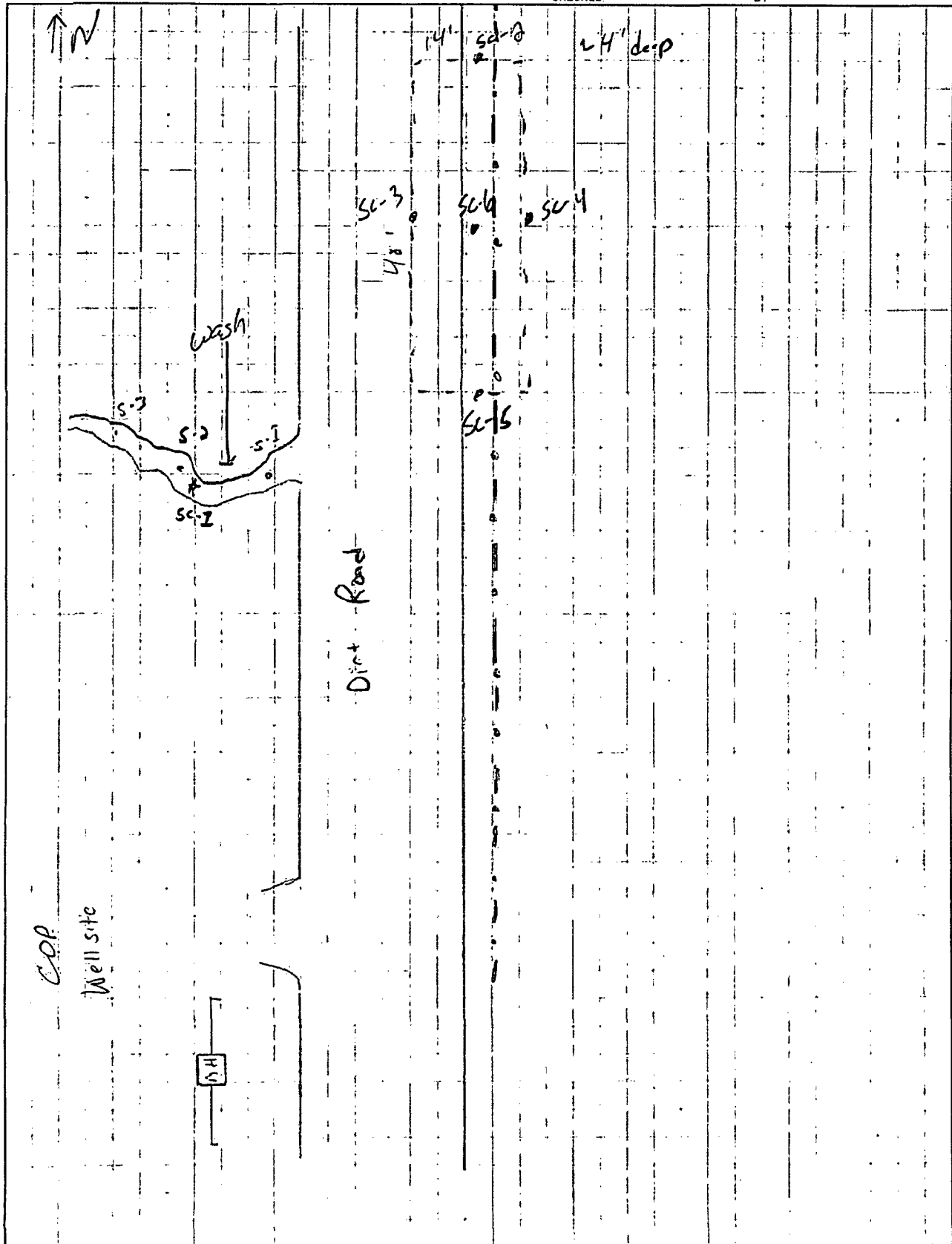
LABORATORY ANALYTICAL SUMMARY							
Date	Time	Sample ID	Sample Depth (Feet BGS)	Method 8015 GRO	Method 8015 DRO	Method 8021 Benzene	Method 8021 BTEX
7/16/2013	13:15	SC-1 (Small Wash)	0.5	<4.7	<10	<0.047	<0.093
7/16/2013	14:05	SC-2	0-4	<4.7	<10	<0.047	<0.095
7/16/2013	14:06	SC-3	0-4	<4.7	<10	<0.047	<0.094
7/16/2013	14:07	SC-4	0-4	<4.8	<9.9	<0.048	<0.097
7/16/2013	15:00	SC-5	0-4	<4.7	<10	<0.047	<0.093
7/16/2013	15:03	SC-6	4	<4.6	<10	<0.046	<0.093
8/7/2013	14:10	SC-1	0.5	<4.6	17	<0.046	<0.093
8/7/2013	14:11	SC-2	0.5	<4.7	<10	<0.047	<0.095
8/7/2013	14:12	SC-3	0.5	<4.8	15	<0.048	<0.095
8/7/2013	14:13	SC-4	0.5	<4.8	13	<0.049	<0.097
8/7/2013	14:14	SC-5	0.5	<4.8	<10	<0.048	<0.096



SUBJECT Lateral 2A-3 Pipeline Release PROJECT 5100104 PAGE 1 of 2
CLIENT Enterprise DATE 7-16-13 BY JCL

CHECKED

BY



onsite @ ISS, EMS + Enterprise excavating around PL
Fill out ISA, Sign in, map site

1300 Collect samples from small wash on west side of Road

	PPM	Time
S-1	0.8	1310
S-2	0.2	1311
S-3	0.2	1312

SC-1 (Wash c 0.5') 1315 0.3 ppm

S-4 (N Wall Comp) 1405 13.3 ppm - SC-2

S-5 (W. Wall Comp) 1406 28.3 ppm - SC-3

S-6 (E. Wall Comp) 1407 83.4 ppm SC-4

S-7 (S. Wall Comp) 1500 9.9 ppm SC-5

S-8 (Base c 4') 1503 1.49 ppm SC-6

Lab Samples

1515 load up; EMS to Z Rep PL and leave excavation
Open
1530 off site

1345 onsite; walk wash with A.D. of Enterprise
1400 Collect Composite Samples from wash

SC-1 c 2 3" 0.5 ppm e 1410

SC-2 c ~ 3" 0.7 ppm e 1411

SC-3 c ~ 3" 0.3 ppm e 1412

SC-4 c ~ 3" 0.2 ppm e 1413

SC-5 c ~ 3" 0.5 ppm 1414

1430 off site

Site Photography
Enterprise Products
Lateral 2A-3 Pipeline Release
NW 1/4, NW1/4 Section 27 T27N R10W
San Juan County, New Mexico

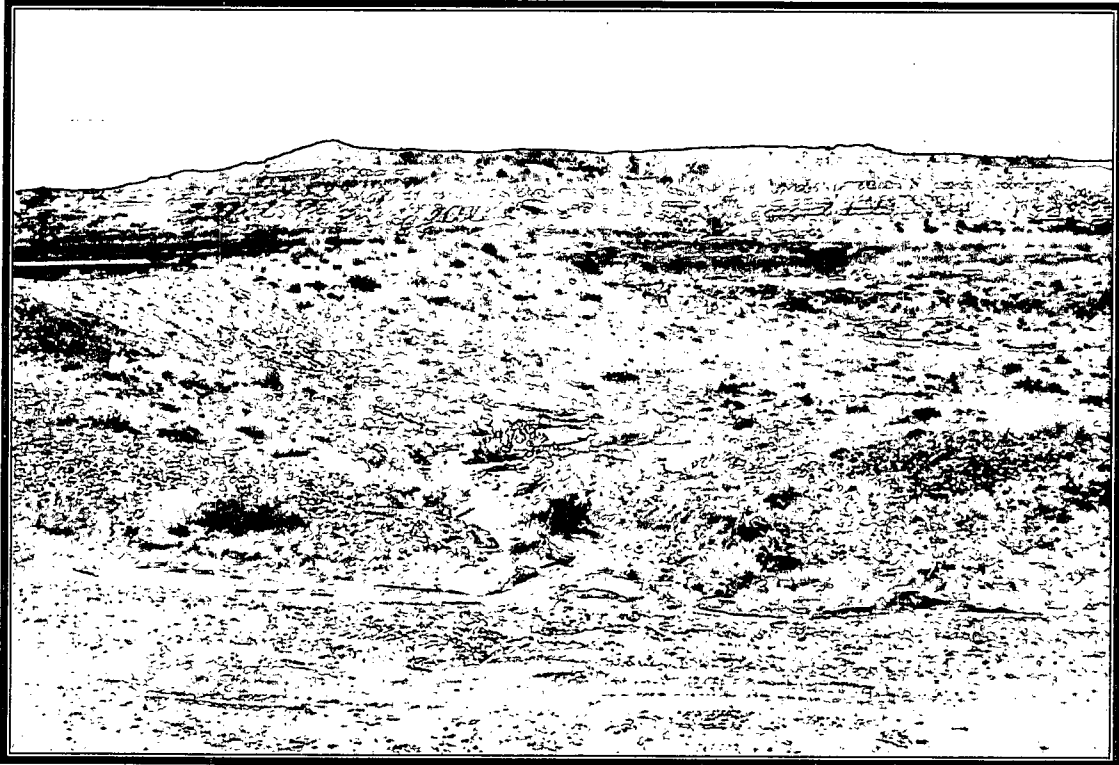


Photo 1: View of the small wash across the road from the Lateral 2A-3 excavation.

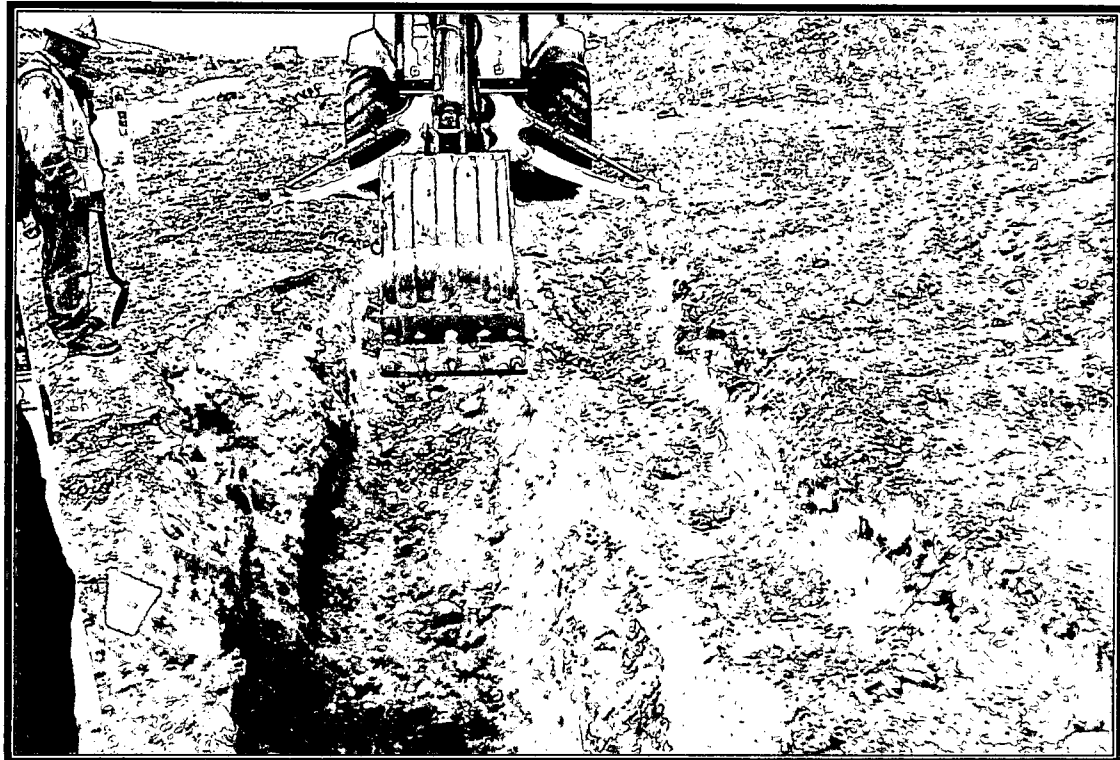


Photo 2: View of the excavation for the Lateral 2A-3 pipeline release.

Site Photography
Enterprise Products
Lateral 2A-3 Pipeline Release
NW 1/4, NW1/4 Section 27 T27N R10W
San Juan County, New Mexico



Photo 3: View of the excavation and the Lateral 2A-3 pipeline.



Photo 4: View of the excavation and the Lateral 2A-3 pipeline.

Site Photography
Enterprise Products
Lateral 2A-3 Pipeline Release
NW 1/4, NW1/4 Section 27 T27N R10W
San Juan County, New Mexico

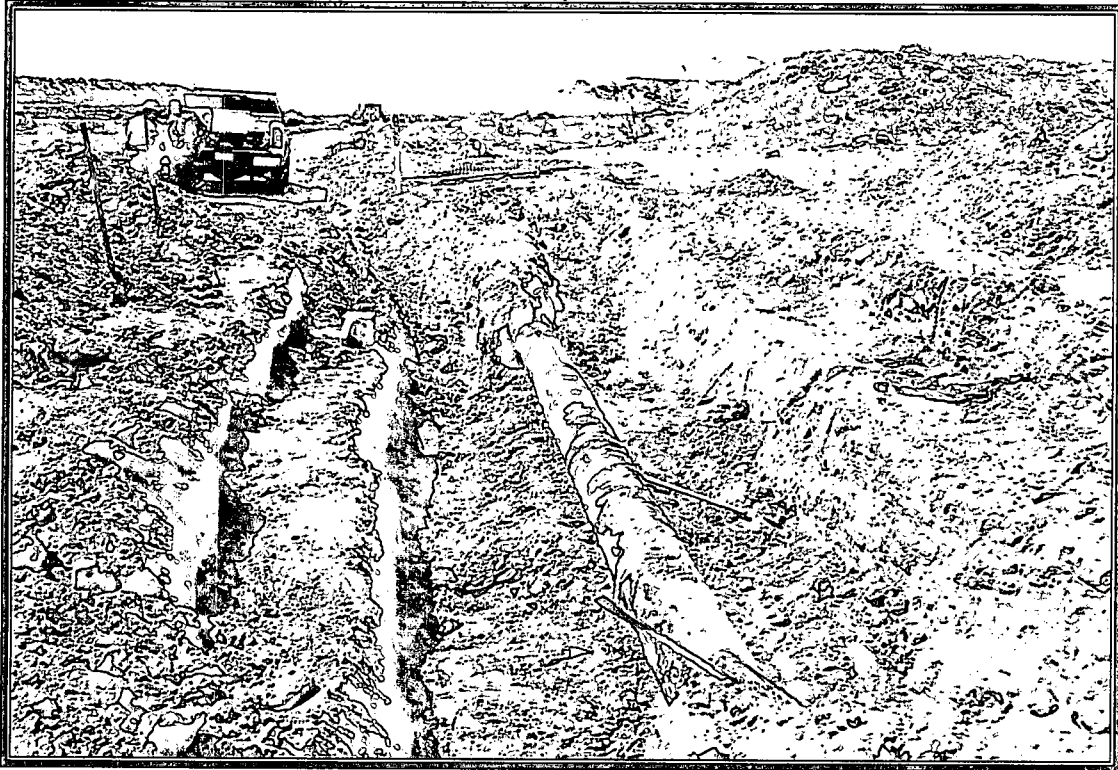


Photo 5: View of the excavation and the Lateral 2A-3 pipeline.

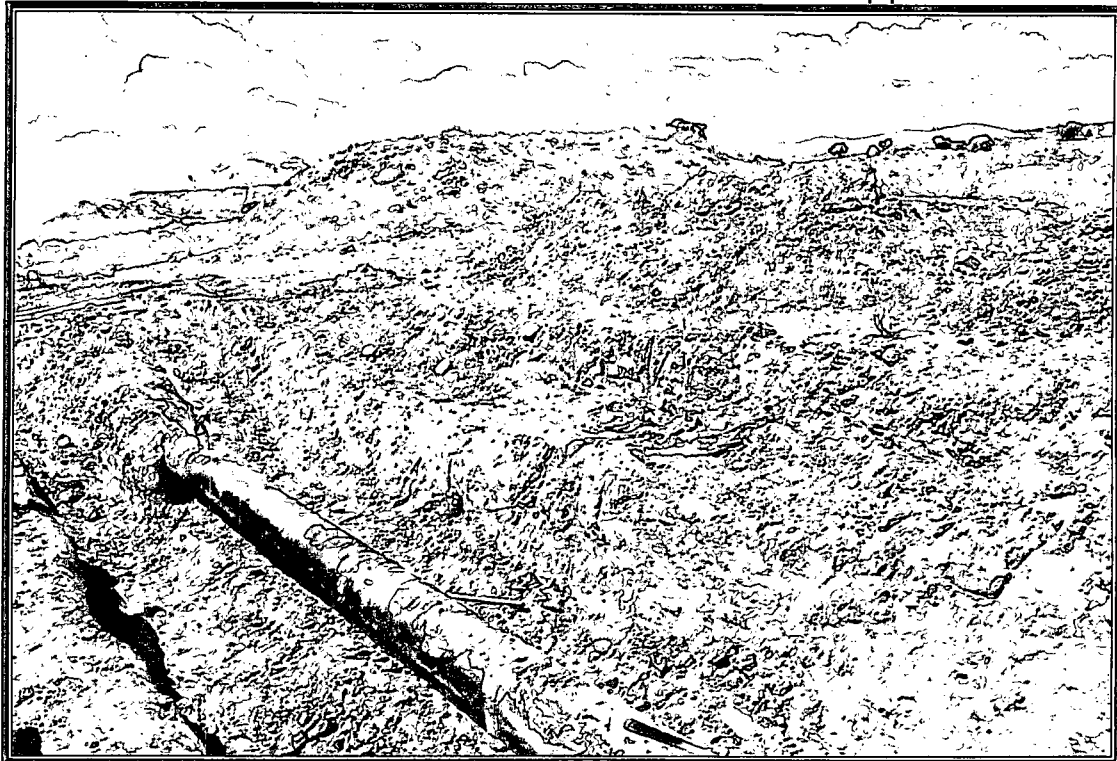


Photo 6: View of the excavation and the Lateral 2A-3 pipeline.

Site Photography
Enterprise Products
Lateral 2A-3 Pipeline Release
NW 1/4, NW1/4 Section 27 T27N R10W
San Juan County, New Mexico

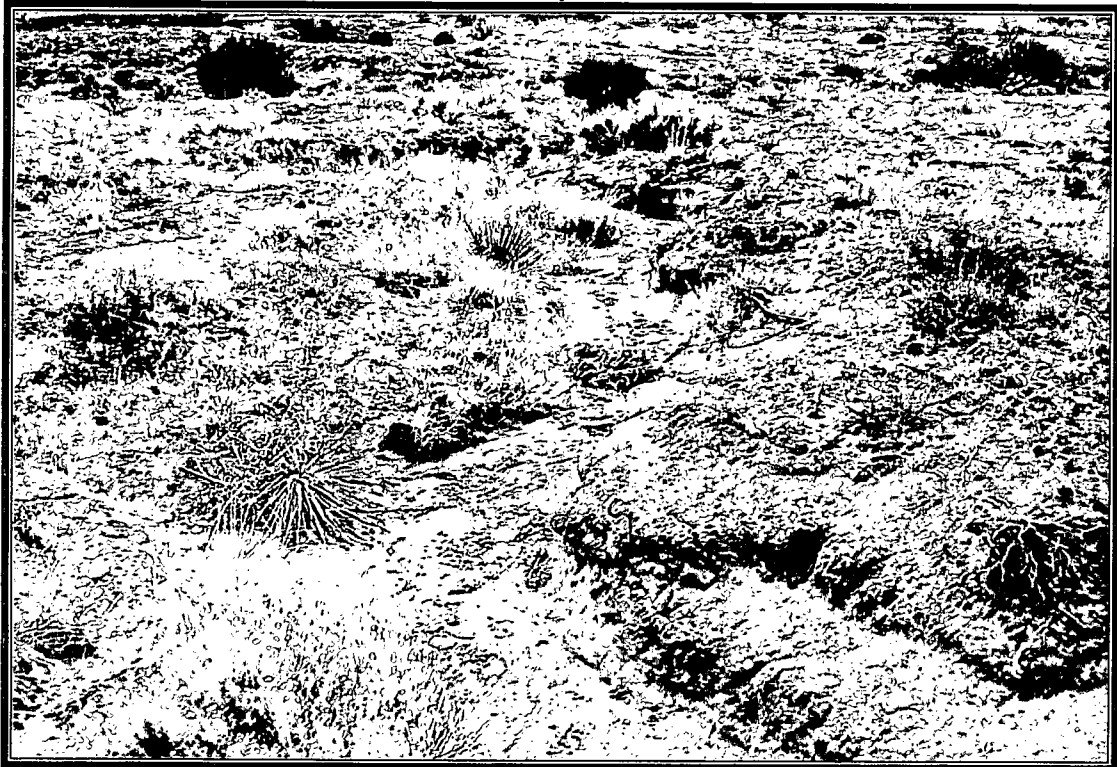


Photo 7: View of the northern wash that was sampled.



Photo 8: View of the northern wash that was sampled.

**envirotech**

Bill of Lading

MANIFEST # 44175

DATE 7-16-13

JOB # 91051-0512

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY				
	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	BBLs	COMPANY	TRK#	TIME	DRIVER SIGNATURE	
2	ENH PRISC LAT 2A-3 Pipeline	BF	Silice cont Soil		-	1	EMS	320- 010	16:35	[Signature]	
RESULTS:		LANDFARM EMPLOYEE: [Signature]	NOTES:								
292	CHLORIDE TEST										1
	PAINT FILTER TEST										1
			Certification of above receipt & placement								

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

TRANSPORTER CO. EMS

NAME Robert Tracy

SIGNATURE Robert Thomas

COMPANY CONTACT Mike Sanchez

PHONE 505-793-4426

DATE 7-16-13

Signatures required prior to distribution of the legal document.

White - Company Records, Yellow - Billing, Pink - Customer

san juan reproduction 578-126



Bill of Lading

MANIFEST # 44186

DATE 2-17-13

JOB

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

TRANSPORTER CO. *EMS*

NAME Reginald Tsosui

SIGNATURE *Ronald L.*

COMPANY CONTACT M. K. Sanchez

PHONE 505/333-2003

DATE 7-17-13

Signatures required prior to distribution of the legal document.



Bill of Lading

MANIFEST # 44187

DATE 7-17-12 JOB # 97057-0573

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

[illegible]

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

TRANSPORTER CO. EMS NAME Reginald Tsosie SIGNATURE Reginald Tsosie
COMPANY CONTACT Mike Sanchez PHONE (505) 338-2003 DATE 7-17-13

Signatures required prior to distribution of the legal document.

White - Company Records, Yellow - Billing, Pink - Customer

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**envirotech**

Bill of Lading

MANIFEST # 44188

DATE 7-17-13

JOB #

B# 97057-0572

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY			
	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	BBLS	COMPANY	TRK#	TIME	DRIVER SIGNATURE
1	ENTERPRISE/EMS LA+ 2A-3 PIPE/line	LFII	CONT SOIL	2-3	10	-	YUCCA	AFG	12:10	[Signature]
2	" " "	" "	" "	2-3	10	-	YUCCA	AFH	15:20	[Signature]
3	" " "	" "	" "	2-3	10	-	YUCCA	AFG	15:20	[Signature]
					30					
RESULTS:		LANDFARM EMPLOYEE:		NOTES:						
292 CHLORIDE TEST		[Signature]								
PAINT FILTER TEST		Certification of above receipt & placement								

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

TRANSPORTER CO. Yucca Welding & Excav. NAME Reak Rogers SIGNATURE [Signature]
COMPANY CONTACT Henry Armenta PHONE _____ DATE 2-17-13

Signatures required prior to distribution of the legal document.

**envirotech**

Bill of Lading

MANIFEST # 44189

DATE 7-17-13

JOB # 91051-0573

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

[illegible]

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

TRANSPORTER CO. Tucca Welding & Excav. NAME Read Rogers SIGNATURE [Signature]

COMPANY CONTACT Henry Argenta PHONE _____ DATE 7-17-13

Signatures required prior to distribution of the legal document.

White - Company Records, Yellow - Billing, Pink - Customer

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

July 25, 2013

Thomas Long
Souder, Miller and Associates
2101 San Juan Boulevard
Farmington, NM 87401
TEL: (505) 325-7535
FAX

RE: Lateral 2A-3

OrderNo.: 1307865

Dear Thomas Long:

Hall Environmental Analysis Laboratory received 6 sample(s) on 7/18/2013 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. 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,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 1307865

Date Reported: 7/25/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Client Sample ID: SC-1 0.5'

Project: Lateral 2A-3

Collection Date: 7/16/2013 1:15:00 PM

Lab ID: 1307865-001

Matrix: SOIL

Received Date: 7/18/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	7/22/2013 2:21:20 PM	8427
Surr: DNOP	108	63-147		%REC	1	7/22/2013 2:21:20 PM	8427
EPA METHOD 8015D: GASOLINE RANGE							Analyst: DAM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/22/2013 2:55:43 PM	8464
Surr: BFB	98.6	80-120		%REC	1	7/22/2013 2:55:43 PM	8464
EPA METHOD 8021B: VOLATILES							Analyst: DAM
Benzene	ND	0.047		mg/Kg	1	7/22/2013 2:55:43 PM	8464
Toluene	ND	0.047		mg/Kg	1	7/22/2013 2:55:43 PM	8464
Ethylbenzene	ND	0.047		mg/Kg	1	7/22/2013 2:55:43 PM	8464
Xylenes, Total	ND	0.093		mg/Kg	1	7/22/2013 2:55:43 PM	8464
Surr: 4-Bromofluorobenzene	96.6	80-120		%REC	1	7/22/2013 2:55:43 PM	8464

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 for VOA and TOC only.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
				Page 1 of 9

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1307865

Date Reported: 7/25/2013

CLIENT: Souder, Miller and Associates

Client Sample ID: SC-2 N. Wall 0-4'

Project: Lateral 2A-3

Collection Date: 7/16/2013 2:05:00 PM

Lab ID: 1307865-002

Matrix: SOIL

Received Date: 7/18/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	7/22/2013 2:51:58 PM	8427
Surr: DNOP	84.6	63-147		%REC	1	7/22/2013 2:51:58 PM	8427
EPA METHOD 8015D: GASOLINE RANGE							Analyst: DAM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/22/2013 3:24:19 PM	8464
Surr: BFB	93.5	80-120		%REC	1	7/22/2013 3:24:19 PM	8464
EPA METHOD 8021B: VOLATILES							Analyst: DAM
Benzene	ND	0.047		mg/Kg	1	7/22/2013 3:24:19 PM	8464
Toluene	ND	0.047		mg/Kg	1	7/22/2013 3:24:19 PM	8464
Ethylbenzene	ND	0.047		mg/Kg	1	7/22/2013 3:24:19 PM	8464
Xylenes, Total	ND	0.095		mg/Kg	1	7/22/2013 3:24:19 PM	8464
Surr: 4-Bromofluorobenzene	95.8	80-120		%REC	1	7/22/2013 3:24:19 PM	8464

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 for VOA and TOC only.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Analytical Report

Lab Order 1307865

Date Reported: 7/25/2013

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Souder, Miller and Associates**Client Sample ID:** SC-3 W. Wall 0-4'**Project:** Lateral 2A-3**Collection Date:** 7/16/2013 2:06:00 PM**Lab ID:** 1307865-003**Matrix:** SOIL**Received Date:** 7/18/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	7/22/2013 3:22:36 PM	8427
Surr: DNOP	101	63-147		%REC	1	7/22/2013 3:22:36 PM	8427
EPA METHOD 8015D: GASOLINE RANGE							Analyst: DAM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/22/2013 3:52:56 PM	8464
Surr: BFB	93.4	80-120		%REC	1	7/22/2013 3:52:56 PM	8464
EPA METHOD 8021B: VOLATILES							Analyst: DAM
Benzene	ND	0.047		mg/Kg	1	7/22/2013 3:52:56 PM	8464
Toluene	ND	0.047		mg/Kg	1	7/22/2013 3:52:56 PM	8464
Ethylbenzene	ND	0.047		mg/Kg	1	7/22/2013 3:52:56 PM	8464
Xylenes, Total	ND	0.094		mg/Kg	1	7/22/2013 3:52:56 PM	8464
Surr: 4-Bromofluorobenzene	95.4	80-120		%REC	1	7/22/2013 3:52:56 PM	8464

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 for VOA and TOC only.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1307865

Date Reported: 7/25/2013

CLIENT: Souder, Miller and Associates

Client Sample ID: SC-4 E. Wall 0-4'

Project: Lateral 2A-3

Collection Date: 7/16/2013 2:07:00 PM

Lab ID: 1307865-004

Matrix: SOIL

Received Date: 7/18/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	7/22/2013 3:53:25 PM	8427
Surr: DNOP	117	63-147		%REC	1	7/22/2013 3:53:25 PM	8427
EPA METHOD 8015D: GASOLINE RANGE							Analyst: DAM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	7/23/2013 12:15:10 PM	8464
Surr: BFB	91.8	80-120		%REC	1	7/23/2013 12:15:10 PM	8464
EPA METHOD 8021B: VOLATILES							Analyst: DAM
Benzene	ND	0.048		mg/Kg	1	7/23/2013 12:15:10 PM	8464
Toluene	ND	0.048		mg/Kg	1	7/23/2013 12:15:10 PM	8464
Ethylbenzene	ND	0.048		mg/Kg	1	7/23/2013 12:15:10 PM	8464
Xylenes, Total	ND	0.097		mg/Kg	1	7/23/2013 12:15:10 PM	8464
Surr: 4-Bromofluorobenzene	93.4	80-120		%REC	1	7/23/2013 12:15:10 PM	8464

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 for VOA and TOC only.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
				Page 4 of 9

Analytical ReportLab Order **1307865**Date Reported: **7/25/2013****Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Souder, Miller and Associates**Client Sample ID:** SC-5 S. Wall 0-4'**Project:** Lateral 2A-3**Collection Date:** 7/16/2013 3:00:00 PM**Lab ID:** 1307865-005**Matrix:** SOIL**Received Date:** 7/18/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	7/22/2013 4:24:01 PM	8427
Surr: DNOP	101	63-147		%REC	1	7/22/2013 4:24:01 PM	8427
EPA METHOD 8015D: GASOLINE RANGE							Analyst: DAM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/22/2013 9:36:05 PM	8464
Surr: BFB	90.9	80-120		%REC	1	7/22/2013 9:36:05 PM	8464
EPA METHOD 8021B: VOLATILES							Analyst: DAM
Benzene	ND	0.047		mg/Kg	1	7/22/2013 9:36:05 PM	8464
Toluene	ND	0.047		mg/Kg	1	7/22/2013 9:36:05 PM	8464
Ethylbenzene	ND	0.047		mg/Kg	1	7/22/2013 9:36:05 PM	8464
Xylenes, Total	ND	0.093		mg/Kg	1	7/22/2013 9:36:05 PM	8464
Surr: 4-Bromofluorobenzene	93.2	80-120		%REC	1	7/22/2013 9:36:05 PM	8464

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 for VOA and TOC only.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Analytical Report

Lab Order 1307865

Date Reported: 7/25/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Client Sample ID: SC-6 Base @4'

Project: Lateral 2A-3

Collection Date: 7/16/2013 3:03:00 PM

Lab ID: 1307865-006

Matrix: SOIL

Received Date: 7/18/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	7/22/2013 4:54:41 PM	8427
Surr: DNOP	92.2	63-147		%REC	1	7/22/2013 4:54:41 PM	8427
EPA METHOD 8015D: GASOLINE RANGE							Analyst: DAM
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	7/22/2013 11:01:52 PM	8464
Surr: BFB	91.4	80-120		%REC	1	7/22/2013 11:01:52 PM	8464
EPA METHOD 8021B: VOLATILES							Analyst: DAM
Benzene	ND	0.046		mg/Kg	1	7/22/2013 11:01:52 PM	8464
Toluene	ND	0.046		mg/Kg	1	7/22/2013 11:01:52 PM	8464
Ethylbenzene	ND	0.046		mg/Kg	1	7/22/2013 11:01:52 PM	8464
Xylenes, Total	ND	0.093		mg/Kg	1	7/22/2013 11:01:52 PM	8464
Surr: 4-Bromofluorobenzene	94.0	80-120		%REC	1	7/22/2013 11:01:52 PM	8464

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 for VOA and TOC only.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1307865

25-Jul-13

Client: Souder, Miller and Associates

Project: Lateral 2A-3

Sample ID	MB-8427		SampType:	MBLK		TestCode:	EPA Method 8015D: Diesel Range Organics			
Client ID:	PBS		Batch ID:	8427		RunNo:	12086			
Prep Date:	7/17/2013		Analysis Date:	7/22/2013		SeqNo:	343714		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	9.2		10.00		92.3	63	147			

Sample ID	LCS-8427		SampType:	LCS		TestCode:	EPA Method 8015D: Diesel Range Organics			
Client ID:	LCSS		Batch ID:	8427		RunNo:	12086			
Prep Date:	7/17/2013		Analysis Date:	7/22/2013		SeqNo:	343814		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	97.0	77.1	128			
Surr: DNOP	5.1		5.000		101	63	147			

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

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 for VOA and TOC only.
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1307865

25-Jul-13

Client: Souder, Miller and Associates

Project: Lateral 2A-3

Sample ID	MB-8464		SampType:	MBLK		TestCode:	EPA Method 8015D: Gasoline Range				
Client ID:	PBS		Batch ID:	8464		RunNo:	12092				
Prep Date:	7/19/2013		Analysis Date:	7/22/2013		SeqNo:	344247		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	930		1000		92.6	80	120				

Sample ID	LCS-8464		SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	LCSS		Batch ID: 8464		RunNo: 12092					
Prep Date:	7/19/2013		Analysis Date: 7/22/2013		SeqNo: 344248		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	110	62.6	136			
Surr: BFB	1000		1000		101	80	120			

Sample ID	MB-8488		SampType:	MBLK		TestCode:	EPA Method 8015D: Gasoline Range				
Client ID:	PBS		Batch ID:	8488		RunNo:	12124				
Prep Date:	7/22/2013		Analysis Date:	7/23/2013		SeqNo:	345356		Units: %REC		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: BFB	1200		1000		116	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 for VOA and TOC only. |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1307865

25-Jul-13

Client: Souder, Miller and Associates

Project: Lateral 2A-3

Sample ID	MB-8464		SampType: MBLK		TestCode: EPA Method 8021B: Volatiles					
Client ID:	PBS		Batch ID: 8464		RunNo: 12092					
Prep Date:	7/19/2013		Analysis Date: 7/22/2013		SeqNo: 344510		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.96		1.000		96.3	80	120			

Sample ID	LCS-8464		SampType: LCS		TestCode: EPA Method 8021B: Volatiles					
Client ID:	LCSS		Batch ID: 8464		RunNo: 12092					
Prep Date:	7/19/2013		Analysis Date: 7/22/2013		SeqNo: 344511		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.050	1.000	0	101	80	120			
Toluene	1.0	0.050	1.000	0	101	80	120			
Ethylbenzene	1.0	0.050	1.000	0	100	80	120			
Xylenes, Total	3.0	0.10	3.000	0	102	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		100	80	120			

Sample ID	MB-8488		SampType:	MBLK		TestCode:	EPA Method 8021B: Volatiles				
Client ID:	PBS		Batch ID:	8488		RunNo:	12124				
Prep Date:	7/22/2013		Analysis Date:	7/23/2013		SeqNo:	345371		Units: %REC		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: 4-Bromofluorobenzene	0.98		1.000		98.0	80	120				

Sample ID	LCS-8488		SampType:	LCS		TestCode:	EPA Method 8021B: Volatiles				
Client ID:	LCSS		Batch ID:	8488		RunNo:	12124				
Prep Date:	7/22/2013		Analysis Date:	7/23/2013		SeqNo:	345372		Units: %REC		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: 4-Bromofluorobenzene	1.1		1.000		111	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 for VOA and TOC only. |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |



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

Sample Log-In Check List

Client Name: SMA-FARM

Work Order Number: 1307865

RcptNo: 1

Received by/date:

Logged By: Lindsay Mangin

7/18/2013 10:00:00 AM

Completed By: Lindsay Mangin

7/18/2013 1:49:22 PM

Reviewed By:

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: SMA	<input checked="" type="checkbox"/> Standard	<input type="checkbox"/> Rush
Mailing Address: 2101 San Juan Blvd. Farmington, NM 87401	Project Name: Lateral 24-3	
Phone #: 505.325-7535	Project #: 5122104	
email or Fax#: tam.lange@sondormiller.com	Project Manager: Thomas Long	
QA/QC Package: <input checked="" type="checkbox"/> Standard	<input type="checkbox"/> Level 4 (Full Validation)	
Accreditation <input type="checkbox"/> NELAP	<input type="checkbox"/> Other	
<input type="checkbox"/> EDD (Type)	Sampler: Thomas Long	
	On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
	Sample Temperature: 15°C	

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

[illegible]

Date:	Time:	Relinquished by:	Received by:	Date	Time
7-17-13	1546	Thomas Long	Christopher Waelen	7/17/13	1546
Date:	Time:	Relinquished by:	Received by:	Date	Time
7/17/13	1747	Christopher Waelen	Christopher Waelen	07/18/13	1000

Remarks:	Bill To Enterprise
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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*

August 15, 2013

Thomas Long
Souder, Miller and Associates
2101 San Juan Boulevard
Farmington, NM 87401
TEL: (505) 325-7535
FAX

RE: Lateral 2A-3

OrderNo.: 1308352

Dear Thomas Long:

Hall Environmental Analysis Laboratory received 5 sample(s) on 8/8/2013 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. 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,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1308352

Date Reported: 8/15/2013

CLIENT: Souder, Miller and Associates

Client Sample ID: SC-1

Project: Lateral 2A-3

Collection Date: 8/7/2013 2:10:00 PM

Lab ID: 1308352-001

Matrix: SOIL

Received Date: 8/8/2013 9:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	17	9.9		mg/Kg	1	8/12/2013 9:41:27 PM	8796
Surr: DNOP	102	63-147		%REC	1	8/12/2013 9:41:27 PM	8796
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	8/12/2013 2:14:04 PM	8800
Surr: BFB	87.9	80-120		%REC	1	8/12/2013 2:14:04 PM	8800
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.046		mg/Kg	1	8/12/2013 2:14:04 PM	8800
Toluene	ND	0.046		mg/Kg	1	8/12/2013 2:14:04 PM	8800
Ethylbenzene	ND	0.046		mg/Kg	1	8/12/2013 2:14:04 PM	8800
Xylenes, Total	ND	0.093		mg/Kg	1	8/12/2013 2:14:04 PM	8800
Surr: 4-Bromofluorobenzene	103	80-120		%REC	1	8/12/2013 2:14:04 PM	8800

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 for VOA and TOC only.
	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 1308352

Date Reported: 8/15/2013

CLIENT: Souder, Miller and Associates**Client Sample ID:** SC-2**Project:** Lateral 2A-3**Collection Date:** 8/7/2013 2:11:00 PM**Lab ID:** 1308352-002**Matrix:** SOIL**Received Date:** 8/8/2013 9:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	8/12/2013 10:46:52 PM	8796
Surr: DNOP	105	63-147		%REC	1	8/12/2013 10:46:52 PM	8796
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	8/12/2013 3:39:58 PM	8800
Surr: BFB	88.6	80-120		%REC	1	8/12/2013 3:39:58 PM	8800
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.047		mg/Kg	1	8/12/2013 3:39:58 PM	8800
Toluene	ND	0.047		mg/Kg	1	8/12/2013 3:39:58 PM	8800
Ethylbenzene	ND	0.047		mg/Kg	1	8/12/2013 3:39:58 PM	8800
Xylenes, Total	ND	0.095		mg/Kg	1	8/12/2013 3:39:58 PM	8800
Surr: 4-Bromofluorobenzene	105	80-120		%REC	1	8/12/2013 3:39:58 PM	8800

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

Qualifiers:

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

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

Analytical Report

Lab Order 1308352

Date Reported: 8/15/2013

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Souder, Miller and Associates**Client Sample ID:** SC-3**Project:** Lateral 2A-3**Collection Date:** 8/7/2013 2:12:00 PM**Lab ID:** 1308352-003**Matrix:** SOIL**Received Date:** 8/8/2013 9:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	15	10		mg/Kg	1	8/12/2013 11:08:35 PM	8796
Surr: DNOP	99.6	63-147		%REC	1	8/12/2013 11:08:35 PM	8796
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/12/2013 5:05:46 PM	8800
Surr: BFB	89.5	80-120		%REC	1	8/12/2013 5:05:46 PM	8800
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.048		mg/Kg	1	8/12/2013 5:05:46 PM	8800
Toluene	ND	0.048		mg/Kg	1	8/12/2013 5:05:46 PM	8800
Ethylbenzene	ND	0.048		mg/Kg	1	8/12/2013 5:05:46 PM	8800
Xylenes, Total	ND	0.095		mg/Kg	1	8/12/2013 5:05:46 PM	8800
Surr: 4-Bromofluorobenzene	104	80-120		%REC	1	8/12/2013 5:05:46 PM	8800

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 for VOA and TOC only.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

Analytical Report

Lab Order 1308352

Date Reported: 8/15/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Client Sample ID: SC-4

Project: Lateral 2A-3

Collection Date: 8/7/2013 2:13:00 PM

Lab ID: 1308352-004

Matrix: SOIL

Received Date: 8/8/2013 9:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	13	10		mg/Kg	1	8/12/2013 11:30:18 PM	8796
Surr: DNOP	98.3	63-147		%REC	1	8/12/2013 11:30:18 PM	8796
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/12/2013 5:34:27 PM	8800
Surr: BFB	89.1	80-120		%REC	1	8/12/2013 5:34:27 PM	8800
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.049		mg/Kg	1	8/12/2013 5:34:27 PM	8800
Toluene	ND	0.049		mg/Kg	1	8/12/2013 5:34:27 PM	8800
Ethylbenzene	ND	0.049		mg/Kg	1	8/12/2013 5:34:27 PM	8800
Xylenes, Total	ND	0.097		mg/Kg	1	8/12/2013 5:34:27 PM	8800
Surr: 4-Bromofluorobenzene	105	80-120		%REC	1	8/12/2013 5:34:27 PM	8800

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 for VOA and TOC only.
	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 1308352

Date Reported: 8/15/2013

CLIENT: Souder, Miller and Associates

Client Sample ID: SC-5

Project: Lateral 2A-3

Collection Date: 8/7/2013 2:14:00 PM

Lab ID: 1308352-005

Matrix: SOIL

Received Date: 8/8/2013 9:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	8/12/2013 11:52:01 PM	8796
Surr: DNOP	98.3	63-147		%REC	1	8/12/2013 11:52:01 PM	8796
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/12/2013 6:03:12 PM	8800
Surr: BFB	88.7	80-120		%REC	1	8/12/2013 6:03:12 PM	8800
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.048		mg/Kg	1	8/12/2013 6:03:12 PM	8800
Toluene	ND	0.048		mg/Kg	1	8/12/2013 6:03:12 PM	8800
Ethylbenzene	ND	0.048		mg/Kg	1	8/12/2013 6:03:12 PM	8800
Xylenes, Total	ND	0.096		mg/Kg	1	8/12/2013 6:03:12 PM	8800
Surr: 4-Bromofluorobenzene	104	80-120		%REC	1	8/12/2013 6:03:12 PM	8800

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 for VOA and TOC only.
	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#: 1308352

15-Aug-13

Client: Souder, Miller and Associates

Project: Lateral 2A-3

Sample ID	MB-8796	SampType:	MBLK		TestCode:	EPA Method 8015D: Diesel Range Organics				
Client ID:	PBS	Batch ID:	8796		RunNo:	12540				
Prep Date:	8/9/2013	Analysis Date:	8/12/2013		SeqNo:	357283	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		97.2	63	147			

Sample ID	LCS-8796		SampType:	LCS		TestCode:	EPA Method 8015D: Diesel Range Organics				
Client ID:	LCSS		Batch ID:	8796		RunNo:	12540				
Prep Date:	8/9/2013		Analysis Date:	8/12/2013		SeqNo:	357284		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	40	10	50.00	0	79.9	77.1	128				
Surr: DNOP	3.8		5.000		76.5	63	147				

Sample ID	MB-8810		SampType:	MBLK		TestCode:	EPA Method 8015D: Diesel Range Organics				
Client ID:	PBS		Batch ID:	8810		RunNo:	12540				
Prep Date:	8/12/2013		Analysis Date:	8/12/2013		SeqNo:	357705		Units: %REC		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: DNOP	9.9		10.00		99.3	63	147				

Sample ID	LCS-8810		SampType: LCS		TestCode: EPA Method 8015D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 8810		RunNo: 12540					
Prep Date:	8/12/2013		Analysis Date: 8/12/2013		SeqNo: 357950		Units: %REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.1		5.000		81.3	63	147			

Sample ID	1308352-001AMS		SampType: MS		TestCode: EPA Method 8015D: Diesel Range Organics					
Client ID:	SC-1		Batch ID: 8796		RunNo: 12540					
Prep Date:	8/9/2013		Analysis Date: 8/12/2013		SeqNo: 357951		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	10	50.30	17.04	51.5	61.3	138			S
Surr: DNOP	4.4		5.030		87.0	63	147			

Sample ID	1308352-001AMSD		SampType: MSD		TestCode: EPA Method 8015D: Diesel Range Organics					
Client ID:	SC-1		Batch ID: 8796		RunNo: 12540					
Prep Date:	8/9/2013		Analysis Date: 8/12/2013		SeqNo: 357952		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	9.9	49.70	17.04	64.0	61.3	138	12.9	20	
Surr: DNOP	4.2		4.970		83.8	63	147	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 for VOA and TOC only. |
| 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#: 1308352

15-Aug-13

Client: Souder, Miller and Associates

Project: Lateral 2A-3

Sample ID	1308420-001AMS	SampType:	MS	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	BatchQC	Batch ID:	8810	RunNo:	12540					
Prep Date:	8/12/2013	Analysis Date:	8/12/2013	SeqNo:	357965	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.0		4.995		81.0	63	147			

Sample ID	1308420-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	BatchQC	Batch ID:	8810	RunNo:	12540					
Prep Date:	8/12/2013	Analysis Date:	8/12/2013	SeqNo:	357966	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.4		4.931		88.9	63	147	0	\ 0	

Qualifiers:

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1308352

15-Aug-13

Client: Souder, Miller and Associates

Project: Lateral 2A-3

Sample ID	MB-8800		SampType:	MBLK		TestCode:	EPA Method 8015D: Gasoline Range			
Client ID:	PBS		Batch ID:	R12570		RunNo:	12570			
Prep Date:	8/9/2013		Analysis Date:	8/12/2013		SeqNo:	358060		Units: %REC	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	870		1000		86.9	80	120			

Sample ID	LCS-8800		SampType:	LCS		TestCode:	EPA Method 8015D: Gasoline Range			
Client ID:	LCSS		Batch ID:	R12570		RunNo:	12570			
Prep Date:	8/9/2013		Analysis Date:	8/12/2013		SeqNo:	358068		Units: %REC	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	940		1000		93.7	80	120			

Sample ID	MB-8800		SampType:	MBLK		TestCode:	EPA Method 8015D: Gasoline Range			
Client ID:	PBS		Batch ID:	8800		RunNo:	12570			
Prep Date:	8/9/2013		Analysis Date:	8/12/2013		SeqNo:	358118		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	870		1000		86.9	80	120			

Sample ID	LCS-8800		SampType:	LCS		TestCode:	EPA Method 8015D: Gasoline Range			
Client ID:	LCSS		Batch ID:	8800		RunNo:	12570			
Prep Date:	8/9/2013		Analysis Date:	8/12/2013		SeqNo:	358119		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	100	62.6	136			
Surr: BFB	940		1000		93.7	80	120			

Sample ID	1308352-002AMS		SampType:	MS		TestCode:	EPA Method 8015D: Gasoline Range			
Client ID:	SC-2		Batch ID:	8800		RunNo:	12570			
Prep Date:	8/9/2013		Analysis Date:	8/12/2013		SeqNo:	358122		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	4.8	24.18	0	92.0	76	156			
Surr: BFB	930		967.1		96.2	80	120			

Sample ID	1308352-002AMSD		SampType:	MSD		TestCode:	EPA Method 8015D: Gasoline Range			
Client ID:	SC-2		Batch ID:	8800		RunNo:	12570			
Prep Date:	8/9/2013		Analysis Date:	8/12/2013		SeqNo:	358123		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	4.8	24.20	0	95.4	76	156	3.73	17.7	
Surr: BFB	930		968.1		96.2	80	120	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 for VOA and TOC only. |
| 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#: 1308352

15-Aug-13

Client: Souder, Miller and Associates

Project: Lateral 2A-3

Sample ID	MB-8800		SampType:	MBLK		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	PBS		Batch ID:	R12570		RunNo:	12570			
Prep Date:	8/9/2013		Analysis Date:	8/12/2013		SeqNo:	358141		Units: %REC	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		103	80	120			

Sample ID	LCS-8800		SampType:	LCS		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	LCSS		Batch ID:	R12570		RunNo:	12570			
Prep Date:	8/9/2013		Analysis Date:	8/12/2013		SeqNo:	358142		Units: %REC	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		105	80	120			

Sample ID	MB-8800		SampType:	MBLK		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	PBS		Batch ID:	8800		RunNo:	12570			
Prep Date:	8/9/2013		Analysis Date:	8/12/2013		SeqNo:	358149		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-8800		SampType:	LCS		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	LCSS		Batch ID:	8800		RunNo:	12570			
Prep Date:	8/9/2013		Analysis Date:	8/12/2013		SeqNo:	358150		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.050	1.000	0	102	80	120			
Toluene	1.0	0.050	1.000	0	101	80	120			
Ethylbenzene	1.0	0.050	1.000	0	103	80	120			
Xylenes, Total	3.1	0.10	3.000	0	104	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		105	80	120			

Sample ID	1308352-001AMS		SampType:	MS		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	SC-1		Batch ID:	8800		RunNo:	12570			
Prep Date:	8/9/2013		Analysis Date:	8/12/2013		SeqNo:	358152		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.047	0.9443	0	98.6	67.3	145			
Toluene	0.91	0.047	0.9443	0	96.1	66.8	144			
Ethylbenzene	0.94	0.047	0.9443	0	99.1	61.9	153			
Xylenes, Total	2.8	0.094	2.833	0	100	65.8	149			

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 for VOA and TOC only. |
| 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#: 1308352

15-Aug-13

Client: Souder, Miller and Associates

Project: Lateral 2A-3

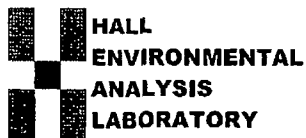
Sample ID	1308352-001AMS	SampType:	MS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	SC-1	Batch ID:	8800	RunNo:	12570					
Prep Date:	8/9/2013	Analysis Date:	8/12/2013	SeqNo:	358152	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		0.9443		107	80	120			

Sample ID	1308352-001AMSD	SampType:	MSD	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	SC-1	Batch ID:	8800	RunNo:	12570					
Prep Date:	8/9/2013	Analysis Date:	8/12/2013	SeqNo:	358154	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.047	0.9443	0	93.8	67.3	145	4.98	20	
Toluene	0.86	0.047	0.9443	0	91.5	66.8	144	4.93	20	
Ethylbenzene	0.88	0.047	0.9443	0	93.5	61.9	153	5.83	20	
Xylenes, Total	2.7	0.094	2.833	0	94.5	65.8	149	6.13	20	
Surr: 4-Bromofluorobenzene	1.0		0.9443		106	80	120	0	0	

Qualifiers:

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

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



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

Sample Log-In Check List

Client Name: SMA-FARM

Work Order Number: 1308352

RcptNo: 1

Received by/date:

LM

08/08/13

Logged By: Ashley Gallegos

8/8/2013 9:55:00 AM

Completed By: Ashley Gallegos

8/8/2013 12:42:55 PM

Reviewed By:

TO

08/08/13

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 ☒ 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 ☐ # of preserved bottles checked for pH:
(<2 or >12 unless noted)
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐ Adjusted?
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐ Checked by:

Special Handling (if applicable)

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

Person Notified:

Date:

By Whom:

Via:

eMail

Phone

Fax

In Person

Regarding:

Client Instructions:

17. Additional remarks:

18. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.4	Good	Yes			

Client: SMA

Client: SMA

Mailing Address: 2101 San Juan Blvd.

Farmington NM 87401

Phone #: 608.325.7535

email or Fax#: long.long@soudermiller.com

QA/QC Package:

☒ Standard ☐ Level 4 (Full Validation)

Accreditation

☐ NELAP ☐ Other☐ EDD (Type)

Turn-Around Time:

☒ Standard ☐ Rush

Project Name: Lateral 2A-3

Project #: S122104

Project Manager:
Thomas Long

Sampler: Thomas Long

On Ice: ☒ Yes ☐ No

Sample Temperature: 2

[illegible]

Date:	Time:	Relinquished by:
-------	-------	------------------

#-13	1705	<i>James Long</i>
Date:	Time:	Relinquished by:

Date:	Time:	Relinquished by:
-------	-------	------------------

7/7/10	1737	Christine Waele
--------	------	-----------------

Received by:

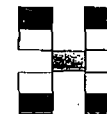
Received by: Christie Walker Date 8/7/13 Time 1705

Received by: _____ Date _____ Time _____

08/08/13 09:55

Remarks:

Bill 70 Enterprise



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

[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.

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 Enterprise Field Services	Contact: Runell Seale / Jim Lieb
Address 614 Reilly Ave., Farmington, NM 87401	Telephone No. 505-599-2124 / 505-599-2159
Facility Name Lateral 10D-2 Gathering Line	Facility Type: Natural gas gathering line

Surface Owner: <i>Nawaajo</i> <i>JK 10/23/2013</i>	Mineral Owner	API No.
---	---------------	---------

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	17	26N	11W					San Juan

Latitude_N 36.48801 _ Longitude_W 108.02705 (Decimal Degrees) _

NATURE OF RELEASE

Type of Release: Natural Gas Pipeline Release (Gas, liquid)	Volume of Release Unknown	Volume Recovered: 280 cubic yards of contaminated soil was removed from the location.
Source of Release: Corrosion hole	Date and Hour of Occurrence: Unknown	Date and Hour of Discovery 7/24/2013 @ 07:00 hours
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	RCUD SEP 27 '13
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 possible line leak was identified during a routine line patrol. Leak was verified upon excavation. Pipeline was isolated, LOTO applied, and repairs were made. An additional leak was discovered in the excavation by a third party environmental contractor providing environmental assessment support to Enterprise Field Services. Additional successful repairs were made on July 28, 2013.

Describe Area Affected and Cleanup Action Taken.* Third party environmental contractor was dispatched to the location to perform cleanup. Approximately 280 cubic yards of contaminated soil were excavated and hauled to an OCD permitted landfarm facility to achieve closure standards. Associated third party corrective action report is attached to this "final" c-141 report.

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.

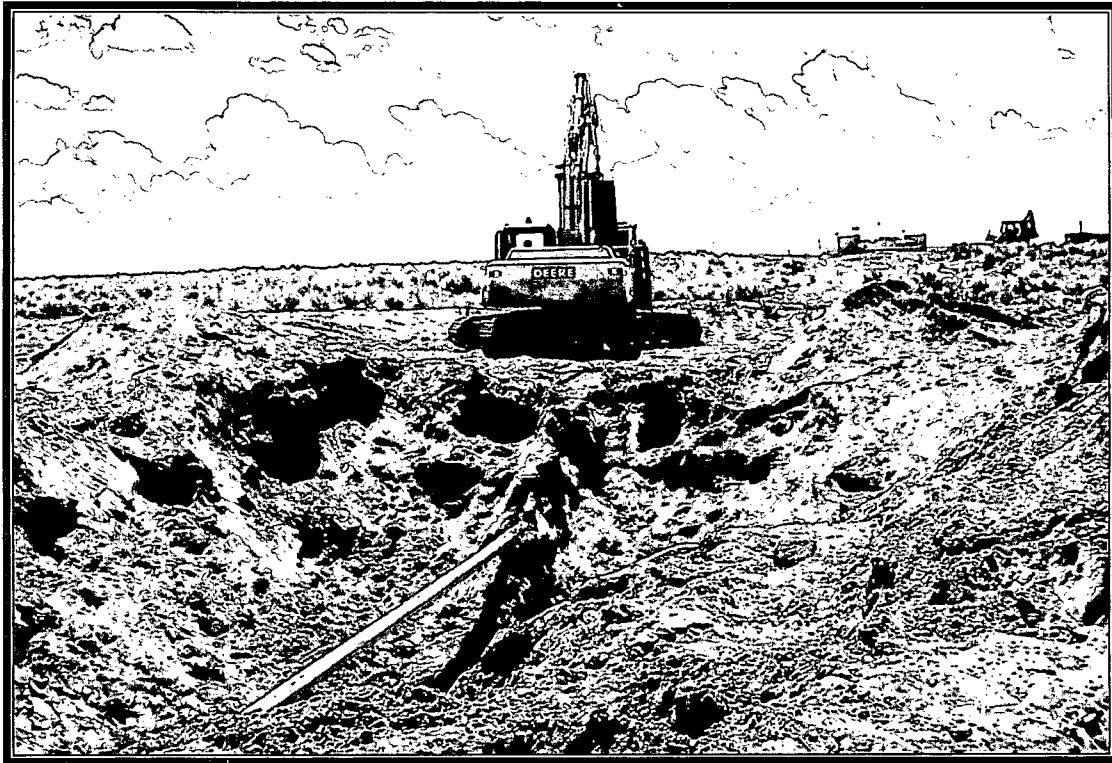
Signature: <i>Jon Fields</i>		OIL CONSERVATION DIVISION	
Printed Name: Jon Fields		Approved by Environmental Specialist: <i>Jonathan D. Kelly</i>	
Title: Director, Field Environmental		Approval Date: <i>10/23/2013</i>	Expiration Date:
E-mail Address: jefields@eprod.com		Conditions of Approval:	Attached <input type="checkbox"/>
Date: <i>9-18-2013</i> Phone: 832-501-4078			

* Attach Additional Sheets If Necessary

NSK1329653408

Enterprise Products
Lateral 10D-2 (Federal 26-11 17 #2) Pipeline Release
Latitude North 36.48800, Longitude West -108.02704
NW1/4, SE 1/4 Section 17 T26N R11W
San Juan County, New Mexico

RCVD SEP 27 '13
OIL CONS. DIV.
DIST. 3



Submitted To:

Enterprise Products
Field Environmental-San Juan Basin
614 Reilly Avenue
Farmington, NM 87401

Submitted By:

Souder, Miller & Associates
2101 San Juan Boulevard
Farmington, NM 87401
(505)325-7535



Table of Contents

1.0	Executive Summary	3
2.0	Introduction.....	3
3.0	Site Ranking and Land Jurisdiction	4
4.0	Summary of Field Activities	4
5.0	Conclusions and Recommendations.....	5
6.0	Closure and Limitations.....	5

Figures:

Figure 1: Vicinity Map

Figure 2: Site and Soil Contaminant Concentration Map

Tables:

Table 1: Release Information

Table 2: Site Ranking

Table 3: Summary of Field Screening Results

Table 4: Summary of Laboratory Analysis

Appendices:

Appendix A: Field Notes

Appendix B: Site Photography

Appendix C: Soil Disposal Documentation

Appendix D: Laboratory Analytical Reports

1.0 Executive Summary

On July 26, 2013, July 30, 2013 and August 14, 2013, Souder, Miller & Associates (SMA) responded to a hydrocarbon release associated with the Lateral 10D-2 (Federal 26-11 17 #2) pipeline. The table below summarizes information about the release and remediation activities.

TABLE 1: RELEASE INFORMATION				
Name	Lateral 10D-2 (Federal 26-11 17 #2) Pipeline Release			
Location	Latitude/Longitude		Section, Township, Range	
	36.48800	-108.020704	Unit J NW ¼ SE ¼ Section 17	T 26N, R 11W
Date Reported	July 25, 2013			
	Aaron Dailey			
Land Owner	Navajo Nation, Navajo Agricultural Products Industry (NAPI)			
Reported To	New Mexico Oil Conservation Division (NMOCD), Navajo Nation Environmental Protection (NNEPA) Agency, NAPI and BLM			
Diameter of Pipeline	8 inches			
Source of Release	Internal Corrosion			
Release Contents	Natural Gas Liquids/Condensate			
Release Volume	Unknown			
Nearest Waterway	Tributary to Gallegos Wash			
Depth to Groundwater	Assumed to be less than 50 feet			
Nearest Domestic Water Source	Greater than 200 feet			
NMOCD Ranking	40			
SMA Response Dates	July 26, 2013, July 30, 2013 and August 14, 2013			
Subcontractors	West States Energy Contractors (WSEC)			
Disposal Facility	Envirotech Landfarm			
Yd ³ Contaminated Soil Excavated and Disposed	280			

2.0 Introduction

On behalf of Enterprise Products Operating, LLC. (Enterprise), SMA has prepared this report that describes remediation of a hydrocarbon release associated with the Lateral 10D-2 (Federal 26-11 17 #2) pipeline. The Lateral 10D-2 (Federal 26-11 17 #2) pipeline release was a result of internal corrosion of the steel pipeline. The release was reported on July 25, 2013. The pipeline is located in Unit J (NW ¼, SE ¼) Section 17, Township 26 North, Range 11 West, 36.48800, -108.02704, San Juan County, New Mexico. Figure 1, Vicinity Map, illustrates the location of the release.

3.0 Site Ranking and Land Jurisdiction

The release site is located in a tributary of Gallegos Wash on land owned by the Navajo Agricultural Products Industry (NAPI) with an elevation of approximately 6,167 feet above sea level. After evaluation of the site using aerial photography and topographic maps, depth to groundwater is estimated to be less than 50 feet below ground surface (bgs).

SMA searched the New Mexico State Engineer's Office online water well data base for water wells in the vicinity of the release. No wells were located in Section 17 and the release is located in the approximate center of the section. The physical location of this release is within the jurisdiction of NAPI and NNEPA. In the absence of NNEPA regulations related to oil and gas releases, this release defaults to the most stringent NMOCD soil remediation standard. This release location has been assigned a NMOCD ranking of 40 which requires a soil remediation standard of 10 parts per million (ppm) benzene, 50 ppm total benzene, toluene, ethyl-benzene, and total xylenes (BTEX), and 100 ppm total petroleum hydrocarbons (TPH). Table 2 illustrates site ranking rationale.

4.0 Summary of Field Activities

On July 26, 2013 and July 30, 2013, SMA mobilized to the release site to delineate the release area and conduct field screening on the excavation side walls, base and stock piled soil. During the first event, the pipeline was still leaking and the side walls and base exceeded regulatory soil remediation standards. During the second event, the side walls and base of the excavation continued to exceed regulatory soil remediation standards. Field screening results indicated that the northern stockpiles of soil were below regulatory standards and would be used as backfill. Field notes for both events are included in Appendix A.

On August 14, 2013, under the supervision of SMA, WSEC excavated the hydrocarbon impacted soil for the Lateral 10D-2 (Federal 26-11 17 #2) pipeline release. SMA personnel guided the excavation activities by collecting soil samples for field screening with a calibrated photo-ionization detector (PID). Table 3 summarizes the field screening results. After field screening results indicated that the hydrocarbon impacted soil had been removed, SMA collected nine composite soil samples for laboratory analysis. All laboratory soil samples were field screened with a calibrated PID and submitted for laboratory analysis per United States Environmental Protection Agency Method 8021 BTEX, and 8015 Diesel Range Organics (DRO) and Gasoline Range Organics (GRO) to Hall Environmental Analysis Laboratory of Albuquerque, New Mexico. Figure 2 illustrates the extent of the excavation and composite soil sample locations and laboratory results.

The final excavation dimensions were approximately 57 feet long by 27 feet wide by 12 feet deep, covering an area of approximately 2,029 square feet. Site photography is included in Appendix B. Approximately 280 cubic yards of hydrocarbon contaminated soil were excavated and transported by WSEC to Envirotech Land Farm near Bloomfield, New Mexico for proper disposal. Soil disposal documentation is included in Appendix C. As per the request of NAPI, clean soil from the site was used as backfill for the excavation.

5.0 Conclusions and Recommendations

As noted in Section 3.0 of this report, in the absence of NNEPA regulations related to oil and gas releases, this release defaults to the most stringent NMOCD soil remediation standards. NMOCD Guidelines for Remediation of Leaks, Spills, and Releases have established the following action levels for contaminants of concern with a site ranking of 40: 10 ppm benzene, 50 ppm total BTEX, and 100 ppm TPH. Based on laboratory analysis, all of the soil samples collected were below laboratory detection limits. Soil contaminant concentrations are illustrated in Figure 2. A summary of laboratory analysis is included in Table 4. Laboratory reports are included in Appendix D.

SMA recommends no further action at this site.

6.0 Closure and Limitations

The scope of our services consisted of the performance of a preliminary spill assessment and stabilization, regulatory liaison, oversight and control of remediation operations, disposal arrangements and documentation, project management, and preparation of this summary report. All work has been performed in accordance with generally accepted professional environmental consulting practices.

If there are any questions regarding this report, please contact either Thomas Long or Reid Allan at 505-325-7535.

Submitted by:

Reviewed by:

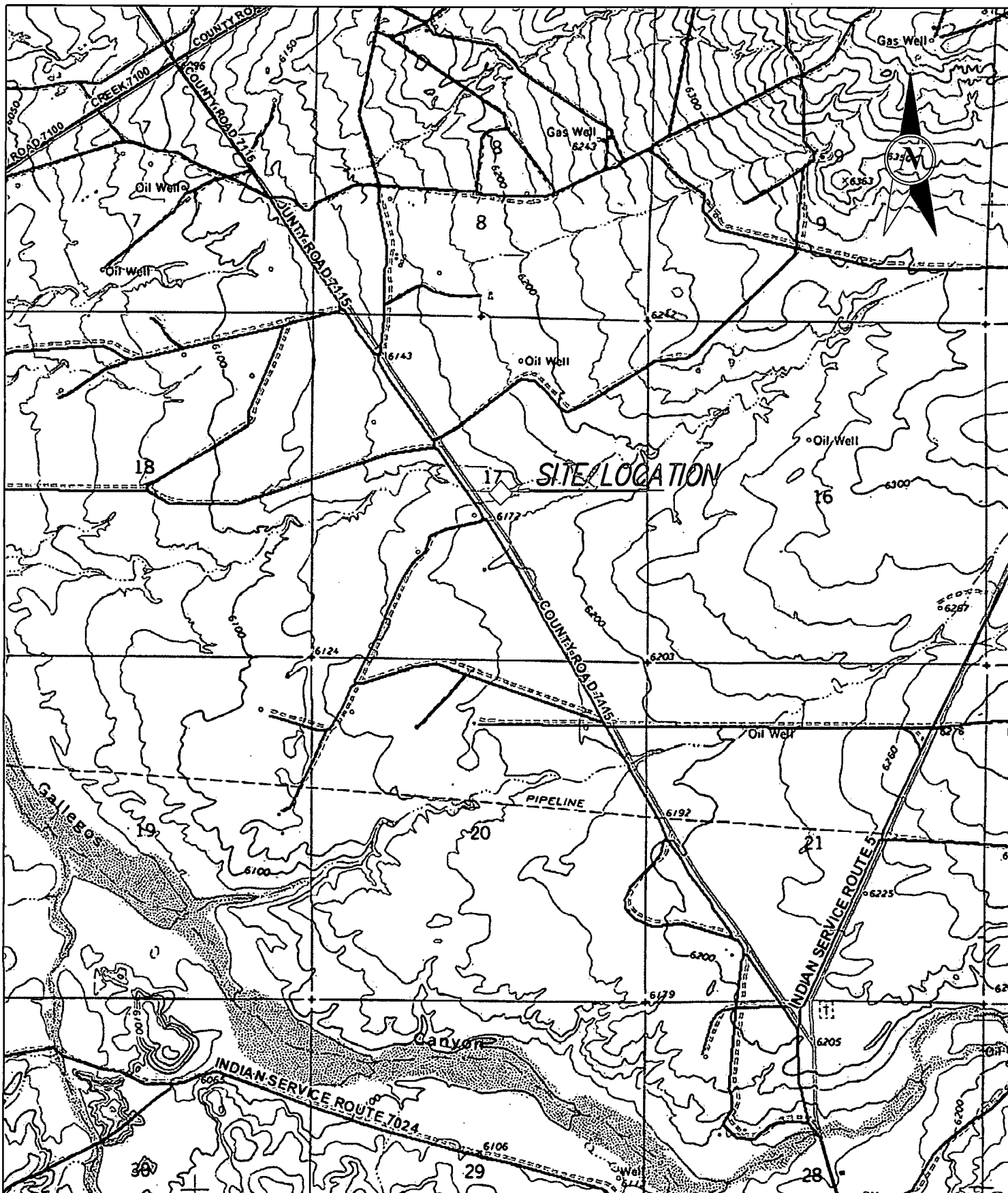
SOUDER, MILLER & ASSOCIATES



Thomas J. Long
Project Scientist



Reid S. Allan, PG
Principal Scientist



SCALE

0' 1000' 2000' 4000'



2101 SAN JUAN BLVD
FARMINGTON, NM 87401

FAX (505) 327-1498
PH. (505) 325-5667

APPROVED: RSA

DRAWN BY: TLONG

REVISIONS BY:

PROJECT # 5122104

DATE: 8/8/2013

DATE: 8/8/2013

DATE:

FIGURE: 1

VICINITY MAP

LATERAL 10D-2 (FEDERAL 26-11 17 #2)

PIPELINE RELEASE

SW 1/4 NE 1/4 SECTION 17, T26N R11W
SAN JUAN COUNTY, NEW MEXICO

LABORATORY ANALYTICAL SUMMARY

Date	Time	Sample ID	Sample Depth (Feet BGS)	Method 8015 GRO	Method 8015 DRO	Method 8021 Benzene	Method 8021 BTEX
8/14/2013	12:03	SC-1 N. Wall	2 thru 9	<4.8	<10	<0.048	<0.096
8/14/2013	12:05	SC-2 E. Wall - North Side	2 thru 9	<4.6	<9.9	<0.046	<0.092
8/14/2013	12:07	SC-3 E. Wall - South Site	2 thru 9	<4.7	<10	<0.047	<0.095
8/14/2013	13:24	SC-4 N. Base	11.0	<4.9	<10	<0.049	<0.097
8/14/2013	13:26	SC-5 W. Wall - North Side	2 thru 9	<4.8	<10	<0.048	<0.096
8/14/2013	13:50	SC-6 S. Base	12.0	<4.7	<10	<0.047	<0.094
8/14/2013	13:52	SC-7 S. Wall - East Side	2 thru 9	<4.8	<10	<0.048	<0.096
8/14/2013	13:54	SC-8 S.W. Wall	2 thru 9	<4.9	<10	<0.049	<0.097
8/14/2013	13:56	SC-9 S.W. Wall (Leg)	2 thru 9	<4.9	<9.9	<0.047	<0.094



FINAL EXCAVATION DIMENSIONS =
57 FEET LONG BY 27 FEET
FEET WIDE BY 12 FEET
APPROXIMATELY 2,029
SQUARE FEET



LEGEND:

- SC-3
○ - COMPOSITE SOIL SAMPLE LOCATION (RESULTS IN mg/Kg)
┌ ┐ - EXTENT OF EXCAVATION



2101 SAN JUAN BLVD
FARMINGTON, NM 87401

FAX (505) 327-1496
PH. (505) 325-5667

APPROVED: RSA

DRAWN BY: TLONG

REVISIONS BY:

PROJECT # 5122104

DATE: 8/23/2013

DATE: 8/23/2013

DATE:

FIGURE: 2

SITE MAP SOIL CONCENTRATION MAP

LATERAL 10D-2 (FEDERAL 26-11 17 #2)
PIPELINE RELEASE
SW 1/4 NE 1/4 SECTION 17 T26N R11W
SAN JUAN COUNTY, NEW MEXICO

Depth to Groundwater	NMOCD Numeric Rank for this Site	Source for Ranking	Notes
< 50 BGS = 20	20	USGS Topo Maps; Google Earth Elevation Difference from the site and the unnamed wash to the north	Release is located within a tributary of Gallegos Wash
50' to 99' = 10			
>100' = 0			
Ranking Criteria for Horizontal Distance to Nearest Surface Water	NMOCD Numeric Rank for this Site	Source for Ranking	Notes
< 200' = 20	20	USGS Topo Maps; Google Earth ; PRCC Mapping Tool	Release is located within a tributary of Gallegos Wash
200'-1000' = 10			
>1000'			
Ranking Criteria for Horizontal Distance to a Water Well or Water Source	NMOCD Numeric Rank for this Site	Source for Ranking	Notes
<1000' from a water source? <200' for a private domestic water source? YES OR NO to BOTH. YES = 20, NO = 0	0	NM State Engineer Water Well Database	Release is located in the center of section 17 and no wells are in section 17
Total Site Ranking	40		
Soil Remediation Standards	0 to 9	10 to 19	>19
Benzene	10 PPM	10 PPM	10 PPM
BTEX	50 PPM	50 PPM	50 PPM
TPH	5000 PPM	1000 PPM	100 PPM



Enterprise Products
Table 3: Summary of Field Screening Results
(PPM)

Lateral 10D-2 (Federal 26-11 17 #2)
Pipeline Release
8/29/2013

FIELD SCREENING RESULTS SUMMARY					
Date	Time	Field Screening Reference	Sample Depth (Feet BGS)	PID Results	Lab Sample Collected Y/N
8/14/2013	10:11	S-1 Base	11	475.0	N
8/14/2013	10:12	S-2 W. Wall - Center	2 thru 9	28.0	N
8/14/2013	10:13	S-3 SE Corner Wall	2 thru 9	403.0	N
8/14/2013	10:50	S-4 SW Corner Wall	2 thru 9	445.0	N
8/14/2013	10:51	S-5 S. Wall - West Side	2 thru 9	114.0	N
8/14/2013	10:52	S-6 S.W. Base	9	316.0	N
8/14/2013	15:08	S-7 Base	11	21.0	N
8/14/2013	11:09	S-8 E. Wall - Center	2 thru 9	298.0	N
8/14/2013	11:35	S-9 S. Base - East Side	12	16.7	N
8/14/2013	11:36	S-10 S.E. Corner Wall	3 thru 9	49.0	N
8/14/2013	11:37	S-11 S. Wall - East Side	2 thru 9	36.0	N
8/14/2013	11:48	S-12 S.W. Base	12.0	12.3	N
8/14/2013	11:49	S-13 S. Wall - West Side	2 thru 9	3.7	N
8/14/2013	12:02	S-14 West Base	12.0	198.0	N
8/14/2013	12:03	SC-1 N. Wall	2 thru 9	0.4	Y
8/14/2013	12:05	SC-2 E. Wall - North Side	2 thru 9	9.6	Y
8/14/2013	12:07	SC-3 E. Wall - South Site	2 thru 9	58.0	Y
8/14/2013	13:24	SC-4 N. Base	11.0	97.0	Y
8/14/2013	13:26	SC-5 W. Wall - North Side	2 thru 9	16.0	Y
8/14/2013	13:28	S-15 S.W. Corner Wall	2 thru 9	49.0	N
8/14/2013	13:29	S-16 S.W. Wall	2 thru 9	26.0	N
8/14/2013	13:50	SC-6 S. Base	12.0	102.0	Y
8/14/2013	13:52	SC-7 S. Wall	2 thru 9	45.0	Y
8/14/2013	13:54	SC-8 S.W. Wall	2 thru 9	16.0	Y
8/14/2013	13:56	SC-9 S.W. Wall (Leg)	2 thru 9	36.0	Y



Enterprise Products
Table 4: Summary of Laboratory Analysis
Results in Kg/mg

Lateral 10D-2 (Federal 26-11 17 #2)
Pipeline Release
8/29/2013

LABORATORY ANALYTICAL SUMMARY							
Date	Time	Sample ID	Sample Depth (Feet BGS)	Method 8015 GRO	Method 8015 DRO	Method 8021 Benzene	Method 8021 BTEX
8/14/2013	12:03	SC-1 N. Wall	2 thru 9	<4.8	<10	<0.048	<0.096
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8/14/2013	13:54	SC-8 S.W. Wall	2 thru 9	<4.9	<10	<0.049	<0.097
8/14/2013	13:56	SC-9 S.W. Wall (Leg)	2 thru 9	<4.9	<9.9	<0.047	<0.094



5122104 BG14 Lateral 10D-2 EPCO 7/26/13 S. Maskel

- on site @ 0940

- conduct site assessment, perform HASP.

- monitor excavation w/ vents m x 4 for Atmospheric conditions.

~~20.8~~ 20.8 % O₂

0 ppm CO

0 ppm H₂S

0% LEL

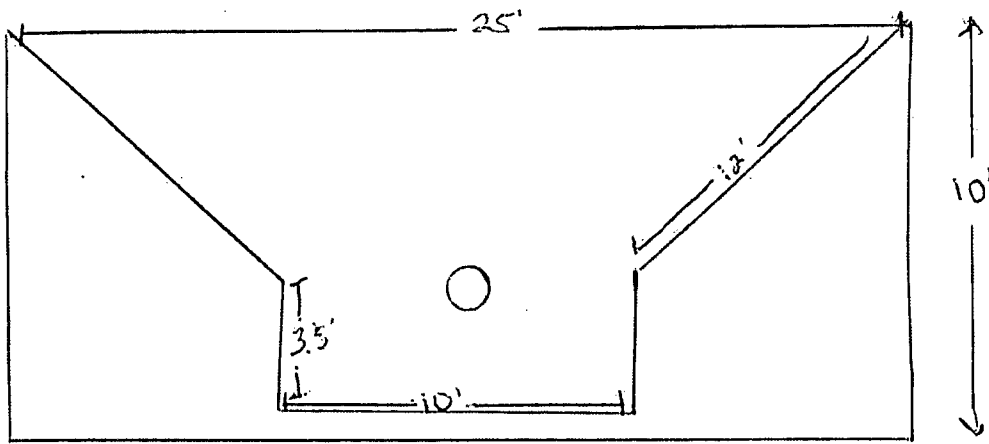
- calibrate PID

Sample	PID (ppm)	Time
TS-1 @ 7'	167.6	1045
TS-2 @ 7'	649.9	1046
TS-3 @ 5'	1.6	1047
TS-4 @ 5'	1.2	1047
TS-5 @ 10'	223.7	1048
TS-6 @ 10'	330.1	1049 540.2
TS-7 @ 10'	147.8	1105
TS-8 @ 10'	194.7	1106
TS-9 @ 10'	157.4	1107
TS-10 @ 2' BOT	96.4	1139
TS-11 @ 3' BOT	72.6	1140
TS-12 @ 4' BOT	53.4	1141
TS-13 @ 5' BOT	73.5	1141

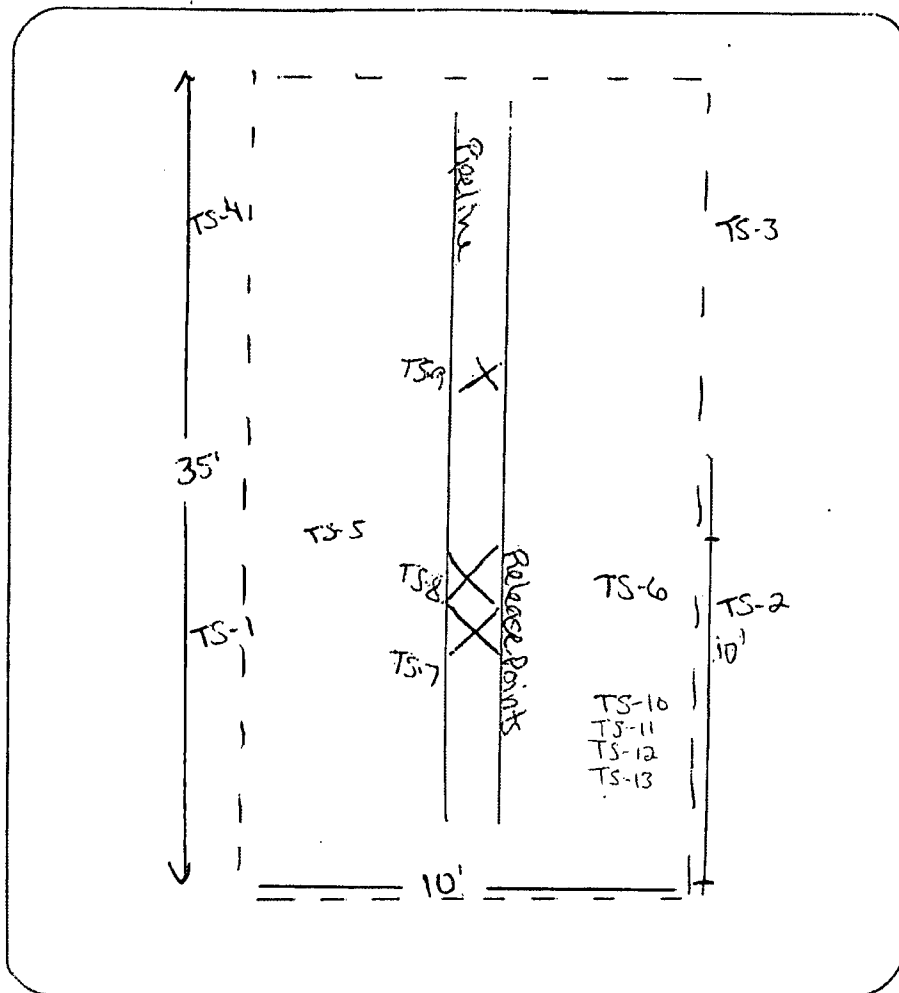
- off site @ 11:55

BOT = from bottom of trench

5122104 BG14 lateral 10D-2 EPCO 7/26/13 S. Meskup



N ↑



SUBJECT Lateral 100-2

PROJECT 5122104

PAGE 1 of 2

CLIENT Enterprise

DATE 7-30-13

BY JLC

CHECKED

BY

0945 onsite, fill out JSA; Photograph Excavation, Check
 Atmosphere: 0 LEL, 0 H₂S, 20.7 O₂, 0 CO

0955 Map site - 8" dia PL

1000 Collect Composite Soil Samples for Field Screening

	Time	PPM		Time	PPM
S-1 0-11"	1026	848	NE SP	1107	4ppm
S-2 0-11"	1027	4.9	SE SP	1108	679ppm
S-3 0-11"	1028	628			
S-4 0-11"	1029 3:0	3.0			
S-5 11"	1030 495	495			
S-6 11"	1031	105			
S-7 11"	1032	414			
S-8 11"	1033	236			
S-9 0-11"	1100	7.1			
S-10 0-11"	1101	2.9			
NW SP	1104	4.3			
SW SP	1105	629			

1110 Phone call with C.T.

I Let him know that we have
 to dig the side walls & Base
 more. Haul off Southern SP

11:15 Phone call with D.B.

Told him to dig more on the side
 walls & Base and haul off
 Southern Stock piles.

D.B. said He would call SMA when they
 have it scheduled

All field Samples were 5-pt.
 Composite Head Space

1135 Load Equipment

1145 off site

SUBJECT Lateral 100-2

PROJECT S102104

PAGE 2 of 2

CLIENT Enterprise

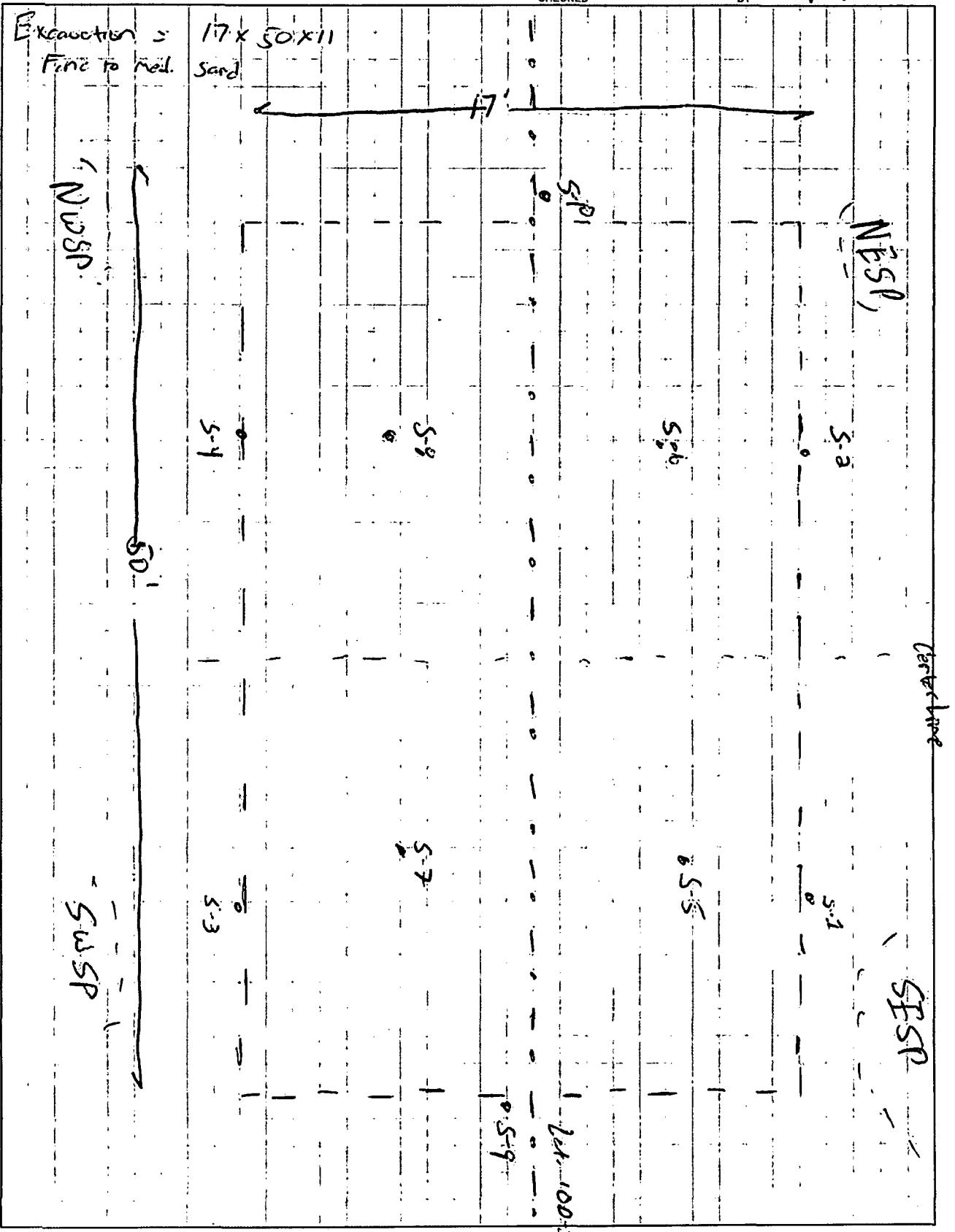
DATE 7-30-13

BY TJC

CHECKED

BY

↑ N



SUBJECT Lateral 10D-2

PROJECT Slabby PAGE 1 of 3

CLIENT Enterprise

DATE 8-14-13 BY TJC

CHECKED

BY

0900 - onsite; WSEC digging out contaminated soil and transporting to E7 LF; Excavation has water at the bottom. The two Southern Stock p.b.s have been transported to E7 LF.
Calibrate P10 = 103 ppm

1000 collect soil samples from Excavation:

S-1	Bottom center e-11	475 ppm	1011
S-2	West Wall center	28 ppm	1012
S-3	SE corner wall	403 ppm	1013
S-4	SW corner wall	445 ppm	1050
S-5	S. wall (west)	114 ppm	1051
S-6	S. w. Bottom e-2 q	316 ppm	1052
S-7	Bottom e-11' PL	21 ppm	1108
S-8	E. wall center	298 ppm	1109
S-9	S. Bottom (East e-12')	16.7 ppm	1135
S-10	SE. corner wall (3-9')	49 ppm	1136
S-11	S. wall (E side)	36 ppm	1137
S-12	S. w. Bottom e-12'	12.3 ppm	1148
S-13	S. wall west side	3.7 ppm	1149
S-14	West Bottom Center PL	198 ppm	1202

SUBJECT Latra 100-2PROJECT 0122104 PAGE 2 of 3CLIENT EnterpriseDATE B-14-13 BY TJK

CHECKED

BY

SC-1 N. Wall 2'-9" = 0.4 ppm 1303

SC-2 E. Wall (N) 2'-9" = 9.6 ppm 1305

SC-3 E. Wall (S) 2'-9" = 58 ppm 1307

SC-4 N. Bottom (2'-11") = 9.7 ppm 1324

SC-5 West Wall (2'-9") = 16 ppm 1326
(N)S-15 SW corner wall = 49 ppm 1328
(2'-9")~~SC-15~~ SW wall 2'-9" = 26 ppm 1329
S-16

SC-6 South Bottom c 12' = 102 ppm 1350

SC-7 South wall 2'-9" = 45 ppm 1352

SC-8 SW wall 2'-9" = 16 ppm 1354

SC-9 SW Ben/Lobe 2'-9" = 36 ppm 1356

QDS = 36.48800, 108.02704

1400 WSEC Begin to Backfill excavation
with on-site material as per NARZ

offsite c 1420

SUBJECT

Labral 100-2

PROJECT

5122104

PAGE

3 of 3

CLIENT

Enterprise

DATE

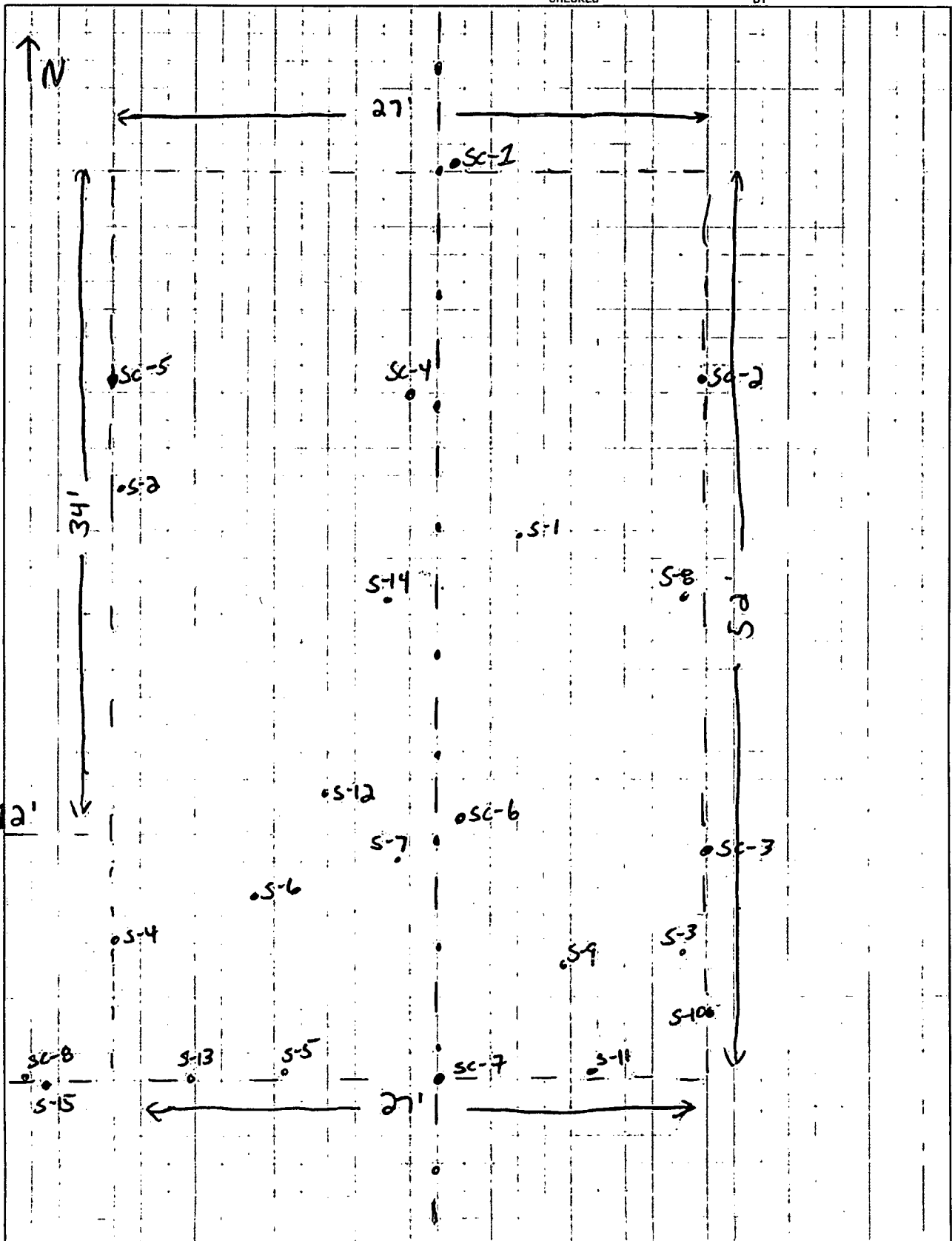
8-14-13

BY

TSC

CHECKED

BY



Site Photography
Enterprise Products
Lateral 10D-2 (Federal 26-11 17 #2) Pipeline Release
NW 1/4, SE1/4 Section 17 T26N R11W
San Juan County, New Mexico

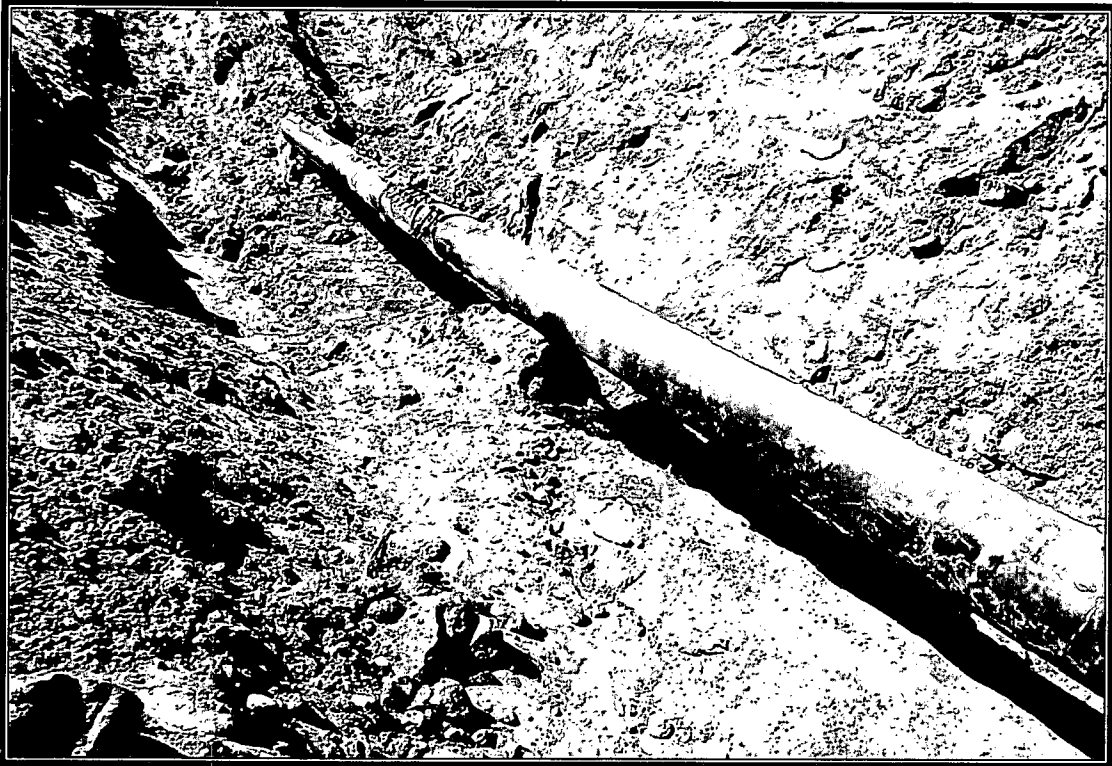


Photo 1: View of the pipeline prior to repairs.

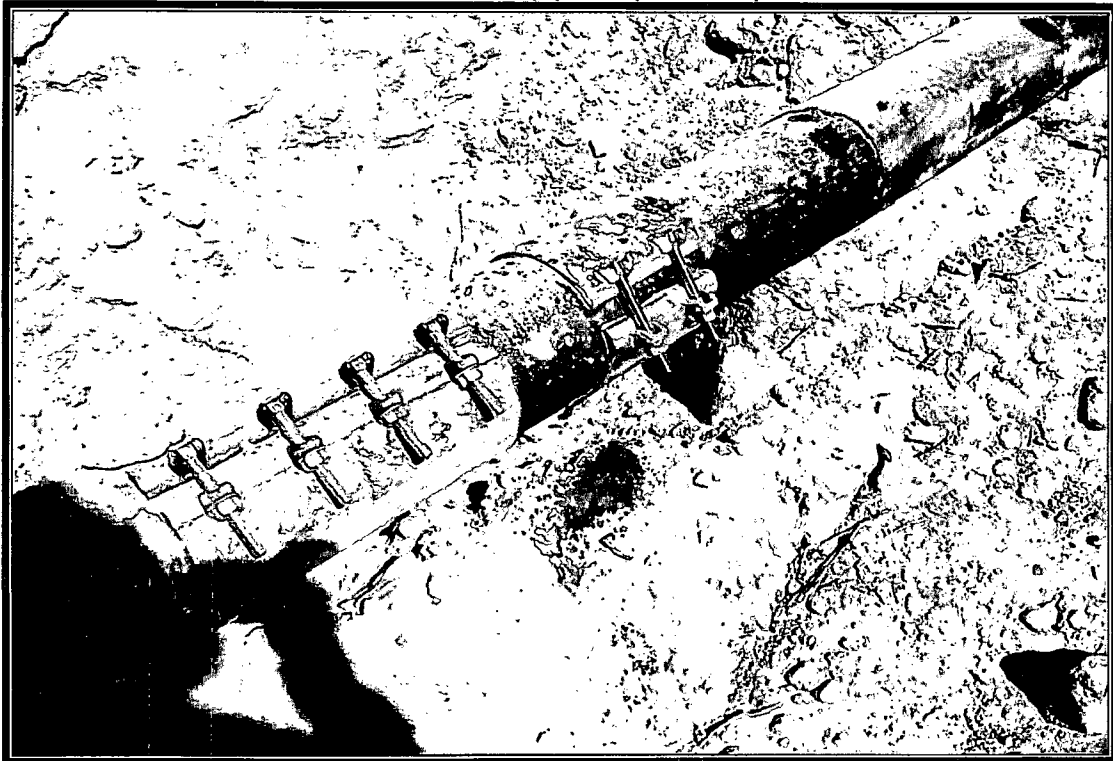


Photo 2: View of the pipeline leaking prior to repairs

Site Photography
Enterprise Products
Lateral 10D-2 (Federal 26-11 17 #2) Pipeline Release
NW 1/4, SE1/4 Section 17 T26N R11W
San Juan County, New Mexico

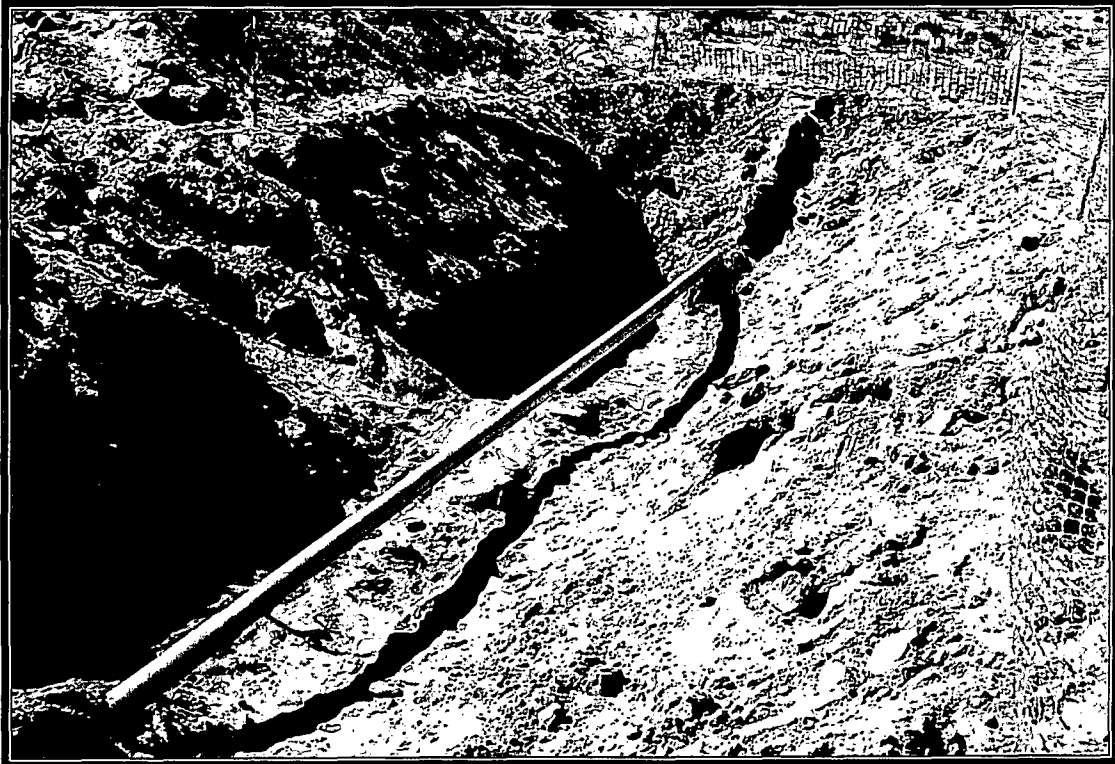


Photo 3: View of the small pipeline and excavation after repairs.



Photo 4: View of the excavation for the Lateral 10D-2 pipeline release.

Site Photography
Enterprise Products
Lateral 10D-2 (Federal 26-11 17.#2) Pipeline Release
NW 1/4, SE1/4 Section 17 T26N R11W
San Juan County, New Mexico

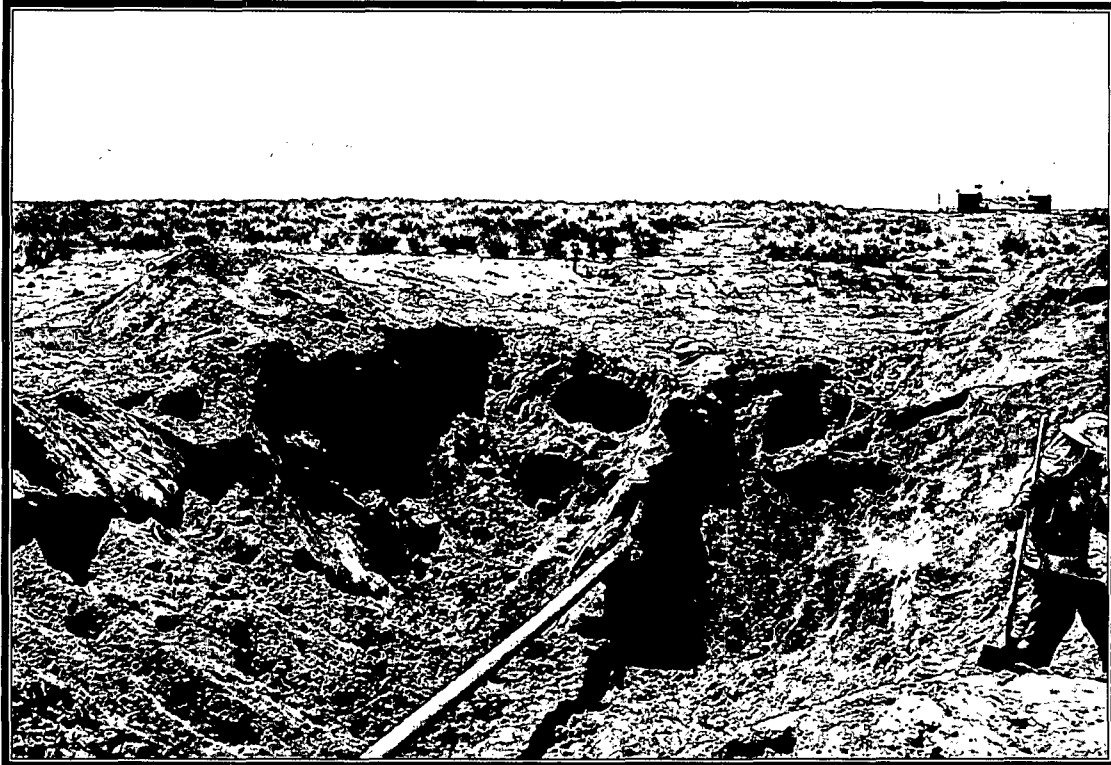


Photo 5: View of the excavation for the Lateral 10D-2 pipeline release.



Photo 6: View of the excavation for the Lateral 10D-2 pipeline release.

Site Photography
Enterprise Products
Lateral 10D-2 (Federal 26-11 17 #2) Pipeline Release
NW 1/4, SE1/4 Section 17 T26N R11W
San Juan County, New Mexico

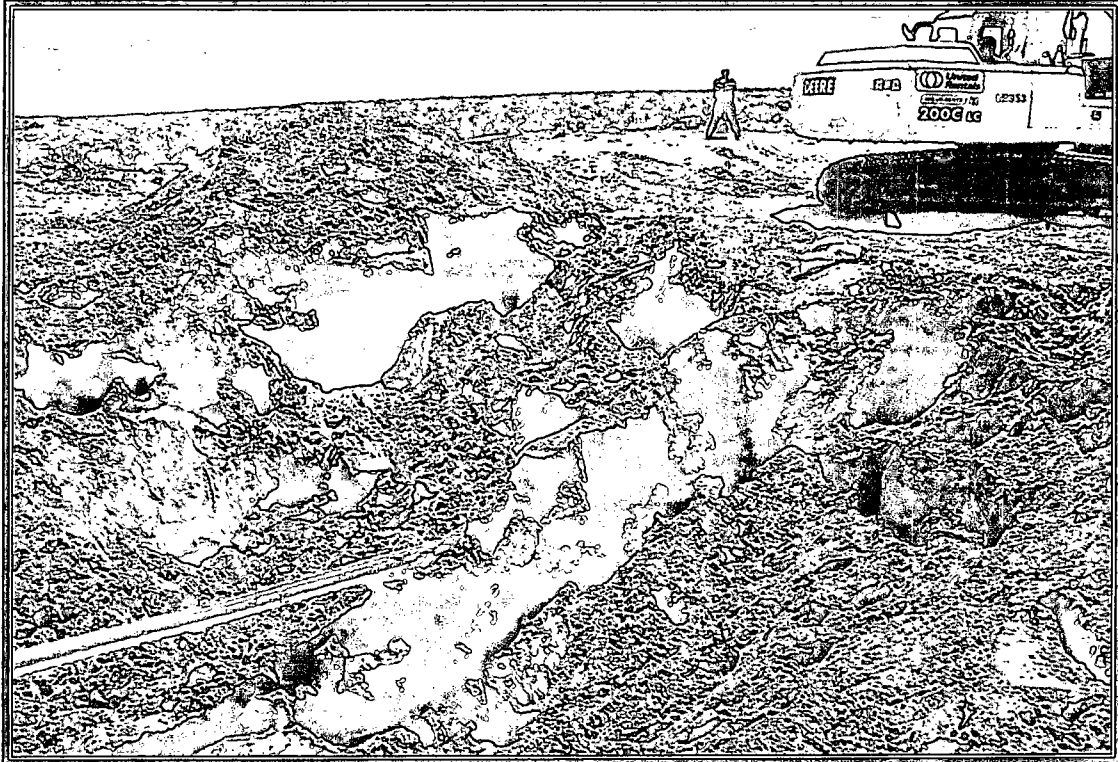


Photo 7: View of the excavation for the Lateral 10D-2 pipeline release.



Photo 8: View of the excavation for the Lateral 10D-2 pipeline release.



Bill of Lading

MANIFEST # 44414DATE 8-13-13JOB # PT057-0582

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY			
	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	BBLs	COMPANY	TRK#	TIME	DRIVER SIGNATURE
2	ENTERPRISE LATERAL 10 D-2 PILE LINE	LF II	cont SOIL	C-22	12	-	MOSS	47	11:20	Lee Moss
2	"	"	"	C-22	10	-	MOSS	15	11:20	Val BME
3	"	"	"	C-22	12	-	MOSS	47	12:20	Lee Moss
4	"	"	"	C-22	10	-	MOSS	15	12:25	Val BME
5	"	"	"	C-22	12	-	MOSS	47	13:35	Lee Moss
6	"	"	"	C-22	10	-	MOSS	15	13:35	Val BME
7	"	"	"	C-22	12	-	MOSS	47	14:19	Lee Moss
8	"	"	"	C-22	10	-	MOSS	15	14:53	Val BME
9	"	"	"	C-22	12	-	MOSS	47	15:51	Lee Moss
10	"	"	"	C-22	10	-	MOSS	15	15:04	Val BME
					110					
RESULTS:			LANDFARM EMPLOYEE: <u>Dave L.</u>		NOTES:					
<u>292</u>	CHLORIDE TEST	<u>3</u>								
	PAINT FILTER TEST	<u>3</u>	Certification of above receipt & placement							

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

TRANSPORTER CO. Moss Excavation NAME Lee Moss SIGNATURE Lee Moss
COMPANY CONTACT Gary Maestas PHONE _____ DATE 8-13-13

Signatures required prior to distribution of the legal document.



Bill of Lading

MANIFEST # 44419

DATE 8-14-13 JOB # 97057-0582

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY			
	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	BBLs	COMPANY	TRK#	TIME	DRIVER SIGNATURE
1	Enterprise CAT	LII	cont	C-22	10	-	MOSS	15	9:35	[Signature]
2	10 D-2	"	Soil	C-22	10	-	MOSS	15	10:30	[Signature]
3	"	"	"	C-22	10	-	MOSS	15	11:28	[Signature]
4	"	"	"	B-22	10	-	MOSS	15	12:15	[Signature]
5	"	"	"	B-22	10	-	MOSS	15	13:05	[Signature]
6	"	"	"	A-24	10	-	MOSS	15	13:55	[Signature]
7	"	"	"	A-24	10	-	MOSS	15	14:40	[Signature]
8	"	"	"	A-24	10	-	MOSS	15	15:30	[Signature]
9	"	"	"	A-24	10	-	MOSS	15	16:30	[Signature]
						90				
RESULTS:						NOTES:				
CHLORIDE TEST		2	LANDFARM EMPLOYEE: [Signature]							
PAINT FILTER TEST		2	Certification of above receipt & placement							

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

TRANSPORTER CO. Moss Excavation NAME NATHAN B MCKENNEY SIGNATURE [Signature]
COMPANY CONTACT _____ PHONE _____ DATE 8-14-13

Signatures required prior to distribution of the legal document.



Bill of Lading

MANIFEST # 44420DATE 8-14-13 JOB # 97057-0582

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY			
	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	BBLS	COMPANY	TRK#	TIME	DRIVER SIGNATURE
1	ENTREPRISE CAT 10D-2	CFII	cont soil	C-22	10	-	FLYING M	15	9:35	Mark Lopez
2	"	"	"	C-22	10	-	"	15	10:40	M Lopez
3	"	"	"	C-22	10	-	"	15	11:35	M Lopez
4	"	"	"	C-22	10	-	"	15	12:25	M Lopez
5	"	"	"	B-22	10	-	"	15	13:15	M Lopez
6	"	"	"	A-24	10	-	"	15	14:10	M Lopez
7	"	"	"	A-24	10	-	"	15	15:00	M Lopez
8	"	"	"	A-24	10	-	"	15	15:52	M Lopez
					80					
RESULTS:		LANDFARM EMPLOYEE:		NOTES:						
-292	CHLORIDE TEST	2								
	PAINT FILTER TEST	2	Certification of above receipt & placement							

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

TRANSPORTER CO. MOSS EXCAVATION NAME MARK LOPEZ SIGNATURE Mark Lopez
COMPANY CONTACT _____ PHONE _____ DATE 8-14-13

Signatures required prior to distribution of the legal document.



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

August 20, 2013

Tom Long
Souder, Miller and Associates
2101 San Juan Boulevard
Farmington, NM 87401
TEL: (505) 330-0868
FAX

RE: Enterprise Lateral 10D-2

OrderNo.: 1308700

Dear Tom Long:

Hall Environmental Analysis Laboratory received 9 sample(s) on 8/15/2013 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. 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,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1308700

Date Reported: 8/20/2013

CLIENT: Souder, Miller and Associates

Client Sample ID: SC-1

Project: Enterprise Lateral 10D-2

Collection Date: 8/14/2013 12:03:00 PM

Lab ID: 1308700-001

Matrix: SOIL

Received Date: 8/15/2013 10:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	8/19/2013 5:10:25 PM	8897
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/19/2013 5:10:25 PM	8897
Surr: DNOP	81.0	63-147		%REC	1	8/19/2013 5:10:25 PM	8897
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/19/2013 2:53:26 PM	8906
Surr: BFB	91.8	80-120		%REC	1	8/19/2013 2:53:26 PM	8906
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.048		mg/Kg	1	8/19/2013 2:53:26 PM	8906
Toluene	ND	0.048		mg/Kg	1	8/19/2013 2:53:26 PM	8906
Ethylbenzene	ND	0.048		mg/Kg	1	8/19/2013 2:53:26 PM	8906
Xylenes, Total	ND	0.096		mg/Kg	1	8/19/2013 2:53:26 PM	8906
Surr: 4-Bromofluorobenzene	105	80-120		%REC	1	8/19/2013 2:53:26 PM	8906

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 for VOA and TOC only.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

Analytical ReportLab Order **1308700**Date Reported: **8/20/2013****Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Souder, Miller and Associates**Client Sample ID:** SC-2**Project:** Enterprise Lateral 10D-2**Collection Date:** 8/14/2013 12:05:00 PM**Lab ID:** 1308700-002**Matrix:** SOIL**Received Date:** 8/15/2013 10:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	8/19/2013 5:32:26 PM	8897
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/19/2013 5:32:26 PM	8897
Surr: DNOP	86.6	63-147		%REC	1	8/19/2013 5:32:26 PM	8897
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	8/19/2013 4:19:24 PM	8906
Surr: BFB	92.6	80-120		%REC	1	8/19/2013 4:19:24 PM	8906
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.046		mg/Kg	1	8/19/2013 4:19:24 PM	8906
Toluene	ND	0.046		mg/Kg	1	8/19/2013 4:19:24 PM	8906
Ethylbenzene	ND	0.046		mg/Kg	1	8/19/2013 4:19:24 PM	8906
Xylenes, Total	ND	0.092		mg/Kg	1	8/19/2013 4:19:24 PM	8906
Surr: 4-Bromofluorobenzene	104	80-120		%REC	1	8/19/2013 4:19:24 PM	8906

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 for VOA and TOC only.
	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 1308700

Date Reported: 8/20/2013

CLIENT: Souder, Miller and Associates

Client Sample ID: SC-3

Project: Enterprise Lateral 10D-2

Collection Date: 8/14/2013 12:07:00 PM

Lab ID: 1308700-003

Matrix: SOIL

Received Date: 8/15/2013 10:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	8/19/2013 5:54:33 PM	8897
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/19/2013 5:54:33 PM	8897
Surr: DNOP	83.0	63-147		%REC	1	8/19/2013 5:54:33 PM	8897
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	8/19/2013 4:47:59 PM	8906
Surr: BFB	92.7	80-120		%REC	1	8/19/2013 4:47:59 PM	8906
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.047		mg/Kg	1	8/19/2013 4:47:59 PM	8906
Toluene	ND	0.047		mg/Kg	1	8/19/2013 4:47:59 PM	8906
Ethylbenzene	ND	0.047		mg/Kg	1	8/19/2013 4:47:59 PM	8906
Xylenes, Total	ND	0.095		mg/Kg	1	8/19/2013 4:47:59 PM	8906
Surr: 4-Bromofluorobenzene	104	80-120		%REC	1	8/19/2013 4:47:59 PM	8906

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 for VOA and TOC only.
	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 1308700

Date Reported: 8/20/2013

CLIENT: Souder, Miller and Associates

Client Sample ID: SC-4

Project: Enterprise Lateral 10D-2

Collection Date: 8/14/2013 1:24:00 PM

Lab ID: 1308700-004

Matrix: SOIL

Received Date: 8/15/2013 10:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	8/19/2013 6:38:30 PM	8897
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/19/2013 6:38:30 PM	8897
Surr: DNOP	76.9	63-147		%REC	1	8/19/2013 6:38:30 PM	8897
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/19/2013 5:16:45 PM	8906
Surr: BFB	92.4	80-120		%REC	1	8/19/2013 5:16:45 PM	8906
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.049		mg/Kg	1	8/19/2013 5:16:45 PM	8906
Toluene	ND	0.049		mg/Kg	1	8/19/2013 5:16:45 PM	8906
Ethylbenzene	ND	0.049		mg/Kg	1	8/19/2013 5:16:45 PM	8906
Xylenes, Total	ND	0.097		mg/Kg	1	8/19/2013 5:16:45 PM	8906
Surr: 4-Bromofluorobenzene	104	80-120		%REC	1	8/19/2013 5:16:45 PM	8906

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 for VOA and TOC only.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

Analytical Report

Lab Order 1308700

Date Reported: 8/20/2013

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Souder, Miller and Associates**Client Sample ID:** SC-5**Project:** Enterprise Lateral 10D-2**Collection Date:** 8/14/2013 1:26:00 PM**Lab ID:** 1308700-005**Matrix:** SOIL**Received Date:** 8/15/2013 10:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	8/19/2013 7:00:27 PM	8897
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/19/2013 7:00:27 PM	8897
Surr: DNOP	80.5	63-147		%REC	1	8/19/2013 7:00:27 PM	8897
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/19/2013 5:45:29 PM	8906
Surr: BFB	91.5	80-120		%REC	1	8/19/2013 5:45:29 PM	8906
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.048		mg/Kg	1	8/19/2013 5:45:29 PM	8906
Toluene	ND	0.048		mg/Kg	1	8/19/2013 5:45:29 PM	8906
Ethylbenzene	ND	0.048		mg/Kg	1	8/19/2013 5:45:29 PM	8906
Xylenes, Total	ND	0.096		mg/Kg	1	8/19/2013 5:45:29 PM	8906
Surr: 4-Bromofluorobenzene	103	80-120		%REC	1	8/19/2013 5:45:29 PM	8906

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 for VOA and TOC only.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Client Sample ID: SC-6

Project: Enterprise Lateral 10D-2

Collection Date: 8/14/2013 1:50:00 PM

Lab ID: 1308700-006

Matrix: SOIL

Received Date: 8/15/2013 10:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	8/19/2013 7:22:23 PM	8897
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/19/2013 7:22:23 PM	8897
Surr: DNOP	88.4	63-147		%REC	1	8/19/2013 7:22:23 PM	8897
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	8/19/2013 6:14:09 PM	8906
Surr: BFB	93.3	80-120		%REC	1	8/19/2013 6:14:09 PM	8906
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.047		mg/Kg	1	8/19/2013 6:14:09 PM	8906
Toluene	ND	0.047		mg/Kg	1	8/19/2013 6:14:09 PM	8906
Ethylbenzene	ND	0.047		mg/Kg	1	8/19/2013 6:14:09 PM	8906
Xylenes, Total	ND	0.094		mg/Kg	1	8/19/2013 6:14:09 PM	8906
Surr: 4-Bromofluorobenzene	102	80-120		%REC	1	8/19/2013 6:14:09 PM	8906

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 for VOA and TOC only.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

Analytical Report

Lab Order 1308700

Date Reported: 8/20/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Client Sample ID: SC-7

Project: Enterprise Lateral 10D-2

Collection Date: 8/14/2013 1:52:00 PM

Lab ID: 1308700-007

Matrix: SOIL

Received Date: 8/15/2013 10:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	8/19/2013 7:44:17 PM	8897
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/19/2013 7:44:17 PM	8897
Surr: DNOP	77.2	63-147		%REC	1	8/19/2013 7:44:17 PM	8897
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/19/2013 6:42:46 PM	8906
Surr: BFB	91.3	80-120		%REC	1	8/19/2013 6:42:46 PM	8906
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.048		mg/Kg	1	8/19/2013 6:42:46 PM	8906
Toluene	ND	0.048		mg/Kg	1	8/19/2013 6:42:46 PM	8906
Ethylbenzene	ND	0.048		mg/Kg	1	8/19/2013 6:42:46 PM	8906
Xylenes, Total	ND	0.096		mg/Kg	1	8/19/2013 6:42:46 PM	8906
Surr: 4-Bromofluorobenzene	102	80-120		%REC	1	8/19/2013 6:42:46 PM	8906

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 for VOA and TOC only.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

Analytical Report

Lab Order 1308700

Date Reported: 8/20/2013

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Souder, Miller and Associates**Client Sample ID:** SC-8**Project:** Enterprise Lateral 10D-2**Collection Date:** 8/14/2013 1:54:00 PM**Lab ID:** 1308700-008**Matrix:** SOIL**Received Date:** 8/15/2013 10:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	8/19/2013 8:06:17 PM	8897
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/19/2013 8:06:17 PM	8897
Surr: DNOP	82.2	63-147		%REC	1	8/19/2013 8:06:17 PM	8897
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/19/2013 7:11:24 PM	8906
Surr: BFB	92.2	80-120		%REC	1	8/19/2013 7:11:24 PM	8906
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.049		mg/Kg	1	8/19/2013 7:11:24 PM	8906
Toluene	ND	0.049		mg/Kg	1	8/19/2013 7:11:24 PM	8906
Ethylbenzene	ND	0.049		mg/Kg	1	8/19/2013 7:11:24 PM	8906
Xylenes, Total	ND	0.097		mg/Kg	1	8/19/2013 7:11:24 PM	8906
Surr: 4-Bromofluorobenzene	103	80-120		%REC	1	8/19/2013 7:11:24 PM	8906

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 for VOA and TOC only.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

Analytical Report

Lab Order 1308700

Date Reported: 8/20/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Client Sample ID: SC-9

Project: Enterprise Lateral 10D-2

Collection Date: 8/14/2013 1:56:00 PM

Lab ID: 1308700-009

Matrix: SOIL

Received Date: 8/15/2013 10:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	8/19/2013 8:28:07 PM	8897
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/19/2013 8:28:07 PM	8897
Surr: DNOP	80.0	63-147		%REC	1	8/19/2013 8:28:07 PM	8897
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	8/19/2013 7:40:03 PM	8906
Surr: BFB	91.3	80-120		%REC	1	8/19/2013 7:40:03 PM	8906
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.047		mg/Kg	1	8/19/2013 7:40:03 PM	8906
Toluene	ND	0.047		mg/Kg	1	8/19/2013 7:40:03 PM	8906
Ethylbenzene	ND	0.047		mg/Kg	1	8/19/2013 7:40:03 PM	8906
Xylenes, Total	ND	0.094		mg/Kg	1	8/19/2013 7:40:03 PM	8906
Surr: 4-Bromofluorobenzene	103	80-120		%REC	1	8/19/2013 7:40:03 PM	8906

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 for VOA and TOC only.
	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#: 1308700

20-Aug-13

Client: Souder, Miller and Associates

Project: Enterprise Lateral 10D-2

Sample ID	MB-8897	SampType:	MBLK	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	8897	RunNo:	12670					
Prep Date:	8/16/2013	Analysis Date:	8/16/2013	SeqNo:	361127	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.0		10.00		90.0	63	147			

Sample ID	LCS-8897	SampType:	LCS	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	8897	RunNo:	12670					
Prep Date:	8/16/2013	Analysis Date:	8/16/2013	SeqNo:	361260	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	92.9	77.1	128			
Surr: DNOP	3.5		5.000		69.8	63	147			

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 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1308700

20-Aug-13

Client: Souder, Miller and Associates

Project: Enterprise Lateral 10D-2

Sample ID	MB-8906	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	8906	RunNo:	12721					
Prep Date:	8/16/2013	Analysis Date:	8/19/2013	SeqNo:	362533	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		90.0	80	120			

Sample ID	LCS-8906	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	8906	RunNo:	12721					
Prep Date:	8/16/2013	Analysis Date:	8/19/2013	SeqNo:	362534	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	105	74.5	126			
Surr: BFB	980		1000		98.3	80	120			

Sample ID	1308700-001AMS	SampType:	MS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	SC-1	Batch ID:	8906	RunNo:	12721					
Prep Date:	8/16/2013	Analysis Date:	8/19/2013	SeqNo:	362537	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	4.8	23.90	0	102	76	156			
Surr: BFB	950		956.0		99.4	80	120			

Sample ID	1308700-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	SC-1	Batch ID:	8906	RunNo:	12721					
Prep Date:	8/16/2013	Analysis Date:	8/19/2013	SeqNo:	362538	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	4.8	23.88	0	106	76	156	4.01	17.7	
Surr: BFB	960		955.1		101	80	120	0	0	

Qualifiers:

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1308700

20-Aug-13

Client: Souder, Miller and Associates

Project: Enterprise Lateral 10D-2

Sample ID	MB-8906	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	8906	RunNo:	12721					
Prep Date:	8/16/2013	Analysis Date:	8/19/2013	SeqNo:	362557	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		104	80	120			

Sample ID	LCS-8906	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	8906	RunNo:	12721					
Prep Date:	8/16/2013	Analysis Date:	8/19/2013	SeqNo:	362558	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.050	1.000	0	105	80	120			
Toluene	1.0	0.050	1.000	0	99.8	80	120			
Ethylbenzene	1.0	0.050	1.000	0	101	80	120			
Xylenes, Total	3.1	0.10	3.000	0	103	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		108	80	120			

Qualifiers:

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

Sample Log-In Check List

Client Name: SMA-FARM

Work Order Number: 1308700

RcptNo: 1

Received by/date:

LM

08/15/13

Logged By: Lindsay Mangin

8/15/2013 10:10:00 AM

Jessie H.

Completed By: Lindsay Mangin

8/16/2013 6:45:36 AM

Jessie H.

Reviewed By:

IO

08/16/13

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 ☒ 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 ☐ # of preserved bottles checked for pH:
(<2 or >12 unless noted)
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐ Adjusted?
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐ Checked by:

Special Handling (if applicable)

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

Person Notified: Thomas Long

Date: 8/16/2013

By Whom: Ashley Gallegos

Via: ☐ eMail ☒ Phone ☐ Fax ☐ In Person

Regarding: Sample IDs. (see section 19.)

Client Instructions: Go with IDs on the jars.

17. Additional remarks:

Sample -001 label says SC-1 lid says SC-2, Sample -002 label says SC-2 lid says SC-1. AMG 08/16/2013

18. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.6	Good	Yes			

08/16/13

010111

SMA

☒ Standard ☐ Rush



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Mailing Address: 2101 San Juan Blvd.

Project Name: Enterprise
Lateral 100-2

Farmington NM 87401

Project #:
S122104

Phone #: 505-325-7535

email or Fax#: tom.long@southernmill.com

Project Manager:

QA/QC Package:

☒ Standard ☐ Level 4 (Full Validation)

☐ Other

☐ EDD (Type)

Thomas, Long

Sampler: 73L

On Ice ☒ Yes ☐ No

Sample Temperature: 1.6

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + MTBE + TMBE (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH (8310 or 8270SIMS)	RCRA 8 Metals	Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Air Bubbles (Y or N)
8-14-13	1203	Soil	SC-1	4oz Jar	Cool	-001	X	X										
	1205		SC-2			-002	X	X										
	1207		SC-3			-003	X	X										
	1324		SC-4			-004	X	X										
	1326		SC-5			-005	X	X										
	1350		SC-6			-006	X	X										
	1352		SC-7			-007	X	X										
	1354		SC-8			-008	X	X										
	1356		SC-9			-009	X	X										

Date: 8-14-13 Time: 1700 Relinquished by: Thomas Long

Received by: Christine Weale Date: 8/14/13 Time: 1700

Remarks: Bill to Enterprise

Date: 8/14/13 Time: 1743 Relinquished by: Christine Weale

Received by: Christine Weale Date: 08/15/13 Time: 1010

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.

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 Enterprise Field Services LLC	Contact Runell Seale/	
Address 614 Reilly Ave, Farmington, NM 87401	Telephone No. (505) 599-2124	
Facility Name Trunk K	Facility Type Pipeline	
Surface Owner BLM	Mineral Owner BLM	API No.

LOCATION OF RELEASE

Unit Letter B	Section 26	Township 27N	Range 8W	Feet from the	North/South Line	Feet from the	East/West Line	County San Juan
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Latitude N36.549087 Longitude W107.64863

NATURE OF RELEASE

Type of Release Natural Gas condensate and produced water	Volume of Release 10bbls & 50+MCF	Volume Recovered
Source of Release 16" spiral weld pipeline	Date and Hour of Occurrence 9/4/2013	Date and Hour of Discovery 9/4/2013 Late afternoon
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom? Brandon Powell, NMOCD, notified by email	
By Whom? Runell Seale, Enterprise	Date and Hour 9/5/13 16:46	RCVD SEP 27 13
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.*

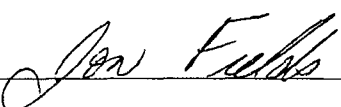
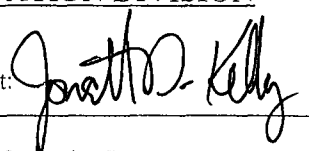
Describe Cause of Problem and Remedial Action Taken.*

After the pipeline leak was detected, the line was blown down, an emergency one call was conducted, and the line was excavated and repaired on 9/9/2013. Stained soils were removed from the location and hauled to an OCD approved landfarm.

Describe Area Affected and Cleanup Action Taken.*

A third party environmental contractor is investigating the affected area and providing recommendations for excavation extents based on field screening and laboratory analytical results. A C-141 "Final" report and third party environmental corrective action report will be submitted once site closure standards have been met.

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: Jon E. Fields		Approved by Environmental Specialist: 	
Title: Director - Field Compliance		Approval Date: 10/22/2013	Expiration Date:
E-mail Address: jefields@eprod.com		Conditions of Approval:	Attached <input type="checkbox"/>
Date: 9/16/2013 Phone: 713-381-6684			

* Attach Additional Sheets If Necessary

NJK 1329541249

①

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 Enterprise Field Services, LLC	Contact Aaron Dailey
Address 614 Reilly Avenue, Farmington NM 87401	Telephone No. (505)599-2286
Facility Name Lateral 3B-71 Pipeline	Facility Type Natural gas pipeline

Surface Owner BLM	Mineral Owner BLM	API No.
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LOCATION OF RELEASE

Unit Letter G	Section 7	Township 29N	Range 8W	Feet from the	North/South Line	Feet from the	East/West Line	County San Juan
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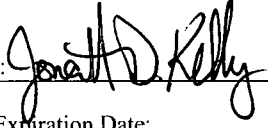
Latitude_N 36.7406 Longitude_W 107.7102 (Decimal Degrees)___

NATURE OF RELEASE

Type of Release Natural gas vapor and some liquid	Volume of Release 1592 MCF gas and 15-25 gallons liquid	Volume Recovered 0 gas, remediation completed to OCD and BLM standard
Source of Release Natural gas pipeline	Date and Hour of Occurrence 12/23/2012 @ 06:00 hours (estimated)	Date and Hour of Discovery 12/24/2012 @ 14:00 hours
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Brandon Powell, NM OCD Aztec District, Sherrie Landon, BLM	
By Whom? Aaron Dailey	Date and Hour 12/24/2012 @ 23:43 hours (e-mail), follow up phone call and e-mail on 12/27/2012 @ 08:30 hours	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

RCVD SEP 3 '13
OIL CONS. DIV.
DIST. 2

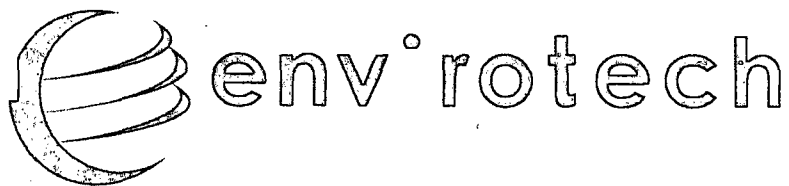
If a Watercourse was Impacted, Describe Fully.*
Describe Cause of Problem and Remedial Action Taken.* Third party contacted Enterprise gas control about a pipeline leak. Enterprise personnel verified leak to be a split leg-off 4 inch pipeline near mile marker 81 off of US highway 64, which was caused by recent cold weather events. The pipeline was isolated and rendered out of service. Cleanup was conducted in warmer weather when snow and ice melted to allow for safer access to the cliff area.
Describe Area Affected and Cleanup Action Taken.* Significant gas loss to atmosphere; some overspray and hydrocarbon impacted soil was discovered. A third party contractor applied a mild simple green/water solution to the sandstone cliff to remove the hydrocarbon stains on the sandstone. Any saturated hydrocarbon impacted soil was removed and transported to an OCD approved landfarm facility. Please refer to the attached third party corrective action report for details.
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: Matt Marra	Approved by Environmental Specialist: 	
Title: Senior Director, Environmental	Approval Date: 12/4/2013	Expiration Date:
E-mail Address: memarra@eprod.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 8-29-2013 Phone: (713)381-6684		

* Attach Additional Sheets If Necessary

n5K1333854661
228

100



August 21, 2013

Project Number 97057-0538

Mr. Aaron Dailey
Enterprise Products
614 Reilly Avenue
Farmington, New Mexico 87401

Phone: (505) 427-1719


**RE: SPILL CLEANUP REPORT FOR A PIPELINE SPILL AT PIPELINE LATERAL 3B-71 IN
SAN JUAN COUNTY, NEW MEXICO.**

Dear Mr. Dailey:

Enclosed please find the *Spill Cleanup Report* detailing spill cleanup activities conducted at Pipeline Lateral 3B-71 located in Section 7, Township 29 North, Range 8 West, San Juan County, New Mexico.

We appreciate the opportunity to be of service. If you have any questions or require additional information, please contact our office at (505) 632-0615.

Respectfully submitted,
ENVIROTECH, INC.


Felipe Aragon, CES
Project Manager
faragon@envirotech-inc.com

Enclosures: *Spill Cleanup Report*

Cc: Client File Number 97057

ENTERPRISE PRODUCTS
SPILL CLEANUP REPORT
PIPELINE LATERAL 3B-71
SECTION 7, TOWNSHIP 29 NORTH, RANGE 8 WEST
SAN JUAN COUNTY, NEW MEXICO

TABLE OF CONTENTS

INTRODUCTION.....1

ACTIVITIES PERFORMED.....1

SUMMARY AND CONCLUSIONS.....2

STATEMENT OF LIMITATIONS.....2

Figures: Figure 1, Vicinity Map
 Figure 2, Site Map

Tables: Table 1, Summary of Analytical Results

Appendices: Appendix A, Analytical Results
 Appendix B, Site Photography

INTRODUCTION

Envirotech, Inc. of Farmington, New Mexico, was contracted by Enterprise Products to provide spill cleanup activities for a release of liquid hydrocarbon from a pipeline located in San Juan County, New Mexico; see *Figure 1, Vicinity Map*. An unknown amount of liquid hydrocarbons was released from the pipeline lateral 3B-71, no standing puddles were found but staining was apparent on the rock face the pipeline ran down; see *Figure 2, Site Map* and *Appendix B, Site Photography*. Activities included washing the rock face, sample collection, sample analysis, documentation and reporting.

ACTIVITIES PERFORMED

Envirotech, Inc. was contacted on January 2, 2013, with a request to respond to a release that occurred at the above referenced location. Upon arrival, a brief site assessment was conducted. Because distance to surface water is less than 200 feet from the release, depth to groundwater greater than 100 feet, and the well site not located within a well head protection area, the regulatory standards for the site were determined to be 100 parts per million (ppm) total petroleum hydrocarbons (TPH) and 100 ppm organic vapors, pursuant to New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills, and Releases. The area of release was snow covered so it was determined to return to the site at a later date to complete cleanup activities.

Envirotech personnel returned to the site on March 15, 2013 to conduct cleanup and sampling activities. Site cleanup activities included spraying down the rock face with a power washer and scrubbing the rock face using Micro-Blaze and Simple Green®. Absorbing booms were placed at the bottom of the rock face in order to catch and filter runoff from cleanup activities. The affected area, downgradient of the rock face, was divided into two (2) sections, Section #1 covered the area between the rock face to 20 feet out from the rock face. Section #2 covered the area 20 feet to 40 feet beyond Section #1; see *Figure 2, Site Map*. One (1) sample was collected from each section, both samples were placed into a four (4)-ounce glass jar, capped headspace free, and transported on ice, under chain of custody, to Envirotech's Analytical Laboratory to be analyzed for TPH using USEPA Method 8015 and for total BTEX using USEPA Method 8021. Section #1 returned results below the regulatory standards for all constituents analyzed and Section #2 returned results below regulatory standards for total BTEX, but above the regulatory standard for TPH; see *Table 1, Summary of Analytical Results*.

Micro-Blaze contains nutrients and bacteria that when applied to a hydrocarbon-based contaminant, it begins breaking down the contaminants for more efficient degradation, into byproducts like carbon dioxide, water, and salts. It was determined that Envirotech would return to re-test soils at a later date to allow for microbial breakdown of the impacted area. Envirotech personnel returned to the site on April 1, 2013, to collect one (1) soil sample from Section #2. The Section #2 sample was placed into a four (4)-ounce glass jar, capped headspace free, and transported on ice, under chain of custody, to Envirotech's Analytical Laboratory to be analyzed for TPH using USEPA Method 8015. The sample returned results above the regulatory standard

for TPH; see *Table 1, Summary of Analytical Results*.

Further microbial degradation was allowed for the site, Envirotech personnel returned to the site for the third time on May 8, 2013, to collect one (1) soil sample from Section #2. The Section #2 sample was placed into a four (4)-ounce glass jar, capped headspace free, and transported on ice, under chain of custody, to Envirotech's Analytical Laboratory to be analyzed for TPH using USEPA Method 8015. The sample returned results below the regulatory standard for TPH; see *Table 1, Summary of Analytical Results*. Based on the above mentioned results, Envirotech recommends no further action in regards to this incident.

SUMMARY AND CONCLUSIONS

Spill cleanup activities were performed for a release of liquid hydrocarbon from a pipeline located in San Juan County, New Mexico. The impacted rock face was cleaned and soils affected by the runoff were monitored for the need of further remediation. Due to analysis results and the microbial degradation, it was determined that no soils needed to be removed. Envirotech, Inc. recommends no further action in regards to this incident.

STATEMENT OF LIMITATIONS

Envirotech, Inc. has completed spill cleanup activities for a release spill cleanup activities for a release of liquid hydrocarbons from a pipeline located in San Juan County, New Mexico. The work and services provided by Envirotech, Inc. were in accordance with the New Mexico Oil Conservation Division standards. All observations and conclusions provided here are based on the information and current site conditions found at the site of the incident.

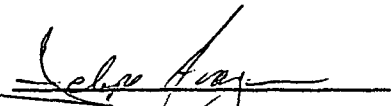
The undersigned has conducted this service at the above referenced site; this work has been conducted and reported in accordance with generally accepted professional practices in geology, engineering, environmental chemistry and hydrogeology.

We appreciate the opportunity to be of service. If you have any questions or require additional information, please contact our office at (505) 632-0615.

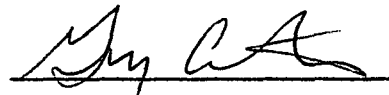
Respectfully Submitted,

Reviewed by:

ENVIROTECH, INC.



Felipe Aragon, CES
Environmental Field Technician
faragon@envirotech-inc.com

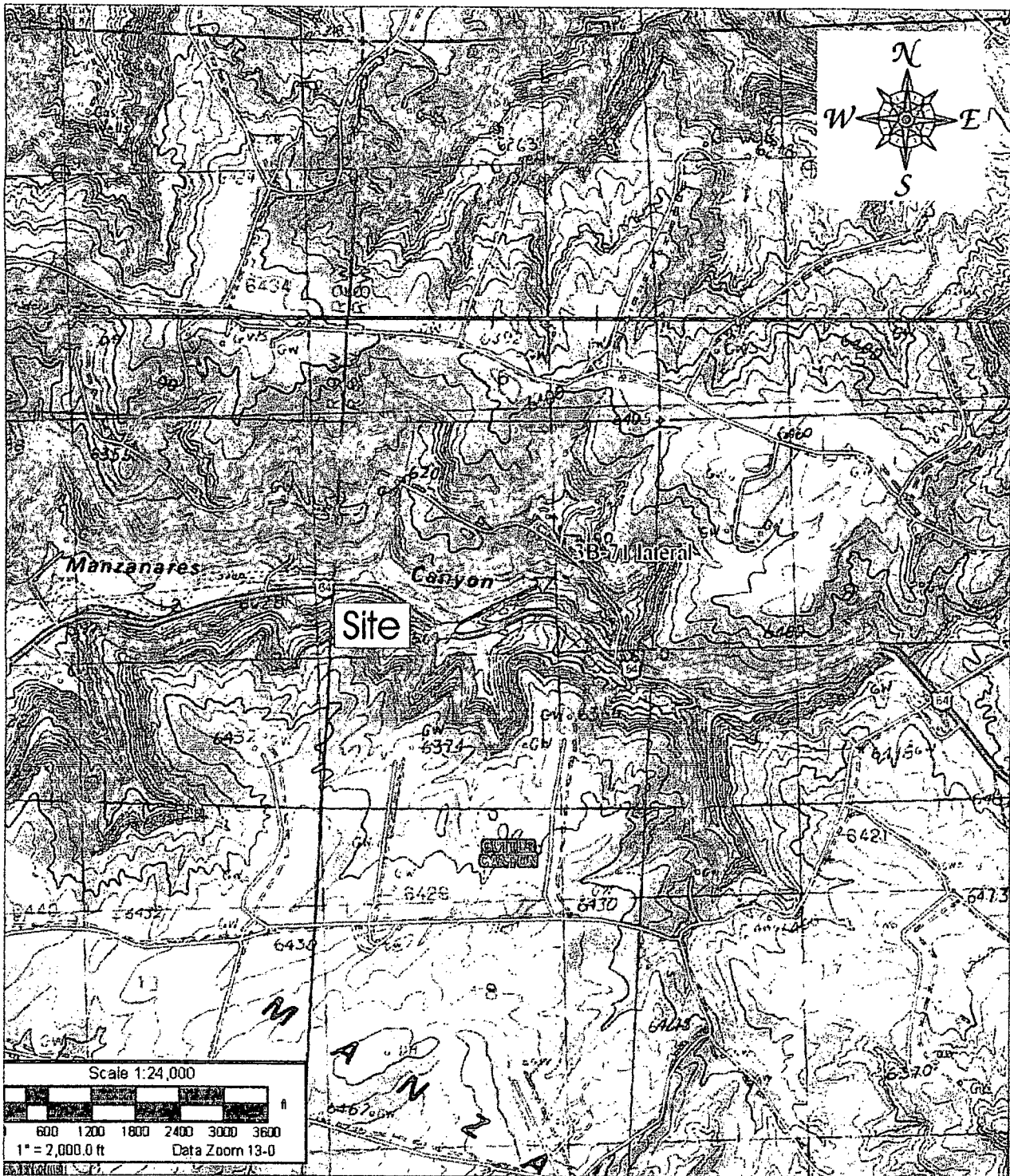


Greg Crabtree, PE
Environmental Manager
gcrabtree@envirotech-inc.com


FIGURES

Figure 1, Vicinity Map

Figure 2, Site Map



Source: 7.5 Minute Bloomfield New Mexico U.S.G.S. Topographic Quadrangle Map
 Scale: 1:24,000 1" = 2000'

<p>Enterprise Products Pipeline Lateral 3B-71 Section 7, Township 29N, Range 8W San Juan County, New Mexico</p>	<p> envirotech ENVIRONMENTAL SCIENTISTS & ENGINEERS</p>	<p>Vicinity Map</p>	
<p>PROJECT Number: 97057-0536 Date Drawn: 8/15/13</p>	<p>5796 U.S. HIGHWAY 64 Farmington, New Mexico 87401 505.632.0615</p>	<p>Figure #1</p>	<p>DRAWN BY: Jen Allison</p> <p>PROJECT MANAGER: Greg Crabtree</p>

SECTION #1 FACE OF ROCK
TO 20 FT OUT SAMPLES
TAKEN ON
3/15/13

LATERAL 3B-71

SECTION #2 20 FT TO 40 FT
OUT SAMPLES TAKEN ON
3/15/13
4/1/13
5/8/13

KEY:

—— LATERAL 3B-71

—— SECTION #1 SAMPLE AREA

—— SECTION #2 SAMPLE AREA

SITE MAP
ENTERPRISE PRODUCTS

PIPELINE LATERAL 3B-71
SEC 7 TWN 29N RNG 8W
SAN JUAN COUNTY, NEW MEXICO

SCALE: NTS

PROJECT N097059-0538

FIGURE NO. 2

REV

REVISIONS

NO.	DATE	BY	DESCRIPTION
-----	------	----	-------------

MAP DRWN	JKA	8/15/13	BASE DRWN
----------	-----	---------	-----------

ENVIRONMENTAL SCIENTISTS & ENGINEERS
ENVIROTECH

5796 U.S. HIGHWAY 64, FARMINGTON, NM 87410 505-632-0615

TABLES

Table 1, Summary of Analytical Results

Table 1, Summary of Analytical Results

Enterprise Products

Pipeline Lateral 3B-71

Spill Cleanup Report

Project Number 97057-0538

Date	Sample Description	Sample Number	Method 8015 TPH (ppm)	USEPA Method 8021	
				Benzene (ppm)	BTEX (ppm)
NA	New Mexico Oil Conservation Division Standards	NA	100	10	50
3/15/2013	Section #1: Rock Face to 20' out	Section #1	6.9	ND	1.59
3/15/2013	Section #2: 20'-40' out	Section #2	111	ND	17.4
4/1/2013	Section #2: 20'-40' out	Section #2	813	NS	NS
5/8/2013	Section #2: 20'-40' out	Section #2	47.8	NS	NS

*Values in **BOLD** above regulatory limits

*Closure Sample

*NS - Parameter not sampled *ND - Parameter not detected

APPENDIX A

Analytical Results



Analytical Report

Report Summary

Client: Enterprise Products
Chain Of Custody Number: 15305
Samples Received: 3/18/2013 10:20:00AM
Job Number: 97057-0538
Work Order: P303057
Project Name/Location: Spill Clean up/3B-71
pipeline

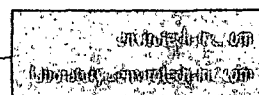
Entire Report Reviewed By:

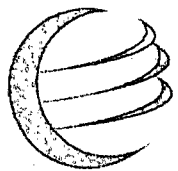
A handwritten signature in black ink, appearing to read "Tim Cain", is written over a horizontal line.

Date: 3/19/13

Tim Cain, Laboratory Manager

The results in this report apply to the samples submitted to Envirotech's Analytical Laboratory and were analyzed in accordance with the chain of custody document supplied by you, the client, and as such are for your exclusive use only. The results in this report are based on the sample as received unless otherwise noted. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. If you have any questions regarding this analytical report, please don't hesitate to contact Envirotech's Laboratory Staff.

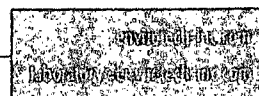




Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Section #1	P303057-01A	Soil	03/15/13	03/18/13	Glass Jar, 4 oz.
Section #2	P303057-02A	Soil	03/15/13	03/18/13	Glass Jar, 4 oz.

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Section #1

P303057-01 (Solid)

Volatile Organics by EPA 8021

Nonhalogenated Organics by 8015

Section #2
P303057-02 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	499	ug/L	10	1312001	18-Mar-13	18-Mar-13	EPA 8021B	
Toluene	957	499	ug/L	10	1312001	18-Mar-13	18-Mar-13	EPA 8021B	
Ethylbenzene	701	499	ug/L	10	1312001	18-Mar-13	18-Mar-13	EPA 8021B	
p,m-Xylene	12700	499	ug/L	10	1312001	18-Mar-13	18-Mar-13	EPA 8021B	
o-Xylene	3060	499	ug/L	10	1312001	18-Mar-13	18-Mar-13	EPA 8021B	
Total BTEX	17400	499	ug/L	10	1312001	18-Mar-13	18-Mar-13	EPA 8021B	
Surrogate: Bromochlorobenzene		187 %	80-120		1312001	18-Mar-13	18-Mar-13	EPA 8021B	SI
Surrogate: 1,4-Difluorobenzene		100 %	80-120		1312001	18-Mar-13	18-Mar-13	EPA 8021B	
Surrogate: Fluorobenzene		98.7 %	80-120		1312001	18-Mar-13	18-Mar-13	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	32.1	5.0	mg/kg	1	1312002	18-Mar-13	18-Mar-13	EPA 8015D	
Diesel Range Organics (C10-C28)	78.5	5.0	mg/kg	1	1312002	18-Mar-13	18-Mar-13	EPA 8015D	
GRO and DRO Combined Fractions	111	5.0	mg/kg	1	1312002	18-Mar-13	18-Mar-13	EPA 8015D	

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Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 1312001 - Purge and Trap EPA 5030A

Blank (1312001-BLK1)

Prepared & Analyzed: 18-Mar-13

Benzene	ND	50.0	ug/L							
Toluene	ND	50.0	"							
Ethylbenzene	ND	50.0	"							
p,m-Xylene	ND	50.0	"							
o-Xylene	ND	50.0	"							
Total BTEX	ND	50.0	"							
Surrogate: Bromochlorobenzene	50.6		"	50.0		101	80-120			
Surrogate: 1,4-Difluorobenzene	48.7		"	50.0		97.5	80-120			
Surrogate: Fluorobenzene	50.5		"	50.0		101	80-120			

Duplicate (1312001-DUP1)

Source: P303056-01

Prepared & Analyzed: 18-Mar-13

Benzene	ND	50.0	ug/L		ND				30	
Toluene	ND	50.0	"		ND				30	
Ethylbenzene	ND	50.0	"		ND				30	
p,m-Xylene	ND	50.0	"		ND				30	
o-Xylene	ND	50.0	"		ND				30	
Surrogate: Bromochlorobenzene	51.2		"	50.0		102	80-120			
Surrogate: 1,4-Difluorobenzene	48.2		"	50.0		96.5	80-120			
Surrogate: Fluorobenzene	49.8		"	50.0		99.6	80-120			

Matrix Spike (1312001-MS1)

Source: P303056-01

Prepared & Analyzed: 18-Mar-13

Benzene	15.8		ug/L	50.0	0.20	31.2	39-150			SP1
Toluene	50.8		"	50.0	0.52	101	46-148			
Ethylbenzene	50.6		"	50.0	0.10	101	32-160			
p,m-Xylene	101		"	100	0.70	100	46-148			
o-Xylene	50.7		"	50.0	0.37	101	46-148			
Surrogate: Bromochlorobenzene	51.6		"	50.0		103	80-120			
Surrogate: 1,4-Difluorobenzene	48.6		"	50.0		97.2	80-120			
Surrogate: Fluorobenzene	48.6		"	50.0		97.2	80-120			

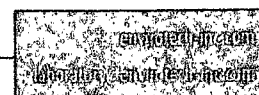
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Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	----------------	-----	--------------	-------

Batch 1312002 - GRO/DRO Extraction EPA 3550C

Blank (1312002-BLK1)

Prepared & Analyzed: 18-Mar-13

Gasoline Range Organics (C6-C10)	ND	5.0	mg/kg
Diesel Range Organics (C10-C28)	ND	5.0	"
GRO and DRO Combined Fractions	ND	5.0	"

Duplicate (1312002-DUP1)

Source: P303056-01

Prepared & Analyzed: 18-Mar-13

Gasoline Range Organics (C6-C10)	ND	5.0	mg/kg	ND	30
Diesel Range Organics (C10-C28)	ND	5.0	"	ND	30

Matrix Spike (1312002-MS1)

Source: P303056-01

Prepared & Analyzed: 18-Mar-13

Gasoline Range Organics (C6-C10)	207	mg/L	250	0.5	82.7	75-125
Diesel Range Organics (C10-C28)	208	"	250	4.6	81.2	75-125

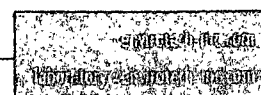
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Notes and Definitions

SP1 The spike recovery for this QC sample is outside of control limits.

S1 Surrogate recovery was above acceptable limits.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

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Rush

CHAIN OF CUSTODY RECORD

15305

Page 8 of 8

Client: <u>Enterprise</u>		Project Name / Location: <u>Spill Cleanup / 38-71 Pipeline</u>		ANALYSIS / PARAMETERS													
Email results to: <u>F. Aragon</u>		Sampler Name: <u>F. Aragon</u>		TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE			Sample Cool	Sample Intact
Client Phone No.:		Client No.: <u>97057-0538</u>															
Sample No. / Identification	Sample Date	Sample Time	Lab No.	No. / Volume of Containers	Preservative												
					HgCl ₂	HCl	cool										
<u>Section #1</u>	<u>3-7-13</u>	<u>14:20</u>	<u>P303057-01</u>	<u>1-402</u>			<u>X</u>	<u>X</u>	<u>V</u>							<u>X</u>	<u>X</u>
<u>Section #2</u>	<u>3-15-13</u>	<u>14:30</u>	<u>P303057-02</u>	<u>1-402</u>			<u>Y</u>	<u>X</u>	<u>Y</u>								
Relinquished by: (Signature) <u>[Signature]</u>				Date	Time	Received by: (Signature) <u>[Signature]</u>				Date	Time						
Relinquished by: (Signature) <u>[Signature]</u>				<u>3/18/13</u>	<u>10:20</u>	Received by: (Signature) <u>[Signature]</u>				<u>3/18/13</u>	<u>10:20</u>						
Sample Matrix																	
Soil <input checked="" type="checkbox"/> Solid <input type="checkbox"/> Sludge <input type="checkbox"/> Aqueous <input type="checkbox"/> Other <input type="checkbox"/>																	
<input type="checkbox"/> Sample(s) dropped off after hours to secure drop off area.																	



envirotech
Analytical Laboratory

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Analytical Report

Report Summary

Client: Enterprise Products

Chain Of Custody Number: 15355

Samples Received: 4/2/2013 10:50:00AM

Job Number: 97057-0538

Work Order: P304005

Project Name/Location: Spill Cleanup / 3B-71

Lateral

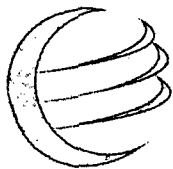
Entire Report Reviewed By:



Date: 4/3/13

Tim Cain, Laboratory Manager

The results in this report apply to the samples submitted to Envirotech's Analytical Laboratory and were analyzed in accordance with the chain of custody document supplied by you, the client, and as such are for your exclusive use only. The results in this report are based on the sample as received unless otherwise noted. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. If you have any questions regarding this analytical report, please don't hesitate to contact Envirotech's Laboratory Staff.



envirotech

Analytical Laboratory

Enterprise Products
614 Reilly Ave
Farmington NM, 87401

Project Name: Spill Cleanup / 3B-71 Lateral
Project Number: 97057-0538
Project Manager: Felipe Aragon

Reported:
03-Apr-13 10:41

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Section 2	P304005-01A	Soil	04/01/13	04/02/13	Glass Jar, 4 oz.

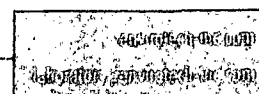
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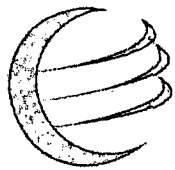
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envirotech

Analytical Laboratory

Enterprise Products
614 Reilly Ave
Farmington NM, 87401

Project Name: Spill Cleanup / 3B-71 Lateral
Project Number: 97057-0538
Project Manager: Felipe Aragon

Reported:
03-Apr-13 10:41

Section 2 P304005-01 (Solid)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								

Nonhalogenated Organics by 8015

Gasoline Range Organics (C6-C10)	88.6	5.00	mg/kg	1	1314018	02-Apr-13	02-Apr-13	EPA 8015D	
Diesel Range Organics (C10-C28)	725	5.00	mg/kg	1	1314018	02-Apr-13	02-Apr-13	EPA 8015D	
GRO and DRO Combined Fractions	813	5.00	mg/kg	1	1314018	02-Apr-13	02-Apr-13	EPA 8015D	

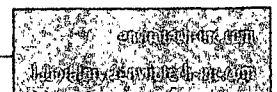
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Enterprise Products
 614 Reilly Ave
 Farmington NM, 87401

 Project Name: Spill Cleanup / 3B-71 Lateral
 Project Number: 97057-0538
 Project Manager: Felipe Aragon

 Reported:
 03-Apr-13 10:41

Nonhalogenated Organics by 8015 - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch 1314018 - GRO/DRO Extraction EPA 3550C
Blank (1314018-BLK1)

Prepared & Analyzed: 02-Apr-13

Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg							
Diesel Range Organics (C10-C28)	ND	5.00	"							
GRO and DRO Combined Fractions	ND	5.00	"							

Duplicate (1314018-DUP1)

Source: P304005-01

Prepared & Analyzed: 02-Apr-13

Gasoline Range Organics (C6-C10)	82.6	5.00	mg/kg		88.6			7.02	30	
Diesel Range Organics (C10-C28)	708	5.00	"		725			2.36	30	

Matrix Spike (1314018-MS1)

Source: P304005-01

Prepared & Analyzed: 02-Apr-13

Gasoline Range Organics (C6-C10)	359	5.26	mg/kg	263	88.6	103	75-125			
Diesel Range Organics (C10-C28)	1010	5.26	"	263	725	107	75-125			

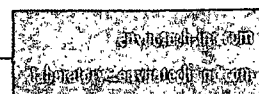
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Three Springs - 65 Mercado Street, Suite 115, Durango, CO 81301

Ph (970) 259-0615 Fr (800) 362-1879





Enterprise Products
614 Reilly Ave
Farmington NM, 87401

Project Name: Spill Cleanup / 3B-71 Lateral
Project Number: 97057-0538
Project Manager: Felipe Aragon

Reported:
03-Apr-13 10:41

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

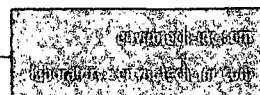
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Rush

CHAIN OF CUSTODY RECORD

15355

Page 6 of 6

Client: <i>Enterpro. se</i>			Project Name / Location: <i>Sp. 11 Cleanup / 35-71 Lotrial</i>			ANALYSIS / PARAMETERS													
Email results to: <i>F. Aragon</i>			Sampler Name: <i>F. Aragon</i>			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE			Sample Cool	Sample Intact
Client Phone No.:			Client No.: <i>97057-0538</i>																
Sample No./ Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative														
					HgCl ₂	HCl	col												
<i>Section 2</i>	<i>4-1-13</i>	<i>1430</i>	<i>9304005-01</i>	<i>1-402</i>			<i>XX</i>											<i>XX</i>	
Relinquished by: (Signature)					Date	Time	Received by: (Signature)					Date	Time						
<i>[Signature]</i>					<i>4/2/13</i>	<i>10:50</i>	<i>[Signature]</i>					<i>4/2/13</i>	<i>10:50</i>						
Relinquished by: (Signature)							Received by: (Signature)												
Sample Matrix																			
Soil <input checked="" type="checkbox"/> Solid <input type="checkbox"/> Sludge <input type="checkbox"/> Aqueous <input type="checkbox"/> Other <input type="checkbox"/>																			

☐ Sample(s) dropped off after hours to secure drop off area.

envirotech
Analytical Laboratory

5795 US Highway 64 • Farmington, NM 87401 • 505-632-0615 • Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301 • laboratory@envirotech-inc.com

Analytical Report

Report Summary

Client: Enterprise Products
Chain Of Custody Number: 15511
Samples Received: 5/8/2013 4:10:00PM
Job Number: 97057-0538
Work Order: P305023
Project Name/Location: Spill Cleanup / 3B-71
pipeline

Entire Report Reviewed By:



Date: 5/10/13

Tim Cain, Laboratory Manager

The results in this report apply to the samples submitted to Envirotech's Analytical Laboratory and were analyzed in accordance with the chain of custody document supplied by you, the client, and as such are for your exclusive use only. The results in this report are based on the sample as received unless otherwise noted. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. If you have any questions regarding this analytical report, please don't hesitate to contact Envirotech's Laboratory Staff.

Enterprise Products
614 Reilly Ave
Farmington NM, 87401

Project Name: Spill Cleanup / 3B-71 pipeline
Project Number: 97057-0538
Project Manager: Felipe Aragon

Reported:
10-May-13 11:36

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Section 2	P305023-01A	Soil	05/08/13	05/08/13	Glass Jar, 4 oz.

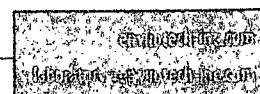
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Ph (970) 259-0615 Fr (800) 362-1879



Enterprise Products
 614 Reilly Ave
 Farmington NM, 87401

 Project Name: Spill Cleanup / 3B-71 pipeline
 Project Number: 97057-0538
 Project Manager: Felipe Aragon

Reported:
 10-May-13 11:36

Section 2
P305023-01 (Solid)

Analyte	Reporting								Notes
	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg	1	1319019	09-May-13	09-May-13	EPA 8015D	
Diesel Range Organics (C10-C28)	47.8	4.99	mg/kg	1	1319019	09-May-13	09-May-13	EPA 8015D	
GRO and DRO Combined Fractions	47.8	4.99	mg/kg	1	1319019	09-May-13	09-May-13	EPA 8015D	

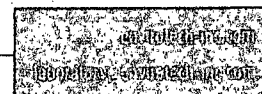
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Ph (505) 632-0615 Fx (505) 632-1865

Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301

Ph (970) 259-0615 Fr (800) 362-1879



Enterprise Products
614 Reilly Ave
Farmington NM, 87401

Project Name: Spill Cleanup / 3B-71 pipeline
Project Number: 97057-0538
Project Manager: Felipe Aragon

Reported:
10-May-13 11:36

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	----------------	-----	--------------	-------

Batch 1319019 - GRO/DRO Extraction EPA 3550C

Blank (1319019-BLK1)

Prepared & Analyzed: 09-May-13

Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg						
Diesel Range Organics (C10-C28)	ND	5.00	"						
GRO and DRO Combined Fractions	ND	5.00	"						

Duplicate (1319019-DUP1)

Source: P305023-01

Prepared & Analyzed: 09-May-13

Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg		ND			30	
Diesel Range Organics (C10-C28)	17.9	5.00	"		47.8		91.1	30	D1

Matrix Spike (1319019-MS1)

Source: P305023-01

Prepared & Analyzed: 09-May-13

Gasoline Range Organics (C6-C10)	267	5.26	mg/kg	263	ND	101	75-125		
Diesel Range Organics (C10-C28)	309	5.26	"	263	47.8	99.4	75-125		

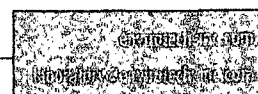
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5796 US Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865

Three Springs - 65 Mercado Street, Suite 115, Durango, CO 81301

Ph (970) 259-0615 Fr (800) 362-1879



Enterprise Products
614 Reilly Ave
Farmington NM, 87401

Project Name: Spill Cleanup / 3B-71 pipeline
Project Number: 97057-0538
Project Manager: Felipe Aragon

Reported:
10-May-13 11:36

Notes and Definitions

D1 Duplicates or Matrix Spike Duplicates Relative Percent Difference exceeds 30%.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

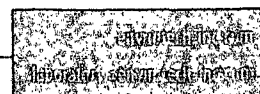
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5796 US Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865

Three Springs - 65 Mercado Street, Suite 115, Durango, CO 81301

Ph (970) 259-0615 Fx (800) 362-1879



CHAIN OF CUSTODY RECORD

15511

Page 6 of 6

Client: <i>Enterprise</i>			Project Name / Location: <i>Spill Cleanup 133-71 S. Melrose</i>			ANALYSIS / PARAMETERS													
Email results to: <i>F. Aragon</i>			Sampler Name: <i>F. Aragon</i>			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE			Sample Cool	Sample Intact
Client Phone No.:			Client No.: <i>97057-0538</i>																
Sample No./ Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative														
					HNO ₃	HCl	CO ₂												
<i>Section 2</i>	<i>5-8-13</i>	<i>14:10</i>	<i>P305023-01</i>	<i>1-402</i>			<i>X</i>	<i>X</i>										<i>Y</i>	<i>Y</i>
Relinquished by: (Signature)					Date	Time	Received by: (Signature)					Date	Time						
<i>[Signature]</i>					<i>5-8-13</i>	<i>16:10</i>	<i>[Signature]</i>					<i>5/8/13</i>	<i>16:10</i>						
Relinquished by: (Signature)							Received by: (Signature)												
Sample Matrix																			
Soil <input checked="" type="checkbox"/> Solid <input type="checkbox"/> Sludge <input type="checkbox"/> Aqueous <input type="checkbox"/> Other <input type="checkbox"/>																			

☐ Sample(s) dropped off after hours to secure drop off area.

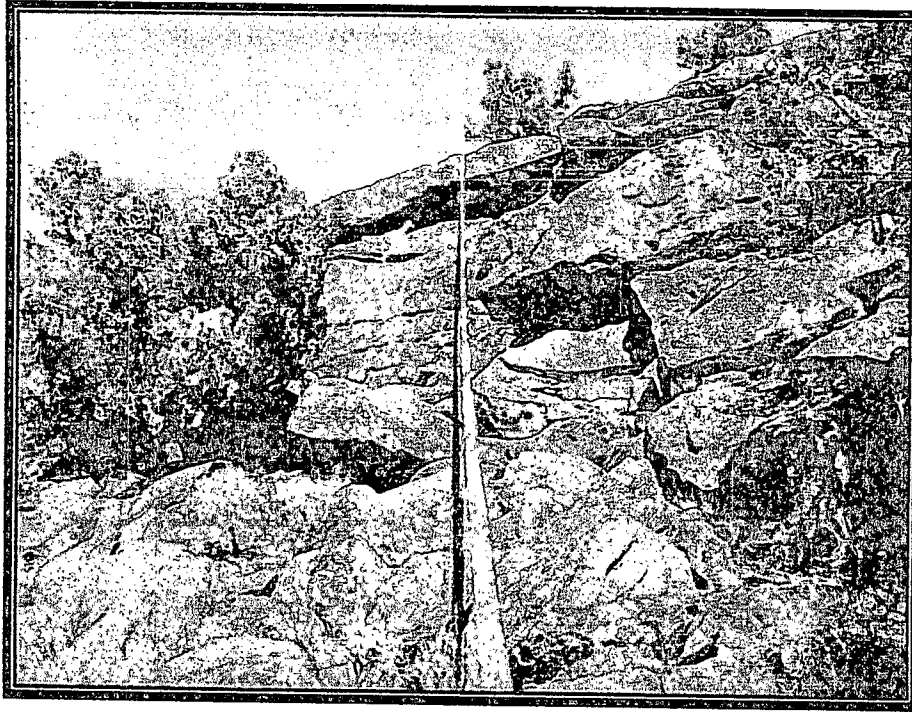


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Analytical Laboratory

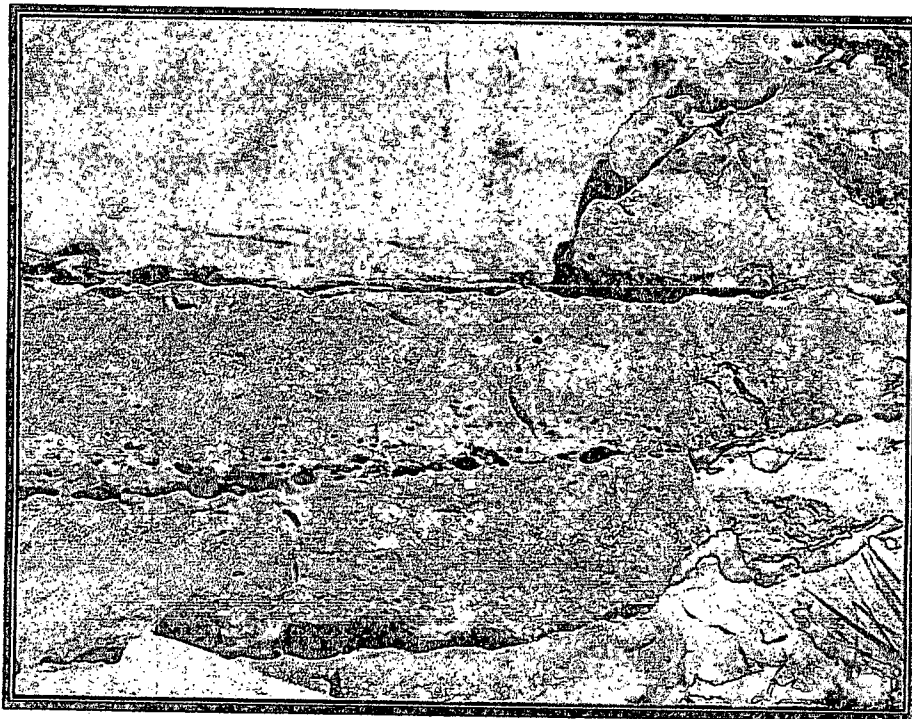
APPENDIX B

Site Photography

**SITE PHOTOGRAPHY
ENTERPRISE PRODUCTS
SPILL CLEANUP REPORT
PIPELINE LATERAL 3B-71
PROJECT NUMBER 97057-0538
MARCH 2013**



Picture 1: Release Path on Rock Face (View 1)



Picture 2: Release Path on Rock Face (View 2)

**SITE PHOTOGRAPHY
ENTERPRISE PRODUCTS
SPILL CLEANUP REPORT
PIPELINE LATERAL 3B-71
PROJECT NUMBER 97057-0538
MARCH 2013**

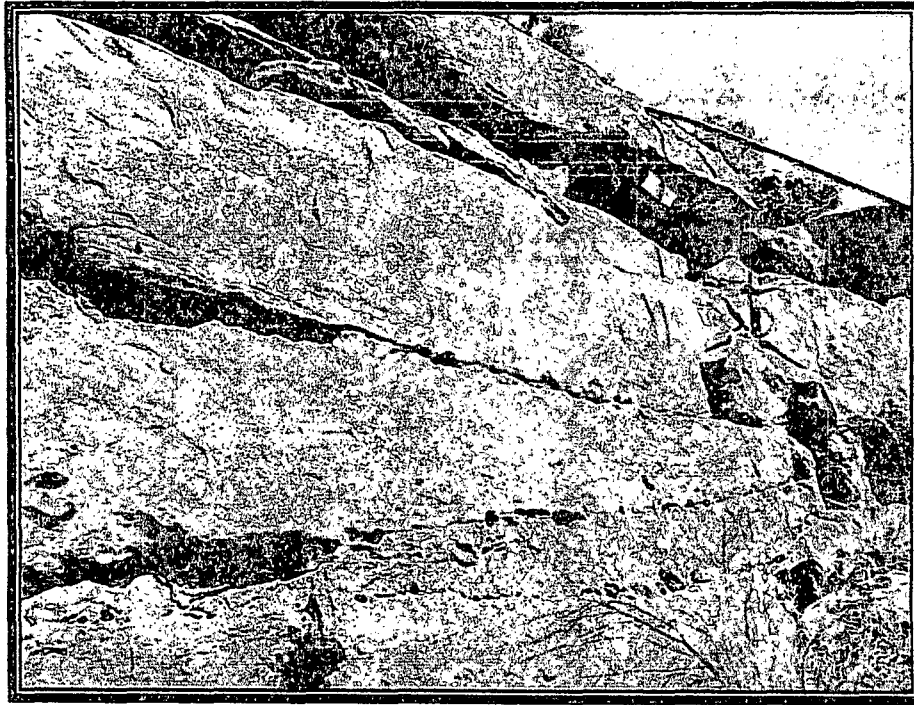


Picture 3: Rock Face Cleanup Activities



Picture 4: Booms at the Base of the Rock Face

**SITE PHOTOGRAPHY
ENTERPRISE PRODUCTS
SPILL CLEANUP REPORT
PIPELINE LATERAL 3B-71
PROJECT NUMBER 97057-0538
MARCH 2013**



Picture 5: Rock Face after Cleanup Activities (View 1)



Picture 6: Rock Face after Cleanup Activities (View 2)

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

Form C-141
Revised August 8, 2011

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

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 Enterprise Field Services	Contact: Aaron Dailey
Address 614 Reilly Ave., Farmington, NM 87401	Telephone No. 505-599-2286
Facility Name Lateral 6B-10 pipeline segment (Gallegos 203 gathering line)	Facility Type: Natural gas gathering line

Surface Owner: BLM	Mineral Owner BLM	API No.
--------------------	-------------------	---------

LOCATION OF RELEASE—two pipe leaks close together

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
O	13	28N	12W					
B	24	28N	12W					San Juan

Two leaks: Latitude__1) N 36.65657; 2) N36.65390 **Longitude**_1) W 108.05731; 2) W 108.05927__

NATURE OF RELEASE


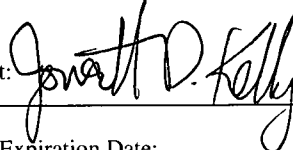
Type of Release: Natural Gas Condensate, Produced Water	Volume of Release Unknown	Volume Recovered: TBD (Dig and Haul Scheduled)
Source of Release: Pipeline	Date and Hour of Occurrence: Unknown	Date and Hour of Discovery Pipe leaks discovered and isolated 8.13.2013 @ 15:00 hours Environmental delineation completed 8.21.2013 @ 09:00 hours
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom? Aaron Dailey	Date and Hour	RCVD AUG 26 '13
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.* Two pipe leaks were discovered in this segment of well tie pipeline during a routine pipeline patrol. Line was isolated and LOTO applied during discovery.

Describe Area Affected and Cleanup Action Taken.* Third party environmental contractor conducted delineation of pipeline release areas on to determine potential impact on soils surrounding pipeline. It is estimated that as much as 85 yards of contaminated soil will have to be remediated from the Northernmost pipe leak location and that as much as 420 yards of contaminated soil will have to be removed from the Southernmost leak location. Dig and haul to OCD permitted landfarm is being coordinated at this time.

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: Matt Marra		Approved by Environmental Specialist: 	
Title: Sr. Director, Environmental		Approval Date: 9/11/2013	Expiration Date:
E-mail Address: memarra@eprod.com		Conditions of Approval:	
Date: 8-22-2013 Phone: 713-381-6684		Attached <input type="checkbox"/>	

* Attach Additional Sheets If Necessary

nJK1325450693

①

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	Enterprise Field Services, LLC	Contact	Aaron Dailey
Address	614 Reilly Avenue, Farmington NM 87401	Telephone No.	(505)599-2286
Facility Name	Lateral 2A-9 Natural Gas Gathering Line	Facility Type	Natural Gas Gathering line

Surface Owner	BLM	Mineral Owner	BLM	API No.
---------------	-----	---------------	-----	---------

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
G	13	27N	10W					San Juan

Latitude_N 36.57857 Longitude_W -107.84631

NATURE OF RELEASE

Type of Release	Natural gas Condensate and Water	Volume of Release	Unknown	Volume Recovered	TBD
Source of Release	Natural Gas Pipeline	Date and Hour of Occurrence	Unknown	Date and Hour of Discovery	8/14/2013 @ 11:00 hours gas release identified 8/20/2013 @ 15:14 hours environmental contractor notified Enterprise Field Environmental of significant soil impacts.

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	RCVD AUG 26 '13
----------	---------------	-----------------

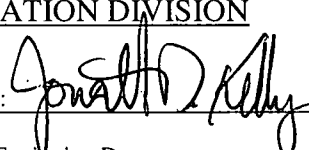
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	OIL COND. DIV. DIST. 3
----------------------------	---	---	---------------------------

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
Pipeline leak location discovered by contractor working for Enterprise on line patrol. Line was isolated immediately after discovery. Repairs are being scheduled at this time.

Describe Area Affected and Cleanup Action Taken.*
Third party environmental contractor was dispatched to delineate and determine environmental impact of location. It is estimated that approximately 150 yards of contaminated soil will have to be removed and hauled to an OCD permitted landfarm. A "final" c-141 will be submitted once corrective actions and report have been completed.

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: Matt Marra	Approved by Environmental Specialist: 		
Title: Sr. Director, Environmental	Approval Date: 9/11/2013	Expiration Date:	
E-mail Address: memarra@eprod.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 8-22-2013 Phone: (713)381-6684			

* Attach Additional Sheets If Necessary

nJK 1325451527
1371

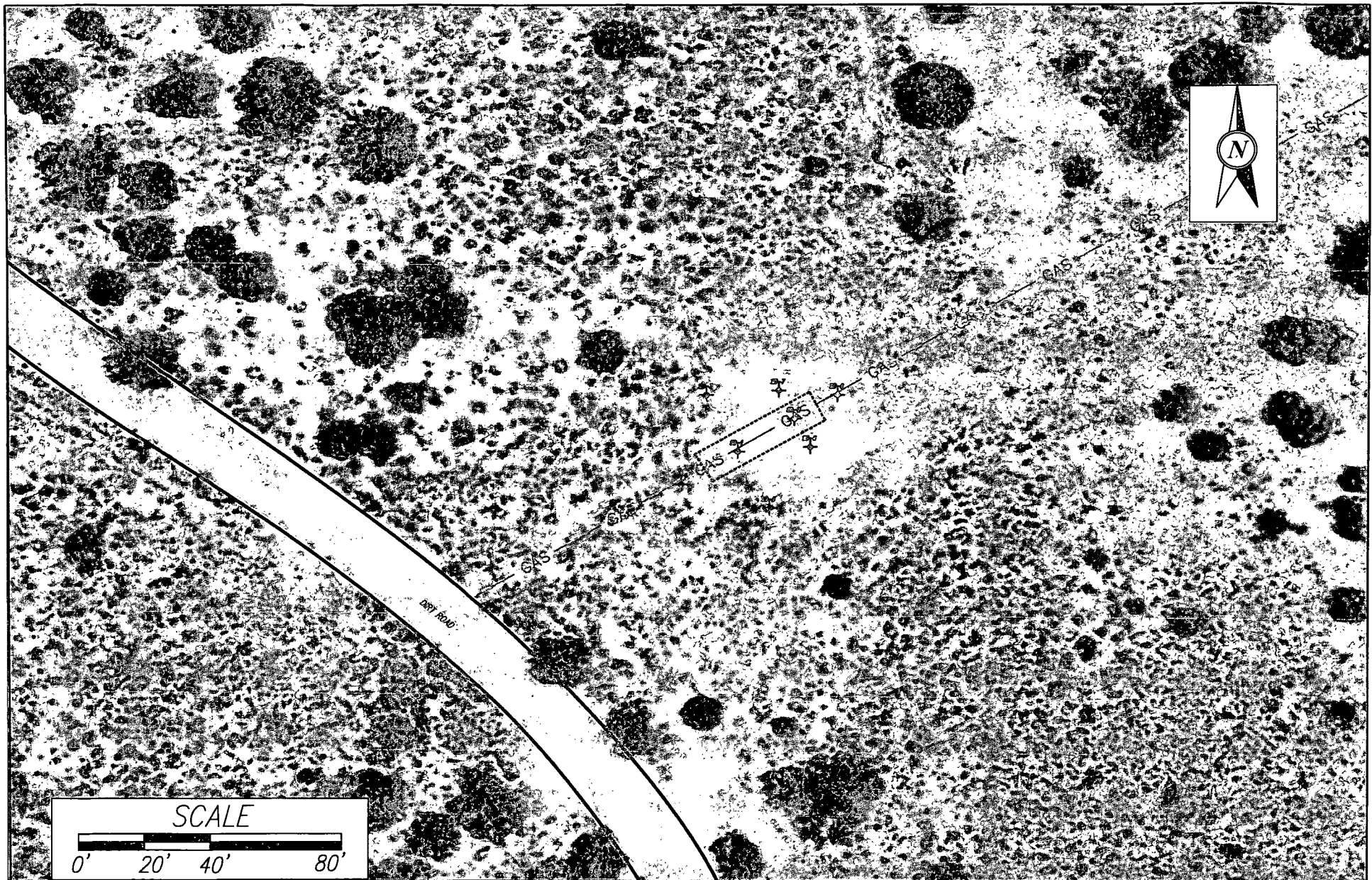
4

Enterprise Products
Table 1: Summary of Field Screening Results
(PPM)

Lateral 2A-9 Western Pipeline Release
8/20/2013

FIELD SCREENING RESULTS SUMMARY					
Date	Time	Field Screening Reference	Sample Depth (Feet BGS)	PID Results	Comments
8/19/2013	13:30	SB-1	1	311.0	Heavy Staining
8/19/2013	13:31	SB-1	2	214.0	Heavy Staining
8/19/2013	13:32	SB-1	3	105.0	Heavy Staining
8/19/2013	13:33	SB-1	4	97.0	Heavy Staining
8/19/2013	13:34	SB-1	5	212.0	Heavy Staining
8/19/2013	13:45	SB-2	1	213.0	Heavy Staining
8/19/2013	13:46	SB-2	2	253.0	Heavy Staining
8/19/2013	13:47	SB-2	3	169.0	Heavy Staining
8/19/2013	13:48	SB-2	4	383.0	Heavy Staining
8/19/2013	13:49	SB-2	5	543.0	Heavy Staining
8/19/2013	15:08	SB-2	6	963.0	Heavy Staining
8/19/2013	15:09	SB-2	7	1175.0	Heavy Staining
8/19/2013	15:10	SB-2	8	584.0	Heavy Staining
8/19/2013	15:11	SB-2	9	907.0	Heavy Staining
8/19/2013	15:12	SB-2	10	353.0	Heavy Staining
8/19/2013	13:56	SB-3	1	75.2	
8/19/2013	13:57	SB-3	2	31.0	
8/19/2013	13:58	SB-3	3	44.0	
8/19/2013	13:59	SB-3	4	34.0	
8/19/2013	14:00	SB-3	5	25.0	
8/19/2013	14:07	SB-4	1	76.0	
8/19/2013	14:08	SB-4	2	27.0	
8/19/2013	14:09	SB-4	3	33.0	
8/19/2013	14:10	SB-4	4	17.4	
8/19/2013	14:11	SB-4	5	14.8	
8/19/2013	14:26	SB-5	1	23.0	
8/19/2013	1:27	SB-5	2	21.0	
8/19/2013	14:28	SB-5	3	26.0	
8/19/2013	14:29	SB-5	4	27.0	
8/19/2013	14:30	SB-5	5	11.0	
8/19/2013	13:36	SB-6	1	47.0	
8/19/2013	14:37	SB-6	2	29.0	
8/19/2013	14:38	SB-6	3	34.0	
8/19/2013	14:39	SB-6	4	44.0	
8/19/2013	14:40	SB-6	5	36.0	
8/19/2013	14:51	SB-7	1	32.0	
8/19/2013	14:52	SB-7	2	21.0	
8/19/2013	14:53	SB-7	3	17.0	
8/19/2013	14:54	SB-7	4	16.0	
8/19/2013	14:55	SB-7	5	13.0	
8/19/2013	14:56	SB-8	1	10.0	
8/19/2013	14:57	SB-8	2	20.0	
8/19/2013	14:58	SB-8	3	24.0	
8/19/2013	14:59	SB-8	4	22.0	
8/19/2013	15:00	SB-8	5	14.0	





Engineering
Environmental
Surveying

2101 SAN JUAN BLVD
FARMINGTON, NM 87401

FAX (505) 327-1496
PH. (505) 325-5667

APPROVED: RSA	DATE: 08/20/13
DRAWN BY: TLONG	DATE: 08/20/13
REVISIONS BY:	DATE:
PROJECT # 5122104	FIGURE: 1

SITE LOCATION MAP
LATERAL 2A-9 WESTERN RELEASE
SW 1/4 NE 1/4 SECTION 13 T27N R10W
SAN JUAN COUNTY, NEW MEXICO

NOTES: NEW MEXICO OIL CONSERVATION DIVISION (NMOCD) SITE RANKING = 30
WHERE GROUNDWATER IS LESS 50 FEET BGS AND SURFACE WATER IS LESS
THAN 1000 HORIZONTAL FEET AWAY. REMEDIATION STANDARD IN PPM = 5
BENZENE, 50 TOTAL BTEX AND 100 TOTAL PETROLEUM HYDROCARBONS.

PROPOSED EXCAVATION = 40' LONG X 10' WIDE X 10' DEEP OR TO
BEDROCK = APPROXIMATELY 148 CUBIC YARDS FOR DISPOSAL TO A NMOCD
PERMITTED LANDFARM

** PROPOSED EXCAVATION DIMENSIONS AND VOLUME BASED ON FIELD SOIL
BORING DATA. PROPOSED EXCAVATION DIMENSIONS AND VOLUME MAY
CHANGE GIVEN ACTUAL FIELD CONDITIONS.

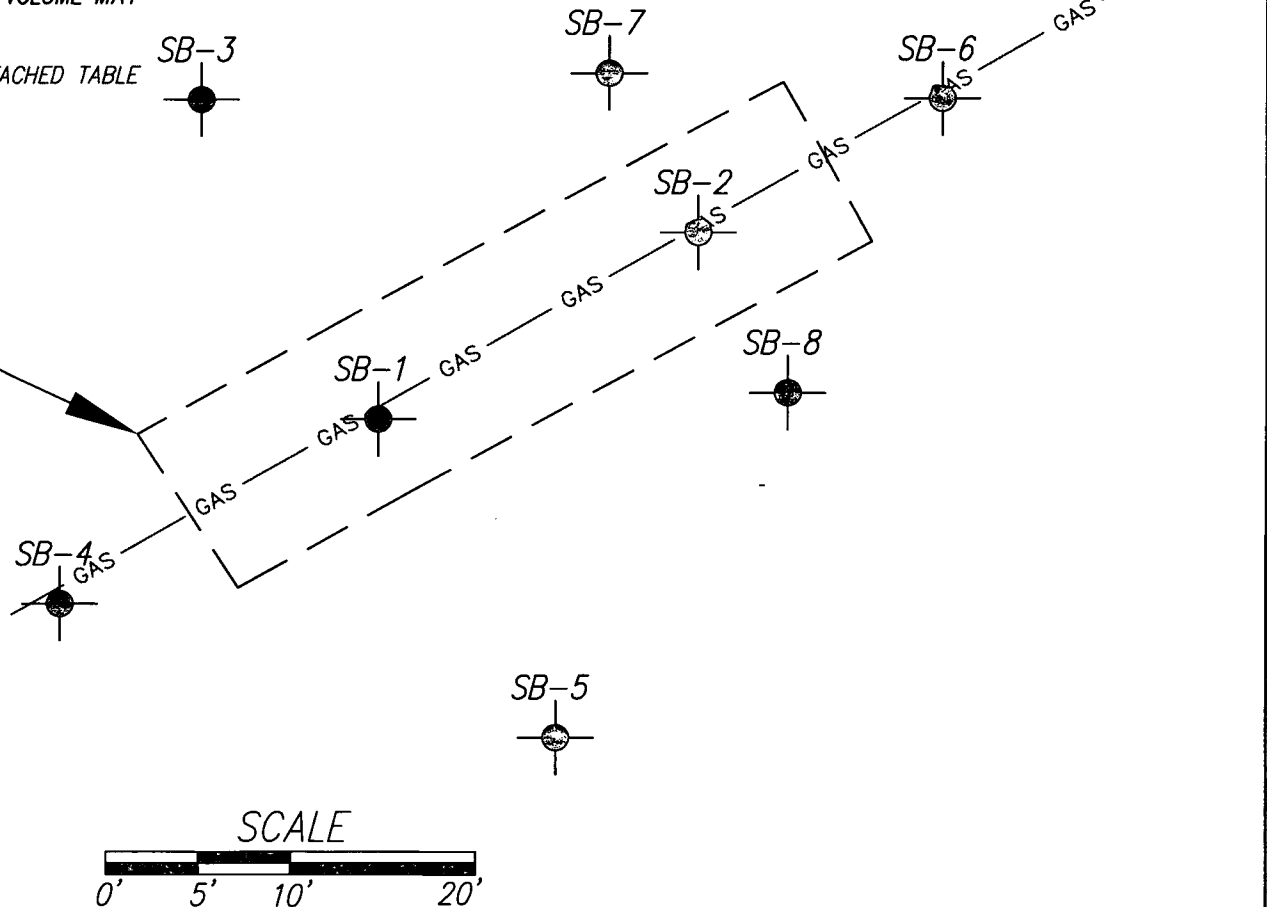
*** FIELD SCREENING RESULTS ARE INCLUDED IN THE ATTACHED TABLE

PROPOSED EXCAVATION
40' LONG X 10' WIDE X 10' DEEP

LEGEND:

SB-2
- SOIL BORING LOCATION

- PROPOSED EXCAVATION



2101 SAN JUAN BLVD
FARMINGTON, NM 87401

FAX (505) 327-1496
PH. (505) 325-5667

APPROVED: RSA

DRAWN BY: TLONG

REVISIONS BY:

PROJECT # 5122104

DATE: 08/20/13

DATE: 08/20/13

DATE:

FIGURE: 2

SITE MAP- PROPOSED EXCAVATION
MAP

LATERAL 2A-9 WESTERN RELEASE
SW 1/4 NE 1/4 SECTION 13 T27N R10W
SAN JUAN COUNTY, NEW MEXICO

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	Enterprise Field Services, LLC	Contact	Thomas Long
Address	614 Reilly Avenue, Farmington NM 87401	Telephone No.	(505)599-2286
Facility Name	Cedar Hill Compressor Station	Facility Type	Natural Gas Compressor Station
Surface Owner	Private	Mineral Owner	Private
		API No.	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
N	29	32N	10W					San Juan

Latitude N 36deg57'00" Longitude W 107deg54'26" (DDMMSS)
N 36.95000 W 107.90722 (Decimal Degrees)

NATURE OF RELEASE

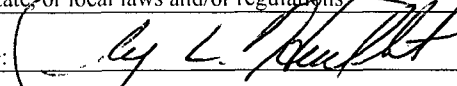
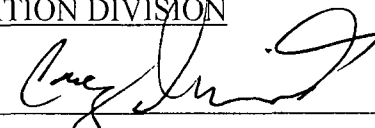
Type of Release	Fire, subsequent Emergency Shut Down (ESD) and glycol release	Volume of Release	3-5 barrels glycol, 67 MCF gas (ESD)	Volume Recovered	35 yards of glycol contaminated soil removed
Source of Release	Glycol Dehydrator	Date and Hour of Occurrence	4/14/2013 @ 03:00 hours	Date and Hour of Discovery	4/14/2013 @ 03:50 hours
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Monica Keuhling, NM OCD Aztec District. Other agencies notified are as follows: Sandy Spon, NMED AQB; NMED HAZMAT Coordinator Ruth Horowitz; San Juan County LEPC Paula Thomassen; NM Public Regulation Commission		
By Whom?	Aaron Dailey	Date and Hour	4/14/2013 @ 08:30 hours (Notification to NM OCD, other notifications followed after this time)		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* Enterprise employee was called out to Cedar Hill compressor station by Enterprise Gas Control. Gas Control stated compressor unit #3 was off line. Enterprise employee arrived at front gate of location and noticed gas dehydrator was on fire. ESD of compressor station occurred due to wires shorting out on the facility dehydrator. Enterprise employee secured road leading to station, called 911 and supervision. Fire department arrived. Enterprise employee had tailgate meeting with fire department about hazards and configuration of compressor station and dehydrator. Supervision called Enterprise safety and environmental departments. Fire was extinguished at 5am MST.

Describe Area Affected and Cleanup Action Taken.* Dehydrator and all appurtenances are considered to be lost; the insulation in the area was sampled for asbestos, whereby the results came back negative. Glycol contaminated soil that fell outside the concrete containment berm was excavated and hauled to an approved disposal facility beginning 5/22/2013. The dehydrator and all equipment is currently taped off and pending further investigation from fire marshal and other investigative personnel. Area inside concrete containment will be cleaned and dehydrator will be dismantled after the fire investigation is complete. Third party environmental contractor completed remediation activities on 5/23/13. Approximately 33 cubic yards of contaminated soil and gravel was excavated and transported to Bondad Landfill in Bondad, Colorado. Third party corrective action report is attached to this "final" c-141 report.

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:	Terry L. Hurlburt			Approved by Environmental Specialist: 	
Title:	Group Sr. Vice President			Approval Date:	9/2/14
E-mail Address:	snolan@eprod.com			Expiration Date:	
Date:	12-5-2013 Phone: 713-381-6595			Conditions of Approval:	Attached <input type="checkbox"/>

* Attach Additional Sheets If Necessary

#NCS 1424729700

28



November 13, 2013

Project Number 97057-0562

Ms. Runell Seale
Enterprise
614 Reilly Avenue
Farmington, New Mexico 87401

Phone: (505) 599-2124

**RE: SPILL CLEANUP REPORT FROM A FIRE AT THE CEDAR HILL COMPRESSOR
STATION, 221 ROAD 2300, SAN JUAN COUNTY, NEW MEXICO**

Dear Ms. Seale:

Enclosed please find the *Spill Cleanup Report* detailing spill cleanup activities conducted at the Cedar Hill Compressor Station at 221 Road 2300 in San Juan County, New Mexico.

We appreciate the opportunity to be of service. If you have any questions or require additional information, please contact our office at (505) 632-0615.

Respectfully submitted,
ENVIROTECH, INC.


Tiffany McIntosh
Staff Scientist
tmcintosh@envirotech-inc.com

Enclosures: *Spill Cleanup Report*

Cc: Client File Number 97057

**ENTERPRISE
SPILL CLEANUP REPORT
CEDAR HILL COMPRESSOR STATION
221 ROAD 2300
SAN JUAN COUNTY, NEW MEXICO**

TABLE OF CONTENTS

INTRODUCTION.....	1
ACTIVITIES PERFORMED.....	1
SUMMARY AND CONCLUSIONS	2
STATEMENT OF LIMITATIONS.....	2

Figures: Figure 1, Vicinity Map
 Figure 2, Site Map

Tables: Table 1, Summary of Analytical Results

Appendices: Appendix A, Analytical Results
 Appendix B, Site Photography
 Appendix C, Bills of Lading

INTRODUCTION

Envirotech, Inc. of Farmington, New Mexico, was contracted by Enterprise Products to provide spill cleanup activities for a release of glycol resulting from a fire at the Cedar Hill Compressor Station located at 221 Road 2300 in San Juan County, New Mexico; see **Figure 1, Vicinity Map**. The glycol contained in the unit was released and ran approximately 35 feet down a hillside to the north of the release source and branched out into two (2) smaller areas that lead to a wash; see enclosed **Figure 2, Site Map** and **Appendix B, Site Photography**. Activities included excavation, sample collection and analysis, contaminated soil disposal, documentation and reporting.

ACTIVITIES PERFORMED

Envirotech, Inc. was contacted on May 22, 2013, with a request to respond to a release of glycol that resulted from a fire that occurred at the Cedar Hill Compressor Station. Visual staining was observed along the north side of the release area; see enclosed **Figure 2, Site Map**. Visual staining was also observed on the gravel driveway, next to the blow-down relief stack to the southeast of the release area. Envirotech transported one (1) truck load of clean gravel to the Cedar Hill Compressor Station and staged it on site for backfill material at a later time.

The two (2) areas north of the fence (the smaller, western excavation and the larger, eastern excavation) were the first areas to be excavated. Both areas were excavated to the depth of approximately one (1) foot; see enclosed **Figure 2, Site Map**. All visual staining was removed through the use of hand shovels because the area was inaccessible for a backhoe. One (1) five (5)-point composite sample was collected from each of the two (2) impacted areas north of the fence; see enclosed **Figure 2, Site Map** for locations. Both samples were analyzed in the field for organic vapor using a photoionization detector (PID). The smaller, western excavation returned a result of 2.4 parts per million (ppm) organic vapor and the larger, eastern excavation returned a result of 0.6 ppm organic vapor; see enclosed **Table 1, Summary of Analytical Results**.

A backhoe was then utilized to remove the glycol visually impacted soil between the release area and the fence to the north; see enclosed **Figure 2, Site Map** for location. The area was excavated to the depth of approximately three (3) feet; see enclosed **Figure 2, Site Map**. Envirotech, Inc. transported approximately 33 cubic yards of contaminated soil to the Bondad Landfill for disposal; see enclosed **Appendix C, Bills of Lading**.

One (1) five (5)-point composite sample was collected from the stockpile of contaminated soil; see enclosed **Figure 2, Site Map**. The sample was analyzed in the field for Total Petroleum Hydrocarbons (TPH) using USEPA Method 418.1 and for organic vapor using a PID. The sample returned a result of 220 ppm TPH and 0.4 ppm organic vapor; see enclosed **Appendix A, Analytical Results**. One (1) five (5)-point composite sample was collected from the bottom of the excavation. The sample was analyzed in the field for TPH using USEPA Method 418.1 and

for organic vapor using a PID. The sample returned a result of 188 ppm TPH and 0.3 ppm organic vapor; see enclosed ***Appendix A, Analytical Results***.

Envirotech personnel returned to the Cedar Hill Compressor Station on May 23, 2013, with approximately 33 cubic yards of clean-fill soil, to continue cleanup activities. With the use of hand shovels and a backhoe, the excavated area was backfilled with clean soil and restored to pre-incident conditions; see enclosed ***Appendix B, Site Photography***. The gravel driveway, next to the blow-down relief stack to the southeast of the release area, at the Cedar Hill Compressor Station was visually contaminated. A backhoe was utilized to remove all of the visually contaminated gravel. The driveway was backfilled with clean gravel and distributed evenly, returning the gravel driveway to pre-incident conditions; see enclosed ***Appendix B, Site Photography***.

Approximately 33 cubic yards of glycol contaminated soil and gravel were transported to the Bondad landfill, New Mexico; see ***Appendix C, Bills of Lading***.

SUMMARY AND CONCLUSIONS

Spill cleanup activities were performed for a release of glycol resulting from a fire at the Cedar Hill Compressor Station, San Juan County, New Mexico. Approximately 33 cubic yards of glycol contaminated soil and gravel were transported to the Bondad landfill. The site was re-contoured to pre-incident conditions. Envirotech, Inc. recommends no further action in regards to this incident.

STATEMENT OF LIMITATIONS

Envirotech, Inc. has completed spill cleanup activities for a release of glycol resulting from a fire at the Cedar Hill Compressor Station located at 221 Road 2300 in San Juan County, New Mexico. The work and services provided by Envirotech, Inc. were in accordance with the New Mexico Oil Conservation Division standards. All observations and conclusions provided here are based on the information and current site conditions found at the site of the incident.

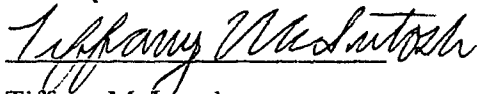
The undersigned has conducted this service at the above referenced site; this work has been conducted and reported in accordance with generally accepted professional practices in geology, engineering, environmental chemistry and hydrogeology.

We appreciate the opportunity to be of service. If you have any questions or require additional information, please contact our office at (505) 632-0615.

Respectfully Submitted,

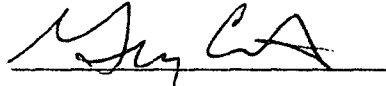
Reviewed by:

ENVIROTECH, INC.



Tiffany McIntosh
Staff Scientist

tmcintosh@envirotech-inc.com



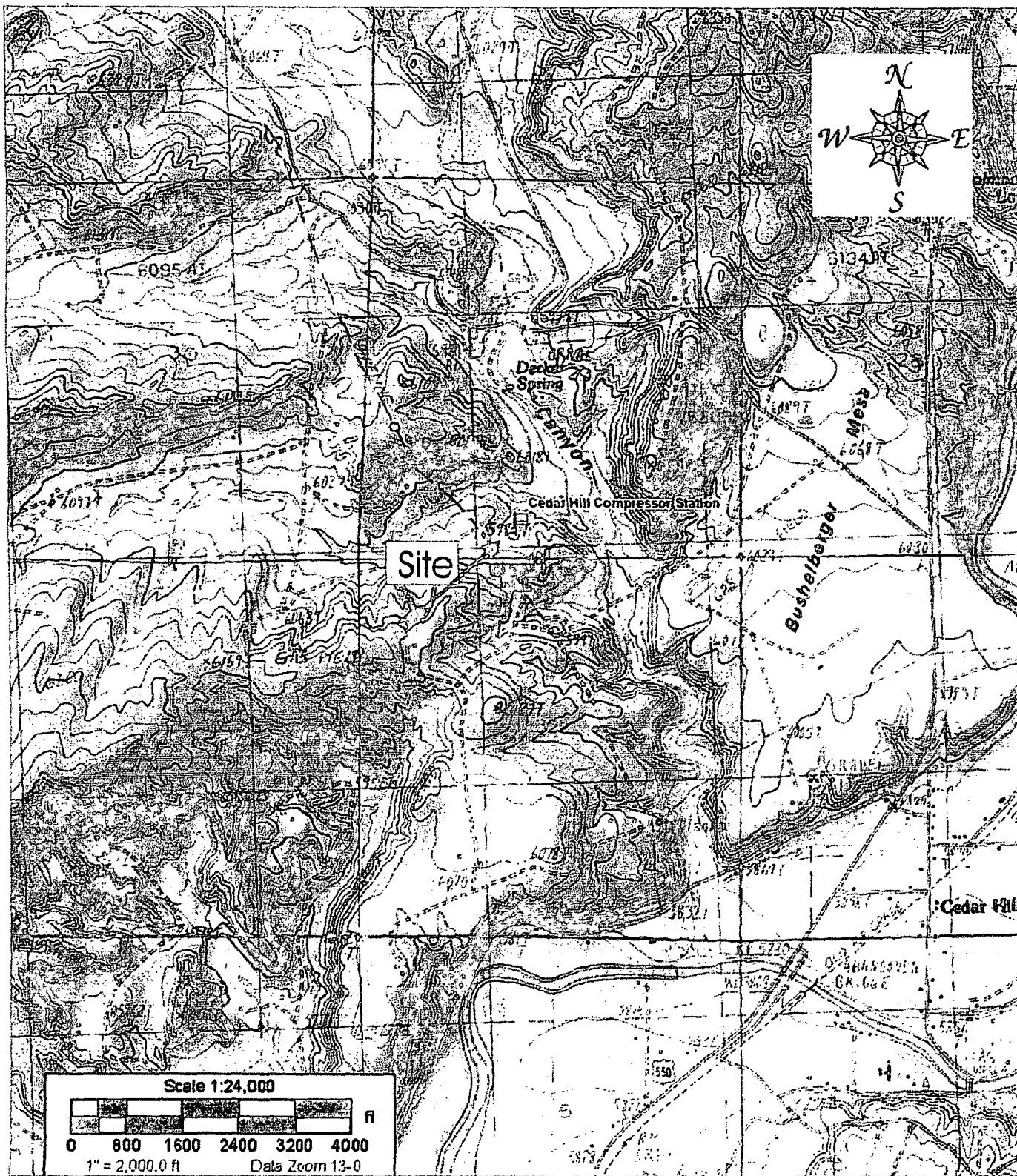
Greg Crabtree, PE
Environmental Manager

gcrabtree@envirotech-inc.com

FIGURES

Figure 1, Vicinity Map

Figure 2, Site Map



Source: 7.5 Minute Cedar Hill, New Mexico U.S.G.S. Topographic Quadrangle Map
 Scale: 1:24,000 1" = 2000'

Enterprise Products
 Cedar Hill Compressor Station
 San Juan County, New Mexico

envirotech
 ENVIRONMENTAL SCIENTISTS & ENGINEERS

Vicinity Map

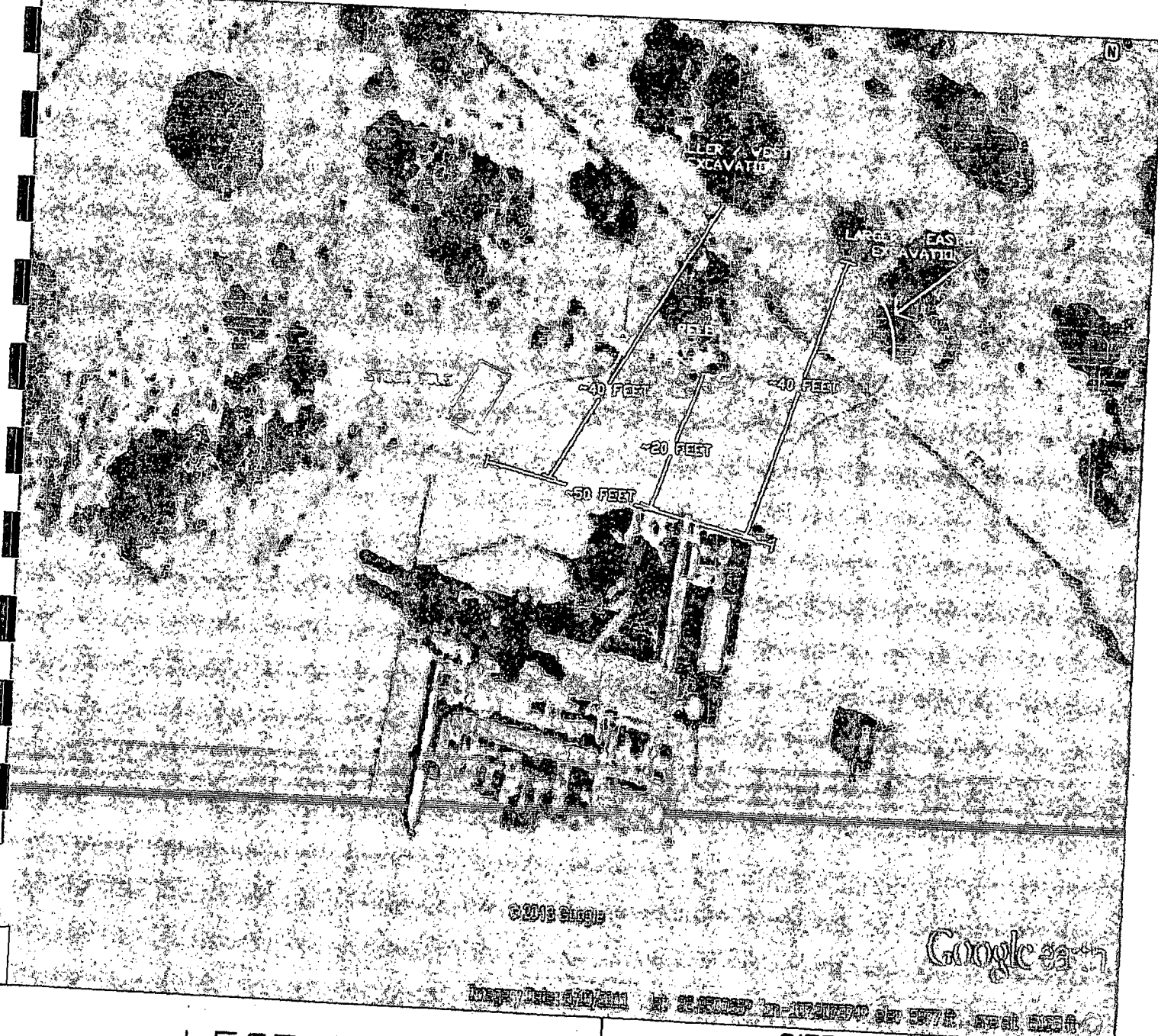
Figure #1

PROJECT Number: 97057-0562 Date Drawn: 5/28/13

5796 U.S. HIGHWAY 64
 Farmington, New Mexico 87401
 505.632.0615

DRAWN BY:
 Tiffany McIntosh

PROJECT MANAGER:
 Greg Crabtree



LEGEND

X SAMPLE LOCATION

○ RELEASE PATH

SITE MAP Enterprise

Cedar Hill Compressor Station
SAN JUAN COUNTY, NEW MEXICO

SCALE: NTS

PROJECT NO97057-0562

FIGURE NO. 2

REV

REVISIONS

NO. DATE BY

DESCRIPTION

MAP DRWN TLM

5/29/13

BASE DRWN TLM

2/25/13



envirotech

5796 U.S. HIGHWAY 64, FARMINGTON, NM 87401 505-632-0615

TABLES

Table 1, Summary of Analytical Results

Table 1, Summary of Analytical Results
 Enterprise
 Cedar Hill Compressor Station
 Spill Cleanup Report
 San Juan County, New Mexico
 Project Number 97057-0562

Sample Description	Sample Number	Date	TPH 418.1 (ppm)	OVM (ppm)
NMOCB/RCRA Standards	NA	NA	NA	NA
Smaller / Western Excavation (5-Point)	1	5/22/2013	NS	2.4
Larger / Eastern Excavation (5-Point)	2	5/22/2013	NS	0.6
Stock Pile Composite (5-Point)	3	5/22/2013	220	0.4
Excavation Composite (5-Point)	4	5/22/2013	188	0.3

NS = Not Sampled

ND = Non-Detect at Stated Method's Detection Limit

* Values in **BOLD** above regulatory standards

APPENDIX A

Analytical Results

Client:	Enterprise	Project #:	97057-0562
Sample No.:	1	Date Reported:	5/28/2013
Sample ID:	Stock Pile Composite	Date Sampled:	5/22/2013
Sample Matrix:	Soil	Date Analyzed:	5/22/2013
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		


Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	220	5.0

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: Cedar Hill Compressor Station

Instrument calibrated to 200 ppm standard and zeroed before each sample.


Analyst

Tiffany McIntosh
Printed


Review

Toni McKnight, EIT
Printed

Client:	Enterprise	Project #:	97057-0562
Sample No.:	2	Date Reported:	5/28/2013
Sample ID:	5-pt Excavation Composite	Date Sampled:	5/22/2013
Sample Matrix:	Soil	Date Analyzed:	5/22/2013
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

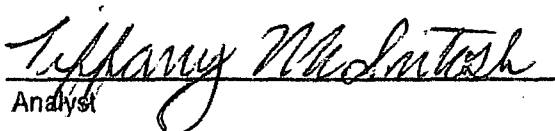
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	188	5.0

ND = Parameter not detected at the stated detection limit.

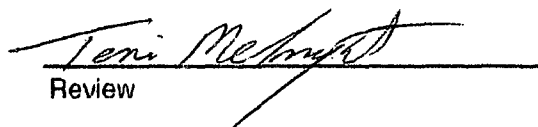
References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Cedar Hill Compressor Station**

Instrument calibrated to 200 ppm standard and zeroed before each sample.


Analyst

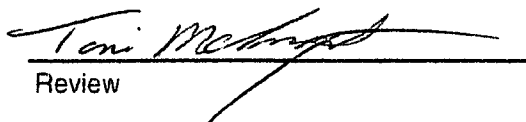
Tiffany McIntosh
Printed


Review
Toni McKnight, EIT
Printed

Cal. Date: 22-May-13

Parameter	Standard Concentration mg/L	Concentration Reading mg/L
TPH	100	200
	200	
	500	
	1000	

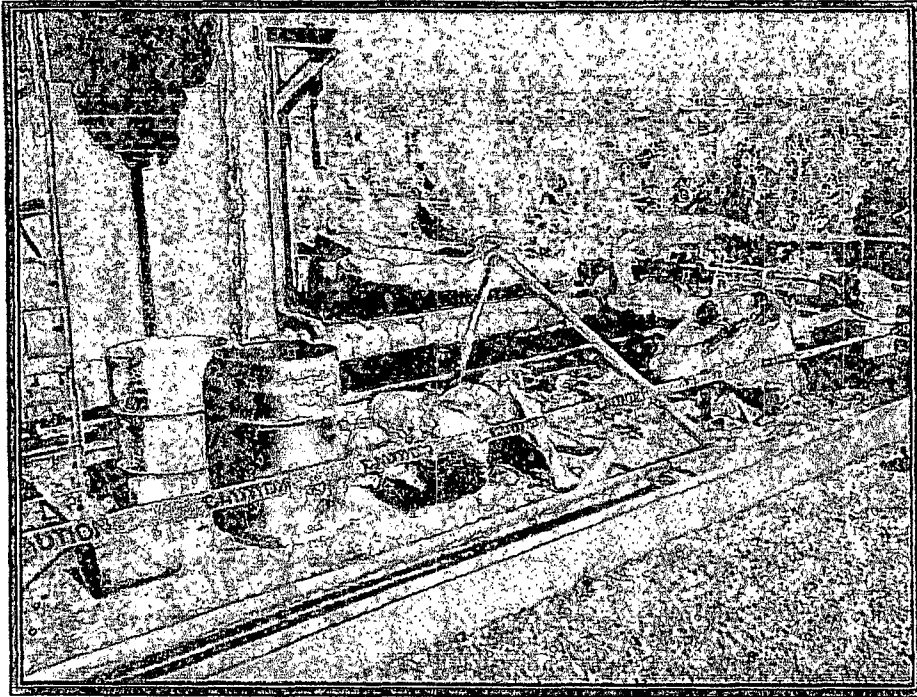
The accepted percent relative deviation (%RSD) of the calibration factor is less than 20% over the working range.


Analyst5/28/2013
DateTiffany McIntosh
Print Name
Review5/28/2013
DateToni McKnight, EIT
Print Name

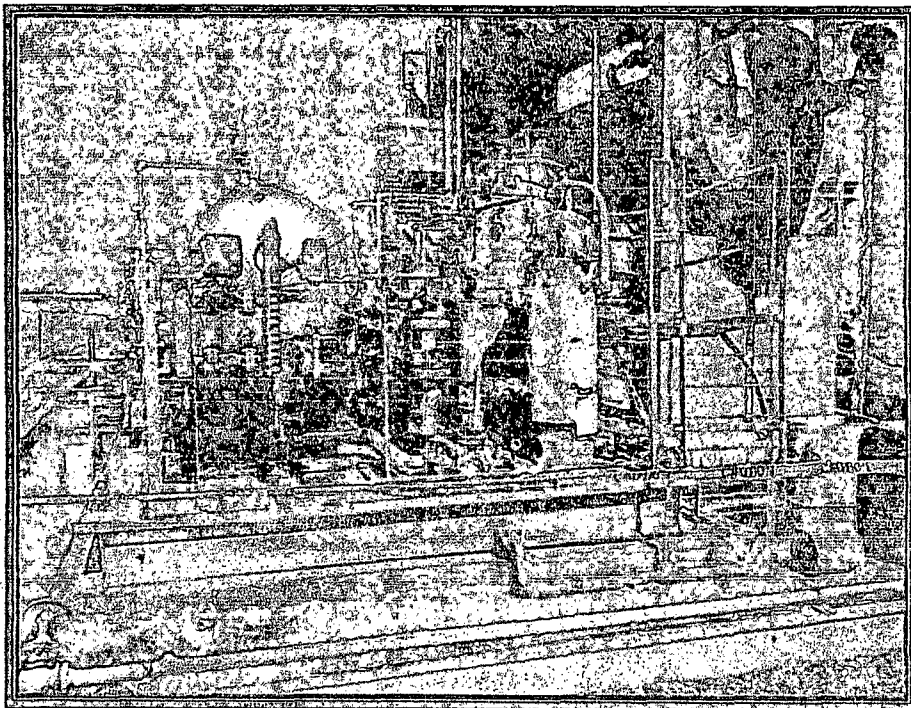
APPENDIX B

Site Photography

**SITE PHOTOGRAPHY
ENTERPRISE
SPILL CLEANUP REPORT
CEDAR HILL COMPRESSOR STATION
PROJECT NUMBER 97057-0562
MAY 2013**

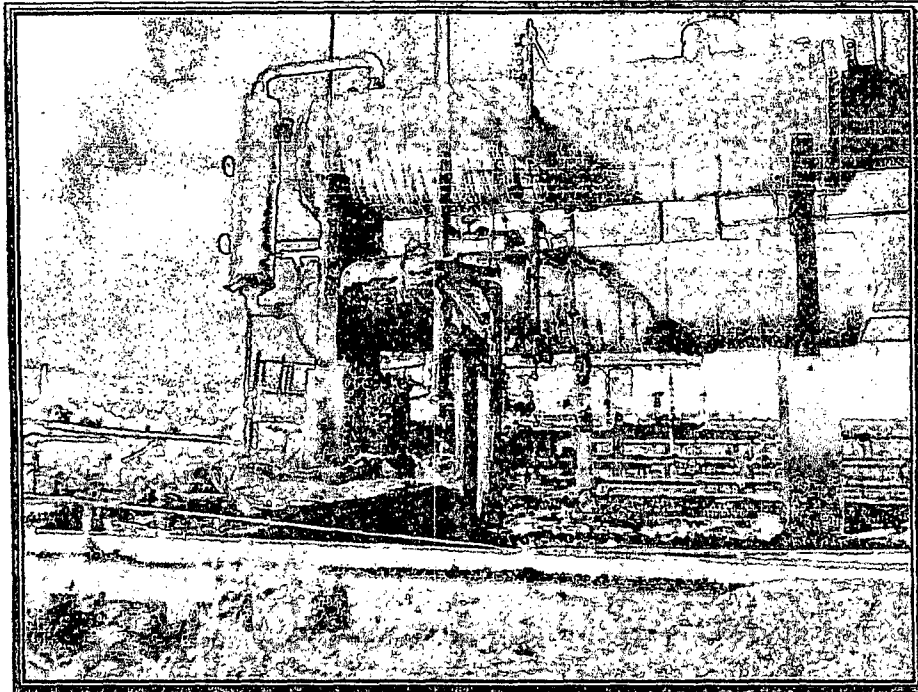


Picture 1: Release Source (View 1)

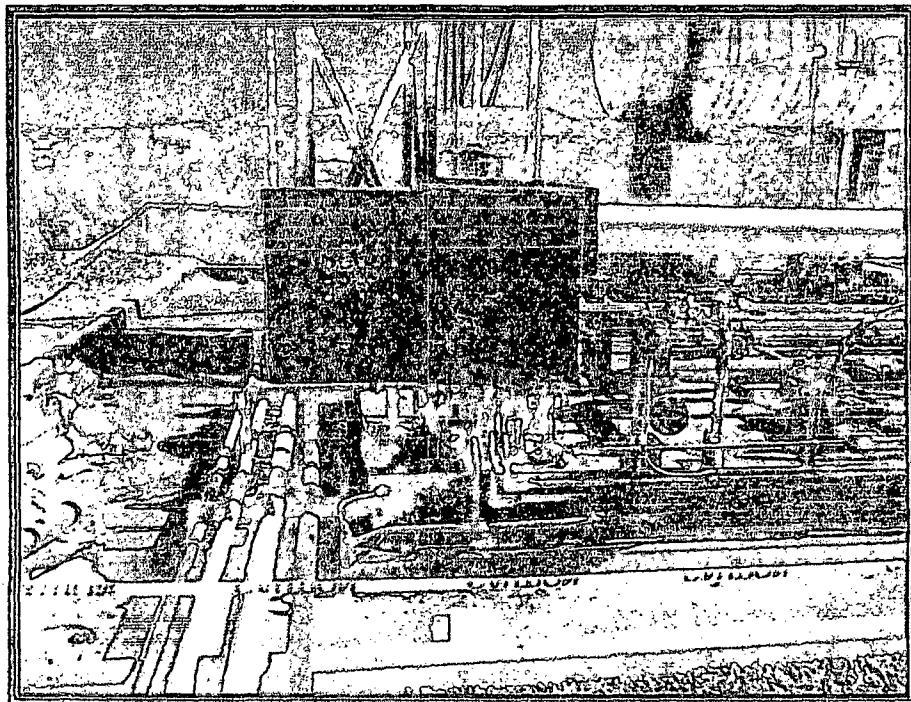


Picture 2: Release Source (View 2)

**SITE PHOTOGRAPHY
ENTERPRISE
SPILL CLEANUP REPORT
CEDAR HILL COMPRESSOR STATION
PROJECT NUMBER 97057-0562
MAY 2013**

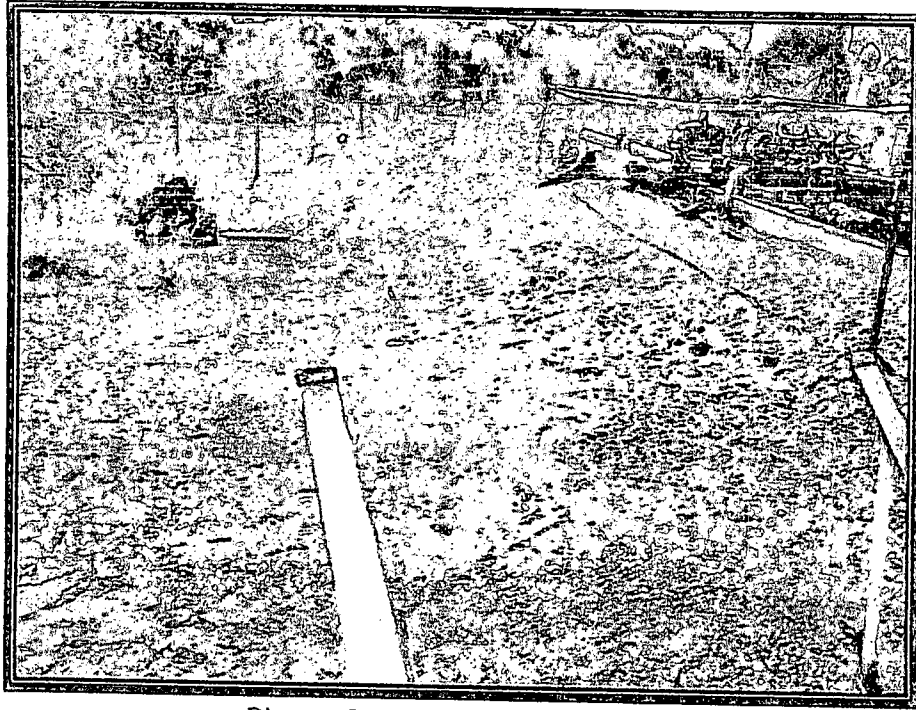


Picture 3: Release Source (View 3)

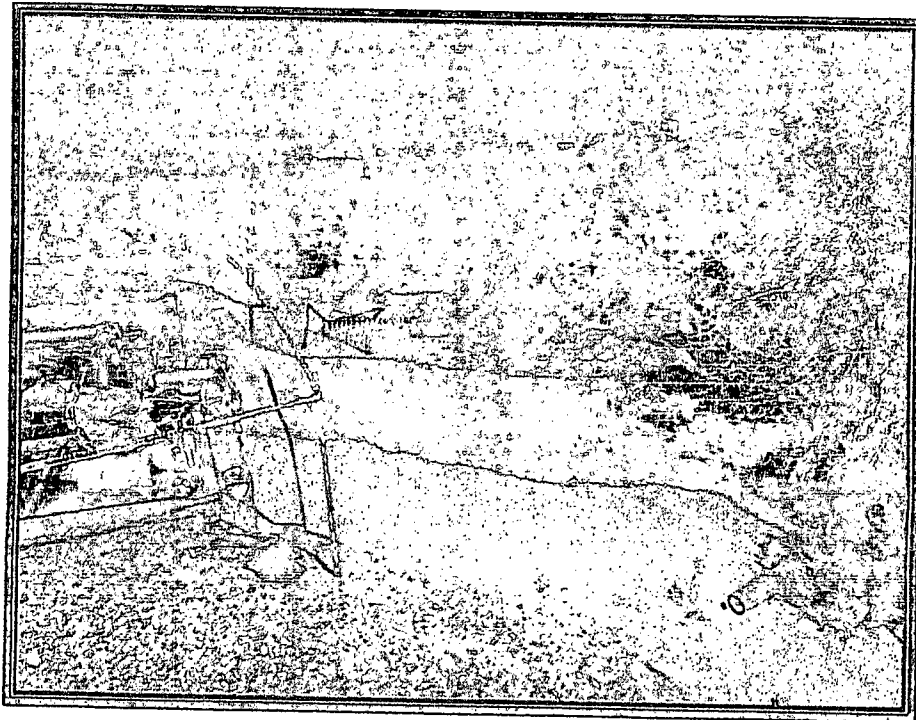


Picture 4: Release Source (View 4)

**SITE PHOTOGRAPHY
ENTERPRISE
SPILL CLEANUP REPORT
CEDAR HILL COMPRESSOR STATION
PROJECT NUMBER 97057-0562
MAY 2013**



Picture 5: Release Path (View 1)

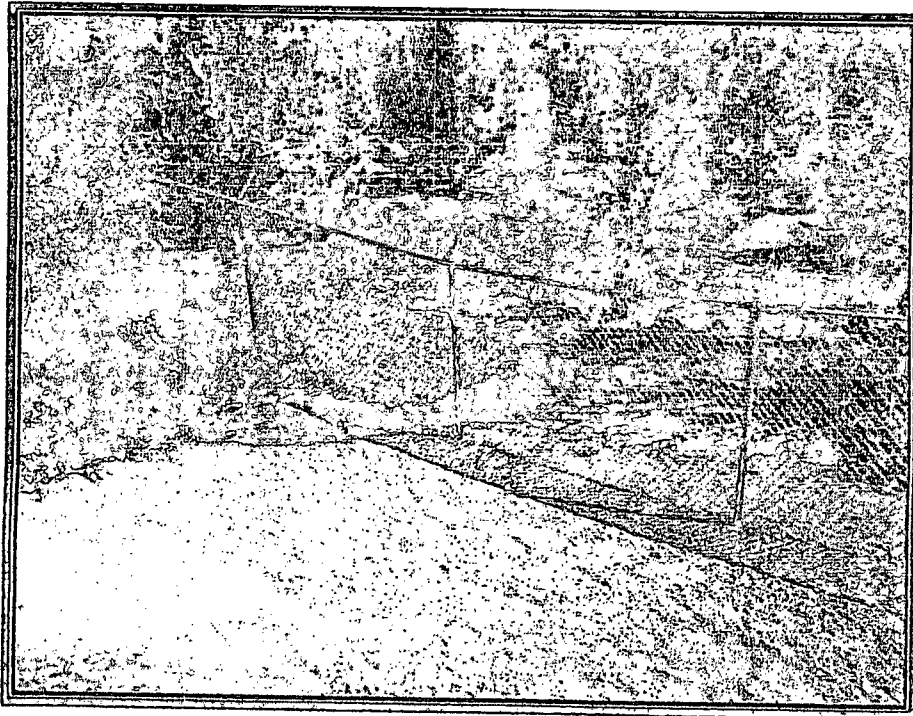


Picture 6: Release Path (View 2)

**SITE PHOTOGRAPHY
ENTERPRISE
SPILL CLEANUP REPORT
CEDAR HILL COMPRESSOR STATION
PROJECT NUMBER 97057-0562
MAY 2013**

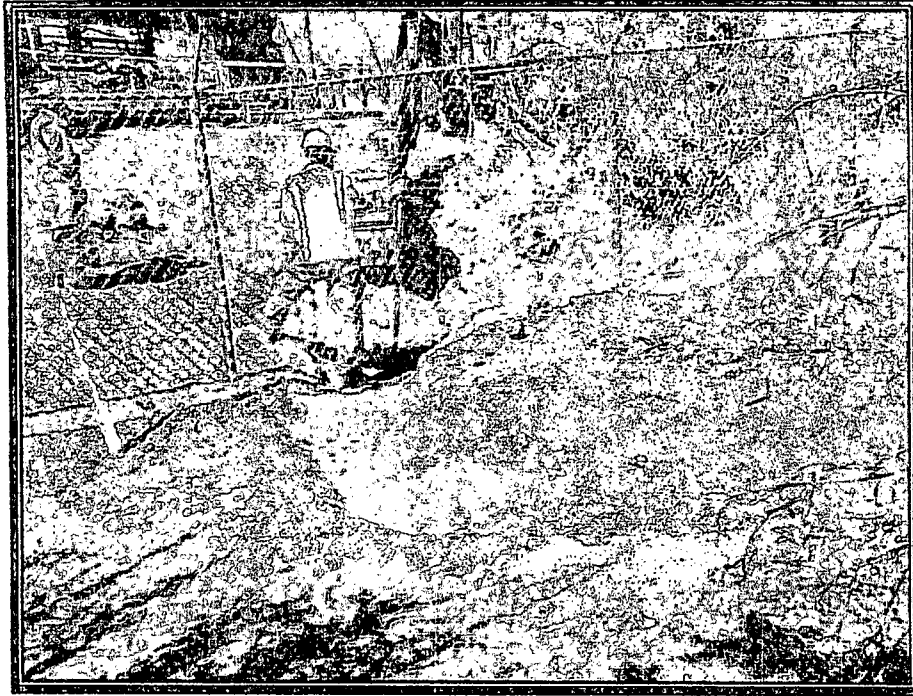


Picture 7: Release Path (View 3)

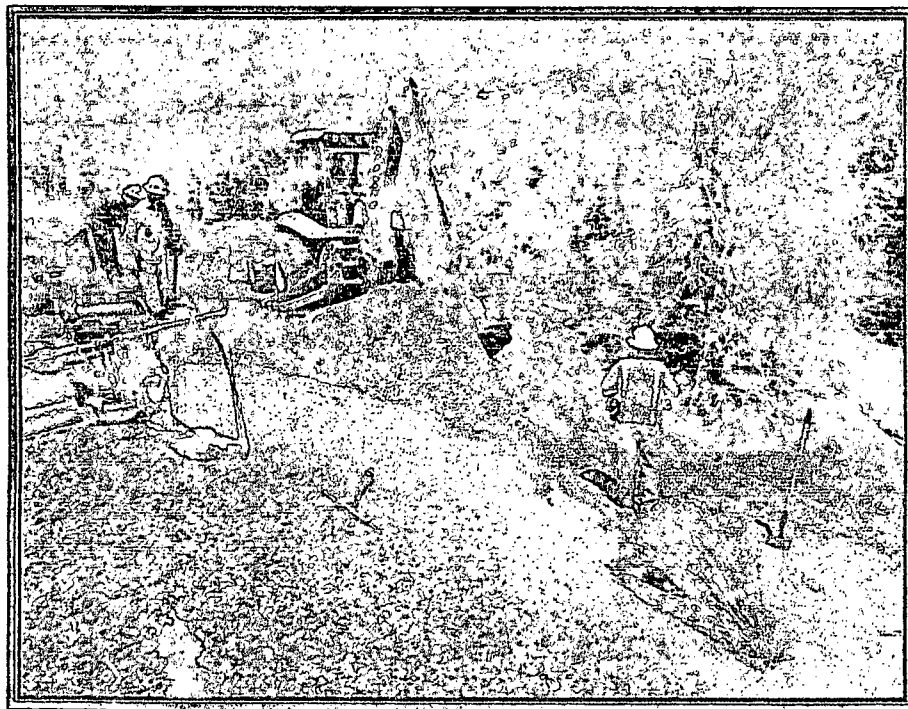


Picture 8: Release Path (View 4)

**SITE PHOTOGRAPHY
ENTERPRISE
SPILL CLEANUP REPORT
CEDAR HILL COMPRESSOR STATION
PROJECT NUMBER 97057-0562
MAY 2013**

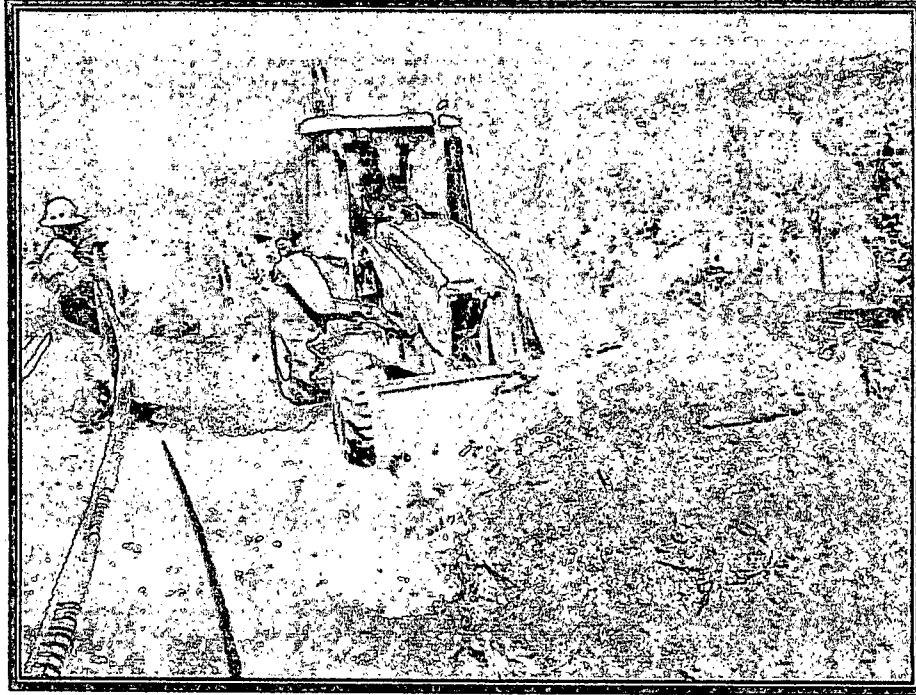


Picture 9: Cleanup Activities (View 1)

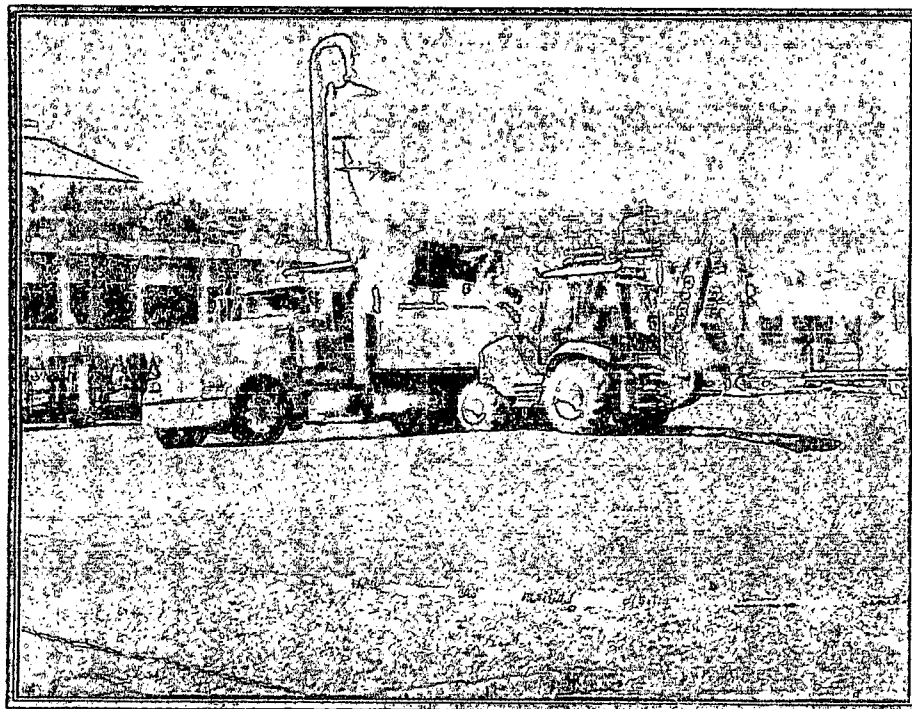


Picture 10: Cleanup Activities (View 2)

**SITE PHOTOGRAPHY
ENTERPRISE
SPILL CLEANUP REPORT
CEDAR HILL COMPRESSOR STATION
PROJECT NUMBER 97057-0562
MAY 2013**

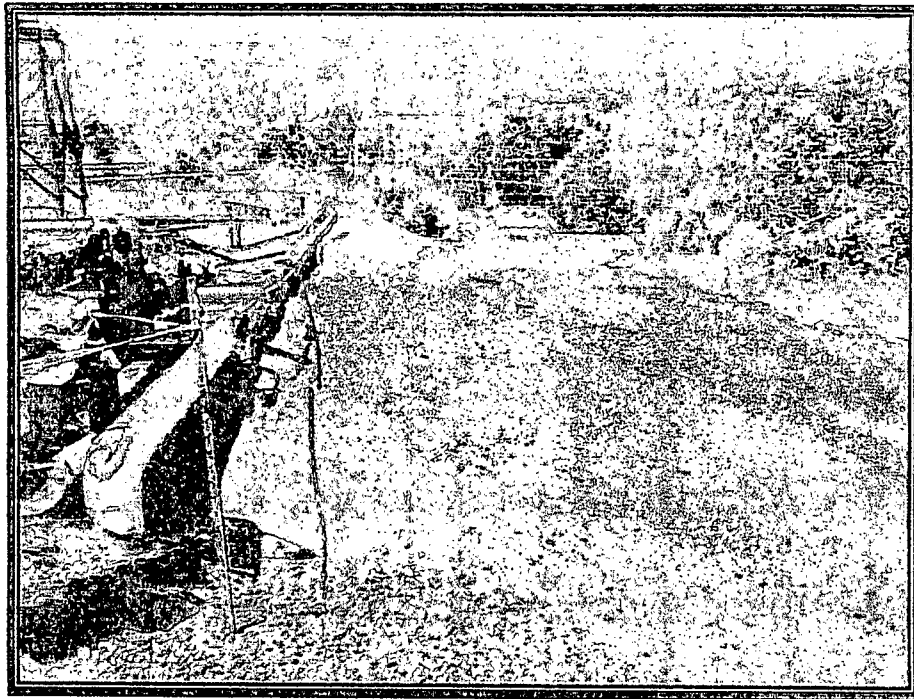


Picture 11: Cleanup Activities (View 3)

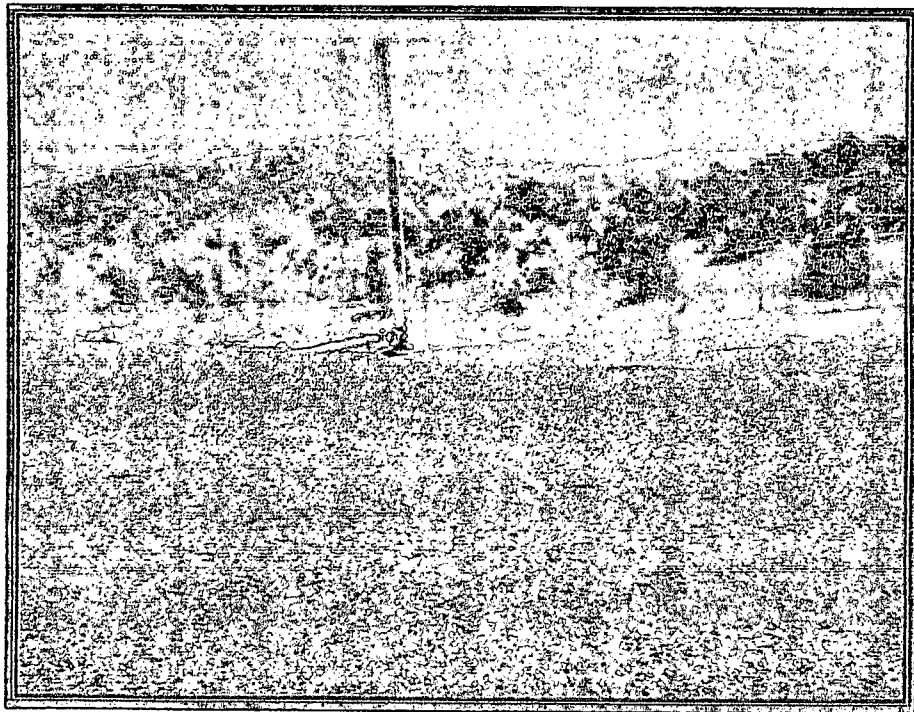


Picture 12: Cleanup Activities (View 4)

**SITE PHOTOGRAPHY
ENTERPRISE
SPILL CLEANUP REPORT
CEDAR HILL COMPRESSOR STATION
PROJECT NUMBER 97057-0562
MAY 2013**



Picture 13: Post Re-contouring (View 1)



Picture 14: Post Re-contouring (View 2)

APPENDIX C

Bills of Lading

Goldenrod - Converter Problem



UC 0894

NON-HAZARDOUS MANIFEST

GENERATOR

Generator Enterprise Products
Address 614 Reilly Avenue
Farmington, NM 87401
Phone 505-599-2286

EPA

I.D. #

Shipping Location Cedar Hill Compressor St.Address Sec 29, TWP 32N, R16E, 10W, San Juan CoPhone 505-599-2286

Description of Waste Materials	Industrial Waste Code #	Profile Number	Total Quantity	Unit of Measure	Container Type
Glycol Impacted Soil		B000236	8 Yd		

I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR, Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Aaron D. Dusey
Generator Authorized Agent Name (Print)

A.D.
Signature

Delivery Date

TRANSPORTER

Transporter Name Envirotech
5796 U.S. Hwy 64
Address Farmington, New Mexico 87401

Driver Name (Print) Kory Peine
Truck Number 658
Truck Type Kenworth W900L

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

I hereby acknowledge that the above-described materials were received from generator shipping location and were transported without incident to the destination listed below.

Thom Peine 5-22-13
Driver Signature Shipment Date

Thom Peine 5-22-13
Driver Signature Delivery Date

DESTINATION

Mailing Address

Site Name Bonded Landfill
Address P.O. Box 215
Bloomfield, NM 87413

I hereby acknowledge receipt of the above-described materials.

Paula Hicks Gate Attnd
Name of Authorized Agent (Print)

White - Original

Canary - Disposal Retain

Physical Address

Site Name Bonded Landfill
Address CR 318 • Bonded, CO 81301
Phone Number 1-970-247-8295

RC1-110579V

Signature

Receipt Date

Pink - Transporter Retain

Goldenrod - Generator Retain



UC 0894

NON-HAZARDOUS MANIFEST

GENERATOR

Generator Enterprise Products
Address 614 Reilly Avenue
Farmington NM 87401
Phone 505-599-2286

EPA

I.D. #

Shipping Location Cedar Hill compressor St.
Address Sec 29, Twp 32N, Rng 10W San Juan
Phone 505-599-2286

Description of Waste Materials	Industrial Waste Code #	Profile Number	Total Quantity	Unit of Measure	Container Type
<u>Glycol Impacted soil</u> <u>ID# 21773</u>		<u>B000236</u>	<u>10 yd</u>		

I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR, Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

ARON DALEY
Generator Authorized Agent Name (Print)

AD
Signature

Delivery Date

TRANSPORTER

Transporter Name Envirotech
Address 5796 U.S. HWY 64
Farmington, N.M. 87401

Driver Name (Print) Kory Poine
Truck Number 658
Truck Type Kenworth W900L

I hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

I hereby acknowledge that the above-described materials were received from generator shipping location and were transported without incident to the destination listed below.

Amey P 5-22-13
Driver Signature Shipment Date

Amey P 5-22-13
Driver Signature Delivery Date

DESTINATION

Mailing Address
Site Name Bonded Landfill
Address P.O. Box 216
Bloomfield, NM 87413

Physical Address
Site Name Bonded Landfill
Address CR 316 • Bonded, CO 81301
Phone Number 1-870-247-8295

I hereby acknowledge receipt of the above-described materials.

Rutha Hicks Date Att'd
Name of Authorized Agent (Print)

Rutha Hicks 5/22/13
Signature Receipt Date

White - Original

Cenry - Disposal Retain

Pink - Transporter Retain

Goldendred - Generator Retain



UC 0894

NON-HAZARDOUS MANIFEST

GENERATOR

Generator Enterprise Products
Address 614 Reilly Avenue
Farmington, N.M. 87401
Phone 505-599-2286

EPA

I.D. #

Shipping Location Cedar Hill Compressor St.
Address Sec 27, Twp P32N, Rng 10W, San Jua
County
Phone 505-599-2286

Description of Waste Materials	Industrial Waste Code #	Profile Number	Total Quantity	Unit of Measure	Container Type
<u>Glycol impacted soil</u>		<u>B000236</u>	<u>5 Yd</u>		

I hereby certify that the above-described materials are not hazardous wastes as defined by 40 CFR, Part 261 or any applicable state law or regulation, have been fully and accurately described, classified and packaged, and are in proper condition for transportation according to applicable law and regulations.

Aaron D. Dwyer
Generator Authorized Agent Name (Print)

A.D.
Signature

Delivery Date

TRANSPORTER

Transporter Name Envirotech
Address 5796 U.S. Hwy 64
Farmington, New Mexico 87401
hereby acknowledge receipt of the above-described materials for transport from the generator shipping location listed above.

Thay Piro 5-23-13
Driver Signature Shipment Date

Driver Name (Print) Kory Peine
Truck Number 658
Truck Type Kenworth w900L

I hereby acknowledge that the above-described materials were received from generator shipping location and were transported without incident to the destination listed below.

Thay Piro 5-23-13
Driver Signature Delivery Date

DESTINATION

Mailing Address
Site Name Bonded Landfill
Address P.O. Box 215
Bloomfield, NM 87413

hereby acknowledge receipt of the above-described materials

Paula Hicks
Name of Authorized Agent (Print)

White - Original

Canary - Disposer Retain

Physical Address
Site Name Bonded Landfill
Address CR 318 • Bondad, CO 81301
Phone Number 1-870-247-8295

Signature

Receipt Date

Pink - Transporter Retain

Goldenrod - Generator Retain

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 Enterprise Field Services	Contact: Aaron Dailey	
Address 614 Reilly Ave., Farmington, NM 87401	Telephone No. 505-599-2286	
Facility Name Lateral 6B-10 Condensate Tank	Facility Type: Natural gas gathering line drip tank	
Surface Owner: BLM	Mineral Owner BLM	API No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
G	24	28N	12W					San Juan

Latitude _N 36.65077_ Longitude _W 108.06145_

NATURE OF RELEASE


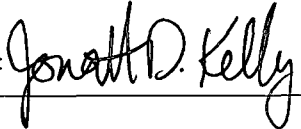
Type of Release: Natural Gas Condensate, Produced Water	Volume of Release Unknown	Volume Recovered: 290 yards contaminated soil removed from location
Source of Release: Pipeline Condensate Drip Tank	Date and Hour of Occurrence: Unknown	Date and Hour of Discovery On 5/3/2013 @ 14:00 hours hole was discovered in bottom of tank
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom? Aaron Dailey	Date and Hour	ECUD AUG 26 '13
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.* During a routine drip tank visual inspection an Enterprise technician noticed a small oil stain at the base of the tank near the man way access. Believing that the tank was leaking around the gasket of the man way, he had the tank pulled to remove all of the liquid in preparation to replace the gasket. After having the tank pulled they noticed the bottom of the tank had a hole in it. Tank was rendered out of service at that time.

Describe Area Affected and Cleanup Action Taken.* Confirmation sampling was conducted on soil; preliminary soil auger sampling showed impacts to 12 feet. Dig and haul excavation of contamination was completed on June 3, 2013. Please refer to the attached third party corrective action report for details of this cleanup.

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: Matt Marra		Approved by Environmental Specialist: 	
Title: Sr. Director, Environmental		Approval Date: 8/28/2013	Expiration Date:
E-mail Address: memarra@eprod.com		Conditions of Approval:	Attached <input type="checkbox"/>
Date: 8-20-2013 Phone: 713-381-6684			

* Attach Additional Sheets If Necessary

15K1324032776

159



Animas Environmental Services, LLC

www.animasenvironmental.com

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

Durango, Colorado
970-403-3084

July 19, 2013

Aaron Dailey
Enterprise Field Services, LLC
614 Reilly Avenue
Farmington, New Mexico 87401

Via electronic mail to: amdailey@eprod.com

**RE: Initial Release Assessment and Final Excavation Report
Lateral 6B-10 Condensate Drip Tank Release
SW¼ NE¼, Section 24, T28N, R12W
San Juan County, New Mexico**

RCVD AUG 26 '13
OIL CONS. DIV.
DIST. 3

Dear Mr. Dailey:

On May 8 and June 3, 2013, Animas Environmental Services, LLC (AES) completed an assessment associated with a release of an unknown volume of produced water and natural gas condensate from the Enterprise Field Services, LLC (Enterprise) Lateral 6B-10 condensate drip tank. The release, which is located approximately 3.5 miles southwest of Bloomfield, San Juan County, New Mexico, resulted from a corrosion hole in the bottom of the condensate tank.

1.0 Site Information

1.1 Location

Location - SW¼ NE¼, Section 24, T28N, R12W, San Juan County, New Mexico

Latitude/Longitude - N36.65084 and W108.06148, respectively

Surface Owner – Bureau of Land Management (BLM)

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map

1.2 NMOCD Ranking

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

- **Depth to Groundwater:** Based on a cathodic protection report for the Gallegos Canyon Unit #424E well, located approximately 2,700 feet to the southwest of

- the release location, depth to groundwater is greater than 100 feet below ground surface (bgs). (0 points)
- **Wellhead Protection Area:** The release location is not within a wellhead protection area. (0 points)
 - **Distance to Surface Water Body:** Two tributary ephemeral washes are located approximately 35 feet to the east and 65 feet to the northwest of the release location and drain to the wash in Horn Canyon. (20 points)

1.3 Assessment and Mitigation

On May 8, 2013, Heather Woods and Jesse Christopherson of AES completed the initial release assessment field work. The assessment included the collection of 26 soil samples from seven borings (SB-1 through SB-7) in the release area. Soil boring SB-1 was terminated at approximately 12 feet bgs, and soil borings SB-2 through SB-7 were terminated at approximately 4 feet bgs. Sample locations are included on Figure 3.

On June 3, 2013, AES returned to the location to collect confirmation soil samples from the excavation. Field screening activities included the collection of seven confirmation soil samples (SC-1 through SC-7) from the walls and base of the excavation. The area of final excavation was approximately 20 feet by 36 feet by 9 to 12 feet in depth. Sample locations and final excavation extents are shown on Figure 4.

2.0 Soil Sampling

A total of 26 soil samples were collected from 7 soil borings (SB-1 through SB-7), and 7 composite samples (SC-1 through SC-7) 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 samples (SB-1 and SB-3) collected during the initial assessment and two samples (SC-1 and SC-5) from the final excavation were submitted for confirmation 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

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. Soil samples were laboratory analyzed for:

- Benzene, toluene, ethylbenzene, and xylene (BTEX) per U.S. Environmental Protection Agency (USEPA) Method 8021B.

Samples SB-1, SB-3, and SC-1 were also laboratory analyzed for:

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

2.3 Field Screening and Laboratory Analytical Results

On May 8, 2013, initial assessment field screening results for VOCs via OVM showed concentrations ranging from 1.2 ppm in SB-7 to 4,045 ppm in SB-3. Field TPH concentrations ranged from less than 20 mg/kg in SB-2 to greater than 10,000 mg/kg in SB-1.

On June 3, 2013, final excavation field screening results for VOCs via OVM showed concentrations ranging from 1.3 ppm in SC-7 to 603 ppm in SC-5. Field TPH concentrations ranged from 52.8 mg/kg in SC-3 to 103 mg/kg in SC-1. Results are included below in Table 1 and on Figures 3 and 4. The AES Field Screening Reports are attached.

Table 1. Field Screening VOCs and TPH Results
Lateral 6B-10 Condensate Drip Tank Release Assessment and Final Excavation
May and June 2013

Sample ID	Date Sampled	Sample Depth (ft bgs)	VOCs via OVM (ppm)	Field TPH (mg/kg)
		<i>NMOCD Action Level*</i>	100	100
SB-1	5/8/13	Surface	2,378	>10,000
		1	1,520	NA
		2	765	NA
		4	309	NA
		6	2,498	NA
		8	358	195
		10	2,640	NA
		12	2,009	>2,500
SB-2	5/8/13	Surface	17.1	NA
		2	120	<20.0
		4	13.9	NA
SB-3	5/8/13	Surface	4,045	>2,500
		2	3,556	NA
		4	351	161
SB-4	5/8/13	Surface	15.3	NA
		2	13.1	NA
		4	12.4	NA
SB-5	5/8/13	Surface	6.9	NA
		2	7.5	NA
		4	7.3	NA
SB-6	5/8/13	Surface	4.3	NA
		2	3.4	NA
		4	4.8	NA
SB-7	5/8/13	Surface	1.2	NA
		2	2.2	NA
		4	1.3	NA

Sample ID	Date Sampled	Sample Depth (ft bgs)	VOCs via OVM (ppm)	Field TPH (mg/kg)
NMOCD Action Level*			100	100
SC-1	6/3/13	9	107	103
SC-2	6/3/13	3 to 9	13.4	84.9
SC-3	6/3/13	3 to 9	65.6	52.8
SC-4	6/3/13	12	8.6	59.0
SC-5	6/3/13	9	603	82.5
SC-6	6/3/13	3 to 12	33.3	72.6
SC-7	6/3/13	3 to 12	1.3	88.6

NA – not analyzed

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

Laboratory analytical results for SB-1, SB-3, SC-1, and SC-5 were used to confirm field screening results during the initial assessment and excavation activities. In all four samples, benzene and total BTEX concentrations were reported below laboratory detection limits, except for SB-1 with a total BTEX concentration of 12.8 mg/kg. TPH concentrations as GRO/DRO were reported in SB-1 (530 mg/kg), SB-3 (34 mg/kg), and below the laboratory detection limit of 15 mg/kg in SC-1. Results are presented in Table 2 and on Figures 3 and 4. Laboratory analytical reports are attached.

Table 2. Laboratory Analytical Results – Benzene, Total BTEX, and TPH
Lateral 6B-10 Condensate Drip Tank Release Assessment and Final Excavation
May and June, 2013

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-1	5/8/13	12	<0.25	12.8	210	320
SB-3	5/8/13	4	<0.049	<0.244	5.0	29
SC-1	6/3/13	9	<0.050	<0.25	<5.0	<10
SC-5	6/3/13	9	<0.050	<0.25	NA	NA

NA – not analyzed

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

3.0 Conclusions and Recommendations

On May 8, 2013, AES conducted an initial assessment of produced water and condensate contaminated soils associated with a release at the Lateral 6B-10 condensate drip tank location. Action levels for releases are determined by the NMOCD ranking score per *NMOCD Guidelines for Leaks, Spills, and Releases* (August 1993), and the site was assigned a rank of 20. Field screening results above the NMOCD action level of 100 ppm VOCs were reported in SB-1 through SB-3, with the highest VOC concentration reported in SB-3 (4,045 ppm). Field screening results also showed TPH concentrations above the NMOCD action level of 100 mg/kg in SB-1 through SB-3. The highest field TPH concentration was reported in SB-1 with greater than 10,000 mg/kg. Laboratory analytical results from May 8, 2013, reported benzene and total BTEX concentrations in SB-1 and SB-3 below applicable NMOCD action levels. Laboratory analytical results for TPH as GRO/DRO were also reported below the applicable NMOCD action level of 100 mg/kg in SB-3, but exceeded 100 mg/kg in SB-1 (530 mg/kg).

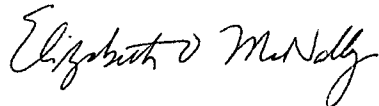
On June 3, 2013, final clearance of the excavation area was completed. Field screening results of the excavation extents showed that VOC concentrations were below the NMOCD action level for the final four walls and base of the excavation, except for SC-1 (south base) with 107 ppm and SC-5 (west half of north base) with 603 ppm. Field TPH concentrations below the NMOCD action level of 100 mg/kg were also reported for the final four walls and base of the excavation, except for in SC-1 (south base) with 103 mg/kg. Laboratory analytical results from June 3, 2013, reported benzene and total BTEX concentrations in SC-1 and SC-5 below NMOCD action levels. Laboratory analytical results for TPH as GRO/DRO were also reported below the applicable NMOCD action level of 100 mg/kg in SC-1.

Based on the excavation of contaminated soils, field screening, and laboratory analytical results for VOCs, TPH, benzene, and total BTEX, no further work is recommended. If you have any questions about this report or site conditions, please do not hesitate to contact me or Ross Kennemer at (505) 564-2281.

Sincerely,



Heather M. Woods
Staff Geologist



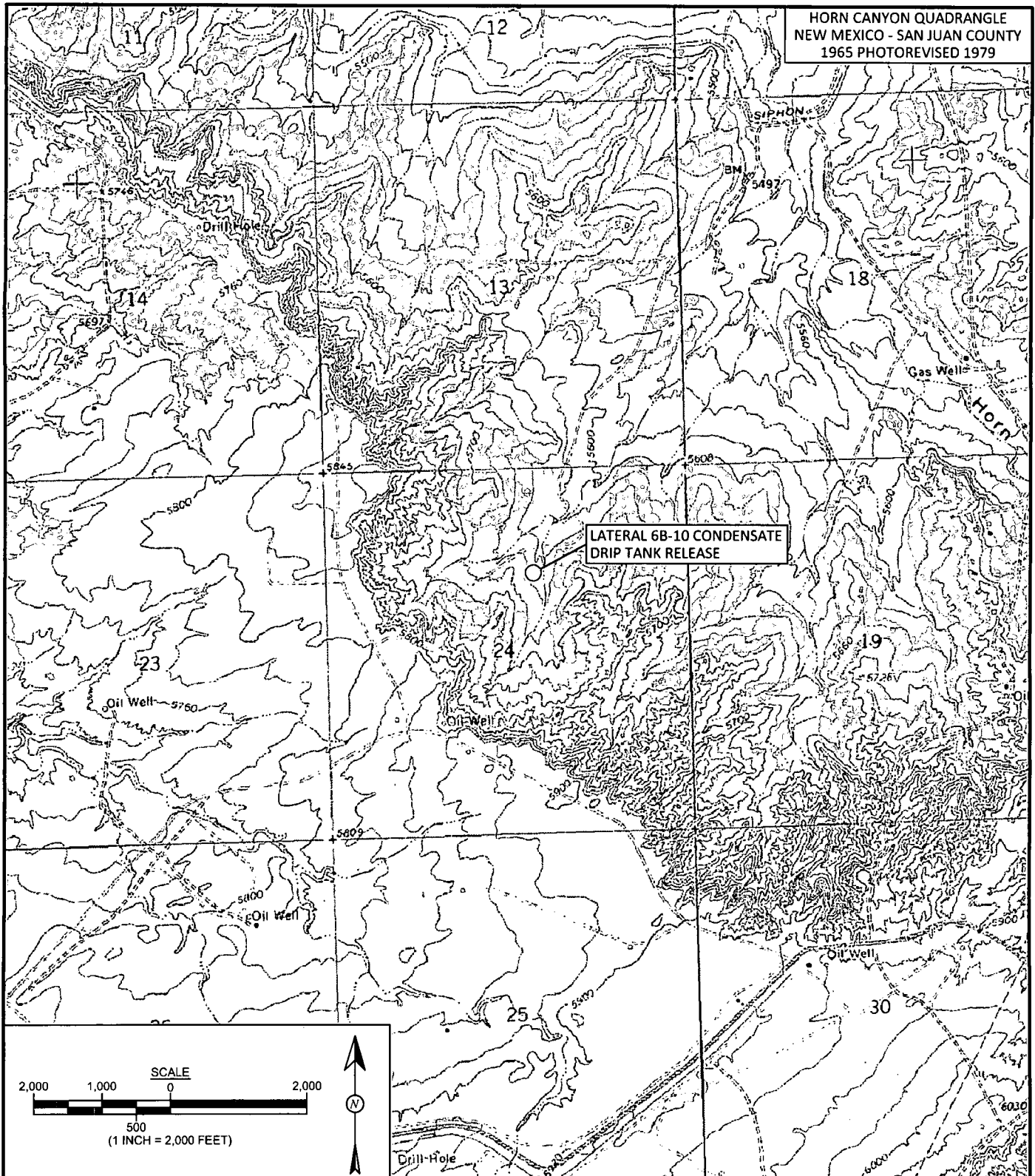
Elizabeth McNally, P.E.

Attachments:

- Figure 1. Topographic Site Location Map
- Figure 2. Aerial Site Map
- Figure 3. Release Assessment Sample Locations and Results, May 2013
- Figure 4. Final Excavation Sample Locations and Results, June 2013
- AES Field Screening Reports 050813 and 060313
- Laboratory Analytical Reports 1305366 and 1306076

R:\Animas 2000\Dropbox\2013 Projects\Enterprise\Tank 6B-10\Lateral 6B-10 Condensate Drip Tank
Initial Release Assessment and Final Excavation Report 071913.docx

HORN CANYON QUADRANGLE
NEW MEXICO - SAN JUAN COUNTY
1965 PHOTOREVISED 1979



AES



Animas Environmental Services, LLC

DRAWN BY:
C. Lameman

DATE DRAWN:
May 9, 2013

REVISIONS BY:
C. Lameman

DATE REVISED:
May 9, 2013

CHECKED BY:
T. Ross

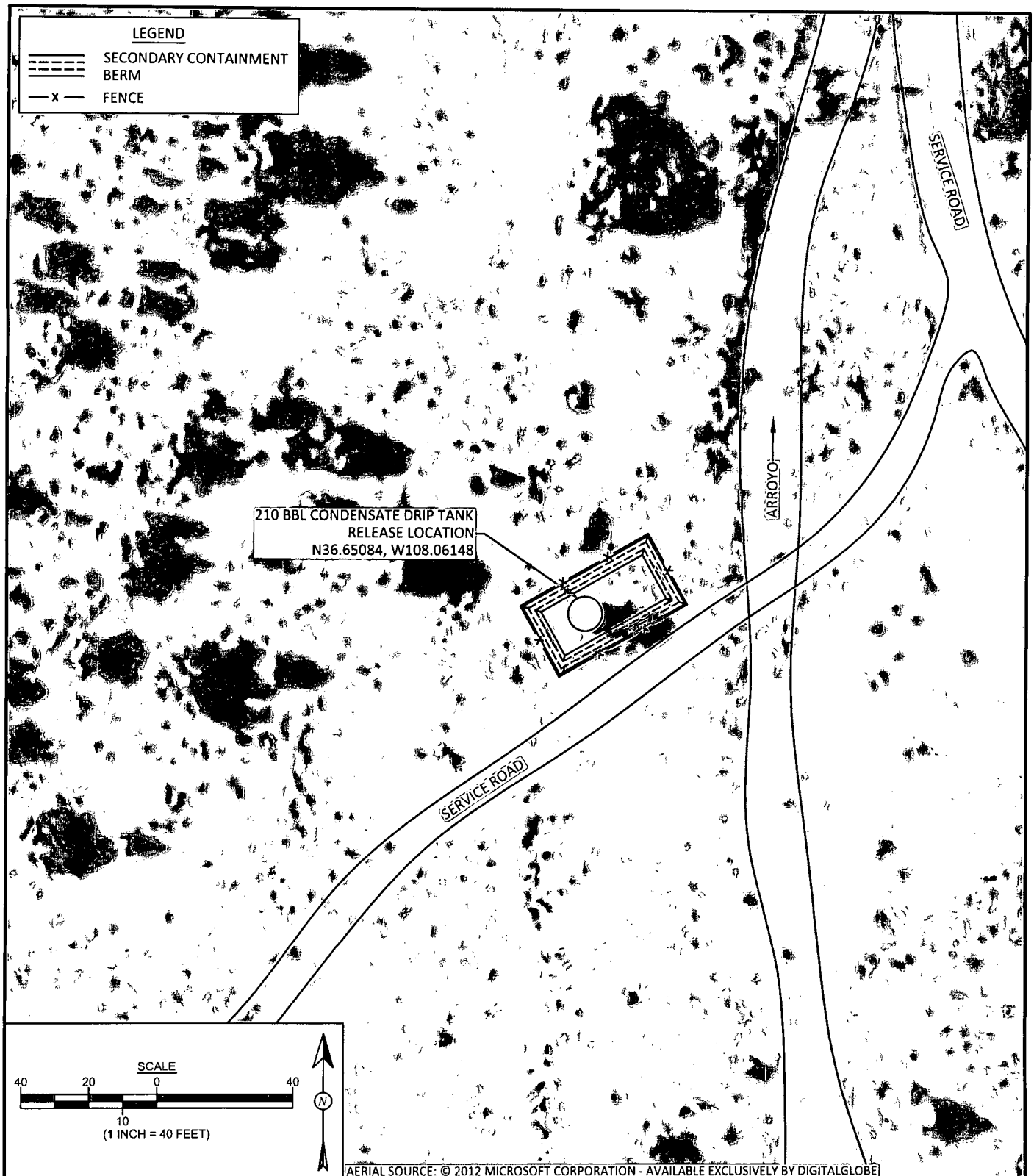
DATE CHECKED:
May 9, 2013


APPROVED BY:
E. McNally

DATE APPROVED:
May 9, 2013

FIGURE 1

TOPOGRAPHIC SITE LOCATION MAP
ENTERPRISE FIELD SERVICES, LLC
LATERAL 6B-10 CONDENSATE DRIP TANK
MAY 2013 RELEASE
SW¼ NE¼, SECTION 24, T28N R12W
SAN JUAN COUNTY, NEW MEXICO
N36.65084, W108.06148



 <p>Animas Environmental Services, LLC</p>	DRAWN BY: C. Lameman	DATE DRAWN: May 9, 2013	<p>FIGURE 2</p> <p>AERIAL SITE MAP ENTERPRISE FIELD SERVICES, LLC LATERAL 6B-10 CONDENSATE DRIP TANK MAY 2013 RELEASE SW¼ NE¼, SECTION 24, T28N R12W SAN JUAN COUNTY, NEW MEXICO N36.65084, W108.06148</p>
	REVISIONS BY: C. Lameman	DATE REVISED: May 9, 2013	
	CHECKED BY: T. Ross	DATE CHECKED: May 9, 2013	
	APPROVED BY: E. McNally	DATE APPROVED: May 9, 2013	

Field Screening Results				
Sample ID	Date	Depth (ft)	OVM-PID (ppm)	TPH (mg/kg)
NMOCD ACTION LEVEL			100	100
SB-1	5/8/13	Surface	2,378	>10,000
		1	1,520	NA
		2	765	NA
		4	309	NA
		6	2,498	NA
		8	358	195
		10	2,640	NA
		12	2,009	>2,500
SB-2	5/8/13	Surface	17.1	NA
		2	120	<20.0
		4	13.9	NA
SB-3	5/8/13	Surface	4,045	>2,500
		2	3,556	NA
		4	351	161
SB-4	5/8/13	Surface	15.3	NA
		2	13.1	NA
		4	12.4	NA
SB-5	5/8/13	Surface	6.9	NA
		2	7.5	NA
		4	7.3	NA
SB-6	5/8/13	Surface	4.3	NA
		2	3.4	NA
		4	4.8	NA
SB-7	5/8/13	Surface	1.2	NA
		2	2.2	NA
		4	1.3	NA
NA - NOT ANALYZED				

Laboratory Analytical Results						
Sample ID	Date	Depth (ft)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH - GRO (mg/kg)	TPH - DRO (mg/kg)
NMOCD ACTION LEVEL			10	50	100	
SB-1	5/8/13	12	<0.25	12.8	210	320
SB-3	5/8/13	4	<0.049	<0.244	5.0	29
ALL SAMPLES WERE ANALYZED PER EPA METHOD 8021B AND 8015D.						

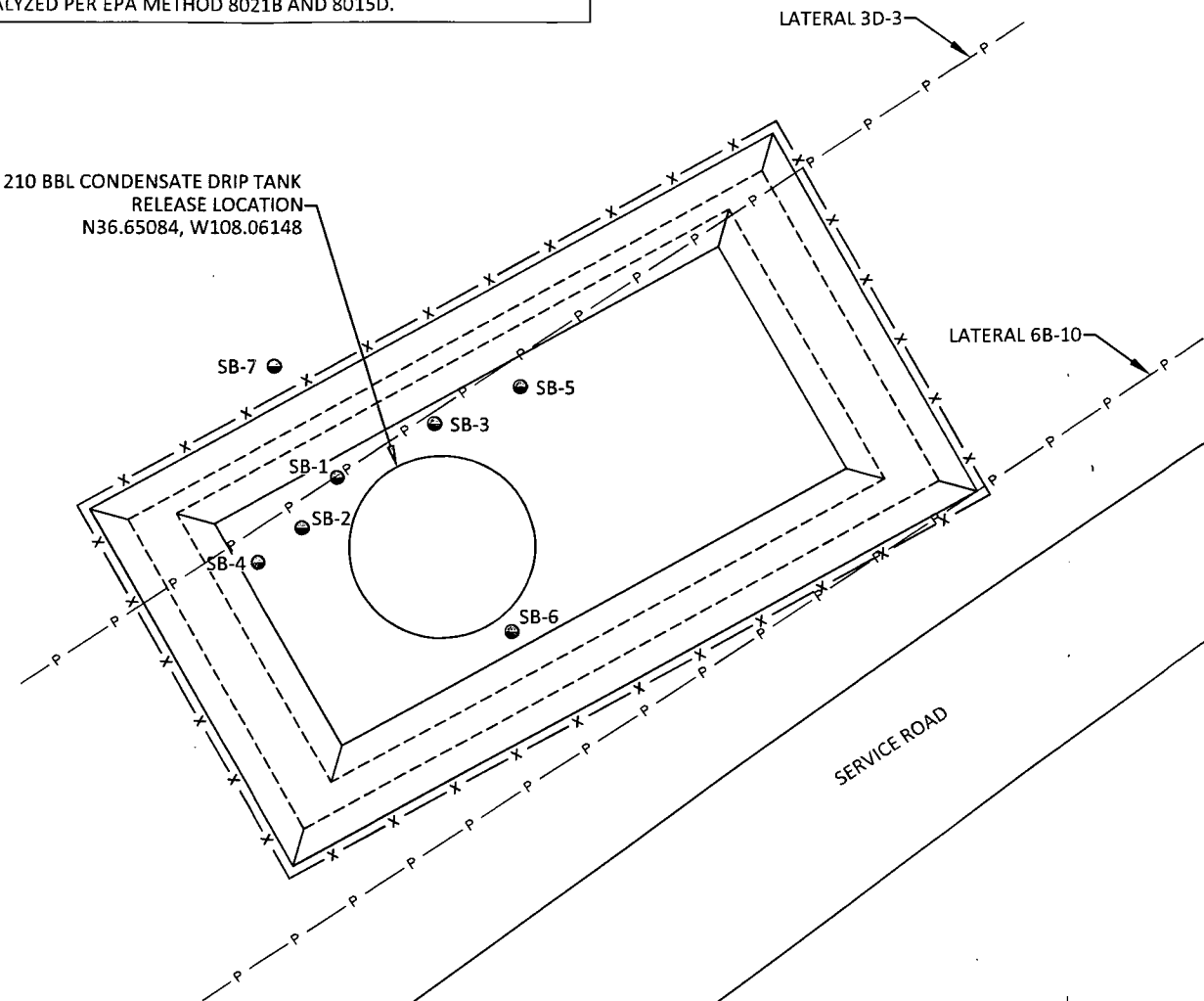


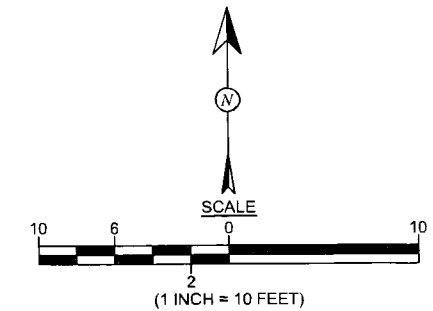
FIGURE 3

INITIAL ASSESSMENT SAMPLE LOCATIONS AND RESULTS MAY 2013

ENTERPRISE FIELD SERVICES, LLC
LATERAL 6B-10 CONDENSATE DRIP TANK
MAY 2013 RELEASE
SW¼ NE¼, SECTION 24, T28N R12W
SAN JUAN COUNTY, NEW MEXICO
N36.65084, W108.06148

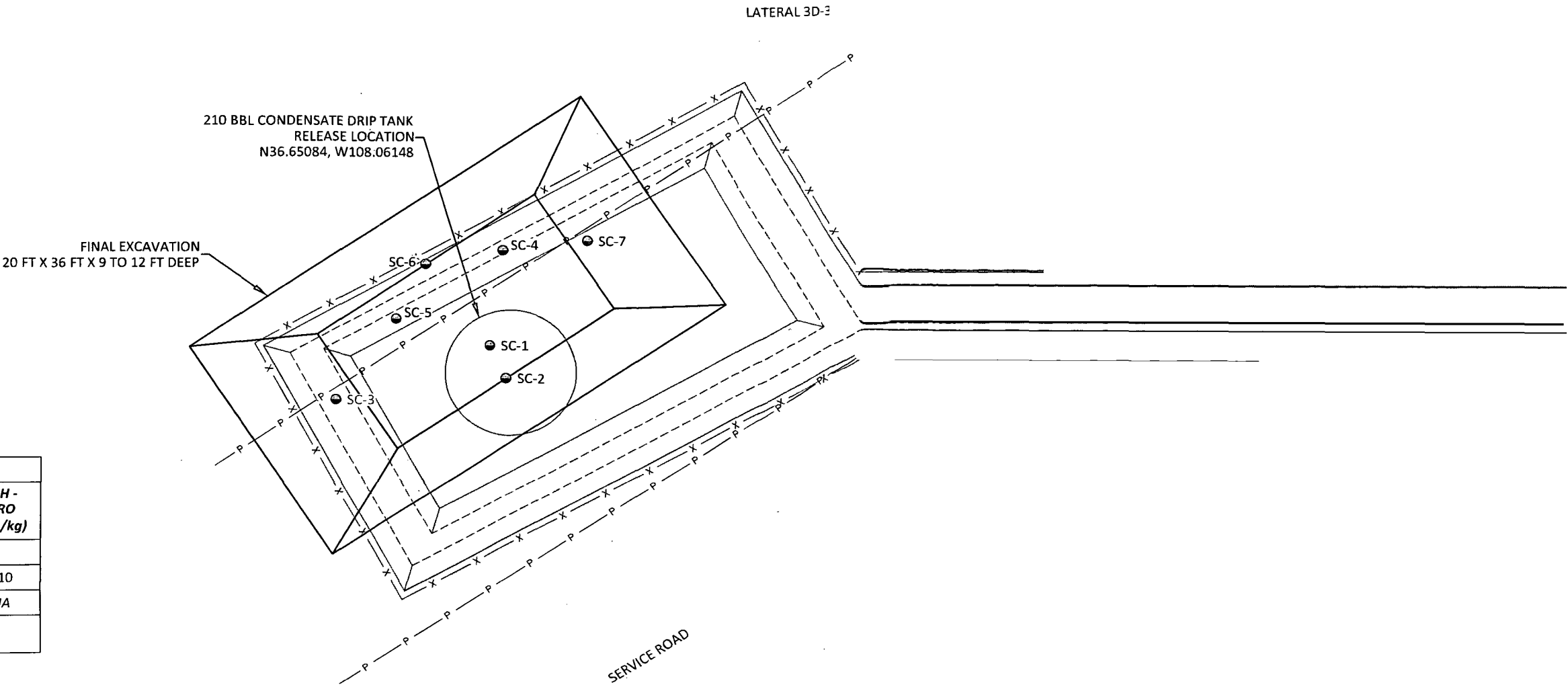
DRAWN BY: C. Lameman	DATE DRAWN: May 9, 2013
REVISIONS BY: C. Lameman	DATE REVISED: May 9, 2013
CHECKED BY: T. Ross	DATE CHECKED: May 9, 2013
APPROVED BY: E. McNally	DATE APPROVED: May 9, 2013

- LEGEND
- SAMPLE LOCATIONS
 - SECONDARY CONTAINMENT BERM
 - FENCE
 - BURIED PIPELINE (APPROXIMATE)



Field Screening Results				
Sample ID	Date	Depth (ft)	OVM-PID (ppm)	TPH (mg/kg)
NMOCD ACTION LEVEL			100	100
SC-1	6/3/13	9	107	103
SC-2	6/3/13	3 to 9	13.4	84.9
SC-3	6/3/13	3 to 9	65.6	52.8
SC-4	6/3/13	12	8.6	59.0
SC-5	6/3/13	9	603	82.5
SC-6	6/3/13	3 to 12	33.3	72.6
SC-7	6/3/13	3 to 12	1.3	88.6
ALL SAMPLES WERE COMPOSITE SAMPLES.				

Laboratory Analytical Results						
Sample ID	Date	Depth (ft)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH - GRO (mg/kg)	TPH - DRO (mg/kg)
NMOCD ACTION LEVEL			10	50	100	
SC-1	6/3/13	9	<0.050	<0.25	<5.0	<10
SC-5	6/3/13	9	<0.050	<0.25	NA	NA
ALL SAMPLES WERE ANALYZED PER EPA METHOD 8021B AND 8015D. NA - NOT ANALYZED						



Field Screening Results				
Sample ID	Date	Depth (ft)	OVM-PID (ppm)	TPH (mg/kg)
NMOCD ACTION LEVEL			100	100
SC-1	6/3/13	9	107	103
SC-2	6/3/13	3 to 9	13.4	84.9
SC-3	6/3/13	3 to 9	65.6	52.8
SC-4	6/3/13	12	8.6	59.0
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SC-6	6/3/13	3 to 12	33.3	72.6
SC-7	6/3/13	3 to 12	1.3	88.6
ALL SAMPLES WERE COMPOSITE SAMPLES.				

Laboratory Analytical Results						
Sample ID	Date	Depth (ft)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH - GRO (mg/kg)	TPH - DRO (mg/kg)
NMOCD ACTION LEVEL			10	50	100	
SC-1	6/3/13	9	<0.050	<0.25	<5.0	<10
SC-5	6/3/13	9	<0.050	<0.25	NA	NA
ALL SAMPLES WERE ANALYZED PER EPA METHOD 8021B AND 8015D. NA - NOT ANALYZED						

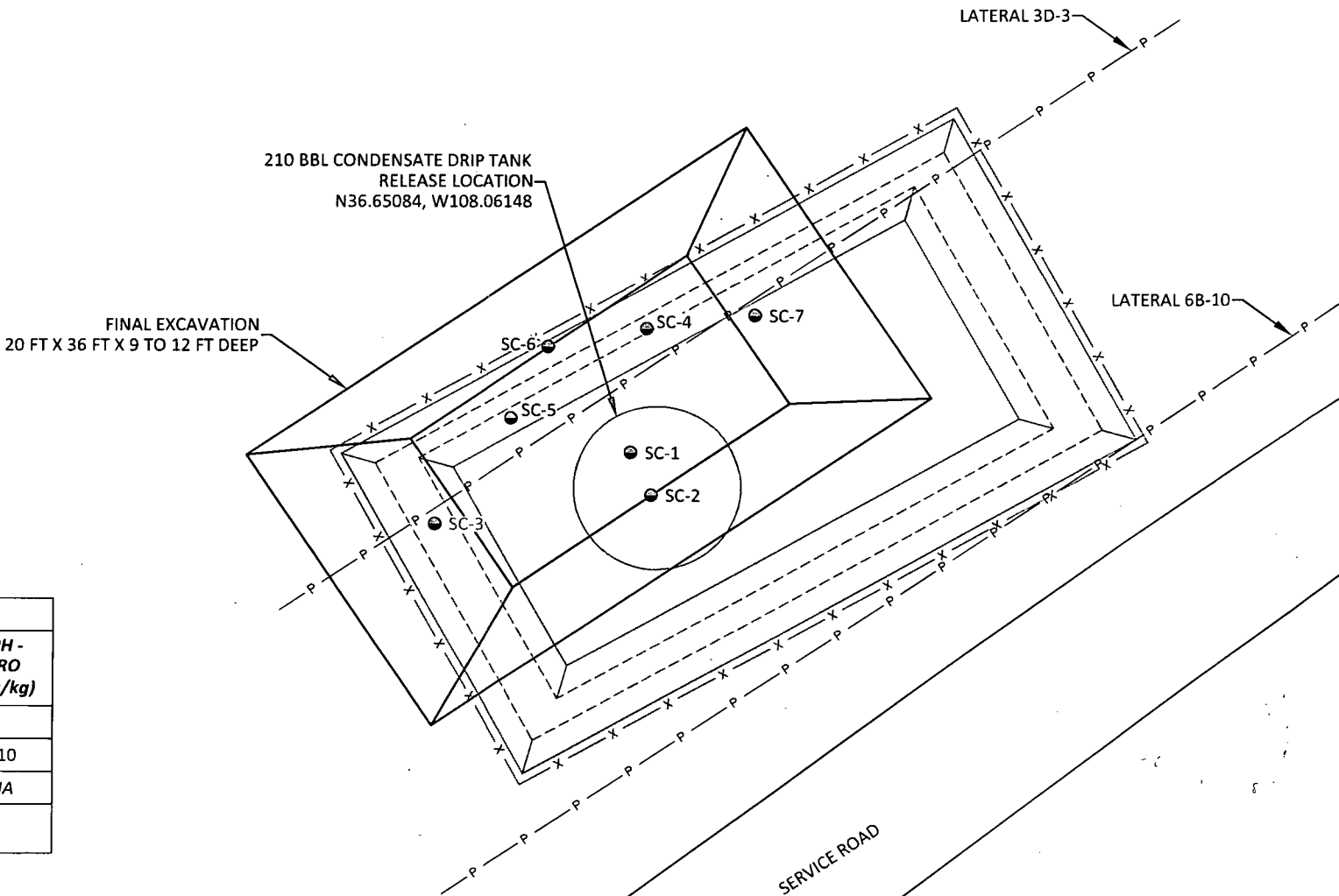


FIGURE 4

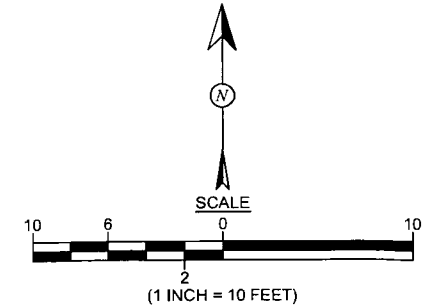
FINAL EXCAVATION SAMPLE
LOCATIONS AND RESULTS
MAY 2013
ENTERPRISE FIELD SERVICES, LLC
LATERAL 6B-10 CONDENSATE DRIP TANK
MAY 2013 RELEASE
SW¼ NE¼, SECTION 24, T28N R12W
SAN JUAN COUNTY, NEW MEXICO
N36.65084, W108.06148



Animas Environmental Services, LLC

DRAWN BY: C. Lameman	DATE DRAWN: May 9, 2013
REVISIONS BY: C. Lameman	DATE REVISED: May 9, 2013
CHECKED BY: T. Ross	DATE CHECKED: May 9, 2013
APPROVED BY: E. McNally	DATE APPROVED: May 9, 2013

LEGEND	
●	SAMPLE LOCATIONS
---	SECONDARY CONTAINMENT BERM
-x-	FENCE
-P-	BURIED PIPELINE (APPROXIMATE)



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: Enterprise Field Services

Project Location: Lateral 6B-10 Condensate Drip Tank Release

Date: 5/8/2013

Matrix: Soil

Sample ID	Collection Date	Time of Sample Collection	OVM (ppm)	Field TPH Analysis Time	Field TPH* (mg/kg)	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SB-1 @ Surface	5/8/2013	14:12	2,378	18:51	>10,000	100	1	HMW
SB-1 @ 1'	5/8/2013	14:14	1,520	Not Analyzed for TPH.				
SB-1 @ 2'	5/8/2013	14:16	765	Not Analyzed for TPH.				
SB-1 @ 4'	5/8/2013	14:19	309	Not Analyzed for TPH.				
SB-1 @ 6'	5/8/2013	14:45	2,498	Not Analyzed for TPH.				
SB-1 @ 8'	5/8/2013	14:51	358	18:59	195	20.0	1	HMW
SB-1 @ 10'	5/8/2013	15:15	2,640	Not Analyzed for TPH.				
SB-1 @ 12'	5/8/2013	15:35	2,009	19:00	>2,500	20.0	1	HMW
SB-2 @ Surface	5/8/2013	14:22	17.1	Not Analyzed for TPH.				
SB-2 @ 2'	5/8/2013	14:25	120	18:49	<20.0	20.0	1	HMW
SB-2 @ 4'	5/8/2013	14:29	13.9	Not Analyzed for TPH.				
SB-3 @ Surface	5/8/2013	14:31	4,045	18:54	>2,500	20.0	1	HMW
SB-3 @ 2'	5/8/2013	14:33	3,556	Not Analyzed for TPH.				
SB-3 @ 4'	5/8/2013	14:36	351	18:56	161	20.0	1	HMW

Enterprise Lateral 6B-10 Condensate Drip Tank

Page 1

Report Finalized: 05/08/13

Sample ID	Collection Date	Time of Sample Collection	OVM (ppm)	Field TPH Analysis Time	Field TPH* (mg/kg)	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SB-4 @ Surface	5/8/2013	15:02	15.3	Not Analyzed for TPH.				
SB-4 @ 2'	5/8/2013	15:04	13.1	Not Analyzed for TPH.				
SB-4 @ 4'	5/8/2013	15:07	12.4	Not Analyzed for TPH.				
SB-5 @ Surface	5/8/2013	15:19	6.9	Not Analyzed for TPH.				
SB-5 @ 2'	5/8/2013	15:22	7.5	Not Analyzed for TPH.				
SB-5 @ 4'	5/8/2013	15:26	7.3	Not Analyzed for TPH.				
SB-6 @ Surface	5/8/2013	15:39	4.3	Not Analyzed for TPH.				
SB-6 @ 2'	5/8/2013	15:41	3.4	Not Analyzed for TPH.				
SB-6 @ 4'	5/8/2013	15:44	4.8	Not Analyzed for TPH.				
SB-7 @ Surface	5/8/2013	15:50	1.2	Not Analyzed for TPH.				
SB-7 @ 2'	5/8/2013	15:53	2.2	Not Analyzed for TPH.				
SB-7 @ 4'	5/8/2013	15:57	1.3	Not Analyzed for TPH.				

PQL Practical Quantitation Limit
 ND Not Detected at the Reporting Limit
 NA Not Analyzed
 DF Dilution Factor
 *Field TPH concentrations recorded may be below PQL.

Analyst: *Heather M. Woods*

AES Field Screening Report



Animas Environmental Services, LLC

www.animasenvironmental.com

Client: Enterprise Field Services

Project Location: Lateral 6B-10 Condensate Drip Tank Release

Date: 6/3/2013

Matrix: Soil

624 E. Comanche
Farmington, NM 87401
505-664-2281

Durango, Colorado
970-403-3084

Sample ID	Collection Date	Time of Sample Collection	Sample Depth (ft)	OVM (ppm)	Field TPH Analysis Time	Field TPH* (mg/kg)	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SC-1	6/3/2013	14:18	9	107	17:24	103	20.0	1	HMW
SC-2	6/3/2013	14:20	3 to 9	13.4	12:27	84.9	20.0	1	HMW
SC-3	6/3/2013	14:22	3 to 9	65.6	17:29	52.8	20.0	1	HMW
SC-4	6/3/2013	15:20	12	8.6	17:31	59.0	20.0	1	HMW
SC-5	6/3/2013	15:22	9	603	17:33	82.5	20.0	1	HMW
SC-6	6/3/2013	15:24	3 to 12	33.3	17:35	72.6	20.0	1	HMW
SC-7	6/3/2013	15:26	3 to 12	1.3	17:37	88.6	20.0	1	HMW

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

*Field TPH concentrations recorded may be below PQL.

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

May 16, 2013

Ross Kennemer

Animas Environmental Services
624 East Comanche
Farmington, NM 87401
TEL: (505) 486-1776
FAX (505) 324-2022

RE: Enterprise Tank 6B-10

OrderNo.: 1305366

Dear Ross Kennemer:

Hall Environmental Analysis Laboratory received 2 sample(s) on 5/9/2013 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,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1305366

Date Reported: 5/16/2013

CLIENT: Animas Environmental Services

Client Sample ID: SB-3@4'

Project: Enterprise Tank 6B-10

Collection Date: 5/8/2013 2:36:00 PM

Lab ID: 1305366-001

Matrix: SOIL

Received Date: 5/9/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	29	10		mg/Kg	1	5/13/2013 8:01:16 PM	7387
Surr: DNOP	122	63-147		%REC	1	5/13/2013 8:01:16 PM	7387
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	5.0	4.9		mg/Kg	1	5/11/2013 9:15:41 AM	7366
Surr: BFB	140	80-120	S	%REC	1	5/11/2013 9:15:41 AM	7366
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.049		mg/Kg	1	5/11/2013 9:15:41 AM	7366
Toluene	ND	0.049		mg/Kg	1	5/11/2013 9:15:41 AM	7366
Ethylbenzene	ND	0.049		mg/Kg	1	5/11/2013 9:15:41 AM	7366
Xylenes, Total	ND	0.097		mg/Kg	1	5/11/2013 9:15:41 AM	7366
Surr: 4-Bromofluorobenzene	99.6	80-120		%REC	1	5/11/2013 9:15:41 AM	7366

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
	P	Sample pH greater than 2 for VOA and TOC only.	R	RPD outside accepted recovery limits
	RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
 Project: Enterprise Tank 6B-10
 Lab ID: 1305366-002

Matrix: SOIL

Client Sample ID: SB-1@12'
 Collection Date: 5/8/2013 3:35:00 PM
 Received Date: 5/9/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	320	10		mg/Kg	1	5/13/2013 8:28:53 PM	7387
Surr: DNOP	121	63-147		%REC	1	5/13/2013 8:28:53 PM	7387
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	210	25		mg/Kg	5	5/11/2013 9:45:41 AM	7366
Surr: BFB	336	80-120	S	%REC	5	5/11/2013 9:45:41 AM	7366
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.25		mg/Kg	5	5/11/2013 9:45:41 AM	7366
Toluene	2.2	0.25		mg/Kg	5	5/11/2013 9:45:41 AM	7366
Ethylbenzene	1.0	0.25		mg/Kg	5	5/11/2013 9:45:41 AM	7366
Xylenes, Total	9.6	0.49		mg/Kg	5	5/11/2013 9:45:41 AM	7366
Surr: 4-Bromofluorobenzene	115	80-120		%REC	5	5/11/2013 9:45:41 AM	7366

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
	P	Sample pH greater than 2 for VOA and TOC only.	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#: 1305366

16-May-13

Client: Animas Environmental Services

Project: Enterprise Tank 6B-10

Sample ID: MB-7387	SampType: MBLK	TestCode: EPA Method 8015D: Diesel Range Organics								
Client ID: PBS	Batch ID: 7387	RunNo: 10540								
Prep Date: 5/10/2013	Analysis Date: 5/10/2013	SeqNo: 298020		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	11		10.00		108	63	147			

Sample ID: LCS-7387	SampType: LCS	TestCode: EPA Method 8015D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 7387	RunNo: 10540								
Prep Date: 5/10/2013	Analysis Date: 5/10/2013	SeqNo: 298022		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	97.1	47.4	122			
Surr: DNOP	5.5		5.000		111	63	147			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2 for VOA and TOC only.
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#: 1305366

16-May-13

Client: Animas Environmental Services

Project: Enterprise Tank 6B-10

Sample ID	MB-7366		SampType:	MBLK		TestCode:	EPA Method 8015D: Gasoline Range				
Client ID:	PBS		Batch ID:	7366		RunNo:	10548				
Prep Date:	5/9/2013		Analysis Date:	5/10/2013		SeqNo:	298421		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	ND	5.0									
Surr: BFB	890		1000		89.2	80	120				

Sample ID	LCS-7366		SampType:	LCS		TestCode:	EPA Method 8015D: Gasoline Range				
Client ID:	LCSS		Batch ID:	7366		RunNo:	10548				
Prep Date:	5/9/2013		Analysis Date:	5/10/2013		SeqNo:	298422		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	91.0	62.6	136				
Surr: BFB	960		1000		96.2	80	120				

Sample ID	MB-7389		SampType:	MBLK		TestCode:	EPA Method 8015D: Gasoline Range				
Client ID:	PBS		Batch ID:	7389		RunNo:	10583				
Prep Date:	5/10/2013		Analysis Date:	5/14/2013		SeqNo:	299261		Units: %REC		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: BFB	930		1000		92.9	80	120				

Sample ID	LCS-7389		SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	LCSS		Batch ID: 7389		RunNo: 10583					
Prep Date:	5/10/2013		Analysis Date: 5/13/2013		SeqNo: 299262		Units: %REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	990		1000		98.7	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 |
| P Sample pH greater than 2 for VOA and TOC only. | 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#: 1305366

16-May-13

Client: Animas Environmental Services

Project: Enterprise Tank 6B-10

Sample ID	MB-7366		SampType:	MBLK		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	PBS		Batch ID:	7366		RunNo:	10548			
Prep Date:	5/9/2013		Analysis Date:	5/10/2013		SeqNo:	298461		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.97		1.000		97.2	80	120			

Sample ID	LCS-7366		SampType:	LCS		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	LCSS		Batch ID:	7366		RunNo:	10548			
Prep Date:	5/9/2013		Analysis Date:	5/10/2013		SeqNo:	298462		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.050	1.000	0	100	80	120			
Toluene	0.99	0.050	1.000	0	99.5	80	120			
Ethylbenzene	0.97	0.050	1.000	0	97.1	80	120			
Xylenes, Total	3.0	0.10	3.000	0	101	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		107	80	120			

Sample ID	MB-7389		SampType:	MBLK		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	PBS		Batch ID:	7389		RunNo:	10583			
Prep Date:	5/10/2013		Analysis Date:	5/14/2013		SeqNo:	299280		Units: %REC	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		104	80	120			

Sample ID	LCS-7389		SampType:	LCS		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	LCSS		Batch ID:	7389		RunNo:	10583			
Prep Date:	5/10/2013		Analysis Date:	5/13/2013		SeqNo:	299281		Units: %REC	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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
P Sample pH greater than 2 for VOA and TOC only.
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



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: 1305366

RcptNo: 1

Received by/date:

Logged By: Lindsay Mangin

Completed By: Lindsay Mangin

Reviewed By: IO

05/09/13
5/9/2013 10:00:00 AM

5/9/2013 11:24:29 AM

05/09/2013

[Signature]
[Signature]

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 ☐ # of preserved bottles checked for pH:
(<2 or >12 unless noted)
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐ Adjusted? ☐
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐ Checked by: ☐

Special Handling (if applicable)

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

Person Notified: Date:

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

Regarding:

Client Instructions:

17. Additional remarks:

18. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.4	Good	Yes			



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

June 06, 2013

Ross Kennemer
Animas Environmental Services
624 East Comanche
Farmington, NM 87401
TEL: (505) 486-1776
FAX (505) 324-2022

RE: Enterprise Tank 6B-10

OrderNo.: 1306076

Dear Ross Kennemer:

Hall Environmental Analysis Laboratory received 2 sample(s) on 6/4/2013 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. 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.

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services **Client Sample ID:** SC-1
Project: Enterprise Tank 6B-10 **Collection Date:** 6/3/2013 2:18:00 PM
Lab ID: 1306076-001 **Matrix:** MEOH (SOIL) **Received Date:** 6/4/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: GSA
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/4/2013 12:44:23 PM	7743
Surr: DNOP	105	63-147		%REC	1	6/4/2013 12:44:23 PM	7743
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/4/2013 12:38:15 PM	R11057
Surr: BFB	99.8	80-120		%REC	1	6/4/2013 12:38:15 PM	R11057
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	6/4/2013 12:38:15 PM	R11057
Toluene	ND	0.050		mg/Kg	1	6/4/2013 12:38:15 PM	R11057
Ethylbenzene	ND	0.050		mg/Kg	1	6/4/2013 12:38:15 PM	R11057
Xylenes, Total	ND	0.10		mg/Kg	1	6/4/2013 12:38:15 PM	R11057
Surr: 4-Bromofluorobenzene	98.5	80-120		%REC	1	6/4/2013 12:38:15 PM	R11057

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 for VOA and TOC only.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1306076

Date Reported: 6/6/2013

CLIENT: Animas Environmental Services

Client Sample ID: SC-5

Project: Enterprise Tank 6B-10

Collection Date: 6/3/2013 3:22:00 PM

Lab ID: 1306076-002

Matrix: MEOH (SOIL)

Received Date: 6/4/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	6/4/2013 1:06:54 PM	R11057
Toluene	ND	0.050		mg/Kg	1	6/4/2013 1:06:54 PM	R11057
Ethylbenzene	ND	0.050		mg/Kg	1	6/4/2013 1:06:54 PM	R11057
Xylenes, Total	ND	0.10		mg/Kg	1	6/4/2013 1:06:54 PM	R11057
Surr: 4-Bromofluorobenzene	100	80-120		%REC	1	6/4/2013 1:06:54 PM	R11057

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 for VOA and TOC only.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1306076

06-Jun-13

Client: Anímas Environmental Services

Project: Enterprise Tank 6B-10

Sample ID	MB-7743	SampType:	MBLK	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	7743	RunNo:	11054					
Prep Date:	6/4/2013	Analysis Date:	6/4/2013	SeqNo:	312839	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	9.9		10.00		99.1	63	147			

Sample ID	LCS-7743	SampType:	LCS	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	7743	RunNo:	11054					
Prep Date:	6/4/2013	Analysis Date:	6/4/2013	SeqNo:	312840	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	98.9	77.1	128			
Surr: DNOP	5.0		5.000		99.3	63	147			

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

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 for VOA and TOC only.
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1306076

06-Jun-13

Client: Animas Environmental Services

Project: Enterprise Tank 6B-10

Sample ID	MB-7716	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	R11057	RunNo:	11057					
Prep Date:	6/3/2013	Analysis Date:	6/4/2013	SeqNo:	313364	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	940		1000		94.3	80	120			

Sample ID	LCS-7716	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	R11057	RunNo:	11057					
Prep Date:	6/3/2013	Analysis Date:	6/4/2013	SeqNo:	313365	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	107	62.6	136			
Surr: BFB	1000		1000		104	80	120			

Sample ID	MB-7716	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	7716	RunNo:	11057					
Prep Date:	6/3/2013	Analysis Date:	6/4/2013	SeqNo:	313385	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	940		1000		94.3	80	120			

Sample ID	LCS-7716	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	7716	RunNo:	11057					
Prep Date:	6/3/2013	Analysis Date:	6/4/2013	SeqNo:	313386	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1000		1000		104	80	120			

Qualifiers:

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

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 for VOA and TOC only.
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1306076

06-Jun-13

Client: Animas Environmental Services

Project: Enterprise Tank 6B-10

Sample ID	MB-7716		SampType:	MBLK		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	PBS		Batch ID:	R11057		RunNo:	11057			
Prep Date:	6/3/2013		Analysis Date:	6/4/2013		SeqNo:	313400		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		99.9	80	120			

Sample ID	LCS-7716		SampType:	LCS		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	LCSS		Batch ID:	R11057		RunNo:	11057			
Prep Date:	6/3/2013		Analysis Date:	6/4/2013		SeqNo:	313401		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.050	1.000	0	104	80	120			
Toluene	1.0	0.050	1.000	0	104	80	120			
Ethylbenzene	1.0	0.050	1.000	0	104	80	120			
Xylenes, Total	3.1	0.10	3.000	0	104	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		107	80	120			

Sample ID	MB-7716		SampType:	MBLK		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	PBS		Batch ID:	7716		RunNo:	11057			
Prep Date:	6/3/2013		Analysis Date:	6/4/2013		SeqNo:	313419		Units: %REC	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		99.9	80	120			

Sample ID	LCS-7716		SampType:	LCS		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	LCSS		Batch ID:	7716		RunNo:	11057			
Prep Date:	6/3/2013		Analysis Date:	6/4/2013		SeqNo:	313420		Units: %REC	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits

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

Sample Log-In Check List

Client Name: Animas Environmental

Work Order Number: 1306076

RcptNo: 1

Received by/date:	AG	06/04/13
Logged By:	Michelle Garcia	6/4/2013 10:00:00 AM
Completed By:	Michelle Garcia	6/4/2013 10:33:17 AM
Reviewed By:	IO	06/04/13

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:			

- Additional remarks:

Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.1	Good	Yes			

Chain-of-Custody Record		Turn-Around Time:
Client: <u>Animas Environmental Services</u>	<input checked="" type="checkbox"/> Standard <input checked="" type="checkbox"/> Rush <u>same day</u>	<u>04/11</u>
Mailing Address: <u>624 E. Comanche</u>	Project Name: <u>Per Heather Wood</u>	
<u>Farmington, NM 87401</u>	Enterprise Tank <u>6B-10</u>	
Phone #:	Project #:	
email or Fax#:	Project Manager:	
QA/QC Package:	<u>R. Kenner</u>	
<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Level 4 (Full Validation)	Sampler: <u>H. Woods</u>	
Accreditation	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
<input type="checkbox"/> NELAP <input type="checkbox"/> Other _____	Sample Temperature: _____	
<input type="checkbox"/> EDD (Type) _____		

☒ Standard ☒ Rush same day 04/04/13

Project Name: Per Heather Wood

Enterprise Tank 6B-10
Project #:

Project Manager:

R. Kennemer

Sampler: H. Woods

Sample Temperature:		

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.
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[illegible]

013/13	1418	501	SC-1	MeOH Kit	MeOH/-	-001
013/13	1522	8-1	SC-5	MeOH Kit	MeOH/-	-002

1575	1572	3011	5000	11-402	1	5000
				1		

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Date:	Time:	Relinquished by:	Received by:	Date	Time
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6/3/13	1733	Heath M. Woods	Musta Waite	6/3/13	1733
Date:	Time:	Relinquished by:	Received by:	Date:	Time:

Date:	Time:	Relinquished by:	Received by:	Date:	Time:
1/3/13	1754	A. M. West		01/04/13	1000

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

[illegible][illegible]

Remarks:									
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possibility. Any sub-contracted data will be clearly notated on the analytical report.

District I
1625 N. French Dr., Hobbs, NM 88240
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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 Enterprise Field Services	Contact: Aaron Dailey
Address 614 Reilly Ave., Farmington, NM 87401	Telephone No. 505-599-2286
Facility Name Lateral 10D-2 Gathering Line	Facility Type: Natural gas gathering line

Surface Owner: <u>Naidio</u> <u>JX 9/11/2013</u>	Mineral Owner	API No.
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	17	26N	11W					San Juan

Latitude_N 36.48801 _ Longitude_W 108.02705 (Decimal Degrees) __

NATURE OF RELEASE


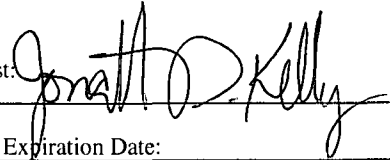
Type of Release: Natural Gas Pipeline Release (Gas, liquid)	Volume of Release Unknown	Volume Recovered: TBD (Dig and Haul Scheduled)
Source of Release: Corrosion hole	Date and Hour of Occurrence: Unknown	Date and Hour of Discovery: 7/24/2013 @ 07:00 hours
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom? OIL CONS. DIV DIST. 3	
By Whom?	Date and Hour AUG 12 2013	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* A possible line leak was identified during a routine line patrol. Leak was verified upon excavation. Pipeline was isolated, LOTO applied, and repairs were made. An additional leak was discovered in the excavation by a third party environmental contractor providing environmental assessment support to Enterprise Field Services. Additional repairs were made on July 28, 2013, which were successful repairs.

Describe Area Affected and Cleanup Action Taken.* Approximately 175 cubic yards of contaminated soil was removed from the pipe leak location. Based on third party environmental contractor field screening, an estimated +/- 100 yards additional of contaminated soil will have to be excavated and hauled to an OCD permitted landfarm facility to achieve closure standards. A "final" c-141 report and a third party corrective action report will be submitted to applicable agencies once closure activities have been completed.

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: Matt Marra	Approved by Environmental Specialist: 	
Title: Sr. Director, Environmental	Approval Date: 9/18/2013	Expiration Date:
E-mail Address: memarra@eprod.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 8-5-2013 Phone: 713-381-6684		

* Attach Additional Sheets If Necessary

nJK1326153908

18

District I
1625 N. French Dr., Hobbs, NM 88240
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811 S. First St., Artesia, NM 88210
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Energy Minerals and Natural Resources

Oil Conservation Division
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Form C-141
Revised August 8, 2011

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accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☒ Initial Report

☐ Final Report

Name of Company Enterprise Field Services, LLC	Contact Aaron Dailey	
Address 614 Reilly Avenue, Farmington NM 87401	Telephone No. (505)599-2286	
Facility Name Lateral C-11 Gathering line	Facility Type Natural Gas Gathering Pipeline	
Surface Owner Navajo Allotment	Mineral Owner Navajo	API No.

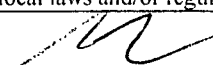
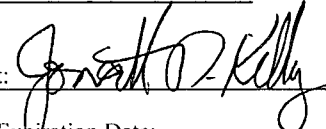
LOCATION OF RELEASE

Unit Letter K	Section 11	Township 27N	Range 9W	Feet from the	North/South Line	Feet from the	East/West Line	County San Juan
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Latitude_N36.589118__ Longitude_W107.761424 (Decimal Degrees)___

RCVD AUG 1 '13
OIL CONS. DIV.
DIST. 3

NATURE OF RELEASE

Type of Release Natural Gas	Volume of Release Unknown	Volume Recovered 50 yards petroleum impacted soil removed from location
Source of Release Natural gas gathering pipeline	Date and Hour of Occurrence Unknown	Date and Hour of Discovery 7/22/2013 @ 13:40 hours
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom? Steve Austin (NNEPA)—Courtesy Notification, left message	
By Whom? Aaron Dailey	Date and Hour 7/23/2013 @ 08:30 hours	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.*		
Describe Cause of Problem and Remedial Action Taken.* Suspected pipe leak was excavated after line was isolated. Leak location was verified and repairs were made to multiple corrosion holes on the pipeline section.		
Describe Area Affected and Cleanup Action Taken. A third party environmental contractor was dispatched to obtain soil samples from the spoil pile and walls of the excavation. Fifty cubic yards of contaminated soil was removed from the spoil pile that was excavated from the leak location. Further assessment is being conducted in order to determine impacts at the location in accordance with jurisdictional agency regulations and applicable guidance. A third party corrective action report summarizing these activities will be submitted with a "final" c-141 report.		
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: Matt Marra	Approved by Environmental Specialist: 	
Title: Senior Director, Environmental	Approval Date: 9/24/2013	Expiration Date:
E-mail Address: memarra@eprod.com	Conditions of Approval:	
Date: 7-26-2013 Phone: (713)381-6684	Attached <input type="checkbox"/>	

* Attach Additional Sheets If Necessary

nJK1326732294

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District I
1625 N. French Dr., Hobbs, NM 88240
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Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report


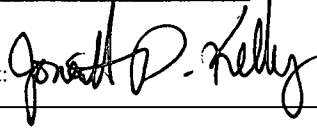
Name of Company Enterprise Field Services	Contact: Aaron Dailey	
Address 614 Reilly Ave., Farmington, NM 87401	Telephone No. 505-599-2286	
Facility Name Lateral 2A-3 Gathering Line	Facility Type: Natural gas gathering line	
Surface Owner: BLM	Mineral Owner BLM	API No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
D	27	27N	10W					San Juan

Latitude_N 36.55191 _ Longitude_W 107.88884 (Decimal Degrees) __

NATURE OF RELEASE

Type of Release: Natural Gas Pipeline Release	Volume of Release Unknown	Volume Recovered: TBD (Dig and Haul Scheduled)
Source of Release: Corrosion hole	Date and Hour of Occurrence: Unknown	Date and Hour of Discovery 7.11.2013 @ 15:00 hours
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	RCVD JUL 29 '13
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.* Enterprise gas control was notified of a possible line leak from a third party. Enterprise Operations responded to the reported location and verified the leak, isolated the pipeline, and coordinated for repairs. Contractor and Enterprise Operations/Environmental worked to mitigate the release location by removing the stained soil on the surface of the pipe release location until permanent repairs could be made.		
Describe Area Affected and Cleanup Action Taken.* Enterprise Environmental was dispatched to the location to verify that water/condensate mix released from the pipe leak was mitigated prior to equipment arrival. A third party environmental contractor was dispatched to the leak location upon the repairs and provided cleanup guidance. Approximately 70 cubic yards of contaminated soil was hauled to an OCD permitted land farm facility. A "final" c-141 report and a third party corrective action report will be submitted to applicable agencies once closure activities have been completed.		
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: Matt Marra	Approved by Environmental Specialist: 	
Title: Sr. Director, Environmental	Approval Date: 9/24/2013	Expiration Date:
E-mail Address: memarra@eprod.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 7-24-13	Phone: 713-381-6684	

* Attach Additional Sheets If Necessary

nJK132673977

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