

3R-1011

**Release Report/ General
Correspondence**

Enterprise SJ

Date: Jul-Sept 2014

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 Ave, Farmington, NM 87401	Telephone No. 505-599-2286
Facility Name: Katherine Pierce #1/Katy #1	Facility Type: Natural Gas Gathering Line
Surface Owner: Private	Mineral Owner: BLM
API No.	

LOCATION OF RELEASE

Unit Letter B	Section 26	Township 30N	Range 12W	Feet from the 799	North South Line	Feet from the 1499	East West Line	County San Juan
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Latitude 36.788510 Longitude -108.064109

NATURE OF RELEASE

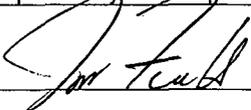
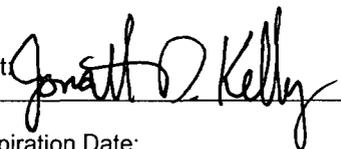
Type of Release: Natural Gas	Volume of Release: 90.785 MCF	Volume Recovered: Unknown
Source of Release: Suspected internal corrosion	Date and Hour of Occurrence: 6/23/2014 @ 9:50 a.m.	Date and Hour of Discovery: 6/23/2014 @ 10:30 a.m.
Was Immediate Notice Given? Required <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not	If YES, To Whom? Courtesy Notification - Cory Smith - NMOCD OIL CONS. DIV DIST. 3	
By Whom? Thomas Long	Date and Hour 6/25/2014 @ 8:26 a.m.	JUL 10 2014
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 personnel responded to a line leak on the Katherine Pierce # 1 and Katy # 1 well tie, a Class 1 Non-jurisdictional pipeline. Enterprise personnel verified the leak, the pipeline was blown down and lock out tag out was applied. Internal corrosion is the suspected cause of the release. Repairs and remediation of the release are scheduled for the week of June 30, 2014.

Describe Area Affected and Cleanup Action Taken.* Enterprise personnel responded to a line leak on the Katherine Pierce # 1 and Katy # 1 well tie, a Class 1 Non-jurisdictional pipeline. Enterprise personnel verified the leak, the pipeline was blown down and lock out tag out was applied. Internal corrosion is the suspected cause of the release. Repairs and remediation of the release are scheduled for the week of June 30, 2014. A "final" c-141 will be submitted upon receipt of the third party environmental contractor corrective action 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, Environmental	Approval Date: 9/5/2014	Expiration Date:
E-mail Address: jefields@eprod.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 7/3/2014	Phone: (713)381-6684	

* Attach Additional Sheets If Necessary

NJK14 24847374

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Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company: Enterprise Field Services LLC	Contact: Thomas Long
Address: P.O. Box 4324, Houston, TX 77210	Telephone No. 505-599-2286
Facility Name: Lateral 10D-1	Facility Type: Natural Gas Gathering Line

Surface Owner: NAPI/Navajo Tribal	Mineral Owner: NAPI/Navajo Tribal	API No.
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LOCATION OF RELEASE

Unit Letter F	Section 12	Township 26N	Range 12W	Feet from the 1488	North South Line	Feet from the 2518	East West Line	County San Juan
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OIL CONS. DIV DIST. 3

Latitude 36.50578 Longitude -108.06366

JUL 14 2014

NATURE OF RELEASE

Type of Release: Natural Gas	Volume of Release: Unknown	Volume Recovered: Unknown
Source of Release: Suspected Internal Corrosion	Date and Hour of Occurrence: 6/26/2014 @ 10:30 a.m.	Date and Hour of Discovery: 6/26/2014 @ 11:15 a.m.
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom? Courtesy Notification to NMOCD - Cory Smith; NNEPA- Steve Austin; Mike Freeman/Eric Trevizo -NAPI	
By Whom? Thomas Long	Date and Hour 7/7/2014 @ 10:01 a.m. email and phone call	
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: Enterprise personnel responded to a possible line leak on the Lateral 10D-1 pipeline. An Enterprise technician verified the leak and initiated notification procedures. The pipeline was isolated, blown down, and depressurized and lock out tag out was applied. There were no surface environmental impacts observed. The repairs and remediation are scheduled for the week of July 7, 2014.

Describe Area Affected and Cleanup Action Taken.*: Enterprise personnel responded to a possible line leak on the Lateral 10D-1 pipeline. An Enterprise technician verified the leak and initiated notification procedures. The pipeline was isolated, blown down, and depressurized and lock out tag out was applied. There were no surface environmental impacts observed. The repairs and remediation are scheduled for the week of July 7, 2014. A "final" c-141 will be submitted upon receipt of the third party environmental contractor corrective action 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: Ivan W. Zirbes	Approved by Environmental Specialist:	
Title: Sr. Director, Environmental	Approval Date: 9/5/14	Expiration Date:
E-mail Address: snolan@eprod.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 7-10-2014	Phone: (713)381-6595	

* Attach Additional Sheets If Necessary

#NCS 14248 54044

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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 LLC	Contact: Thomas Long
Address: 614 Reilly Ave, Farmington, NM 87401	Telephone No. 505-599-2286
Facility Name: Argo #500	Facility Type: Natural Gas Gathering Line

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

Unit Letter N	Section 18	Township 27N	Range 10W	Feet from the 669	North South Line	Feet from the 1868	East West Line	County San Juan
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Latitude 36.569831 Longitude -107.939898

NATURE OF RELEASE

Type of Release: Natural Gas	Volume of Release: Unknown	Volume Recovered: Unknown
Source of Release: Suspected Internal Corrosion	Date and Hour of Occurrence: 6/25/2014 @ 12:15 a.m.	Date and Hour of Discovery: 6/25/2014 @ 12:45 p.m.
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom? Courtesy Notification to NMOCD - Cory Smith; BLM - Shari Ketcham	
By Whom? Thomas Long	Date and Hour 7/3/2014 @ 8:47 a.m.	OIL CONS. DIV DIST. 3
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse JUL 14 2014	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action: Enterprise personal responded to a possible line leak on the Argo 500 well tie. An Enterprise technician verified the leak and initiated notification procedures. The pipeline was isolated, blown down, and depressurized and lock out tag out was applied. There were surface environmental impacts. The repairs and remediation are scheduled for the week of July 7, 2014.

Describe Area Affected and Cleanup Action Taken.*: Enterprise personal responded to a possible line leak on the Argo 500 well tie. An Enterprise technician verified the leak and initiated notification procedures. The pipeline was isolated, blown down, and depressurized and lock out tag out was applied. There were surface environmental impacts. The repairs and remediation are scheduled for the week of July 7, 2014. A "final" c-141 will be submitted upon receipt of the third party environmental contractor corrective action 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>[Signature]</i>	
Title: Director, Environmental	Approval Date: <i>9/5/14</i>	Expiration Date:
E-mail Address: jefields@eprod.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: <i>7-8-2014</i> Phone: (713)381-6684		

* Attach Additional Sheets If Necessary

#NCS 14248545341

(1)

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Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company: Enterprise Field Services LLC	Contact: Thomas Long
Address 614 Reilly Ave, Farmington, NM 87401	Telephone No. 505-599-2286
Facility Name: Lateral 3B-33-Trk 11A Dogleg	Facility Type: Natural gas gathering line
Surface Owner: JFJ Landfarm, LLC	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	2	29N	12W	1760	South	2137	East	San Juan, NM

Latitude 36.752484 Longitude -108.066405

NATURE OF RELEASE

Type of Release: Natural Gas Release	Volume of Release: 202.98 MCF	Volume Recovered: None
Source of Release: Pipeline	Date and Hour of Occurrence: Unknown	Date and Hour of Discovery: 10-4-2013 9:30 pm
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	OIL CONS. DIV DIST. 3
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

JUL 14 2014

Describe Cause of Problem and Remedial Action Taken.*

On 10-4-2013 at 9:30 pm at address #49 Road 3150, San Juan County and employee of IEI Landfarm backed a heavy equipment front end loader over a guard rail striking the dogleg tie of Lateral 3B-33 into Trunk 11A causing damage to the overpressure actuator and 4" block valve on dogleg. A 1" nipple on the dogleg supplying pressure to actuator was cracked at the threads allowing gas to release to atmosphere. Lateral 3B-33 is a Class Three Jurisdictional pipeline. No injuries or fire were sustained a result of incident. No liquids were released. No environmental impacts resulted from the incident. No further action is required.

Describe Area Affected and Cleanup Action Taken.*

Five Enterprise employees were dispatched to respond to the incident. Upon confirmation of leak, notifications were made and employees proceeded to isolate, LOTO and blow down pipeline on lateral 3B-33. The isolation and blow down of pipeline was extended to include a portion of Trunk 11A due to the recognized damage to the 4 inch block valve on 3B-33. The risers on dogleg will be excavated on Monday, 10-7-2013 and inspected for any unforeseen damage and NDT testing will be performed on welds. The 4" inch block valve and 1 inch nipple and valve will be replaced with new like kind valves. No liquids were released. No environmental impacts resulted from the incident. No further action is required.

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

Signature: <i>Jon Fields</i>	OIL CONSERVATION DIVISION	
Printed Name: Jon Fields	Approved by Environmental Specialist: <i>[Signature]</i>	
Title: Director, Environmental	Approval Date: <i>9/5/14</i>	Expiration Date:
E-mail Address: jefields@eprod.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: <i>7-8-2014</i> Phone: (713)381-6684		

* Attach Additional Sheets If Necessary

#NCS 142 4185 4835

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Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company: Enterprise Field Services LLC	Contact: Thomas Long
Address: 614 Reilly Ave, Farmington, NM 87401	Telephone No. 505-599-2286
Facility Name: Howell M#1A Well Site	Facility Type: Well Site Meter Run/Meter Tube

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
M	31	30N	8W	747	South	568	West	San Juan

Latitude 36.762424 Longitude -107.718116

NATURE OF RELEASE

Type of Release: Natural gas	Volume of Release: 772 MCF gas release	Volume Recovered: None
Source of Release: Broken Methanol Injector	Date and Hour of Occurrence: 3/26/14 @ 1:15 p.m.	Date and Hour of Discovery: 3/26/14 @ 1:15 p.m.
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Jonathan Kelly - NMOCD; Shari Ketchum - BLM	
By Whom? Thomas Long	Date and Hour 3/26/14 4:30 p.m. by phone; 3/27/14 by email	
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 well producer discovered gas leaking from a methanol injector. An Enterprise technician was dispatched to isolate the injector and make repairs.

OIL CONS. DIV DIST. 3

JUL 14 2014

Describe Area Affected and Cleanup Action Taken.* An area of approximately two feet by two feet was affected below the methanol tank. A third party environmental contractor delineated the release area. The affected soil was removed by hand tools and transported to the nearest Enterprise Compressor station to be stored in a petroleum contaminated soil box for later disposal at a NMOCD approved land farm facility. Third party environmental contractor field notes and soil sample analysis are included in this final "C-141"

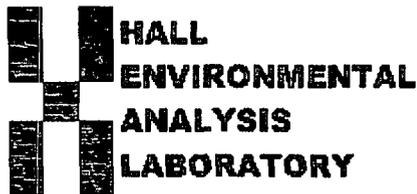
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger 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>[Signature]</i>	
Title: Director, Environmental	Approval Date: 9/5/14	Expiration Date:
E-mail Address: jefields@eprod.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 7-8-2014 Phone: (713)381-6684		

* Attach Additional Sheets If Necessary

#NCS 1424855412

11



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

April 23, 2014

Steve Moskal
Souder, Miller and Associates
401 W. Broadway
Farmington, NM 87401
TEL: (505) 325-5667
FAX (505) 327-1496

RE: Howell M #1A

OrderNo.: 1404817

Dear Steve Moskal:

Hall Environmental Analysis Laboratory received 1 sample(s) on 4/17/2014 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Client Sample ID: SC-1@4'bgs

Project: Howell M #1A

Collection Date: 4/16/2014 12:40:00 PM

Lab ID: 1404817-001

Matrix: SOIL

Received Date: 4/17/2014 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	4/18/2014 8:03:00 PM	12758
Surr: DNOP	142	57.9-140	S	%REC	1	4/18/2014 8:03:00 PM	12758
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	41	4.8		mg/Kg	1	4/19/2014 1:38:04 AM	12765
Surr: BFB	152	74.5-129	S	%REC	1	4/19/2014 1:38:04 AM	12765
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	0.072	0.048		mg/Kg	1	4/19/2014 1:38:04 AM	12765
Toluene	0.44	0.048		mg/Kg	1	4/19/2014 1:38:04 AM	12765
Ethylbenzene	0.15	0.048		mg/Kg	1	4/19/2014 1:38:04 AM	12765
Xylenes, Total	1.8	0.096		mg/Kg	1	4/19/2014 1:38:04 AM	12765
Surr: 4-Bromofluorobenzene	113	80-120		%REC	1	4/19/2014 1:38:04 AM	12765

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1404817

23-Apr-14

Client: Souder, Miller and Associates

Project: Howell M #1A

Sample ID	MB-12758	SampType:	MBLK	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	12758	RunNo:	18068					
Prep Date:	4/17/2014	Analysis Date:	4/18/2014	SeqNo:	521273	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	10		10.00		102	57.9	140			

Sample ID	LCS-12758	SampType:	LCS	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	12758	RunNo:	18068					
Prep Date:	4/17/2014	Analysis Date:	4/18/2014	SeqNo:	521275	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	91.4	60.8	145			
Surr: DNOP	4.4		5.000		88.6	57.9	140			

Sample ID	MB-12781	SampType:	MBLK	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	12781	RunNo:	18068					
Prep Date:	4/18/2014	Analysis Date:	4/18/2014	SeqNo:	521276	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.6		10.00		96.0	57.9	140			

Sample ID	LCS-12781	SampType:	LCS	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	12781	RunNo:	18068					
Prep Date:	4/18/2014	Analysis Date:	4/18/2014	SeqNo:	521898	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.6		5.000		91.5	57.9	140			

Qualifiers:

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1404817

23-Apr-14

Client: Souder, Miller and Associates

Project: Howell M #1A

Sample ID	MB-12765 MK	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	R18084	RunNo:	18084					
Prep Date:		Analysis Date:	4/18/2014	SeqNo:	522566	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	860		1000		85.6	74.5	129			

Sample ID	LCS-12765 MK	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	R18084	RunNo:	18084					
Prep Date:		Analysis Date:	4/18/2014	SeqNo:	522567	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	910		1000		91.5	74.5	129			

Sample ID	MB-12765	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	12765	RunNo:	18084					
Prep Date:	4/17/2014	Analysis Date:	4/18/2014	SeqNo:	522600	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	860		1000		85.6	74.5	129			

Sample ID	LCS-12765	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	12765	RunNo:	18084					
Prep Date:	4/17/2014	Analysis Date:	4/18/2014	SeqNo:	522601	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	97.9	71.7	134			
Surr: BFB	910		1000		91.5	74.5	129			

Qualifiers:

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

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

QC SUMMARY REPORT

WO#: 1404817

Hall Environmental Analysis Laboratory, Inc.

23-Apr-14

Client: Souder, Miller and Associates

Project: Howell M #1A

Sample ID	MB-12765	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles							
Client ID:	PBS	Batch ID: 12765	RunNo: 18084							
Prep Date:	4/17/2014	Analysis Date: 4/18/2014	SeqNo: 522634	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		102	80	120			

Sample ID	LCS-12765	SampType: LCS	TestCode: EPA Method 8021B: Volatiles							
Client ID:	LCSS	Batch ID: 12765	RunNo: 18084							
Prep Date:	4/17/2014	Analysis Date: 4/18/2014	SeqNo: 522635	Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.050	1.000	0	109	80	120			
Toluene	1.0	0.050	1.000	0	103	80	120			
Ethylbenzene	1.0	0.050	1.000	0	104	80	120			
Xylenes, Total	3.1	0.10	3.000	0	103	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		106	80	120			

Sample ID	1404817-001AMS	SampType: MS	TestCode: EPA Method 8021B: Volatiles							
Client ID:	SC-1@4'bgs	Batch ID: 12765	RunNo: 18084							
Prep Date:	4/17/2014	Analysis Date: 4/19/2014	SeqNo: 522651	Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.048	0.9606	0.07186	107	67.4	135			
Toluene	1.7	0.048	0.9606	0.4396	134	72.6	135			
Ethylbenzene	1.4	0.048	0.9606	0.1493	128	69.4	143			
Xylenes, Total	6.6	0.096	2.882	1.800	165	70.8	144			S
Surr: 4-Bromofluorobenzene	1.2		0.9606		121	80	120			S

Sample ID	1404817-001AMSD	SampType: MSD	TestCode: EPA Method 8021B: Volatiles							
Client ID:	SC-1@4'bgs	Batch ID: 12765	RunNo: 18084							
Prep Date:	4/17/2014	Analysis Date: 4/19/2014	SeqNo: 522652	Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.2	0.048	0.9615	0.07186	114	67.4	135	5.86	20	
Toluene	1.6	0.048	0.9615	0.4396	120	72.6	135	8.36	20	
Ethylbenzene	1.3	0.048	0.9615	0.1493	118	69.4	143	7.41	20	
Xylenes, Total	5.5	0.096	2.885	1.800	129	70.8	144	17.1	20	
Surr: 4-Bromofluorobenzene	1.2		0.9615		122	80	120	0	0	S

Qualifiers:

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

Sample Log-In Check List

Client Name: SMA-FARM

Work Order Number: 1404817

RcptNo: 1

Received by/date:

[Signature]

04/17/14

Logged By: Ashley Gallegos

4/17/2014 10:10:00 AM

[Signature]

Completed By: Ashley Gallegos

4/17/2014 12:00:12 PM

[Signature]

Reviewed By:

CS

04/17/14

Chain of Custody

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

Log In

- 4. Was an attempt made to cool the samples? Yes ✓ No NA
- 5. Were all samples received at a temperature of >0° 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? Yes ✓ No
 (Note discrepancies on chain of custody) # 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? Yes ✓ No Checked by:
- (If no, notify customer for authorization.)

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 °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			

Release Information

4/16/14 SJM

Name	Howell m # 2A
Location	Latitude/Longitude
	36.762424, -107.718116
	Section, Township, Range
	S31 T30N R8W
Reported To	Tom Long
Area Supervisor	Dwayne Dixon
Diameter of Pipeline	N/A
Source of Release	Methanol Tank
Release Contents	Methanol, NG, NG liquids
Release Volume	unknown
Subcontractor	
Disposal Facility	
Yd³ Contam. Soil	
PO/WO/AFE	

Notes:

Field Screening

Location Name				Date	
Howell M #1 A				4/16/14	
Location Name	Description	Depth (Feet BGS)	Time Collected	Time Screened	PID Reading (ppm)
SC-1	@ RP, beneath methanol tank	0	1150	1220	994.8
↓	"	1	1155	1221	1594
	"	2	1202	1222	1681
	"	3	1207	1223	735.3
	SC-2	5' N	0.5	1215	1224
SC-3	5' W	0.5	1216	1225	19.9
SC-4	5' S	0.5	1217	1226	44.3
SC-5	5' E	0.5	1218	1227	7.4
^{as sample} SC-1	see above	4'	1240	1255	1702
SC-1	" "	5'	1250	1256	827.5

CHECKED

BY

- on site @ 11:40

- HASP, begin site assessment

- Area of staining below methanol tank measures 48" in diameter

- Hand auger beneath tank to determine extent of release

- Contact Tom Long and give assessment results, Tom request

- Sample collected @ 4' bgs @ R.P.

- off site @ 13:15

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.
OIL CONS. DIV DIST. 3
AUG 07 2014

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company: Enterprise Field Services LLC c/o Env	Contact: Thomas Long
Address: P.O. Box 4324, Houston, TX 77210	Telephone No. 505-599-2286
Facility Name: GCU #273 Well Tie/Lateral 3E-1	Facility Type: Natural Gas Gathering Line
Surface Owner: NAPI/Navajo Tribal	Mineral Owner: NAPI/Navajo Tribal
API No.	

LOCATION OF RELEASE

Unit Letter A	Section 31	Township 28N	Range 12W	Feet from the 1132	North South Line	Feet from the 92	East West Line	County San Juan
-------------------------	----------------------	------------------------	---------------------	---------------------------------	----------------------------	-------------------------------	--------------------------	---------------------------

Latitude 36.622800 Longitude -108.144360

NATURE OF RELEASE

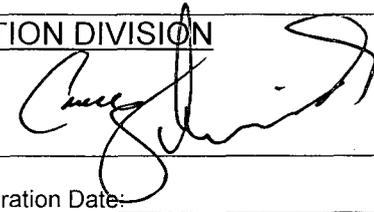
Type of Release: Natural Gas	Volume of Release: Unknown	Volume Recovered: Unknown
Source of Release: Suspected internal corrosion	Date and Hour of Occurrence: 7/2/2014 @ 12:30 p.m.	Date and Hour of Discovery: 7/2/2014 @ 1:30 p.m.
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom? Courtesy Notification to NMOCD – Cory Smith, NAPI; Steve Austin - NNEPA	
By Whom? Thomas Long	Date and Hour Courtesy Notification 7/9/2014 @10:15 a.m.	
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: Enterprise personnel responded a possible line leak on the GCU #273 Well Tie/Lateral 3E-1 pipeline. The leak was verified and pipeline was depressurized and applied lock out tag out was applied. A surface area of approximately two (2) feet wide by six (6) feet long was affected. The repairs were completed on July 19, 2014.

Describe Area Affected and Cleanup Action Taken.*: The repairs were completed on July 19, 2014. The final excavation measured approximately fifty (50) feet long by ten (10) feet wide by five (5) feet deep. The stockpile soil was sampled to determine contaminant concentrations. Laboratory analysis indicated contaminant concentrations were below New Mexico Oil Conservation Division remediation standards and stockpile soils were used as backfill. A third party environmental contractor corrective action report is included with this "final" c-141.

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: Ivan W. Zirbes	Approved by Environmental Specialist: 	
Title: Sr. Director, Environmental	Approval Date: 9/5/14	Expiration Date:
E-mail Address: snolan@eprod.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 8-1-2014 Phone: (713) 381-6595		

* Attach Additional Sheets If Necessary

#NCS 1424856283

36

Enterprise Products
Lateral 3E-1/ GCU #273 Pipeline Release
Latitude North 36.62277°, Longitude West -108.14437°
Unit A Section 31 T28N R12W
San Juan County, New Mexico
July 23, 2014



Submitted To:

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

Submitted By:

Souder, Miller & Associates
401 West Broadway
Farmington, NM 87401
(505) 325-7535



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2.0	Introduction.....	1
3.0	Site Ranking and Land Jurisdiction	2
4.0	Summary of Field Activities	2
5.0	Conclusions and Recommendations	3
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Table 2: Site Ranking

Table 3: Summary of Field Screening Results

Table 4: Summary of Laboratory Analysis

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Appendix B: Site Photography

Appendix C: Laboratory Report

1.0 Executive Summary

On July 1 and 2, 2014, Souder, Miller & Associates (SMA) responded to a hydrocarbon release associated with the Katherine Pierce #1 well tie pipeline release. The table below summarizes information about the release and remediation activities.

TABLE 1: RELEASE INFORMATION				
Name	Lateral 3E-1/ GCU #273 Pipeline Release			
Location	Latitude/Longitude		Section, Township, Range	
		36.62277°	-108.14437°	Unit A (NE ¼ /NE ¼) Section 31
Date Reported	July 2, 2014			
Reported by	Tom Long			
Land Owner	Navajo Allotted Land			
Reported To	New Mexico Oil Conservation Division (NMOCD)			
Diameter of Pipeline	4 inch			
Source of Release	Internal Corrosion			
Release Contents	Natural Gas/Condensate			
Release Volume: Natural Gas	Unknown			
Release Volume: Liquids/Condensate	Unknown			
Nearest Waterway	Unnamed Tributary Wash of Gallegos Canyon Wash			
Depth to Groundwater	Less than 50 feet			
Nearest Domestic Water Source	Greater than 1 mile			
NMOCD Ranking	40			
SMA Response Dates	July 17, 2014			
Subcontractors	West States Energy (WSEC)			
Disposal Facility	Not Applicable			
Yd ³ Contaminated Soil Excavated and Disposed	0			

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

3E-1/ Gallegos Canyon Unit (GCU) #273 pipeline release. The release was due to internal corrosion of the 4-inch, underground lateral pipeline segment. An unknown amount of natural gas and liquids/condensate was released. The release was reported on July 2, 2014 and was located in Unit A (NE¼ /NE ¼), Section 31, Township 28 North, Range 12 West, 36.62277°, -108.14437°, 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 60 feet south of an unnamed tributary wash of the Gallegos Canyon Wash on land owned by the Navajo Tribe located approximately 5,620 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 recorded wells were located within 1,000 feet of the release site and no wells were located within a 1 mile radius of the site.

The physical location of this release is within the jurisdiction of NMOCD. 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, ethylbenzene, 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 17, 2014 SMA visited the release site to oversee excavation of the pipeline during repair activities. During the excavation, SMA delineated the release area through field screening using a calibrated photoionization detector (PID). The excavation of subsurface pipeline and repairs were performed by West States Energy Contractors (WSEC) using a rubber tired backhoe. During the excavation event, soil samples were collected for field screening to determine the extent of the release and to further guide the excavation. On July 17, 2014, laboratory samples were collected from the base of the excavation at 5 feet bgs and submitted for rush (24 hour) analysis. The final excavation measured approximately 50 feet long by 10 feet wide with maximum excavation depth of approximately 5 feet below ground surface where sandstone bedrock was encountered. The estimated area of impact from the pipeline release measured approximately 6 square feet based on visual observation. The additional excavation was solely for repair activities. Table 3 summarizes the field screening results. Field notes are included in Appendix A.

Field screening of the excavated material determined that the soils removed were suitable for use as backfill material. Laboratory analysis further confirmed the use of the stockpiled material for backfill. No soils were exported off site for disposal.

All laboratory soil samples were field screened with a calibrated PID. No samples exceeded field screening criteria. Samples were 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 for conformation analysis. Figure 3 illustrates the extent of the excavation and laboratory results.

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 40: 10 ppm benzene, 50 ppm total BTEX, and 100 ppm TPH. Laboratory analytical results were below the NMOCD Guidelines for benzene, total BTEX, and TPH (GRO/DRO) for the all samples collected on July 17, 2014 except the sample collected from the base of the excavation, just below the pipeline release point at 5 feet bgs. Laboratory analytical results for the base sample detected DRO at 110 mg/kg, 10 ppm above NMOCD Guidelines. All other parameters and additional samples were below practical laboratory detection limits. Enterprise Products contacted NMOCD and discussed the laboratory results and site characteristics. The discussion determined a DRO concentration of 10 ppm above guidelines in the sandstone bedrock was inconsequential. Soil contaminant concentrations are illustrated in Figure 3. A summary of laboratory analysis is included in Table 4. Laboratory report is included in Appendix D.

SMA believes that there is no immediate threat to groundwater or ephemeral surface water given the concentration of DRO in the bedrock of the excavation. Soil samples from the base of the excavation at a depth of 5 feet bgs were collected from competent sandstone. Additionally, the longer chain DRO compounds are less likely to migrate in the subsurface than volatile organics, which are below laboratory detection levels. SMA recommends on future action at the release site.

6.0 Closure and Limitations

The scope of our services consisted of the performance of a preliminary spill assessment, regulatory liaison, contractor 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 Steve Moskal or Reid Allan at 505-325-7535.

Submitted by:

Reviewed by:

SOUDER, MILLER & ASSOCIATES

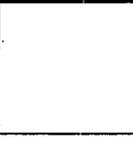
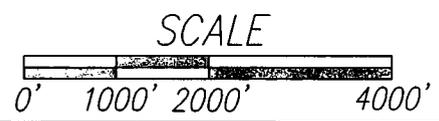
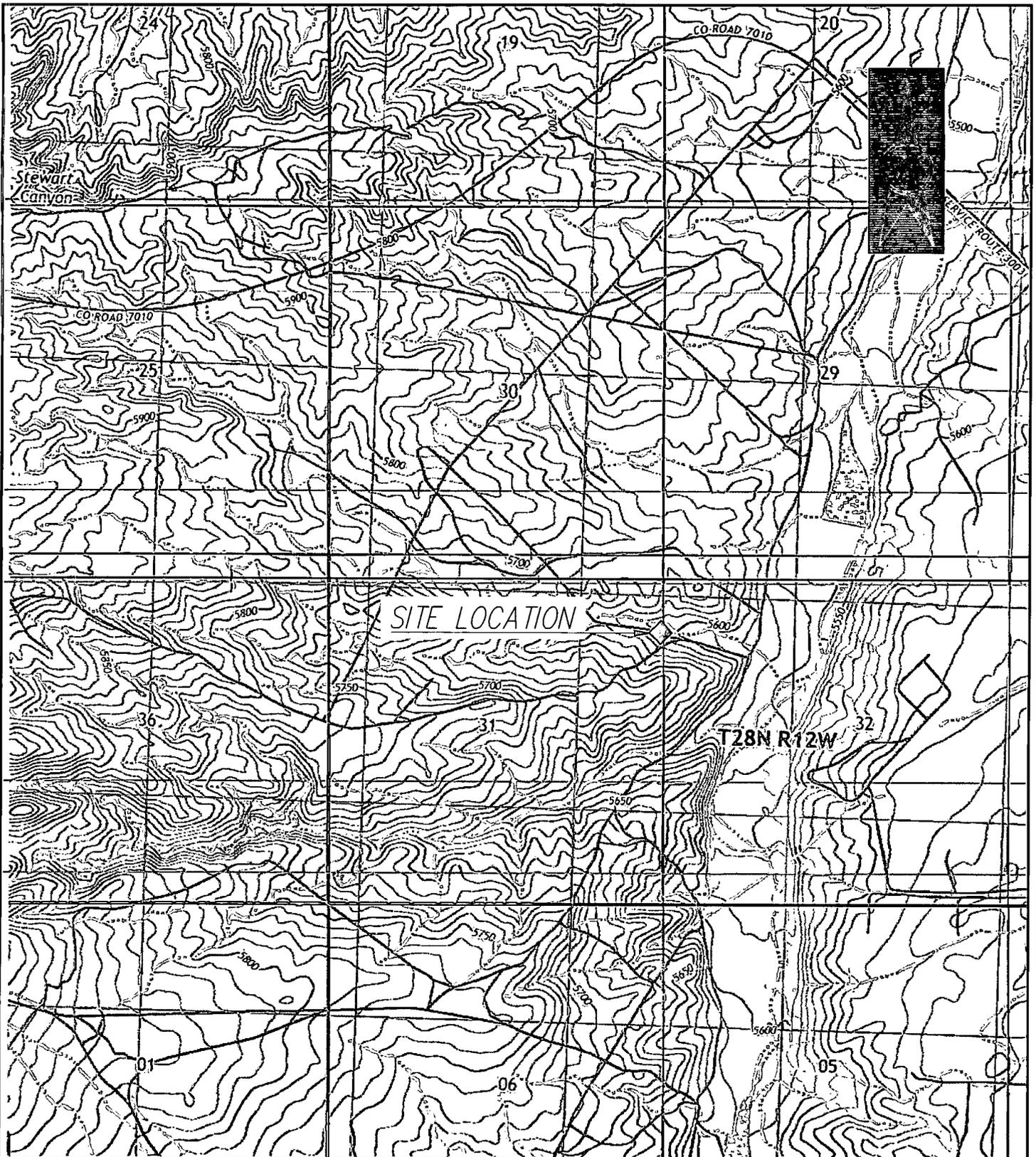


Steve Moskal
Project Scientist



Reid S. Allan, PG
Principal Scientist

FIGURES



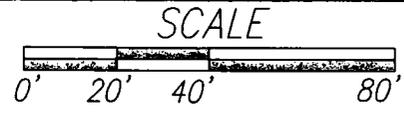
SOUDER, MILLER & ASSOCIATES
 401 W. BROADWAY
 FARMINGTON, NM 87401
 Phone (505) 325-7535 Toll-Free (800) 519-0098 Fax (505) 325-0045
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 Cortez - Grand Junction - Montrose, CO - Safford, AZ - Moab, UT

ENTERPRISE FARMINGTON, NEW MEXICO
VICINITY MAP
LATERAL 3E-1/ GCU #273
SECTION 31, T28N, R12W
 SAN JUAN COUNTY, NEW MEXICO

Designed SM	Drawn DJB	Checked RSA
Date: 7/22/2014		
Scale: Horiz: 1"=2000' Vert: N/A		
Project No: 5122855		
Sheet: 1		



SITE LOCATION



SOUDER, MILLER & ASSOCIATES
 401 W. BROADWAY
 FARMINGTON, NM 87401
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ENTERPRISE

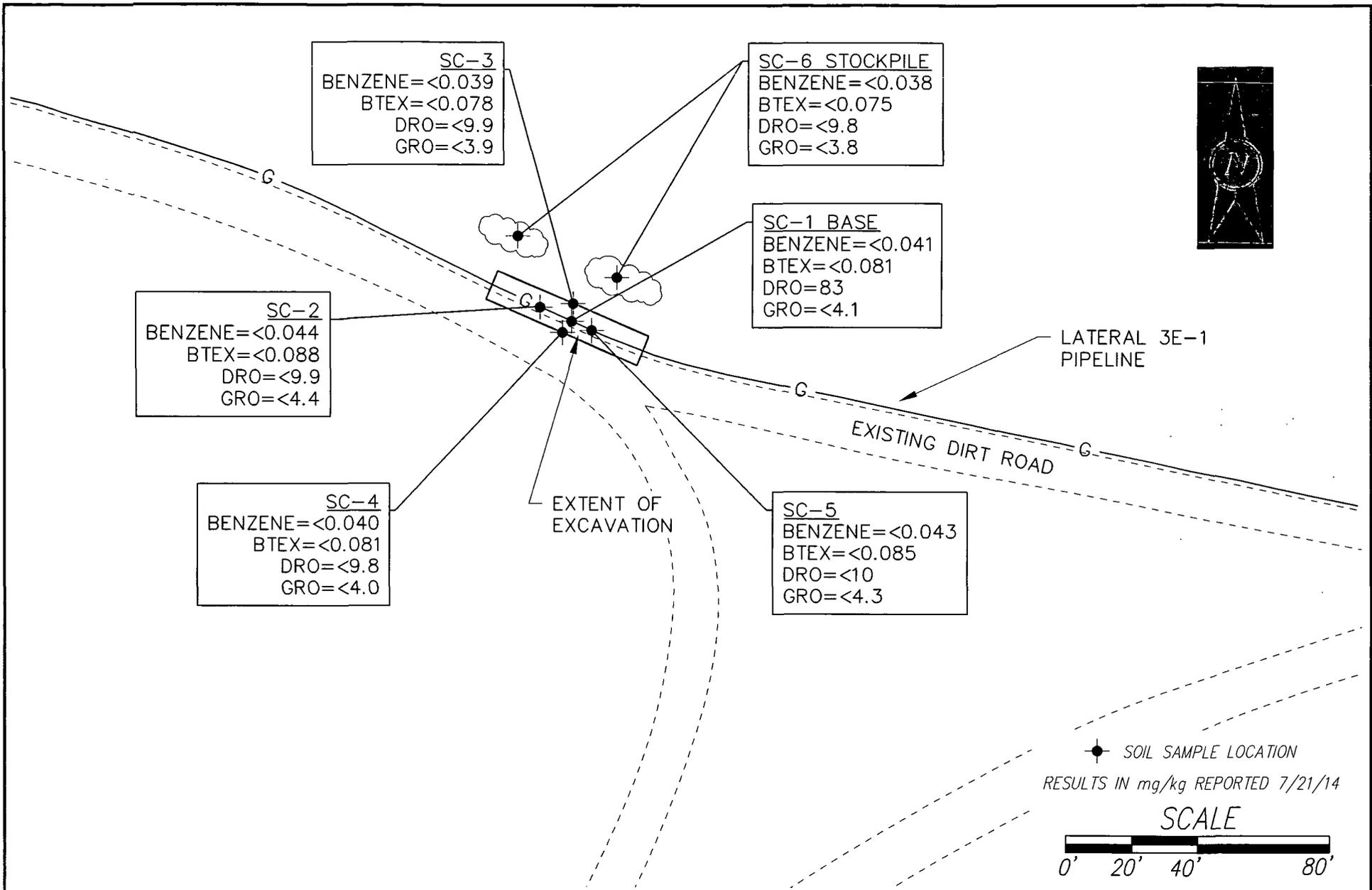
FARMINGTON, NEW MEXICO

Designed SM	Drawn DJB	Checked RSA
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SITE LOCATION MAP
LATERAL 3E-1/ GCU #273
SECTION 31, T28N, R12W

SAN JUAN COUNTY, NEW MEXICO

Date:	7/22/2014
Scale: Horiz:	1"=40'
Vert:	N/A
Project No:	5122855
Sheet:	2



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ENTERPRISE

FARMINGTON, NEW MEXICO

SOIL CONTAMINANT CONCENTRATION MAP
LATERAL 3E-1/ GCU #273
SECTION 31, T28N, R12W

SAN JUAN COUNTY, NEW MEXICO

Designed SM	Drawn DJB	Checked RSA
Date: 7/22/2014		
Scale: Horiz: 1"=40' Vert: N/A		
Project No: 5122855		
Sheet: 3		

TABLES

Enterprise Products
Table 2: Site Ranking

Lateral 3E-1/GCU #273
Pipeline Release
7/23/2014

Depth to Groundwater	NMOCD Numeric Rank for this Site	Source for Ranking	Notes
< 50 BGS = 20	20	Verified using Google Earth and topo maps: field verified	Groundwater is assumed to be between 10 to 50 feet below ground surface
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	Verified using Google Earth and topo maps: field verified	A unnamed tributary of the Gallegos wash is <200' away from the release
200' - 1000' = 10			
>1000' = 0			
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' from a private domestic water source? YES OR NO to BOTH. YES = 20, NO = 0	0	New Mexico State Engineer's Office online water well data base	There are no recorded wells within Sections 28, 29, 30 or 32 of T28N, R12W.
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



Table 3: Summary of Excavation Field Screening Results

FIELD SCREENING RESULTS SUMMARY					
Date	Time	Field Screening Reference	Sample Depth (Feet BGS)	PID Reading	Lab Sample Collected Y/N
7/17/2014	12:15	Base @ Realase Point (RP)	5	2.4	Y
7/17/2014	12:16	W. Base (~12' from RP)	0-4.5	1.7	Y
7/17/2014	12:17	N. Wall	0-4.5	1.4	Y
7/17/2014	12:18	S. Wall	0-4.5	1.7	Y
7/17/2014	12:19	E. Wall	0-4.5	1.2	Y
7/17/2014	12:45	Stockpile	N/A	0	Y



Enterprise Products

Lateral 3E-1/ GCU #273

Table 4: Summary of Laboratory Analysis

Pipeline Release

Results in mg/Kg

7/23/2014

Date	Time	Sample ID	Sample Depth (Feet BGS)	Method 8015 GRO	Method 8015 DRO	Method 8021 Benzene	Method 8021 BTEX
NMOCD Guidelines		NMOCD Site Ranking:		100 ppm		10 ppm	50 ppm
7/17/2014	12:15	SC-1: Base @ Release Point (RP)	5	<4.1	110	<0.041	<0.081
7/17/2014	12:16	SC-2: W. Base (~12' from RP)	0-4.5	<4.4	<9.9	<0.044	<0.088
7/17/2014	12:17	SC-3: N. Wall	0-4.5	<3.9	<9.9	<0.039	<0.078
7/17/2014	12:18	SC-4: S. Wall	0-4.5	<4.0	<9.8	<0.040	<0.081
7/17/2014	12:19	SC-5: E. Wall	0-4.5	<4.3	<10	<0.043	<0.085
7/17/2014	12:45	Stockpile	N/A	<3.8	<9.8	<0.038	<0.075



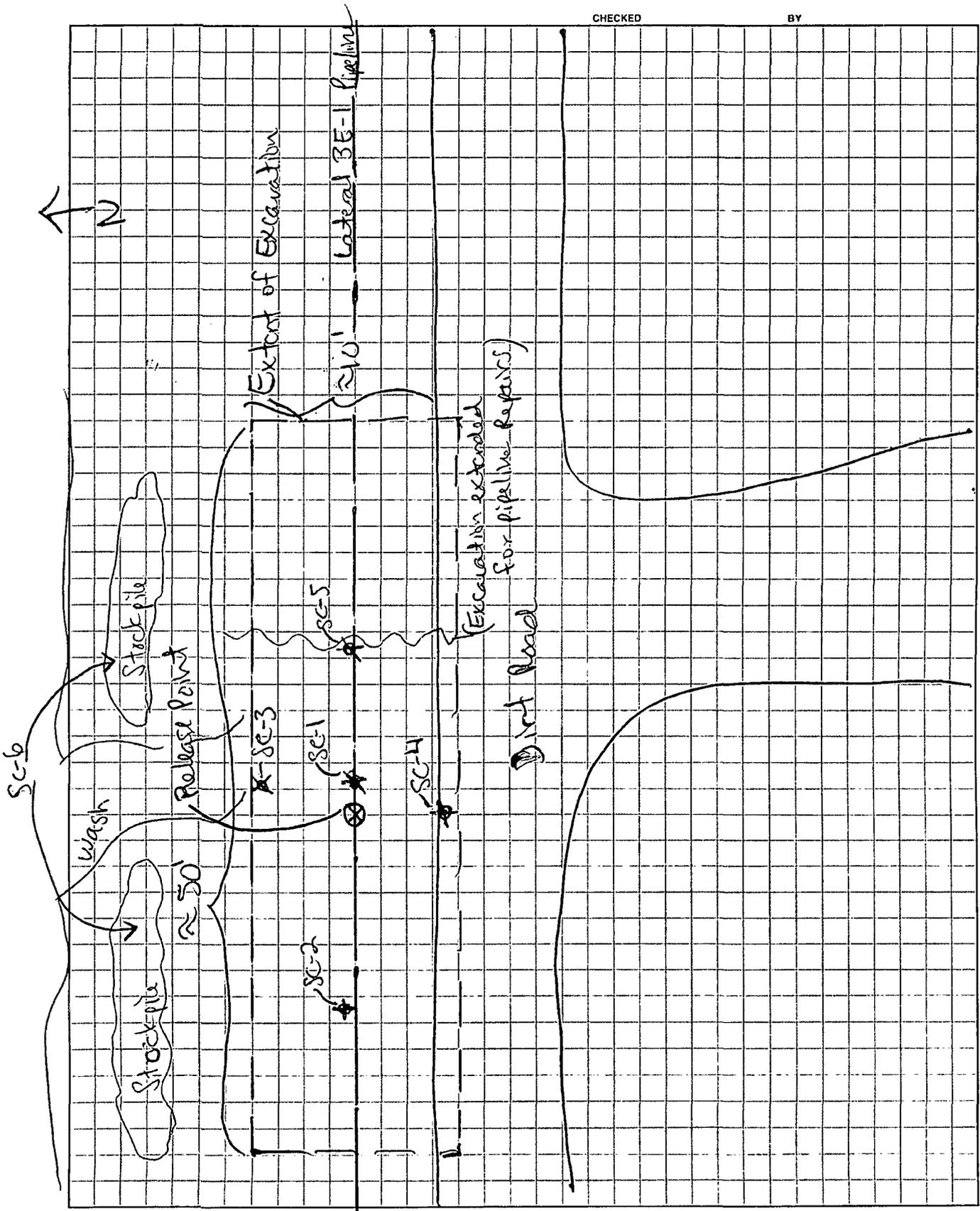
APPENDIX A
FIELD NOTES

Release Information

Name	Lateral 3E-1 / GCU #273
Location	Latitude/Longitude
	36.62277, -108.14437
	Section, Township, Range
	NE/NE, S 31, T28N, R12W
Reported To	Tom Long
Area Supervisor	M.E. Eddleman
Diameter of Pipeline	4"
Source of Release	Corrosion
Release Contents	NG # condensate liquid (minimal)
Release Volume	unknown
Subcontractor	WSEC
Disposal Facility	Envirotech
Yd³ Contam. Soil	
PO/WO/AFE	

Notes:

- ON SITE @ 12:00PM, LOTO, Safe work, HASP
- Excavation has already exposed release point. The release was discovered approx 1-2 days after it began
- Collect initial assessment samples for field screening (attached map)
- Visual observation indicates minimal impact. Line had been exposed by surface erosion and lost gas likely was released to the atmosphere
- Collect stockpile sample for verification for use as backfill
- off site @ 1330



APPENDIX B
SITE PHOTOGRAPHY

Site Photographs
Enterprise Products Lateral 3E-1/GCU #273 Pipeline Release

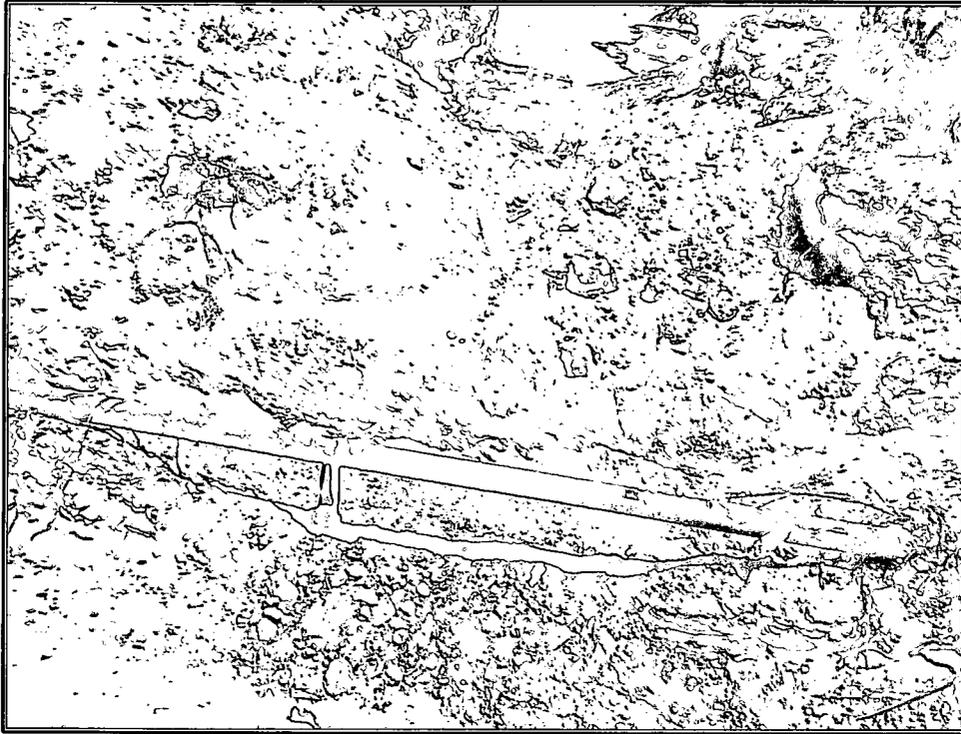


Photo 1: View of the pipeline release point facing north.

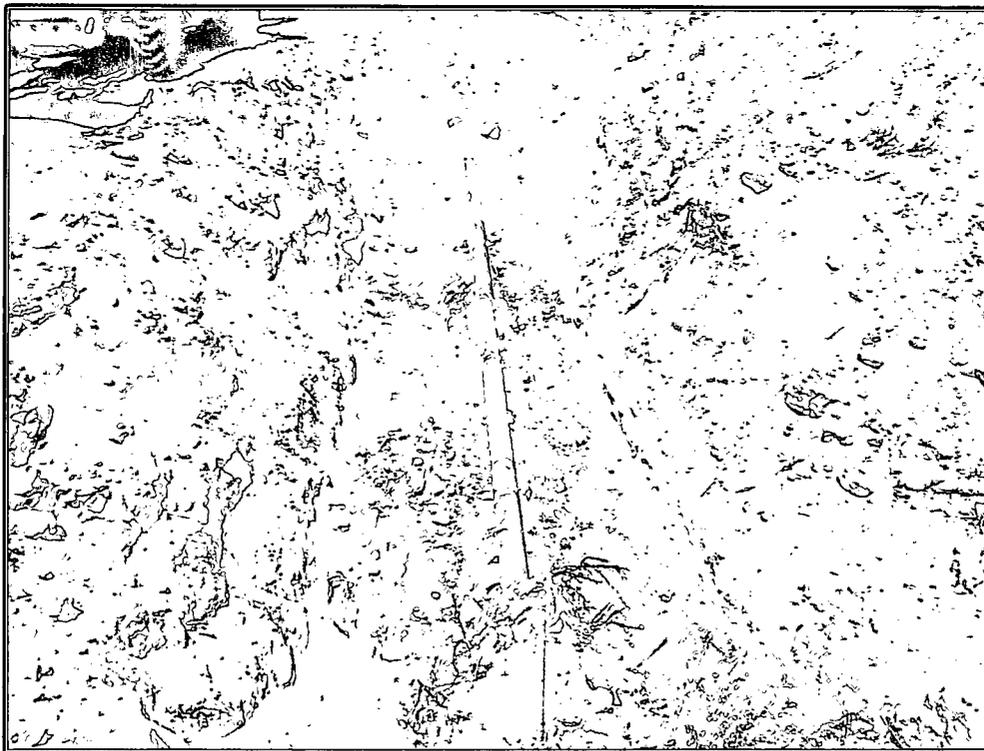


Photo 2: View of the extent of the excavation, facing west.

Site Photographs
Enterprise Products Lateral 3E-1/GCU #273 Pipeline Release



Photo 3: View of pipeline repair activities, facing northwest

APPENDIX C

LABORATORY ANALYTICAL REPORTS



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

July 21, 2014

Steve Moskal
Souder, Miller and Associates
401 W. Broadway
Farmington, NM 87401
TEL: (505) 325-5667
FAX

RE: Lateral 3E-1/GCU#273

OrderNo.: 1407843

Dear Steve Moskal:

Hall Environmental Analysis Laboratory received 6 sample(s) on 7/18/2014 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Client Sample ID: SC-1 Base @ RP

Project: Lateral 3E-1/GCU#273

Collection Date: 7/17/2014 12:15:00 PM

Lab ID: 1407843-001

Matrix: MEOH (SOIL)

Received Date: 7/18/2014 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	83.	10		mg/Kg	1	7/19/2014 1:52:38 PM	14315
Surr: DNOP	79.6	57.9-140		%REC	1	7/19/2014 1:52:38 PM	14315
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.1		mg/Kg	1	7/18/2014 10:38:58 AM	R19983
Surr: BFB	98.7	80-120		%REC	1	7/18/2014 10:38:58 AM	R19983
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.041		mg/Kg	1	7/18/2014 10:38:58 AM	R19983
Toluene	ND	0.041		mg/Kg	1	7/18/2014 10:38:58 AM	R19983
Ethylbenzene	ND	0.041		mg/Kg	1	7/18/2014 10:38:58 AM	R19983
Xylenes, Total	ND	0.081		mg/Kg	1	7/18/2014 10:38:58 AM	R19983
Surr: 4-Bromofluorobenzene	101	80-120		%REC	1	7/18/2014 10:38:58 AM	R19983

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Client Sample ID: SC-2 W Base @ 4.5'

Project: Lateral 3E-1/GCU#273

Collection Date: 7/17/2014 12:16:00 PM

Lab ID: 1407843-002

Matrix: MEOH (SOIL)

Received Date: 7/18/2014 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	7/18/2014 12:01:55 PM	14297
Surr: DNOP	82.5	57.9-140		%REC	1	7/18/2014 12:01:55 PM	14297
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.4		mg/Kg	1	7/18/2014 11:09:13 AM	R19983
Surr: BFB	108	80-120		%REC	1	7/18/2014 11:09:13 AM	R19983
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.044		mg/Kg	1	7/18/2014 11:09:13 AM	R19983
Toluene	ND	0.044		mg/Kg	1	7/18/2014 11:09:13 AM	R19983
Ethylbenzene	ND	0.044		mg/Kg	1	7/18/2014 11:09:13 AM	R19983
Xylenes, Total	ND	0.088		mg/Kg	1	7/18/2014 11:09:13 AM	R19983
Surr: 4-Bromofluorobenzene	118	80-120		%REC	1	7/18/2014 11:09:13 AM	R19983

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Client Sample ID: SC-3 N Wall 0-4.5'

Project: Lateral 3E-1/GCU#273

Collection Date: 7/17/2014 12:17:00 PM

Lab ID: 1407843-003

Matrix: MEOH (SOIL)

Received Date: 7/18/2014 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	7/18/2014 12:33:25 PM	14297
Surr: DNOP	84.6	57.9-140		%REC	1	7/18/2014 12:33:25 PM	14297
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.9		mg/Kg	1	7/18/2014 11:39:25 AM	R19983
Surr: BFB	98.1	80-120		%REC	1	7/18/2014 11:39:25 AM	R19983
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.039		mg/Kg	1	7/18/2014 11:39:25 AM	R19983
Toluene	ND	0.039		mg/Kg	1	7/18/2014 11:39:25 AM	R19983
Ethylbenzene	ND	0.039		mg/Kg	1	7/18/2014 11:39:25 AM	R19983
Xylenes, Total	ND	0.078		mg/Kg	1	7/18/2014 11:39:25 AM	R19983
Surr: 4-Bromofluorobenzene	99.5	80-120		%REC	1	7/18/2014 11:39:25 AM	R19983

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Client Sample ID: SC-4 S Wall 0-4.5'

Project: Lateral 3E-1/GCU#273

Collection Date: 7/17/2014 12:18:00 PM

Lab ID: 1407843-004

Matrix: MEOH (SOIL)

Received Date: 7/18/2014 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	7/18/2014 1:04:48 PM	14297
Surr: DNOP	81.8	57.9-140		%REC	1	7/18/2014 1:04:48 PM	14297
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.0		mg/Kg	1	7/18/2014 12:09:22 PM	R19983
Surr: BFB	110	80-120		%REC	1	7/18/2014 12:09:22 PM	R19983
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.040		mg/Kg	1	7/18/2014 12:09:22 PM	R19983
Toluene	ND	0.040		mg/Kg	1	7/18/2014 12:09:22 PM	R19983
Ethylbenzene	ND	0.040		mg/Kg	1	7/18/2014 12:09:22 PM	R19983
Xylenes, Total	ND	0.081		mg/Kg	1	7/18/2014 12:09:22 PM	R19983
Surr: 4-Bromofluorobenzene	119	80-120		%REC	1	7/18/2014 12:09:22 PM	R19983

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller and Associates

Client Sample ID: SC-5 E Wall 0-4.5'

Project: Lateral 3E-1/GCU#273

Collection Date: 7/17/2014 12:19:00 PM

Lab ID: 1407843-005

Matrix: MEOH (SOIL)

Received Date: 7/18/2014 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	7/18/2014 1:36:13 PM	14297
Surr: DNOP	77.7	57.9-140		%REC	1	7/18/2014 1:36:13 PM	14297
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.3		mg/Kg	1	7/18/2014 12:39:23 PM	R19983
Surr: BFB	93.0	80-120		%REC	1	7/18/2014 12:39:23 PM	R19983
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.043		mg/Kg	1	7/18/2014 12:39:23 PM	R19983
Toluene	ND	0.043		mg/Kg	1	7/18/2014 12:39:23 PM	R19983
Ethylbenzene	ND	0.043		mg/Kg	1	7/18/2014 12:39:23 PM	R19983
Xylenes, Total	ND	0.085		mg/Kg	1	7/18/2014 12:39:23 PM	R19983
Surr: 4-Bromofluorobenzene	97.2	80-120		%REC	1	7/18/2014 12:39:23 PM	R19983

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

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

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Souder, Miller and Associates**Client Sample ID:** SC-6 Stockpile**Project:** Lateral 3E-1/GCU#273**Collection Date:** 7/17/2014 12:45:00 PM**Lab ID:** 1407843-006**Matrix:** MEOH (SOIL)**Received Date:** 7/18/2014 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	7/18/2014 2:07:30 PM	14297
Surr: DNOP	72.0	57.9-140		%REC	1	7/18/2014 2:07:30 PM	14297
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg	1	7/18/2014 1:09:40 PM	R19983
Surr: BFB	105	80-120		%REC	1	7/18/2014 1:09:40 PM	R19983
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.038		mg/Kg	1	7/18/2014 1:09:40 PM	R19983
Toluene	ND	0.038		mg/Kg	1	7/18/2014 1:09:40 PM	R19983
Ethylbenzene	ND	0.038		mg/Kg	1	7/18/2014 1:09:40 PM	R19983
Xylenes, Total	ND	0.075		mg/Kg	1	7/18/2014 1:09:40 PM	R19983
Surr: 4-Bromofluorobenzene	113	80-120		%REC	1	7/18/2014 1:09:40 PM	R19983

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1407843

21-Jul-14

Client: Souder, Miller and Associates

Project: Lateral 3E-1/GCU#273

Sample ID	MB-14297	SampType:	MBLK	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	14297	RunNo:	19942					
Prep Date:	7/18/2014	Analysis Date:	7/18/2014	SeqNo:	580565	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	8.9		10.00		89.2	57.9	140			

Sample ID	LCS-14297	SampType:	LCS	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	14297	RunNo:	19942					
Prep Date:	7/18/2014	Analysis Date:	7/18/2014	SeqNo:	580566	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	65	10	50.00	0	130	68.6	130			S
Surr: DNOP	4.7		5.000		94.3	57.9	140			

Sample ID	MB-14220	SampType:	MBLK	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	14220	RunNo:	19942					
Prep Date:	7/15/2014	Analysis Date:	7/18/2014	SeqNo:	580642	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.0		10.00		90.2	57.9	140			

Sample ID	LCS-14220	SampType:	LCS	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	14220	RunNo:	19942					
Prep Date:	7/15/2014	Analysis Date:	7/18/2014	SeqNo:	580643	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.0		5.000		80.7	57.9	140			

Sample ID	MB-14301	SampType:	MBLK	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	14301	RunNo:	19974					
Prep Date:	7/18/2014	Analysis Date:	7/18/2014	SeqNo:	581081	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	7.4		10.00		73.9	57.9	140			

Sample ID	LCS-14301	SampType:	LCS	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	14301	RunNo:	19974					
Prep Date:	7/18/2014	Analysis Date:	7/18/2014	SeqNo:	581082	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.0		5.000		79.6	57.9	140			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1407843

21-Jul-14

Client: Souder, Miller and Associates

Project: Lateral 3E-1/GCU#273

Sample ID	MB-14300	SampType:	MBLK	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	14300	RunNo:	19999					
Prep Date:	7/18/2014	Analysis Date:	7/19/2014	SeqNo:	581178	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.2		10.00		82.4	57.9	140			

Sample ID	MB-14315	SampType:	MBLK	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	14315	RunNo:	19999					
Prep Date:	7/19/2014	Analysis Date:	7/19/2014	SeqNo:	581179	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	7.4		10.00		74.1	57.9	140			

Sample ID	LCS-14300	SampType:	LCS	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	14300	RunNo:	19999					
Prep Date:	7/18/2014	Analysis Date:	7/19/2014	SeqNo:	581180	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.3		5.000		85.7	57.9	140			

Sample ID	LCS-14315	SampType:	LCS	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	14315	RunNo:	19999					
Prep Date:	7/19/2014	Analysis Date:	7/19/2014	SeqNo:	581181	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	10	50.00	0	88.6	68.6	130			
Surr: DNOP	3.9		5.000		77.3	57.9	140			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1407843

21-Jul-14

Client: Souder, Miller and Associates

Project: Lateral 3E-1/GCU#273

Sample ID	5ML RB	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	R19983	RunNo:	19983					
Prep Date:		Analysis Date:	7/18/2014	SeqNo:	581140	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	990		1000		98.7	80	120			

Sample ID	2.5UG GRO LCS	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	R19983	RunNo:	19983					
Prep Date:		Analysis Date:	7/18/2014	SeqNo:	581141	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Gasoline Range Organics (GRO)	28	5.0	25.00	0	111	71.7	134			
Surr: BFB	1200		1000		122	80	120			S

Sample ID	1407843-003AMS	SampType:	MS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	SC-3 N Wall 0-4.5'	Batch ID:	R19983	RunNo:	19983					
Prep Date:		Analysis Date:	7/18/2014	SeqNo:	581145	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Gasoline Range Organics (GRO)	18	3.9	19.38	0	91.0	71.8	132			
Surr: BFB	830		775.2		107	80	120			

Sample ID	1407843-003AMSD	SampType:	MSD	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	SC-3 N Wall 0-4.5'	Batch ID:	R19983	RunNo:	19983					
Prep Date:		Analysis Date:	7/18/2014	SeqNo:	581146	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Gasoline Range Organics (GRO)	20	3.9	19.38	0	103	71.8	132	12.3	20	
Surr: BFB	880		775.2		114	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.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1407843

21-Jul-14

Client: Souder, Miller and Associates

Project: Lateral 3E-1/GCU#273

Sample ID	5ML RB	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	R19983	RunNo:	19983					
Prep Date:		Analysis Date:	7/18/2014	SeqNo:	581165	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	100NG BTEX LCS	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	R19983	RunNo:	19983					
Prep Date:		Analysis Date:	7/18/2014	SeqNo:	581166	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.050	1.000	0	96.3	80	120			
Toluene	0.95	0.050	1.000	0	94.8	80	120			
Ethylbenzene	0.94	0.050	1.000	0	93.8	80	120			
Xylenes, Total	2.9	0.10	3.000	0	97.1	80	120			
Surr: 4-Bromofluorobenzene	1.3		1.000		130	80	120			S

Qualifiers:

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

Sample Log-In Check List

Client Name: SMA-FARM

Work Order Number: 1407843

RcptNo: 1

Received by/date: *[Signature]* 07/18/14
 Logged By: Lindsay Mangin 7/18/2014 7:35:00 AM
 Completed By: Lindsay Mangin 7/18/2014 7:41:40 AM
 Reviewed By: *[Signature]* AS 07/18/14

[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° 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 °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.1	Good	Yes			

Chain-of-Custody Record

Client: Souder Miller Associates

Mailing Address: 401 W. Broadway
Farmington NM 87401

Phone #: 505-325-7535

Email or Fax#: steven.moskal@soudermiller.com

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

Accreditation
 NELAP Other _____

EDD (Type) _____

Turn-Around Time:
 Standard Rush Same Day

Project Name: Lateral 3E-1/GCU #273

Project #: 5122855

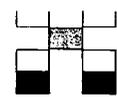
Project Manager: Steve Moskal

Sampler: " " " "

On Ice: Yes No

Sample Temperature: 21

ASOT 1814
Container Type and # Meat Kts
Preservative Type cooled
HEAL No. 1407843



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX (8021)	MTBE (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	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)
7/14	1215	soil	SC-1 Base @ RP	4oz X 2	cooled	-001	X	X	X										
	1216		SC-2 W Base @ 4.5'			-002	X	X	X										
	1217		SC-3 N wall 0-4.5'			-003	X	X	X										
	1218		SC-4 S wall 0-4.5'			-004	X	X	X										
	1219		SC-5 E wall 0-4.5'			-005	X	X	X										
	1245		SC-6 Stockpile			-006	X	X	X										

Date: <u>7/14</u>	Time: <u>1430</u>	Relinquished by: <u>[Signature]</u>	Received by: <u>Christie Walter</u>	Date: <u>7/14</u>	Time: <u>1557</u>	Remarks: <u>Please Invoice to Enterprise Products</u>
Date: <u>7/14</u>	Time: <u>1720</u>	Relinquished by: <u>Christie Walter</u>	Received by: <u>[Signature]</u>	Date: <u>07/18/14</u>	Time: <u>0735</u>	

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

Form C-141
Revised August 8, 2011

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

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

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company: Enterprise Field Services LLC	Contact: Thomas Long
Address: 614 Reilly Ave, Farmington, NM 87401	Telephone No. 505-599-2286
Facility Name: Lateral 6B-15 Pipeline	Facility Type: Gas gathering system pipeline

Surface Owner: Navajo Allotment	Mineral Owner: Navajo Tribal	API No.
---------------------------------	------------------------------	---------

LOCATION OF RELEASE

Unit Letter A	Section 20	Township 28N	Range 12W	Feet from the	North/South Line 772	Feet from the	East/West Line 87	County San Juan
------------------	---------------	-----------------	--------------	------------------	----------------------------	------------------	-------------------------	--------------------

Latitude 36.65289 Longitude -108.12636

OIL CONS. DIV DIST. 3

NATURE OF RELEASE

JUL 29 2014

Type of Release: Natural gas and possible associated liquids	Volume of Release: Unknown	Volume Recovered: Unknown
Source of Release: Natural gas gathering pipeline	Date and Hour of Occurrence: Unknown	Date and Hour of Discovery: 10/18/13 AT 7:00AM
Was Immediate Notice Given? Required <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

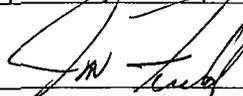
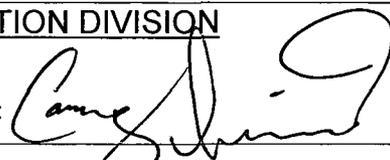
If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* During a routine pipeline patrol, a leak was discovered. The pipeline line was isolated and removed from service. Repairs to the pipeline were completed on October 21, 2013.

Describe Area Affected and Cleanup Action Taken.*

Remediation and repair activities were completed on October 21, 2013. Approximately 142 cubic yards of impacted soil was excavated and transported to a NMOCD approved land farm facility. The final excavation measured forth-five (45) feet long by ten (10) feet wide by seven (7) feet deep. A third party corrective action report is included with this "final" c-141.

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, Environmental	Approval Date: 9/8/14	Expiration Date:
E-mail Address: jefields@eprod.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 7/21/2014	Phone: (713)381-6684	

* Attach Additional Sheets If Necessary

#NCS 14125133417

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Southwest GEOSCIENCE

606 S. Rio Grande Avenue, Suite A
Aztec, New Mexico 87410
Ph: (505) 334-5200
Fax: (505) 334-5204

December 3, 2013

Enterprise Products Operating, LLC
614 Reilly Avenue
Farmington, NM 87401
Attn: **Ms. Runell Seale**

OIL CONS. DIV DIST. 3

JUL 29 2014

Re: **6B-15 Pipeline Release**
Corrective Action Summary
NE ¼ NE ¼, Sec 20, Township 28 North, Range 12 West
Rural San Juan County, NM
SWG Project No. 0413G016

Dear Ms. Seale:

Southwest Geoscience (SWG) appreciates the opportunity to submit this Corrective Action Summary detailing Enterprise's response actions related to the release of natural gas and associated liquids, if any, at the Enterprise Products Operating, LLC (Enterprise) 6B-15 Pipeline, referred to hereinafter as the "Site" or "subject Site". The Site is located in the NE ¼ of the NE ¼ of Section 20, Township 28 North, Range 12 West in rural San Juan County, Navajo Nation, New Mexico.

A topographic map is included as Figure 1, an aerial photograph of the Site vicinity is included as Figure 2, and a Site Map is included as Figure 3 of Attachment A. Photographic documentation is provided in Attachment B.

Response/Assessment Activities

On October 16th, 2013 Enterprise initiated activities to expose the pipeline at the location of a potential leak that was identified during a vapor survey. With the exception of apparently distressed vegetation, no surface expression of a release was visible at the Site. The leak was confirmed and repaired on October 18th, 2013, and reported to the New Mexico Oil Conservation Division (OCD) and Navajo Nation Environmental Protection Agency (NNEPA). Soils in the vicinity of the release that were affected by the release of natural gas and possible associated liquids were segregated for disposal, with the resulting excavation measuring approximately forty-five (45) feet long, ten (10) feet wide, and seven (7) feet deep. In total, 142 cubic yards of material were removed from the excavation and transported to the Envirotech, Inc. Soil Remediation Facility near Hilltop, NM for treatment/disposal. Groundwater was not encountered during the excavation activities.

Between October 17th and October 21st, 2013, SWG representative Kyle Summers utilized hand tools to collect samples from the sidewalls and floor of the excavated area at depths of 0.5 to 1.0 feet beyond the exposed surfaces. Upon retrieval of each sample from the excavation, a portion of the soil sample was placed in laboratory prepared glassware for potential laboratory analysis and a portion of the soil sample was placed into a plastic ziplock bag for field screening utilizing a photoionization detector (PID) capable of detecting volatile organic compounds (VOCs). The PID was calibrated utilizing an isobutylene standard prior to use in the field.

The soil samples selected for laboratory analysis were placed in laboratory prepared glassware, sealed with custody tape/labels and placed on ice in a cooler, which was secured with a custody seal. The sample coolers and completed chain-of-custody forms were relinquished to Envirotech Analytical Laboratory for rush turnaround. Laboratory analytical results are provided in Table 1 of Attachment C. The executed chain-of-custody form and laboratory data sheets are provided in Attachment D. The samples were submitted for the analyses of benzene, toluene, ethylbenzene, and total xylenes (BTEX) utilizing SW-846 Method 8021, and total petroleum hydrocarbons gasoline range organics (GRO) and diesel range organics (DRO) utilizing SW-846 Method 8015. Envirotech performed the analyses of samples under an adequate and documented quality assurance program to meet the project and data quality objectives.

The site is under the jurisdiction of the NNEPA, generally following the guidelines set forth by the New Mexico Energy, Minerals, and Natural Resources Department (EMNRD), Oil Conservation Division (OCD). In accordance with the OCD's *Guidelines for Remediation of Leaks, Spills and Releases*, SWG utilized the general site characteristics to determine the appropriate "ranking" for the Site. The ranking criteria and associated scoring are provided in the table below:

Ranking Criteria			Ranking Score
Depth to Groundwater	<50 feet	20	20
	50 to 99 feet	10	
	>100 feet	0	
Wellhead Protection Area • <1,000 feet from a water source, or; <200 feet from private domestic water source.	Yes	20	0
	No	0	
Distance to Surface Water Body	<200 feet	20	10
	200 to 1,000 feet	10	
	>1,000 feet	0	
Total Ranking Score			30

Based on SWG's evaluation of the scoring criteria, the Site would have a Total Ranking Score of 30. This ranking is based on the following:

- The depth to the initial groundwater-bearing zone is estimated to be less than 50 feet at the Site, based on the proximity of the Gallegos Canyon wash to the east.
- No water wells were identified on the State Engineer's water rights web site within one mile of the Site.
- The release occurred adjacent to a dry unnamed ephemeral wash that drains into Gallegos Canyon approximately 700 feet from the release site. The Gallegos Canyon wash ultimately drains into the San Juan River, approximately 3.2 miles to the north.

During the completion of a 1,000-foot receptor survey, SWG inspected the Site vicinity for dwellings, schools, hospitals, day care centers, nursing homes, businesses, parks and/or recreational areas, located within 1,000 feet of the Site. In addition, SWG evaluated the presence of sensitive ecological receptors such as surface water bodies, wildlife sanctuaries and/or

wetlands areas located within 1,000 feet of the Site. Gallegos Canyon wash, located 700 to 800 feet east of the Site, and the unnamed arroyo located adjacent to the Site are located within a 1,000 feet radius of the Site. No dwellings, schools, hospitals, day care centers, nursing homes, parks, recreational areas, or wildlife sanctuaries were observed within 1,000 feet of the Site.

SWG compared the TPH GRO/DRO and BTEX concentrations or laboratory reporting limits (RLs) associated with the confirmation soil samples collected from the excavation to the OCD *Remediation Action Levels* for Sites having a total ranking score of >20. The results of the soil sample analyses are summarized in Table 1 included in Attachment C.

Total Petroleum Hydrocarbons

Soil samples S-1, S-2, S-4, S-5, S-7, and S-8 did not exhibit TPH GRO/DRO concentrations above the OCD's *Remediation Action Level* of 100 mg/Kg.

Soil samples S-3 and S-6 exhibited combined TPH GRO/DRO concentrations of 1,900 mg/Kg and 5,670 mg/Kg, respectively, which are above the OCD's *Remediation Action Level* of 100 mg/Kg. The portion of the excavation represented by these samples was over-excavated and re-sampled (samples S-9 and S-10). Samples S-9 and S-10 did not exhibit TPH GRO/DRO concentrations above the OCD's *Remediation Action Level* of 100 mg/Kg.

Benzene and Total BTEX

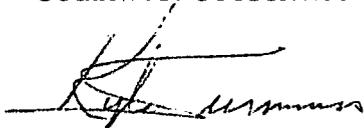
Soil samples S-1, S-2, S-4, S-5, S-7, and S-8 through S-5 did not exhibit benzene, toluene, ethylbenzene, total xylenes, or total BTEX concentrations above the OCD's *Remediation Action Levels*.

Soil samples S-3 and S-6 exhibited total BTEX concentrations of 54.2 mg/Kg and 132 mg/Kg, respectively, which are above the OCD's *Remediation Action Level* of 50 mg/Kg. The portion of the excavation represented by these samples was over-excavated and re-sampled (samples S-9 and S-10). Samples S-9 and S-10 did not exhibit total BTEX concentrations above the OCD's *Remediation Action Level* of 50 mg/Kg.

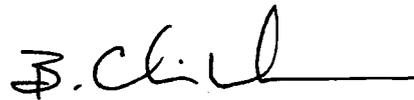
- Based on the results of corrective actions and laboratory analyses, no additional investigation or remediation appears warranted at this time.

If you should have any questions or comments regarding this letter report, please contact the undersigned at (505) 334-5200.

Sincerely,
Southwest Geoscience



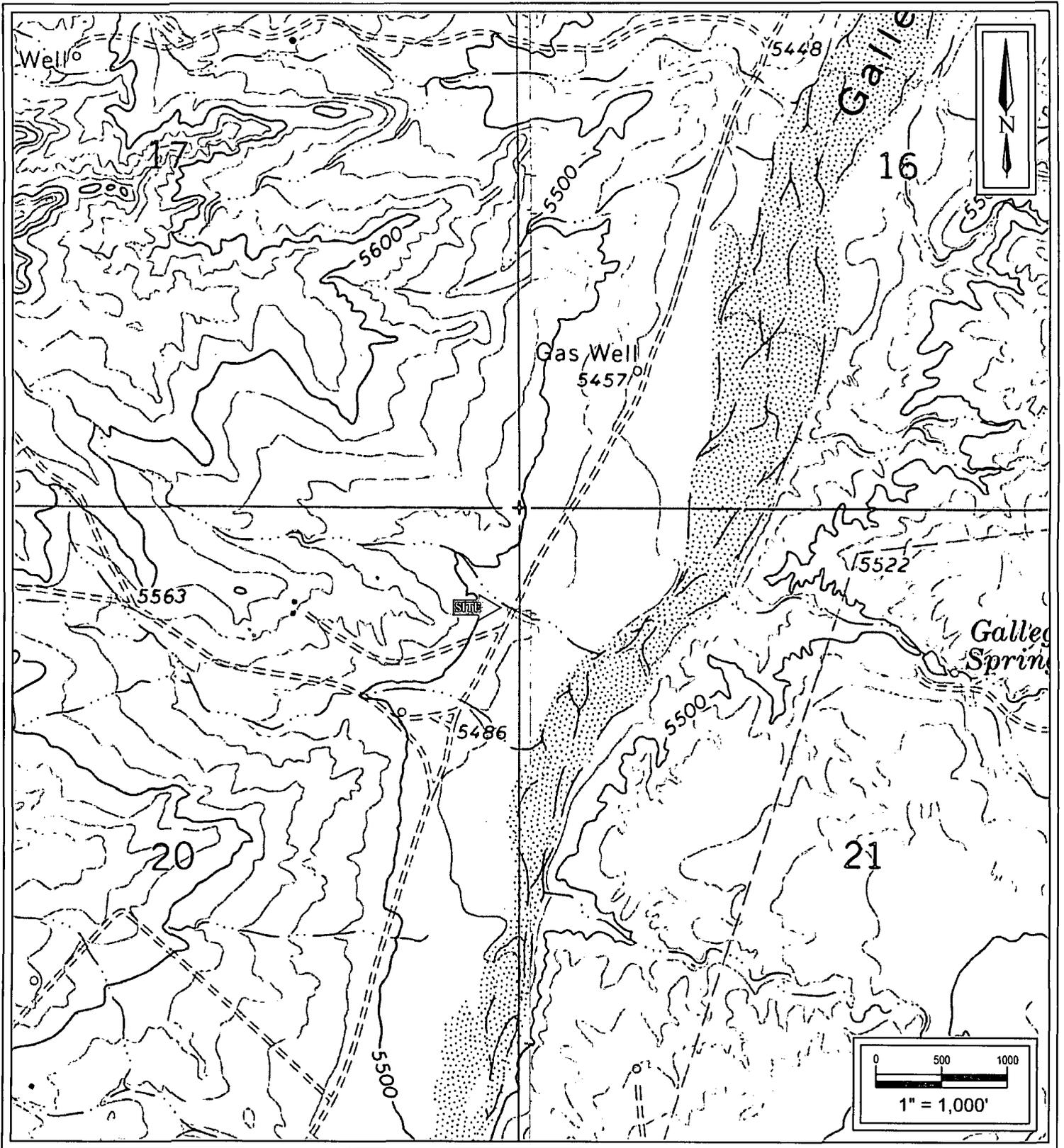
Kyle Summers C.P.G.
Manager, Four Corners



B. Chris Mitchell, P.G.
Principal Geoscientist

ATTACHMENT A

Figures



Lateral 6B-15 Pipeline Release
 Rural San Juan County,
 Navajo Nation, New Mexico

SWG Project No. 0413G016

Southwest
 GEOSCIENCE

Figure 1
Topographic Map
 Farmington South Quadrangle
 And Horn Canyon Quadrangle
 1965



Lateral 6B-15 Pipeline Release
Rural San Juan County,
Navajo Nation, New Mexico

SWG Project No. 0413G016

Southwest
GEOSCIENCE

Figure 2
Site Vicinity Map
2011 Aerial Photograph

DRY WASH



S5
10/17/2013

Benzene:	<0.05
Toluene:	0.06
Ethylbenzene:	<0.05
Xylenes:	0.07
Total BTEX:	0.12
GRO:	<5.00
DRO:	<29.9

S8
10/17/2013

Benzene:	<0.05
Toluene:	<0.05
Ethylbenzene:	<0.05
Xylenes:	<0.05
Total BTEX:	<0.05
GRO:	<4.99
DRO:	<29.9

S4
10/17/2013

Benzene:	<0.05
Toluene:	<0.05
Ethylbenzene:	<0.05
Xylenes:	<0.05
Total BTEX:	<0.05
GRO:	<5.00
DRO:	<29.9

S7
10/17/2013

Benzene:	<0.05
Toluene:	<0.05
Ethylbenzene:	<0.05
Xylenes:	<0.05
Total BTEX:	<0.05
GRO:	6.89
DRO:	36.6

S9
10/21/2013

Benzene:	<0.05
Toluene:	<0.05
Ethylbenzene:	<0.05
Xylenes:	0.07
Total BTEX:	0.07
GRO:	<5.00
DRO:	<30.0

S10
10/21/2013

Benzene:	<0.05
Toluene:	<0.05
Ethylbenzene:	<0.05
Xylenes:	0.06
Total BTEX:	0.06
GRO:	<5.00
DRO:	43.8

S2
10/17/2013

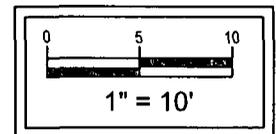
Benzene:	<0.05
Toluene:	<0.05
Ethylbenzene:	<0.05
Xylenes:	<0.05
Total BTEX:	<0.05
GRO:	<5.00
DRO:	<30.0

S1
10/16/2013

Benzene:	<0.05
Toluene:	<0.05
Ethylbenzene:	<0.05
Xylenes:	<0.05
Total BTEX:	<0.05
GRO:	5.65
DRO:	<30.0

LEGEND:

---	PIPELINE
△	RELEASE POINT
●	SAMPLE LOCATION



Lateral 6B-15 Pipeline Release
Rural San Juan County,
Navajo Nation, New Mexico

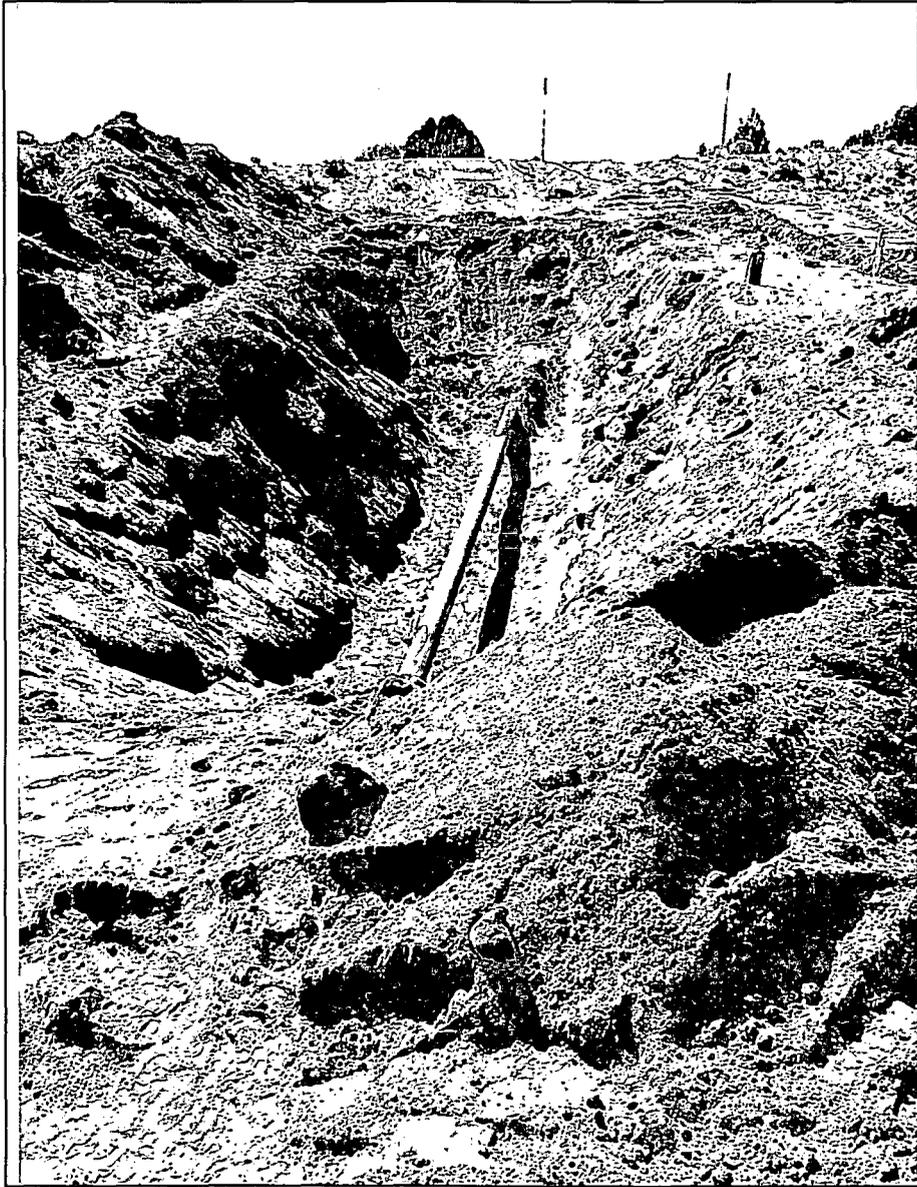
SWG Project No. 0413G016

Southwest
GEOSCIENCE

Figure 3
Site Map with Soil
Analytical Results

ATTACHMENT B

Photographic Documentation



1.) General view of the final extent of excavation and repaired pipeline.

ATTACHMENT C

Table

TABLE I

Lateral 6B-15 Pipeline Release
SOIL ANALYTICAL RESULTS

Sample I.D.	Date	Sample Depth (feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)
New Mexico Energy, Minerals & Natural Resources Department, Oil Conservation Division. Remediation Action Level			10	NE	NE	NE	50	100	
Confirmation Samples From Soils Which Were Removed by Excavation									
S-3	10.17.13	6.0	1.03	13.4	3.59	36.2	54.2	157	1,740
S-6	10.17.13	7.0	2.13	44.9	9.68	74.6	132	450	5,220
Confirmation Samples From Soils Remaining in Place									
S-1	10.16.13	6.0	<0.05	<0.05	<0.05	<0.05	<0.05	5.65	<30.0
S-2	10.17.13	6.0	<0.05	<0.05	<0.05	<0.05	<0.05	<5.00	<30.0
S-4	10.17.13	6.0	<0.05	<0.05	<0.05	<0.05	<0.05	<5.00	<29.9
S-5	10.17.13	6.0	<0.05	0.06	<0.05	0.07	0.12	<5.00	<29.9
S-7	10.17.13	6.0	<0.05	<0.05	<0.05	<0.05	<0.05	6.89	36.6
S-8	10.17.13	6.0	<0.05	<0.05	<0.05	<0.05	<0.05	<4.99	<29.9
S-9	10.21.13	10.0	<0.05	<0.05	<0.05	0.07	0.07	<5.00	<30.0
S-10	10.21.13	15.0	<0.05	<0.05	<0.05	0.06	0.06	<5.00	43.8

Note: Concentrations in bold and yellow exceed the applicable OCD Remediation Action Level

NE = Not Established

* = This area was subsequently over-excavated

ATTACHMENT D

Laboratory Data Sheets & Chain of Custody
Documentation



Analytical Report

Report Summary

Client: Southwest Geoscience
Chain Of Custody Number: 16228
Samples Received: 10/17/2013 3:30:00PM
Job Number: 07174-0003
Work Order: P310071
Project Name/Location: 6B-15

Entire Report Reviewed By:

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

Date: 10/21/13

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.



Southwest Geoscience 2351 W. Northwest Hwy Dallas TX, 75220	Project Name: 6B-15 Project Number: 07174-0003 Project Manager: Kyle Summers	Reported: 21-Oct-13 14:05
---	--	------------------------------

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S-1	P310071-01A	Soil	10/16/13	10/17/13	Glass Jar, 4 oz.
S-2	P310071-02A	Soil	10/17/13	10/17/13	Glass Jar, 4 oz.
S-3	P310071-03A	Soil	10/17/13	10/17/13	Glass Jar, 4 oz.
S-4	P310071-04A	Soil	10/17/13	10/17/13	Glass Jar, 4 oz.
S-5	P310071-05A	Soil	10/17/13	10/17/13	Glass Jar, 4 oz.
S-6	P310071-06A	Soil	10/17/13	10/17/13	Glass Jar, 4 oz.
S-7	P310071-07A	Soil	10/17/13	10/17/13	Glass Jar, 4 oz.
S-8	P310071-08A	Soil	10/17/13	10/17/13	Glass Jar, 4 oz.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

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

envirotech-inc.com
laboratory@envirotech-inc.com

Southwest Geoscience 2351 W. Northwest Hwy Dallas TX, 75220	Project Name: 6B-15 Project Number: 07174-0003 Project Manager: Kyle Summers	Reported: 21-Oct-13 14:05
---	--	------------------------------

S-1

P310071-01 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1342029	10/18/13	10/18/13	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1342029	10/18/13	10/18/13	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1342029	10/18/13	10/18/13	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1	1342029	10/18/13	10/18/13	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1342029	10/18/13	10/18/13	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1342029	10/18/13	10/18/13	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1342029	10/18/13	10/18/13	EPA 8021B	
<i>Surrogate: Bromochlorobenzene</i>		98.3 %	80-120		1342029	10/18/13	10/18/13	EPA 8021B	
<i>Surrogate: 1,3-Dichlorobenzene</i>		96.6 %	80-120		1342029	10/18/13	10/18/13	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	5.65	5.00	mg/kg	1	1342029	10/18/13	10/18/13	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg	1	1342028	10/18/13	10/18/13	EPA 8015D	
GRO and DRO Combined Fractions	5.65	5.00	mg/kg		[CALC]	10/18/13	10/18/13	EPA 8015D	

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Southwest Geoscience 2351 W. Northwest Hwy Dallas TX, 75220	Project Name: 6B-15 Project Number: 07174-0003 Project Manager: Kyle Summers	Reported: 21-Oct-13 14:05
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P310071-02 (Solid)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1342029	10/18/13	10/18/13	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1342029	10/18/13	10/18/13	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1342029	10/18/13	10/18/13	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1	1342029	10/18/13	10/18/13	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1342029	10/18/13	10/18/13	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1342029	10/18/13	10/18/13	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1342029	10/18/13	10/18/13	EPA 8021B	
<i>Surrogate: Bromochlorobenzene</i>		94.1 %	80-120		1342029	10/18/13	10/18/13	EPA 8021B	
<i>Surrogate: 1,3-Dichlorobenzene</i>		91.4 %	80-120		1342029	10/18/13	10/18/13	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg	1	1342029	10/18/13	10/18/13	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg	1	1342028	10/18/13	10/18/13	EPA 8015D	
GRO and DRO Combined Fractions	ND	5.00	mg/kg		[CALC]	10/18/13	10/18/13	EPA 8015D	

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Southwest Geoscience 2351 W. Northwest Hwy Dallas TX, 75220	Project Name: 6B-15 Project Number: 07174-0003 Project Manager: Kyle Summers	Reported: 21-Oct-13 14:05
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P310071-03 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	1.03	0.05	mg/kg	1	1342029	10/18/13	10/18/13	EPA 8021B	
Toluene	13.4	0.05	mg/kg	1	1342029	10/18/13	10/18/13	EPA 8021B	
Ethylbenzene	3.59	0.05	mg/kg	1	1342029	10/18/13	10/18/13	EPA 8021B	
p,m-Xylene	26.4	0.05	mg/kg	1	1342029	10/18/13	10/18/13	EPA 8021B	
o-Xylene	9.73	0.05	mg/kg	1	1342029	10/18/13	10/18/13	EPA 8021B	
Total Xylenes	36.2	0.05	mg/kg	1	1342029	10/18/13	10/18/13	EPA 8021B	
Total BTEX	54.2	0.05	mg/kg	1	1342029	10/18/13	10/18/13	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		179 %	80-120		1342029	10/18/13	10/18/13	EPA 8021B	S-02
Surrogate: Bromochlorobenzene		127 %	80-120		1342029	10/18/13	10/18/13	EPA 8021B	S-02
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	157	4.99	mg/kg	1	1342029	10/18/13	10/18/13	EPA 8015D	
Diesel Range Organics (C10-C28)	1740	30.0	mg/kg	1	1342028	10/18/13	10/18/13	EPA 8015D	
GRO and DRO Combined Fractions	1900	4.99	mg/kg		[CALC]	10/18/13	10/18/13	EPA 8015D	

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P310071-04 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1342029	10/18/13	10/18/13	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1342029	10/18/13	10/18/13	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1342029	10/18/13	10/18/13	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1	1342029	10/18/13	10/18/13	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1342029	10/18/13	10/18/13	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1342029	10/18/13	10/18/13	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1342029	10/18/13	10/18/13	EPA 8021B	
<i>Surrogate: Bromochlorobenzene</i>		89.0 %		80-120	1342029	10/18/13	10/18/13	EPA 8021B	
<i>Surrogate: 1,3-Dichlorobenzene</i>		86.8 %		80-120	1342029	10/18/13	10/18/13	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg	1	1342029	10/18/13	10/18/13	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg	1	1342028	10/18/13	10/18/13	EPA 8015D	
GRO and DRO Combined Fractions	ND	5.00	mg/kg		[CALC]	10/18/13	10/18/13	EPA 8015D	

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Southwest Geoscience 2351 W. Northwest Hwy Dallas TX, 75220	Project Name: 6B-15 Project Number: 07174-0003 Project Manager: Kyle Summers	Reported: 21-Oct-13 14:05
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P310071-05 (Solid)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Volatile Organics by EPA 8021										
Benzene	ND	0.05		mg/kg	1	1342029	10/18/13	10/18/13	EPA 8021B	
Toluene	0.06	0.05		mg/kg	1	1342029	10/18/13	10/18/13	EPA 8021B	
Ethylbenzene	ND	0.05		mg/kg	1	1342029	10/18/13	10/18/13	EPA 8021B	
p,m-Xylene	0.07	0.05		mg/kg	1	1342029	10/18/13	10/18/13	EPA 8021B	
o-Xylene	ND	0.05		mg/kg	1	1342029	10/18/13	10/18/13	EPA 8021B	
Total Xylenes	0.07	0.05		mg/kg	1	1342029	10/18/13	10/18/13	EPA 8021B	
Total BTEX	0.12	0.05		mg/kg	1	1342029	10/18/13	10/18/13	EPA 8021B	
<i>Surrogate: Bromochlorobenzene</i>		97.8 %		80-120		1342029	10/18/13	10/18/13	EPA 8021B	
<i>Surrogate: 1,3-Dichlorobenzene</i>		95.2 %		80-120		1342029	10/18/13	10/18/13	EPA 8021B	

Nonhalogenated Organics by 8015

Gasoline Range Organics (C6-C10)	ND	5.00		mg/kg	1	1342029	10/18/13	10/18/13	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	29.9		mg/kg	1	1342028	10/18/13	10/18/13	EPA 8015D	
GRO and DRO Combined Fractions	ND	5.00		mg/kg		[CALC]	10/18/13	10/18/13	EPA 8015D	

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P310071-06 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	2.31	0.05	mg/kg	1	1342029	10/18/13	10/18/13	EPA 8021B	
Toluene	44.9	0.05	mg/kg	1	1342029	10/18/13	10/18/13	EPA 8021B	
Ethylbenzene	9.68	0.05	mg/kg	1	1342029	10/18/13	10/18/13	EPA 8021B	
p,m-Xylene	54.6	0.05	mg/kg	1	1342029	10/18/13	10/18/13	EPA 8021B	
o-Xylene	20.0	0.05	mg/kg	1	1342029	10/18/13	10/18/13	EPA 8021B	
Total Xylenes	74.6	0.05	mg/kg	1	1342029	10/18/13	10/18/13	EPA 8021B	
Total BTEX	132	0.05	mg/kg	1	1342029	10/18/13	10/18/13	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		154 %		80-120	1342029	10/18/13	10/18/13	EPA 8021B	S-02
Surrogate: Bromochlorobenzene		128 %		80-120	1342029	10/18/13	10/18/13	EPA 8021B	S-02
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	450	4.99	mg/kg	1	1342029	10/18/13	10/18/13	EPA 8015D	
Diesel Range Organics (C10-C28)	5220	29.9	mg/kg	1	1342028	10/18/13	10/18/13	EPA 8015D	
GRO and DRO Combined Fractions	5670	4.99	mg/kg		[CALC]	10/18/13	10/18/13	EPA 8015D	

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Southwest Geoscience 2351 W. Northwest Hwy Dallas TX, 75220	Project Name: 6B-15 Project Number: 07174-0003 Project Manager: Kyle Summers	Reported: 21-Oct-13 14:05
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P310071-07 (Solid)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1342029	10/18/13	10/18/13	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1342029	10/18/13	10/18/13	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1342029	10/18/13	10/18/13	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1	1342029	10/18/13	10/18/13	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1342029	10/18/13	10/18/13	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1342029	10/18/13	10/18/13	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1342029	10/18/13	10/18/13	EPA 8021B	
<i>Surrogate: Bromochlorobenzene</i>		91.9 %		80-120	1342029	10/18/13	10/18/13	EPA 8021B	
<i>Surrogate: 1,3-Dichlorobenzene</i>		92.3 %		80-120	1342029	10/18/13	10/18/13	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	6.89	5.00	mg/kg	1	1342029	10/18/13	10/18/13	EPA 8015D	
Diesel Range Organics (C10-C28)	36.6	30.0	mg/kg	1	1342028	10/18/13	10/18/13	EPA 8015D	
GRO and DRO Combined Fractions	43.5	5.00	mg/kg		[CALC]	10/18/13	10/18/13	EPA 8015D	

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Southwest Geoscience 2351 W. Northwest Hwy Dallas TX, 75220	Project Name: 6B-15 Project Number: 07174-0003 Project Manager: Kyle Summers	Reported: 21-Oct-13 14:05
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P310071-08 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1342029	10/18/13	10/18/13	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1342029	10/18/13	10/18/13	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1342029	10/18/13	10/18/13	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1	1342029	10/18/13	10/18/13	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1342029	10/18/13	10/18/13	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1342029	10/18/13	10/18/13	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1342029	10/18/13	10/18/13	EPA 8021B	
<i>Surrogate: Bromochlorobenzene</i>		95.2 %	80-120		1342029	10/18/13	10/18/13	EPA 8021B	
<i>Surrogate: 1,3-Dichlorobenzene</i>		92.4 %	80-120		1342029	10/18/13	10/18/13	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg	1	1342029	10/18/13	10/18/13	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg	1	1342028	10/18/13	10/18/13	EPA 8015D	
GRO and DRO Combined Fractions	ND	4.99	mg/kg		[CALC]	10/18/13	10/18/13	EPA 8015D	

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Southwest Geoscience 2351 W. Northwest Hwy Dallas TX, 75220	Project Name: 6B-15 Project Number: 07174-0003 Project Manager: Kyle Summers	Reported: 21-Oct-13 14:05
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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
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Batch 1342029 - Purge and Trap EPA 5030A

Blank (1342029-BLK1)

Prepared: 17-Oct-13 Analyzed: 18-Oct-13

Benzene	ND	0.05	mg/kg							
Toluene	ND	0.05	"							
Ethylbenzene	ND	0.05	"							
p,m-Xylene	ND	0.05	"							
o-Xylene	ND	0.05	"							
Total Xylenes	ND	0.05	"							
Total BTEX	ND	0.05	"							
Surrogate: 1,3-Dichlorobenzene	47.4		ug/L	50.0		94.7	80-120			
Surrogate: Bromochlorobenzene	49.8		"	50.0		99.6	80-120			

Duplicate (1342029-DUP1)

Source: P310070-01

Prepared: 17-Oct-13 Analyzed: 18-Oct-13

Benzene	ND	0.05	mg/kg		ND				30	
Toluene	0.05	0.05	"		0.05			0.255	30	
Ethylbenzene	ND	0.05	"		ND				30	
p,m-Xylene	0.09	0.05	"		0.06			39.7	30	D1
o-Xylene	ND	0.05	"		ND				30	
Surrogate: 1,3-Dichlorobenzene	49.0		ug/L	50.0		98.0	80-120			
Surrogate: Bromochlorobenzene	50.9		"	50.0		102	80-120			

Matrix Spike (1342029-MS1)

Source: P310070-01

Prepared: 17-Oct-13 Analyzed: 18-Oct-13

Benzene	56.6		ug/L	50.0	0.64	112	39-150			
Toluene	59.8		"	50.0	1.00	118	46-148			
Ethylbenzene	59.2		"	50.0	0.15	118	32-160			
p,m-Xylene	118		"	100	1.20	117	46-148			
o-Xylene	59.0		"	50.0	0.52	117	46-148			
Surrogate: 1,3-Dichlorobenzene	48.7		"	50.0		97.5	80-120			
Surrogate: Bromochlorobenzene	50.3		"	50.0		101	80-120			

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Southwest Geoscience 2351 W. Northwest Hwy Dallas TX, 75220	Project Name: 6B-15 Project Number: 07174-0003 Project Manager: Kyle Summers	Reported: 21-Oct-13 14:05
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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
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Batch 1342028 - DRO Extraction EPA 3550C

Blank (1342028-BLK1)				Prepared: 17-Oct-13 Analyzed: 18-Oct-13						
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg							
Duplicate (1342028-DUP1)				Source: P310070-01 Prepared: 17-Oct-13 Analyzed: 18-Oct-13						
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg		ND				30	
Matrix Spike (1342028-MS1)				Source: P310070-01 Prepared: 17-Oct-13 Analyzed: 18-Oct-13						
Diesel Range Organics (C10-C28)	251		mg/L	250	8.82	96.7	75-125			

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Southwest Geoscience 2351 W. Northwest Hwy Dallas TX, 75220	Project Name: 6B-15 Project Number: 07174-0003 Project Manager: Kyle Summers	Reported: 21-Oct-13 14:05
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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 1342029 - Purge and Trap EPA 5030A										
Blank (1342029-BLK1) Prepared: 17-Oct-13 Analyzed: 18-Oct-13										
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg							
Duplicate (1342029-DUP1) Source: P310070-01 Prepared: 17-Oct-13 Analyzed: 18-Oct-13										
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg		ND				30	
Matrix Spike (1342029-MS1) Source: P310070-01 Prepared: 17-Oct-13 Analyzed: 18-Oct-13										
Gasoline Range Organics (C6-C10)	0.54		mg/L	0.450	0.06	107	75-125			

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Southwest Geoscience
2351 W. Northwest Hwy
Dallas TX, 75220

Project Name: 6B-15
Project Number: 07174-0003
Project Manager: Kyle Summers

Reported:
21-Oct-13 14:05

Notes and Definitions

S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.

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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CHAIN OF CUSTODY RECORD

16228

Client: SWG/EPRD	Project Name / Location: 6B-15	ANALYSIS / PARAMETERS	
Email results to: Kyle Summers	Sampler Name: Kyle Summers	EPRD 6B-15	
Client Phone No.: 903 821 5603	Client No.: 07174-0003		

Sample No./ Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative		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
					HNO ₃	HCl														
S-1	10/16/13	1300	P310071-01	1X4oz.			X	X											X	X
S-2	10/17/13	1400	P310071-02	↓			↓	↓											↓	↓
S-3		1405	P310071-03																	
S-4		1410	P310071-04																	
S-5		1415	P310071-05																	
S-6		1420	P310071-06																	
S-7		1425	P310071-07																	
S-8		1430	P310071-08																	
KS																				

Relinquished by: (Signature) <i>[Signature]</i>	Date/Time: 10/17/13 15:30	Received by: (Signature) <i>[Signature]</i>	Date/Time: 10/17/13 15:30
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Relinquished by: (Signature)	Received by: (Signature)
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Sample Matrix
 Soil Solid Sludge Aqueous Other

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

Rush - Direct bill EPRD
Paykey RB 21200
cc 15-404





Analytical Report

Report Summary

Client: Enterprise Products
Chain Of Custody Number: 16248
Samples Received: 10/21/2013 4:50:00PM
Job Number: 97057-0352
Work Order: P310085
Project Name/Location: 6B-15

Entire Report Reviewed By:

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

Date: 10/22/13

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: 6B-15 Project Number: 97057-0352 Project Manager: Kyle Summers-SW Geoscience	Reported: 22-Oct-13 14:59
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Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S-9	P310085-01A	Soil	10/21/13	10/21/13	Glass Jar, 4 oz.
S-10	P310085-02A	Soil	10/21/13	10/21/13	Glass Jar, 4 oz.

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Enterprise Products 614 Reilly Ave Farmington NM, 87401	Project Name: 6B-15 Project Number: 97057-0352 Project Manager: Kyle Summers-SW Geoscience	Reported: 22-Oct-13 14:59
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S-9

P310085-01 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1343007	10/22/13	10/22/13	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1343007	10/22/13	10/22/13	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1343007	10/22/13	10/22/13	EPA 8021B	
p,m-Xylene	0.07	0.05	mg/kg	1	1343007	10/22/13	10/22/13	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1343007	10/22/13	10/22/13	EPA 8021B	
Total Xylenes	0.07	0.05	mg/kg	1	1343007	10/22/13	10/22/13	EPA 8021B	
Total BTEX	0.07	0.05	mg/kg	1	1343007	10/22/13	10/22/13	EPA 8021B	
<i>Surrogate: Bromochlorobenzene</i>		85.3 %	80-120		1343007	10/22/13	10/22/13	EPA 8021B	
<i>Surrogate: 1,3-Dichlorobenzene</i>		87.0 %	80-120		1343007	10/22/13	10/22/13	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg	1	1343007	10/22/13	10/22/13	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg	1	1343008	10/22/13	10/22/13	EPA 8015D	
GRO and DRO Combined Fractions	ND	5.00	mg/kg		[CALC]	10/22/13	10/22/13	EPA 8015D	

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Enterprise Products 614 Reilly Ave Farmington NM, 87401	Project Name: 6B-15 Project Number: 97057-0352 Project Manager: Kyle Summers-SW Geoscience	Reported: 22-Oct-13 14:59
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S-10
P310085-02 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1343007	10/22/13	10/22/13	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1343007	10/22/13	10/22/13	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1343007	10/22/13	10/22/13	EPA 8021B	
p,m-Xylene	0.06	0.05	mg/kg	1	1343007	10/22/13	10/22/13	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1343007	10/22/13	10/22/13	EPA 8021B	
Total Xylenes	0.06	0.05	mg/kg	1	1343007	10/22/13	10/22/13	EPA 8021B	
Total BTEX	0.06	0.05	mg/kg	1	1343007	10/22/13	10/22/13	EPA 8021B	
<i>Surrogate: Bromochlorobenzene</i>		85.6 %	80-120		1343007	10/22/13	10/22/13	EPA 8021B	
<i>Surrogate: 1,3-Dichlorobenzene</i>		83.3 %	80-120		1343007	10/22/13	10/22/13	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg	1	1343007	10/22/13	10/22/13	EPA 8015D	
Diesel Range Organics (C10-C28)	43.8	30.0	mg/kg	1	1343008	10/22/13	10/22/13	EPA 8015D	
GRO and DRO Combined Fractions	43.8	5.00	mg/kg		[CALC]	10/22/13	10/22/13	EPA 8015D	

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Enterprise Products 614 Reilly Ave Farmington NM, 87401	Project Name: 6B-15 Project Number: 97057-0352 Project Manager: Kyle Summers-SW Geoscience	Reported: 22-Oct-13 14:59
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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
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Batch 1343007 - Purge and Trap EPA 5030A

Blank (1343007-BLK1)			Prepared & Analyzed: 22-Oct-13							
Benzene	ND	0.05	mg/kg							
Toluene	ND	0.05	"							
Ethylbenzene	ND	0.05	"							
p,m-Xylene	ND	0.05	"							
o-Xylene	ND	0.05	"							
Total Xylenes	ND	0.05	"							
Total BTEX	ND	0.05	"							
Surrogate: 1,3-Dichlorobenzene	50.0		ug/L	50.0		100	80-120			
Surrogate: Bromochlorobenzene	51.2		"	50.0		102	80-120			

Duplicate (1343007-DUP1)			Source: P310084-01		Prepared & Analyzed: 22-Oct-13					
Benzene	1.72	0.05	mg/kg		0.42			122	30	D1
Toluene	27.9	0.05	"		24.8			11.8	30	
Ethylbenzene	7.59	0.05	"		6.93			9.18	30	
p,m-Xylene	65.6	0.05	"		61.1			7.11	30	
o-Xylene	14.6	0.05	"		15.5			5.98	30	
Surrogate: 1,3-Dichlorobenzene	64.1		ug/L	50.0		128	80-120			Surr1
Surrogate: Bromochlorobenzene	53.7		"	50.0		107	80-120			

Matrix Spike (1343007-MS1)			Source: P310084-01		Prepared & Analyzed: 22-Oct-13					
Benzene	19.9		ug/L	50.0	8.34	23.1	39-150			SPK1
Toluene	465		"	50.0	496	NR	46-148			SPK1
Ethylbenzene	177		"	50.0	139	76.9	32-160			
p,m-Xylene	1180		"	100	1220	NR	46-148			SPK1
o-Xylene	327		"	50.0	311	32.3	46-148			SPK1
Surrogate: 1,3-Dichlorobenzene	65.4		"	50.0		131	80-120			SPK1
Surrogate: Bromochlorobenzene	53.9		"	50.0		108	80-120			

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Enterprise Products 614 Reilly Ave Farmington NM, 87401	Project Name: 6B-15 Project Number: 97057-0352 Project Manager: Kyle Summers-SW Geoscience	Reported: 22-Oct-13 14:59
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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 1343007 - Purge and Trap EPA 5030A										
Blank (1343007-BLK1) Prepared & Analyzed: 22-Oct-13										
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg							
Duplicate (1343007-DUP1) Source: P310084-01 Prepared & Analyzed: 22-Oct-13										
Gasoline Range Organics (C6-C10)	767	4.99	mg/kg		633			19.2	30	
Matrix Spike (1343007-MS1) Source: P310084-01 Prepared & Analyzed: 22-Oct-13										
Gasoline Range Organics (C6-C10)	12.4		mg/L	0.450	12.7	NR	75-125			SPK1

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Enterprise Products 614 Reilly Ave Farmington NM, 87401	Project Name: 6B-15 Project Number: 97057-0352 Project Manager: Kyle Summers-SW Geoscience	Reported: 22-Oct-13 14:59
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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
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Batch 1343008 - DRO Extraction EPA 3550C

Blank (1343008-BLK1)		Prepared & Analyzed: 22-Oct-13								
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg							
Duplicate (1343008-DUP1)		Source: P310084-01 Prepared & Analyzed: 22-Oct-13								
Diesel Range Organics (C10-C28)	214	30.0	mg/kg		274			24.5	30	
Matrix Spike (1343008-MS1)		Source: P310084-01 Prepared & Analyzed: 22-Oct-13								
Diesel Range Organics (C10-C28)	459		mg/L	250	260	79.5	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

envirotech-inc.com
laboratory@envirotech-inc.com

Enterprise Products
614 Reilly Ave
Farmington NM, 87401

Project Name: 6B-15
Project Number: 97057-0352
Project Manager: Kyle Summers-SW Geoscience

Reported:
22-Oct-13 14:59

Notes and Definitions

Surr1 Surrogate recovery was above acceptable limits.
SPK1 The spike recovery for this QC sample is outside of control limits.
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

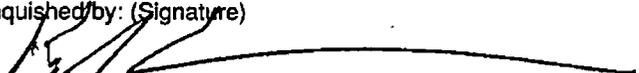
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CHAIN OF CUSTODY RECORD

16248

Client: EARO	Project Name / Location: 66-17	ANALYSIS / PARAMETERS											
Email results to: Kyle Summers	Sampler Name: Kyle Summers	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.: 903-821-5603	Client No.: 97057-0352												

Sample No. / Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative		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	
					HNO ₃	HCl													
S-9	10/21/17	1600	P310085-01	1 X 402			X	X										Y	Y
S-10	10/21/17	1605	P310085-02	1 X 402			X	X										Y	Y
NFS RUS																			

Relinquished by: (Signature) 	Date / Time: 10/21/17 1650	Received by: (Signature) 	Date / Time: 10/21/17 1650
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Relinquished by: (Signature)	Received by: (Signature)
------------------------------	--------------------------

Sample Matrix
 Soil Solid Sludge Aqueous Other

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



*Paykey RB21200
CO 75404*

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 Ave, Farmington, NM 87401	Telephone No. 505-599-2286
Facility Name: GCU #89E/Lateral 6B-9	Facility Type: Natural Gas Gathering Line

Surface Owner: NAPI/Navajo Tribal	Mineral Owner: NAPI/Navajo Tribal	API No.
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LOCATION OF RELEASE

Unit Letter F	Section 6	Township 27N	Range 8W	Feet from the 2499	North/South Line	Feet from the 1222	East/West Line	County San Juan
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Latitude 36.60454 Longitude -108.15740

OIL CONS. DIV DIST. 3

NATURE OF RELEASE

AUG 07 2014

Type of Release: Natural Gas	Volume of Release: Unknown	Volume Recovered: Unknown
Source of Release: Suspected internal corrosion	Date and Hour of Occurrence: 7/22/2014 @ 3:45 p.m.	Date and Hour of Discovery: 7/22/2014 @ 4:10 p.m.
Was Immediate Notice Given? Required <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not	If YES, To Whom? Notification to NMOCD - Cory Smith; Steve Austin - NNEPA	
By Whom? Thomas Long	Date and Hour Notification 7/23/2014 @ 3:54 p.m.	
Was a Watercourse Reached? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, Volume Impacting the Watercourse	

If a Watercourse was Impacted, Describe Fully.*The release is located in a small ephemeral wash. No surface impacts were observed.

Describe Cause of Problem and Remedial Action: Enterprise technician discovered a line leak while performing a pipeline patrol. The Enterprise technician initiated notification procedures. The line was isolated, blown down, depressurized and lock out tag out was implemented. Repairs and remediation are currently being scheduled.

Describe Area Affected and Cleanup Action Taken.*: Enterprise technician discovered a line leak while performing a pipeline patrol. The Enterprise technician initiated notification procedures. The line was isolated, blown down, depressurized and lock out tag out was implemented. Repairs and remediation are currently being scheduled. A "final" c-141 will be submitted upon receipt of the third party environmental contractor corrective action 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, Environmental	Approval Date: 9/8/14	Expiration Date:
E-mail Address: jefields@eprod.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 08/04/2014 Phone: (713) 381-6684		

* Attach Additional Sheets If Necessary

#AES 1425134250

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

Form C-141
Revised August 8, 2011

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

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

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company: Enterprise Field Services LLC	Contact: Thomas Long
Address: 614 Reilly Ave, Farmington, NM 87401	Telephone No. 505-599-2286
Facility Name: Lateral K-20	Facility Type: Natural Gas Gathering Line

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

Unit Letter D	Section 16	Township 26N	Range 7W	Feet from the 309	North South Line	Feet from the 1195	East West Line	County Rio Arriba
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Latitude 36.49264 Longitude -107.58537

NATURE OF RELEASE

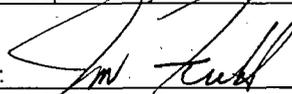
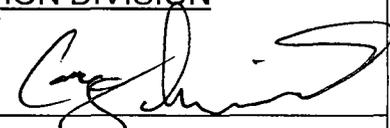
Type of Release: Natural Gas and Natural Gas Liquids	Volume of Release: Unknown	Volume Recovered: Unknown
Source of Release: Suspected internal corrosion	Date and Hour of Occurrence: 8/4/2014 @ 9:30 a.m.	Date and Hour of Discovery: 8/4/2014 @ 1:45 p.m.
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Notification to NMOCD - Cory Smith	
By Whom? Thomas Long	Date and Hour:	
Was a Watercourse Reached? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, Volume Impacting the Watercourse	

If a Watercourse was Impacted, Describe Fully.*The release occurred in a small ephemeral wash. A surface area of approximately twelve (12) feet long and six (6) wide was impacted

Describe Cause of Problem and Remedial Action: A third party reported a possible line leak along the Lateral K-20 pipeline right of way. The pipeline was isolated, blown down, locked out and tagged out while investigating the area. The release is located in a small ephemeral wash. A surface area of approximately twelve (12) feet long and six (6) wide was impacted. Repairs and remediation began the week of August 4, 2104.

Describe Area Affected and Cleanup Action Taken.*: A third party reported a possible line leak along the Lateral K20 pipeline right of way. The pipeline was isolated, blown down, locked out and tagged out while investigating the area. The release is located in a small ephemeral wash A surface area of approximately twelve (12) feet long and six (6) wide was impacted. Repairs and remediation began the week of August 4, 2104. Repairs and remediation began the week of July 28, 2104. A "final" c-141 will be submitted upon receipt of the third party environmental contractor corrective action 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, Environmental	Approval Date: 9/8/14	Expiration Date:
E-mail Address: jefields@eprod.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 8/13/2014	Phone: (713)381-6684	

* Attach Additional Sheets If Necessary

NCS 142 5152 285

①

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
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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 Ave, Farmington, NM 87401	Telephone No. 505-599-2286
Facility Name: Lindrith Unit#23	Facility Type: Natural Gas Gathering Line

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

Unit Letter N	Section 9	Township 24N	Range 3W	Feet from the 1245	North/South Line	Feet from the 1945	East/West Line	County Rio Arriba
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Latitude 36.321014 Longitude -107.164249

RCVD AUG 18 '14

NATURE OF RELEASE

OIL CONS. DIV.
DIST 3

Type of Release: Natural Gas and Natural Gas Liquids	Volume of Release: 12,804 MCF	Volume Recovered: Unknown
Source of Release: Pipeline was severed as a result of heavy rains and a flood event.	Date and Hour of Occurrence: 8/5/2014 @ 2:15 p.m.	Date and Hour of Discovery: 8/5/2014 @ 3:30 p.m.
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Notification to NRC - Report # 1091539; NMOCD - Cory Smith; USACE and NMED	
By Whom? Thomas Long	Date and Hour: 8/6/2014 @ 3:00 p.m.	
Was a Watercourse Reached? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, Volume Impacting the Watercourse	

If a Watercourse was Impacted, Describe Fully.* The pipeline was severed as a result of heavy rains and a flood event which discharged to Largo Wash. No visible indications of hydrocarbon impacts to the wash were observed.

Describe Cause of Problem and Remedial Action: A third party reported a possible line leak along the Lindrith Unit #23 pipeline. Technicians were dispatched to confirm the leak/ Due to the recent rain event and the high volume of water running in the wash, the bank that was supporting the pipeline was eroded causing it to sever. The pipeline was isolated, blown down, locked out and tagged out. The release discharge into Largo wash. There were no visible indications of hydrocarbon impacts to the wash.

Describe Area Affected and Cleanup Action Taken: A third party reported a possible line leak along the Lindrith Unit #23 pipeline. Technicians were dispatched to confirm the leak/ Due to the recent rain event and the high volume of water running in the wash, the bank that was supporting the pipeline was eroded causing it to sever. The pipeline was isolated, blown down, locked out and tagged out. The release discharge into Largo wash. There were no visible indications of hydrocarbon impacts to the wash. A third party environmental contractor sampled the wash on 8/8/2014. A "final" c-141 will be submitted upon receipt of the third party environmental contractor corrective action 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, Environmental	Approval Date: 9/8/14	Expiration Date:
E-mail Address: jefields@eprod.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 8/13/2014	Phone: (713)381-6684	

* Attach Additional Sheets If Necessary

#NCS1425152473

①

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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 Ave, Farmington, NM 87401	Telephone No. 505-599-2286
Facility Name: Canyon Largo #85	Facility Type: Well Site

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

Unit Letter G	Section 13	Township 24N	Range 6W	Feet from the 1797	North/South Line South	Feet from the 1064	East/West Line East	County Rio Arriba
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OIL CONS. DIV DIST. 3

Latitude **36.310455** Longitude **-107.414730**

AUG 18 2014

NATURE OF RELEASE

Type of Release: Produced Water, Condensate and Oil	Volume of Release: Estimated 15-25 bbls	Volume Recovered: Unknown
Source of Release: Valve Release	Date and Hour of Occurrence: 5/16/2014 @ 11:30 a.m.	Date and Hour of Discovery: 5/16/2014 @ 11:40 a.m.
Was Immediate Notice Given? Required <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not	If YES, To Whom? Cory Smith - NMOCD, Shari Ketchum - BLM	
By Whom? Thomas Long	Date and Hour 5/16/2014 @ 2:56 p.m. phone call and email	
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 release occurred during pigging operations at the Canyon Largo #85 well site. An estimated 15-25 bbls of condensate, water and oil were released onto the well pad, the pipeline right of way (ROW) and land adjacent to the well pad. An area of approximately three-hundred (300) feet long by three (3) feet wide was impacted along the pipeline ROW. An area of approximately ¼ acre was misted adjacent to the well pad. Remediation activities were completed on May 27, 2014. Approximately 248 cubic yards of impacted soil was excavated and transported to a NMOCD approved land farm facility.

Describe Area Affected and Cleanup Action Taken.* An area of approximately one-hundred- fifty (150) feet long by one-hundred- fifty (150) feet wide was impacted on the well pad. An area of approximately three-hundred (300) feet long by three (3) feet wide was impacted along the pipeline ROW and land adjacent to the well pad. An area of approximately ¼ acre was misted adjacent to the well pad. Remediation activities were completed on May 27, 2014. Approximately 248 cubic yards of impacted soil was excavated and transported to a NMOCD approved land farm facility. A third party corrective action report is included with this "final" c-141.

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>[Signature]</i>	
Title: Director, Environmental	Approval Date: 9/8/14	Expiration Date: <i>[Signature]</i>
E-mail Address: jefields@eprod.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 8-14-2014 Phone: (713)381-6684		

* Attach Additional Sheets If Necessary

#NCS1425156063

46



OIL CONS. DIV DIST. 3
AUG 18 2014

CORRECTIVE ACTION REPORT

Property:

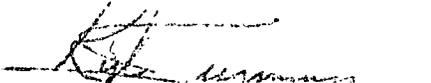
**Canyon Largo #85 Well Tie Release
SE 1/4, S13 T24N R6W
Rio Arriba County, New Mexico**

July 25, 2014
Apex Project No. 7030414G010

Prepared for:

**Enterprise Field Services LLC
614 Reilly Avenue
Farmington, NM 87401
Attn: Mr. Tom Long**

Prepared by:



Kyle Summers, C.P.G.
Branch Manager / Senior Geologist



Elizabeth Scaggs, P.G.
Senior Program Manager

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Appendix B:	Executed C-138 Solid Waste Acceptance Forms
Appendix C:	Photographic Documentation
Appendix D:	Tables
Appendix E:	Laboratory Analytical Reports & Chain of Custody Documentation



CORRECTIVE ACTION REPORT

Canyon Largo #85 Well Tie Release

SE 1/4, S13 T24N R6W

Rio Arriba County, New Mexico

Apex Project No. 7030414G010

1.0 INTRODUCTION

1.1 Site Description & Background

The Canyon Largo #85 well tie release site is located within the Enterprise Field Services LLC (Enterprise) pipeline right-of-way (ROW) in the southeast (SE) ¼ of Section 13 in Township 24 North and Range 6 West in rural Rio Arriba County, New Mexico, (36.310476N, 107.414786W) referred to hereinafter as the "Site" or "subject Site". The Site is located adjacent to an out-of-service well pad, on public land managed by the United States Bureau of Land Management (BLM). The Site is surrounded by native vegetation rangeland periodically interrupted with oil and gas gathering facilities, including the Enterprise natural gas gathering pipeline which traverses the area from north to south.

On May 16th, 2014, Enterprise experienced a valve release at the meter run of the Canyon Largo #85 well tie during a pressure test/pigging operation. Subsequent to coordination with the BLM, Enterprise initiated soil removal activities on May 22nd, 2014, to remediate the surface impact from the valve spray and flow path areas. An unknown quantity of condensate/water mixture was released from the pipeline as a mist that coated surface soils south of the release point and as liquid that flowed primarily north from the release point along the two-track ROW road and slightly east over the buried pipeline near the release source. Liquid release evidence and pooling was visible at the Site.

A topographic map depicting the location of the Site is included as Figure 1, and a Site Vicinity Map is included as Figure 2 in Appendix A.

1.2 Project Objective

The primary objective of the corrective actions was to reduce the concentration of constituents of concern (COCs) in the on-Site soils to below the New Mexico Energy, Minerals, and Natural Resources Department (EMNRD), Oil Conservation Division (OCD) *Remediation Action Levels* using the New Mexico EMNRD OCD's *Guidelines for Remediation of Leaks, Spills and Releases* as guidance.

2.0 SITE RANKING

The local BLM office, located in Farmington, NM, has indicated to Enterprise that they concur with the established New Mexico OCD rules and standards pertaining to corrective actions and remediation goals for oil and gas releases in northwest New Mexico. In accordance with the New Mexico ENMRD OCD's *Guidelines for Remediation of Leaks, Spills and Releases*, Apex TITAN, Inc. (Apex), utilized the general site characteristics obtained during the completion of corrective action activities and information available from the Office of the New Mexico Office of the State



Engineer to determine the appropriate "ranking" for the Site. The ranking criteria and associated scoring are provided in the following table:

Ranking Criteria			Ranking Score
Depth to Groundwater	<50 feet	20	20*
	50 to 99 feet	10	
	>100 feet	0	
Wellhead Protection Area • <1,000 feet from a water source, or, <200 feet from private domestic water source.	Yes	20	0
	No	0	
Distance to Surface Water Body	<200 feet	20	10
	200 to 1,000 feet	10	
	>1,000 feet	0	
Total Ranking Score			30

*Based on information from monitoring wells at the nearby Lindrith Compressor Station, groundwater is anticipated at <50 feet below grade surface.

Based on Apex's evaluation of the scoring criteria, the Site would have a maximum Total Ranking Score of "30". This ranking is based on the following:

- The Site is approximately 440 feet from an unnamed ephemeral wash. Based on this proximity, a maximum ranking for distance to surface water was assigned at "10".
- The nearest water well identified on the Office of the State Engineer website database is an estimated 2,200 feet to the east, across Largo wash, with a reported depth to water of 216 feet bgs. However, the proximity of the site to the ephemeral wash and data from monitoring wells at the nearby Lindrith Compressor Station indicate a potential depth to water of less than 50 feet bgs, resulting in a ranking of "20" for depth to groundwater.
- No water sources were identified within 1,000 feet of the search radius.

3.0 RESPONSE ACTIONS

3.1 Soil Excavation Activities

On May 16th, 2014, Enterprise experienced a valve release at the meter run of the Canyon Largo #85 well tie during a pressure test/pigging operation. Subsequent to coordination with the BLM, Enterprise initiated soil removal activities on May 22nd, 2014, to remediate the surface impact from the valve spray and flow path areas. An unknown quantity of condensate/water mixture was released from the pipeline as a mist that coated surface soils south of the release point and as liquid that flowed primarily north from the release point along the two-track ROW road and slightly east over the buried pipeline near the release source. Liquid release evidence and pooling was visible at the Site.

During the corrective action activities, Foutz and Bursum Construction Company, Inc. (F&B) provided heavy equipment and labor support, and Kyle Summers and Aaron Bryant, Apex environmental professionals, provided environmental support.

The Site was scraped/excavated utilizing heavy equipment to remove hydrocarbon-affected soils from the overspray area and liquid flow path. The overspray area measured approximately 100 feet long by 50 feet wide. The source-area spray and flow footprint measured approximately 40 feet long by 35 feet wide. The liquid flow-path (along the two-track) measured approximately 245

feet long by 1.5 feet wide. Additionally, an excavation measuring approximately 13 feet long by 10 feet wide by 4 feet deep was created to address an area of pooling east of the release point along the pipeline pipe chase.

The lithology encountered during the completion of corrective action activities primarily consisted of silty-sands.

A total of approximately 248 cubic yards of hydrocarbon affected soils were transported to the Envirotech, Inc. (Envirotech) landfarm near Hilltop, NM for disposal/remediation. The executed C-138 form and associated Bills of Lading are provided in Appendix B. The excavation was backfilled with clean imported fill and contoured to surrounding grade. The area will ultimately be reseeded with a BLM-approved seed mix.

Figure 3 is a site map that indicates the approximate location of the excavated area in relation to pertinent land features (Appendix A). Photographic documentation of the field activities is included in Appendix C.

3.2 Soil Sampling Program

Apex screened head-space samples of Site soils with a photoionization detector (PID) fitted with a 10.6 eV lamp to estimate excavation limits.

Apex's soil sampling program included the collection of eleven (11) composite confirmation samples (C-1 through C-11), from the resulting excavation for laboratory analysis. Figure 3 depicts the approximate location of the excavated areas and shows the final confirmation sample locations in relation to the final excavation dimensions (Appendix A).

The confirmation soil samples were collected and placed in laboratory prepared glassware, labeled/sealed using the laboratory supplied labels, and placed on ice in a cooler, which was secured with a custody seal. The sample cooler and completed chain-of-custody form were relinquished to Envirotech Analytical Laboratory in Bloomfield, New Mexico for rush analysis.

3.3 Laboratory Analytical Methods

The confirmation soil samples were analyzed for benzene, toluene, ethylbenzene, and total xylenes (BTEX) utilizing EPA SW-846 Method #8021, and total petroleum hydrocarbons (TPH) gasoline range organics (GRO) and diesel range organics (DRO) utilizing EPA SW-846 Method #8015.

Laboratory results are summarized in Table 1, included in Appendix D. The executed chain-of-custody form and laboratory data sheets are provided in Appendix E.

4.0 DATA EVALUATION

The Site is subject to regulatory oversight by the New Mexico EMNRD OCD and the United States BLM. The local BLM office, located in Farmington, NM, has indicated to Enterprise that they concur with the established New Mexico OCD rules and standards pertaining to corrective actions and remediation goals for oil and gas releases in northwest New Mexico. To address activities related to condensate releases, the New Mexico EMNRD OCD utilizes the *Guidelines for Remediation of Leaks, Spills and Releases* as guidance, in addition to the OCD rules, specifically NMAC 19.15.30 *Remediation*. These guidance documents establish investigation and abatement action requirements for sites subject to reporting and/or corrective action.

4.1 Confirmation Soil Samples

Apex compared the BTEX and TPH concentrations or reporting limits associated with the final confirmation samples collected from the excavated area to the OCD *Remediation Action Levels* (RALs) for sites having a total ranking score of "30".

- The laboratory analyses of confirmation samples collected from soils remaining in place do not indicate benzene concentrations above the laboratory reporting limits, which are below the OCD RAL.
- The laboratory analyses of the confirmation samples collected from soils remaining in place do not indicate total BTEX concentrations above the laboratory reporting limits, which are below the OCD RALs.
- The laboratory analyses of the confirmation samples C-1, C-2, and C-3 indicate TPH DRO concentrations ranging from 33.3 mg/Kg to 79.4 mg/Kg, which are below the OCD RAL of 100 mg/Kg. All remaining confirmation samples (C-4 through C-11) do not indicate TPH GRO/DRO concentrations above the laboratory reporting limits, which are below the OCD RAL of 100 mg/Kg for a Site ranking of "30".

Confirmation sample results are provided in Table 1 in Appendix D.

5.0 FINDINGS AND RECOMMENDATIONS

The Canyon Largo #85 well tie release site is located within the Enterprise pipeline ROW in the SE ¼ of Section 13 in Township 24 North and Range 6 West in rural Rio Arriba County, New Mexico. The Site is located adjacent to an out-of-service well pad, on public land managed by the United States BLM. The Site is surrounded by native vegetation rangeland periodically interrupted with oil and gas gathering facilities, including the Enterprise natural gas gathering pipeline which traverses the area from north to south.

On May 16th, 2014, Enterprise experienced a valve release at the meter run of the Canyon Largo #85 well tie during a pressure test/pigging operation. Subsequent to coordination with the BLM, Enterprise initiated soil removal activities on May 22nd, 2014, to remediate the surface impact from the valve spray and flow path areas. An unknown quantity of condensate/water mixture was released from the pipeline as a mist that coated surface soils south of the release point and as liquid that flowed primarily north from the release point along the two-track ROW road and slightly east over the buried pipeline near the release source. Liquid release evidence and pooling was visible at the Site.

- The primary objective of the corrective actions was to reduce the concentration of COCs in the on-Site soils to below the New Mexico EMNRD OCD RALs using the New Mexico EMNRD OCD's *Guidelines for Remediation of Leaks, Spills and Releases* as guidance.
- The Site was scraped/excavated utilizing heavy equipment to remove hydrocarbon-affected soils from the overspray area and liquid flow path. Additionally, a small excavation was created to address an area of pooling east of the release point along the pipeline pipe chase.
- Prior to backfilling, eleven (11) final confirmation samples were collected from the resulting excavation for laboratory analyses. Based on analytical results, soils remaining in place do not exhibit COC concentrations above the OCD RALs for a Site ranking of "30".



- A total of approximately 248 cubic yards of hydrocarbon affected soils were transported to the Envirotech landfarm near Hilltop, NM for disposal/remediation. The excavation was backfilled with clean imported fill and contoured to the surrounding grade. The area will ultimately be reseeded with a BLM-approved seed mix.

Based on field observations and laboratory analytical results, no additional investigation or corrective action appears warranted at this time.

6.0 STANDARD OF CARE, LIMITATIONS, AND RELIANCE

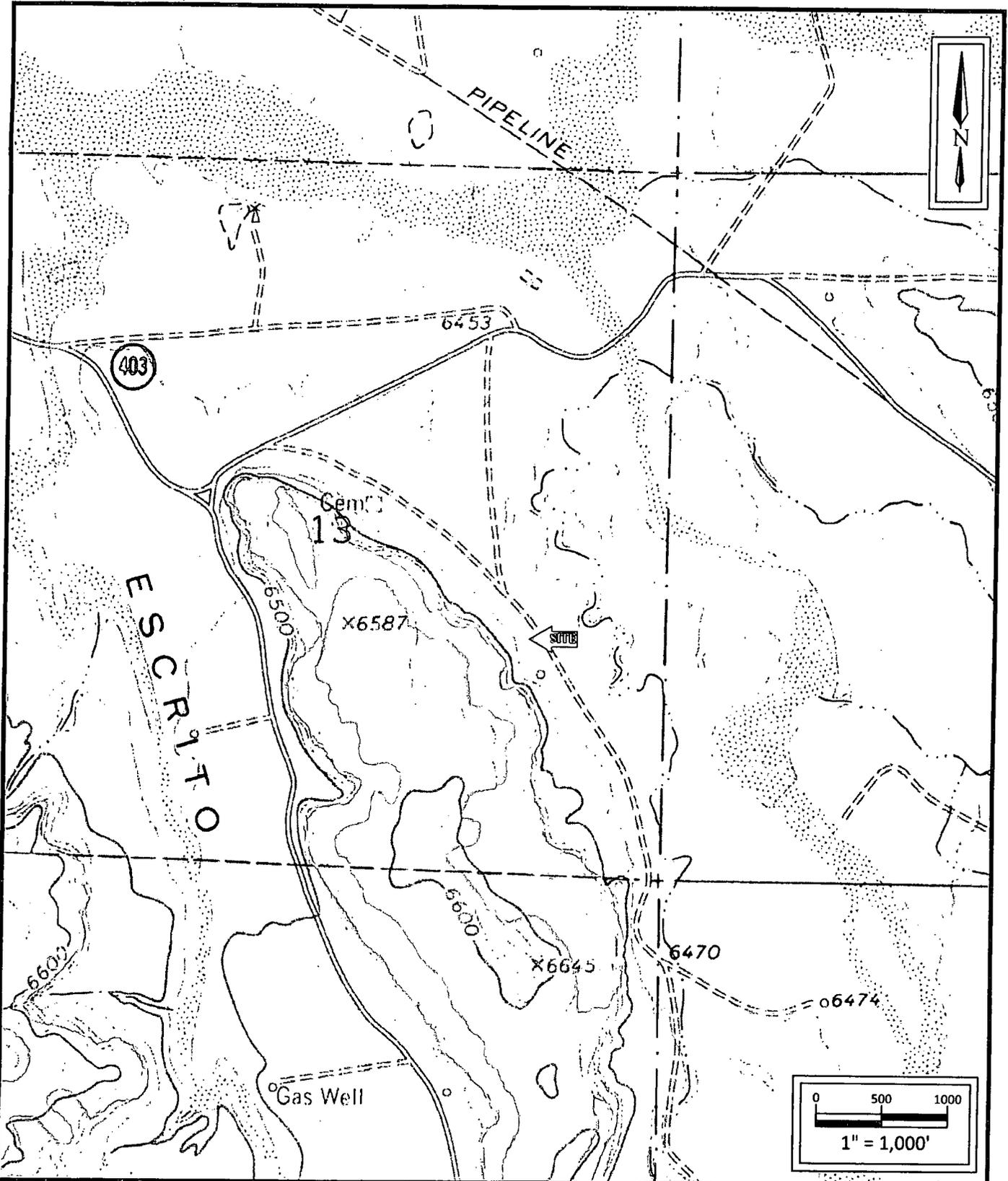
Apex's services were performed in accordance with standards customarily provided by a firm rendering the same or similar services in the area during the same time period. Apex makes no warranties, expressed or implied, as to the services performed hereunder. Additionally, Apex does not warrant the work of third parties supplying information used in the report (e.g. laboratories, regulatory agencies, or other third parties). This scope of services was performed in accordance with the scope of work agreed with the client.

Findings, conclusions and recommendations resulting from these services are based upon information derived from the on-Site activities and other services performed under this scope of work and it should be noted that this information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, or not present during these services, and Apex cannot represent that the Site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those identified during this scope of services. Environmental conditions at other areas or portions of the Site may vary from those encountered at actual sample locations. Apex's findings and recommendations are based solely upon data available to Apex at the time of these services.

This report has been prepared for the exclusive use of Enterprise, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the Site) is prohibited without the expressed written authorization of Enterprise and Apex. Any unauthorized distribution or reuse is at the client's sole risk. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions and limitations stated in the proposal, the report, and Apex's Agreement. The limitation of liability defined in the agreement is the aggregate limit of Apex's liability to the client.

APPENDIX A

Figures



Canyon Largo #85 Well Tie Release

SE $\frac{1}{4}$ S13 T24N R6W
 Rural Rio Arriba County, NM
 36.310476N, 107.414786W



Apex TITAN, Inc.

606 S. Rio Grande, Suite A
 Aztec, New Mexico 87410
 Phone: (505) 334-5200

www.apexcos.com

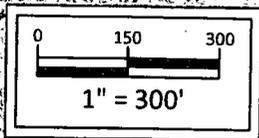
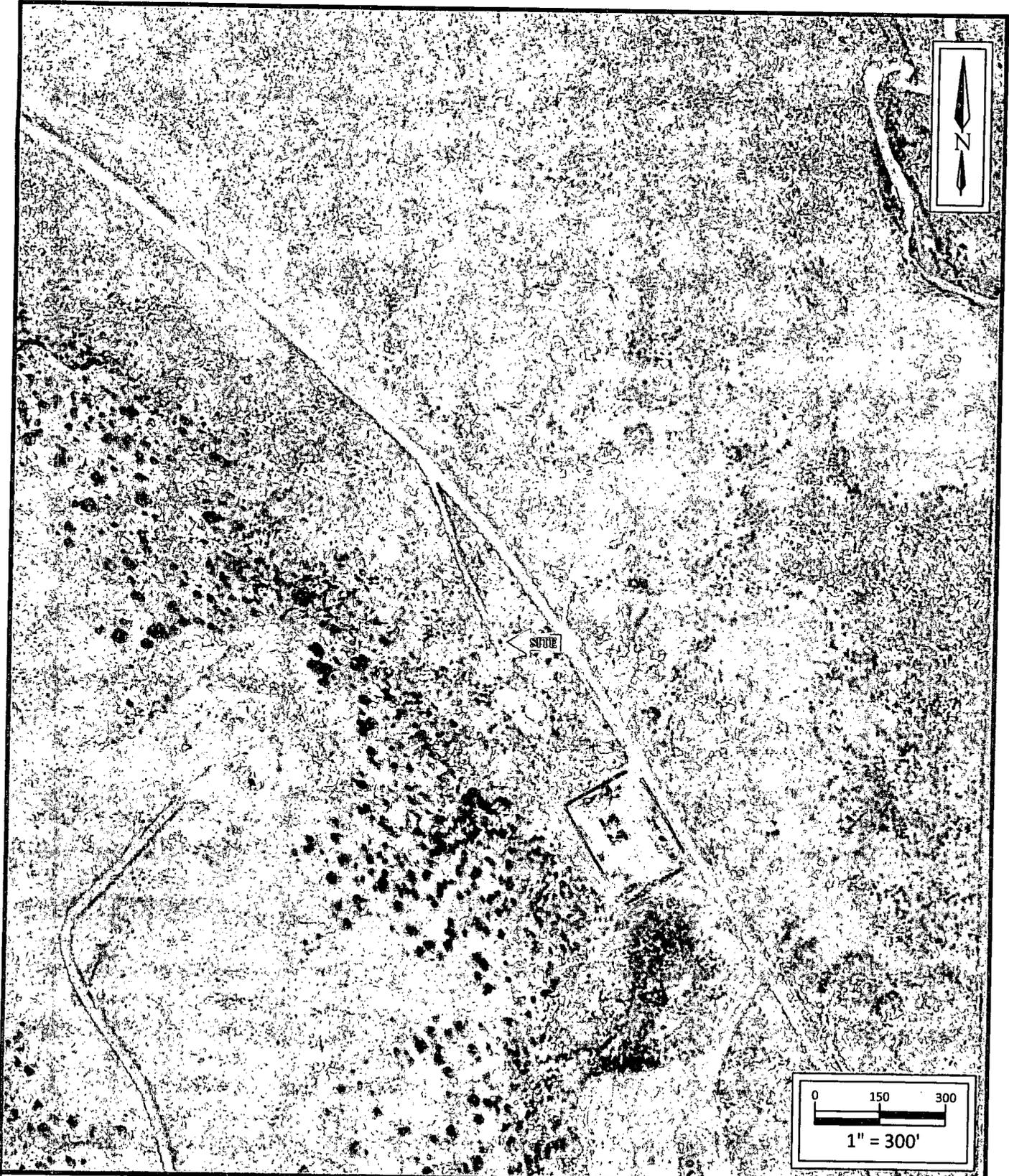
A Subsidiary of Apex Companies, LLC

FIGURE 1

Topographic Map

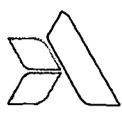
Tayfoya Canyon, NM Quadrangle
 1963

Project No. 7030414G010



Canyon Largo #85 Well Tie Release

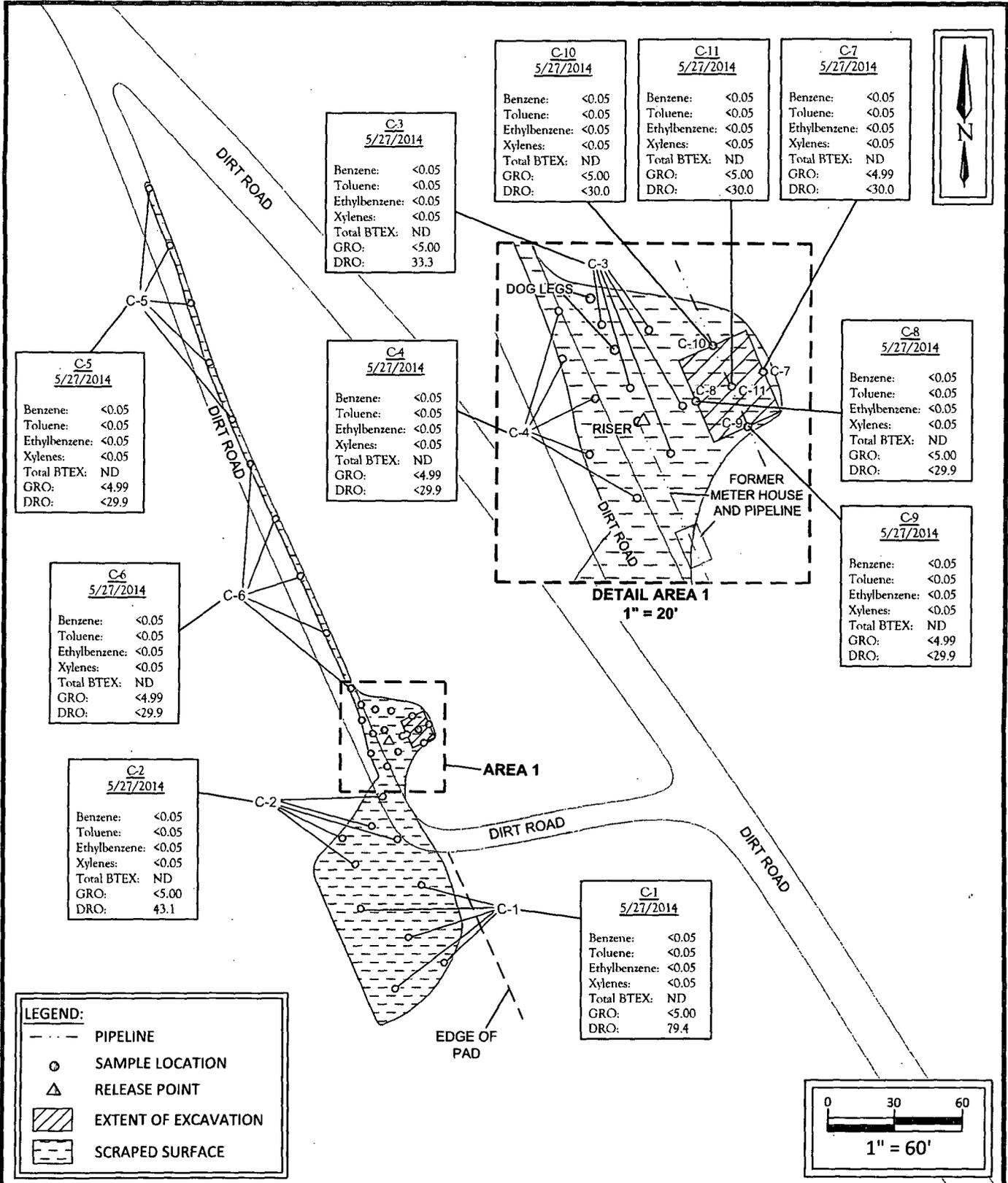
SE $\frac{1}{4}$ S13 T24N R6W
Rural Rio Arriba County, NM
36.310476N, 107.414786W



Apex TITAN, Inc.
606 S. Rio Grande, Suite A
Aztec, New Mexico 87410
Phone: (505) 334-5200
www.apexcos.com
A Subsidiary of Apex Companies, LLC

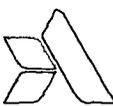
FIGURE 2
Site Vicinity Map
2013 Aerial Photograph

Project No. 7030414G010



Canyon Largo #85 Well Tie Release
 SE ¼ S13 T24N R6W
 Rural Rio Arriba County, NM
 36.310476N, 107.414786W

Project No. 7030414G010



Apex TITAN, Inc.
 606 S. Rio Grande, Suite A
 Aztec, New Mexico 87410
 Phone: (505) 334-5200
 www.apexcos.com
 A Subsidiary of Apex Companies, LLC

FIGURE 3
Site Map with
Sample Locations

APPENDIX B

Executed C-138 Solid Waste Acceptance
Forms

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

June '14

Form C-138
Revised August 1, 2011

*Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection.

97057-0640

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. **Generator Name and Address:**
Enterprise Field Services, LLC, 614 Reilly Avenue, Farmington, NM 87401

2. **Originating Site:** Canyon Largo #85 Well Site

3. **Location of Material (Street Address, City, State or ULSTR):**
Unit G, Section 13, T24N, R6W; 36.315904, -107.417533, Rio Arriba County

4. **Source and Description of Waste:** Hydrocarbon impacted soils generated from pipeline release.

5. **Estimated Volume** 50 ^{yd³} bbls **Known Volume (to be entered by the operator at the end of the haul)** 8 ^{yd³} bbls

June '14

5. **GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS**

I, Thomas Long representative or authorized agent for Enterprise Field Services, LLC do hereby
PRINT & SIGN NAME COMPANY NAME
certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. Operator Use Only: Waste Acceptance Frequency Monthly Weekly Per Load

RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

MSDS Information RCRA Hazardous Waste Analysis Process Knowledge Other (Provide description in Box 4)

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

I, Thomas Long 5-21-14, representative for Enterprise Field Services, LLC authorize Envirotech, Inc. to
Generator Signature
complete the required testing/sign the Generator Waste Testing Certification.

I, Kendra Runney, representative for Envirotech, Inc. do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.

6. **Transporter:** Foutz and Bursum

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: Envirotech Inc. Soil Remediation Facility Permit # NM-01-0011
Address of Facility: #43 Road 7175, South of Bloomfield NM
Method of Treatment and/or Disposal:

- Evaporation
- Injection
- Treating Plant
- Landfarm
- Landfill
- Other

Waste Acceptance Status:

- APPROVED
- DENIED (Must Be Maintained As Permanent Record)

PRINT NAME: Kendra Runney TITLE: Environmental Manager DATE: 6/5/14

SIGNATURE: Kendra Runney TELEPHONE NO.: 505-632-0615
Surface Waste Management Facility Authorized Agent

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

97057-0640

Form C-138
Revised August 1, 2011

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

*Surface Waste Management Facility Operator
and Generator shall maintain and make this
documentation available for Division inspection.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. **Generator Name and Address:**
Enterprise Field Services, LLC, 614 Reilly Avenue, Farmington, NM 87401 May '14

2. **Originating Site:** Canyon Largo #85 Well Site

3. **Location of Material (Street Address, City, State or ULSTR):**
Unit G, Section 13, T24N, R6W; 36.315904, -107.417533, Rio Arriba County

4. **Source and Description of Waste:** Hydrocarbon impacted soils generated from pipeline release.

5. **Estimated Volume** 50 ^{yd³} bbls **Known Volume** (to be entered by the operator at the end of the haul) 241 ^{yd³} bbls

5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS

I, Thomas Long ^{Thomas Long} representative or authorized agent for Enterprise Field Services, LLC do hereby
PRINT & SIGN NAME COMPANY NAME
certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988
regulatory determination, the above described waste is: (Check the appropriate classification)

RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. Operator Use Only: Waste Acceptance Frequency Monthly Weekly Per Load

RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

MSDS Information RCRA Hazardous Waste Analysis Process Knowledge Other (Provide description in Box 4)

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

I, Thomas Long ^{Thomas Long} 5-21-14, representative for Enterprise Field Services, LLC authorize Envirotech, Inc. to
Generator Signature
complete the required testing/sign the Generator Waste Testing Certification.

I, Kendra Runyon representative for Envirotech, Inc. do hereby certify that
representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples
have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results
of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of
19.15.36 NMAC.

6. **Transporter:** Foutz and Bursum, Lobato, TR trucking

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: Envirotech Inc. Soil Remediation Facility Permit # NM-01-0011
Address of Facility: #43 Road 7175, South of Bloomfield NM
Method of Treatment and/or Disposal

- Evaporation Injection Treating Plant Landfarm Landfill Other

Waste Acceptance Status:

- APPROVED DENIED (Must Be Maintained As Permanent Record)

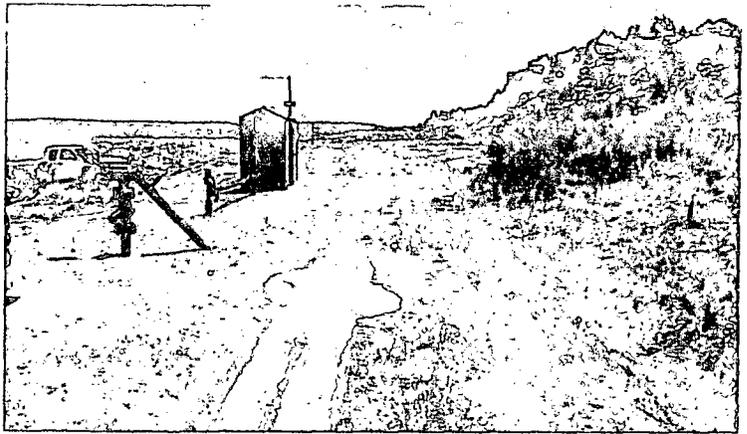
PRINT NAME: Kendra Runyon TITLE: Waste Coordinator DATE: 5/2/14
SIGNATURE: Kendra Runyon TELEPHONE NO.: 505-632-0615
Surface Waste Management Facility Authorized Agent

APPENDIX C

Photographic Documentation

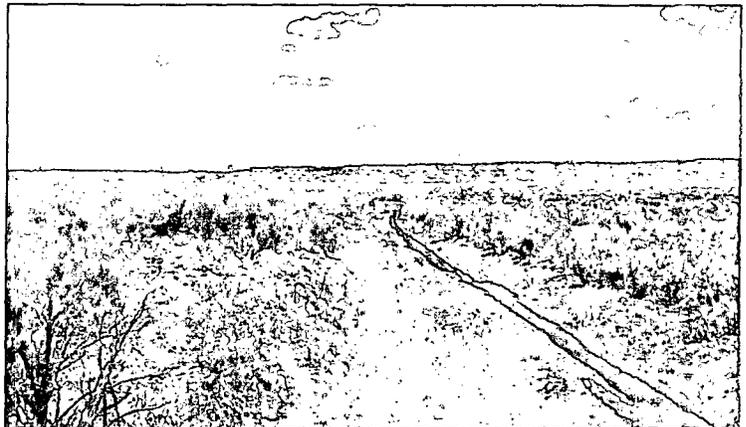
Photograph 1

View of Site, facing south, prior to corrective action activities.



Photograph 2

View of Site, facing north, prior to corrective action activities.



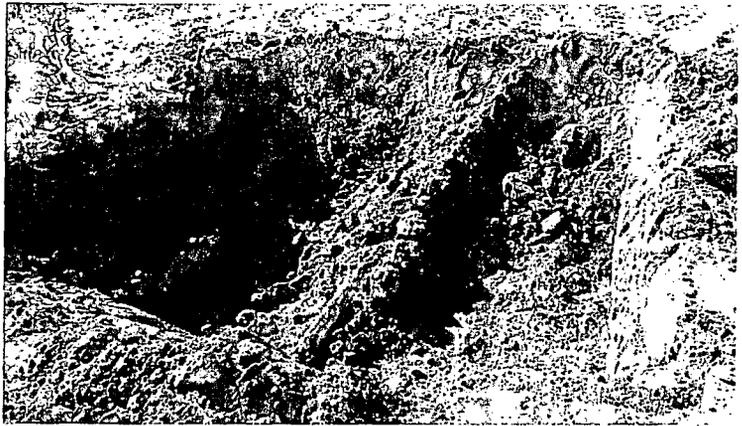
Photograph 3

View of Site subsequent to removal of surface staining.



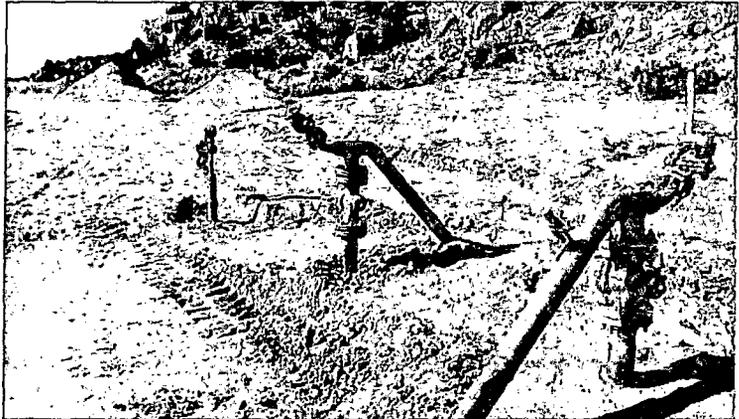
Photograph 4

Corrective action excavation at the pooling area above the pipe chase.



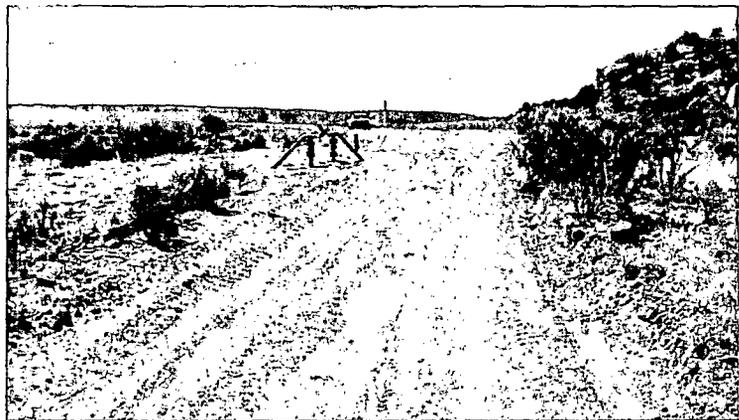
Photograph 5

View of Site subsequent to corrective action at the point of release.



Photograph 6

View of Site subsequent to the completion of corrective actions.



APPENDIX D

Tables



TABLE 1
Canyon Largo #35 Well Tie Release
SOIL ANALYTICAL SUMMARY

Sample I.D.	Date	Sample Depth (feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)
New Mexico Energy, Mineral & Natural Resources Department, Oil Conservation Division, Remediation Action Level			10	NE	NE	NE	50	100	
Final Composite Confirmation Samples									
C-1	5/27/2014	0.0 - 0.25	<0.05	<0.05	<0.05	<0.05	ND	<5.00	79.4
C-2	5/27/2014	0.0 - 0.25	<0.05	<0.05	<0.05	<0.05	ND	<5.00	43.1
C-3	5/27/2014	0.0 - 0.25	<0.05	<0.05	<0.05	<0.05	ND	<5.00	33.3
C-4	5/27/2014	0.0 - 0.25	<0.05	<0.05	<0.05	<0.05	ND	<4.99	<29.9
C-5	5/27/2014	0.25 - 0.5	<0.05	<0.05	<0.05	<0.05	ND	<4.99	<29.9
C-6	5/27/2014	0.25 - 0.5	<0.05	<0.05	<0.05	<0.05	ND	<4.99	<29.9
C-7	5/27/2014	0.5 - 3.5	<0.05	<0.05	<0.05	<0.05	ND	<4.99	<30.0
C-8	5/27/2014	0.5 - 3.5	<0.05	<0.05	<0.05	<0.05	ND	<5.00	<29.9
C-9	5/27/2014	0.5 - 3.5	<0.05	<0.05	<0.05	<0.05	ND	<4.99	<29.9
C-10	5/27/2014	0.5 - 3.5	<0.05	<0.05	<0.05	<0.05	ND	<5.00	<30.0
C-11	5/27/2014	0.5 - 3.5	<0.05	<0.05	<0.05	<0.05	ND	<5.00	<30.0

Note: Concentrations in bold and yellow exceed the applicable OCD Remediation Action Level

NE = Not Established

ND = Not Detected

APPENDIX E

Laboratory Data Reports
& Chain-of-Custody Documentation



Analytical Report

Report Summary

Client: Enterprise Products

Chain Of Custody Number: 16822

Samples Received: 5/28/2014 11:15:00AM

Job Number: 97057-0352

Work Order: P405061

Project Name/Location: L/C #85 TIE

Entire Report Reviewed By:

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

Date: 6/3/14

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.

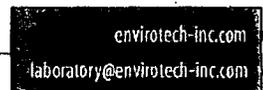


Enterprise Products 614 Reilly Ave Farmington NM, 87401	Project Name: L/C #85 TIE Project Number: 97057-0352 Project Manager: Kyle Summers-Apex TITAN	Reported: 03-Jun-14 16:35
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Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
C-1	P405061-01A	Soil	05/27/14	05/28/14	Glass Jar, 4 oz.
	P405061-01B	Soil	05/27/14	05/28/14	Glass Jar, 4 oz.
C-2	P405061-02A	Soil	05/27/14	05/28/14	Glass Jar, 4 oz.
	P405061-02B	Soil	05/27/14	05/28/14	Glass Jar, 4 oz.
C-3	P405061-03A	Soil	05/27/14	05/28/14	Glass Jar, 4 oz.
	P405061-03B	Soil	05/27/14	05/28/14	Glass Jar, 4 oz.
C-4	P405061-04A	Soil	05/27/14	05/28/14	Glass Jar, 4 oz.
	P405061-04B	Soil	05/27/14	05/28/14	Glass Jar, 4 oz.
C-5	P405061-05A	Soil	05/27/14	05/28/14	Glass Jar, 4 oz.
	P405061-05B	Soil	05/27/14	05/28/14	Glass Jar, 4 oz.
C-6	P405061-06A	Soil	05/27/14	05/28/14	Glass Jar, 4 oz.
	P405061-06B	Soil	05/27/14	05/28/14	Glass Jar, 4 oz.
C-7	P405061-07A	Soil	05/27/14	05/28/14	Glass Jar, 4 oz.
	P405061-07B	Soil	05/27/14	05/28/14	Glass Jar, 4 oz.
C-8	P405061-08A	Soil	05/27/14	05/28/14	Glass Jar, 4 oz.
	P405061-08B	Soil	05/27/14	05/28/14	Glass Jar, 4 oz.
C-9	P405061-09A	Soil	05/27/14	05/28/14	Glass Jar, 4 oz.
	P405061-09B	Soil	05/27/14	05/28/14	Glass Jar, 4 oz.
C-10	P405061-10A	Soil	05/27/14	05/28/14	Glass Jar, 4 oz.
	P405061-10B	Soil	05/27/14	05/28/14	Glass Jar, 4 oz.

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Enterprise Products 614 Reilly Ave Farmington NM, 87401	Project Name: L/C #85 TIE Project Number: 97057-0352 Project Manager: Kyle Summers-Apex TITAN	Reported: 03-Jun-14 16:35
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C-1
P405061-01 (Solid)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes	
		Limit	Units							
Volatile Organics by EPA 8021										
Benzene	ND	0.05	mg/kg	1	1422002	05/28/14	05/30/14	EPA 8021B		
Toluene	ND	0.05	mg/kg	1	1422002	05/28/14	05/30/14	EPA 8021B		
Ethylbenzene	ND	0.05	mg/kg	1	1422002	05/28/14	05/30/14	EPA 8021B		
p,m-Xylene	ND	0.05	mg/kg	1	1422002	05/28/14	05/30/14	EPA 8021B		
o-Xylene	ND	0.05	mg/kg	1	1422002	05/28/14	05/30/14	EPA 8021B		
Total Xylenes	ND	0.05	mg/kg	1	1422002	05/28/14	05/30/14	EPA 8021B		
Total BTEX	ND	0.05	mg/kg	1	1422002	05/28/14	05/30/14	EPA 8021B		
<i>Surrogate: Bromochlorobenzene</i>		99.9 %		80-120	1422002	05/28/14	05/30/14	EPA 8021B		
<i>Surrogate: 1,3-Dichlorobenzene</i>		101 %		80-120	1422002	05/28/14	05/30/14	EPA 8021B		
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg	1	1422002	05/28/14	05/30/14	EPA 8015D		
Diesel Range Organics (C10-C28)	79.4	29.9	mg/kg	1	1422001	05/28/14	05/30/14	EPA 8015D		

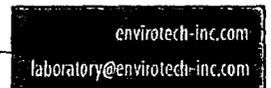
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Enterprise Products 614 Reilly Ave Farmington NM, 87401	Project Name: L/C #85 TIE Project Number: 97057-0352 Project Manager: Kyle Summers-Apex TITAN	Reported: 03-Jun-14 16:35
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C-2
P405061-02 (Solid)

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1422002	05/28/14	05/30/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1422002	05/28/14	05/30/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1422002	05/28/14	05/30/14	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1	1422002	05/28/14	05/30/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1422002	05/28/14	05/30/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1422002	05/28/14	05/30/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1422002	05/28/14	05/30/14	EPA 8021B	
<i>Surrogate: 1,3-Dichlorobenzene</i>		100 %		80-120	1422002	05/28/14	05/30/14	EPA 8021B	
<i>Surrogate: Bromochlorobenzene</i>		101 %		80-120	1422002	05/28/14	05/30/14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg	1	1422002	05/28/14	05/30/14	EPA 8015D	
Diesel Range Organics (C10-C28)	43.1	30.0	mg/kg	1	1422001	05/28/14	05/30/14	EPA 8015D	

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laboratory@envirotech-inc.com



Enterprise Products 614 Reilly Ave Farmington NM, 87401	Project Name: L/C #85 TIE Project Number: 97057-0352 Project Manager: Kyle Summers-Apex TITAN	Reported: 03-Jun-14 16:35
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C-3
P405061-03 (Solid)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes	
		Limit	Units							
Volatile Organics by EPA 8021										
Benzene	ND	0.05	mg/kg	1	1422002	05/28/14	05/30/14	EPA 8021B		
Toluene	ND	0.05	mg/kg	1	1422002	05/28/14	05/30/14	EPA 8021B		
Ethylbenzene	ND	0.05	mg/kg	1	1422002	05/28/14	05/30/14	EPA 8021B		
p,m-Xylene	ND	0.05	mg/kg	1	1422002	05/28/14	05/30/14	EPA 8021B		
o-Xylene	ND	0.05	mg/kg	1	1422002	05/28/14	05/30/14	EPA 8021B		
Total Xylenes	ND	0.05	mg/kg	1	1422002	05/28/14	05/30/14	EPA 8021B		
Total BTEX	ND	0.05	mg/kg	1	1422002	05/28/14	05/30/14	EPA 8021B		
<i>Surrogate: 1,3-Dichlorobenzene</i>		99.6 %		80-120	1422002	05/28/14	05/30/14	EPA 8021B		
<i>Surrogate: Bromochlorobenzene</i>		101 %		80-120	1422002	05/28/14	05/30/14	EPA 8021B		
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg	1	1422002	05/28/14	05/30/14	EPA 8015D		
Diesel Range Organics (C10-C28)	33.3	30.0	mg/kg	1	1422001	05/28/14	05/30/14	EPA 8015D		

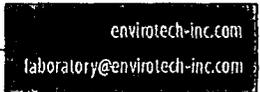
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Enterprise Products 614 Reilly Ave Farmington NM, 87401	Project Name: L/C #85 TIE Project Number: 97057-0352 Project Manager: Kyle Summers-Apex TITAN	Reported: 03-Jun-14 16:35
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C-4

P405061-04 (Solid)

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1422002	05/28/14	05/30/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1422002	05/28/14	05/30/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1422002	05/28/14	05/30/14	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1	1422002	05/28/14	05/30/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1422002	05/28/14	05/30/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1422002	05/28/14	05/30/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1422002	05/28/14	05/30/14	EPA 8021B	
<i>Surrogate: Bromochlorobenzene</i>		103 %		80-120	1422002	05/28/14	05/30/14	EPA 8021B	
<i>Surrogate: 1,3-Dichlorobenzene</i>		103 %		80-120	1422002	05/28/14	05/30/14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg	1	1422002	05/28/14	05/30/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg	1	1422001	05/28/14	05/30/14	EPA 8015D	

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C-5

P405061-05 (Solid)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes	
		Limit	Units							
Volatile Organics by EPA 8021										
Benzene	ND	0.05	mg/kg	1	1422002	05/28/14	05/30/14	EPA 8021B		
Toluene	ND	0.05	mg/kg	1	1422002	05/28/14	05/30/14	EPA 8021B		
Ethylbenzene	ND	0.05	mg/kg	1	1422002	05/28/14	05/30/14	EPA 8021B		
p,m-Xylene	ND	0.05	mg/kg	1	1422002	05/28/14	05/30/14	EPA 8021B		
o-Xylene	ND	0.05	mg/kg	1	1422002	05/28/14	05/30/14	EPA 8021B		
Total Xylenes	ND	0.05	mg/kg	1	1422002	05/28/14	05/30/14	EPA 8021B		
Total BTEX	ND	0.05	mg/kg	1	1422002	05/28/14	05/30/14	EPA 8021B		
<i>Surrogate: Bromochlorobenzene</i>		103 %		80-120	1422002	05/28/14	05/30/14	EPA 8021B		
<i>Surrogate: 1,3-Dichlorobenzene</i>		101 %		80-120	1422002	05/28/14	05/30/14	EPA 8021B		
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg	1	1422002	05/28/14	05/30/14	EPA 8015D		
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg	1	1422001	05/28/14	05/30/14	EPA 8015D		

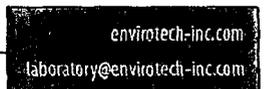
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Enterprise Products 614 Reilly Ave Farmington NM, 87401	Project Name: L/C #85 TIE Project Number: 97057-0352 Project Manager: Kyle Summers-Apex TITAN	Reported: 03-Jun-14 16:35
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C-6
P405061-06 (Solid)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes	
		Limit	Units							
<u>Volatile Organics by EPA 8021</u>										
Benzene	ND	0.05	mg/kg	1	1422002	05/28/14	05/30/14	EPA 8021B		
Toluene	ND	0.05	mg/kg	1	1422002	05/28/14	05/30/14	EPA 8021B		
Ethylbenzene	ND	0.05	mg/kg	1	1422002	05/28/14	05/30/14	EPA 8021B		
p,m-Xylene	ND	0.05	mg/kg	1	1422002	05/28/14	05/30/14	EPA 8021B		
o-Xylene	ND	0.05	mg/kg	1	1422002	05/28/14	05/30/14	EPA 8021B		
Total Xylenes	ND	0.05	mg/kg	1	1422002	05/28/14	05/30/14	EPA 8021B		
Total BTEX	ND	0.05	mg/kg	1	1422002	05/28/14	05/30/14	EPA 8021B		
<i>Surrogate: Bromochlorobenzene</i>		118 %		80-120	1422002	05/28/14	05/30/14	EPA 8021B		
<i>Surrogate: 1,3-Dichlorobenzene</i>		104 %		80-120	1422002	05/28/14	05/30/14	EPA 8021B		
<u>Nonhalogenated Organics by 8015</u>										
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg	1	1422002	05/28/14	05/30/14	EPA 8015D		
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg	1	1422001	05/28/14	05/30/14	EPA 8015D		

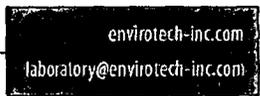
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Enterprise Products 614 Reilly Ave Farmington NM, 87401	Project Name: L/C #85 TIE Project Number: 97057-0352 Project Manager: Kyle Summers-Apex TITAN	Reported: 03-Jun-14 16:35
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C-7
P405061-07 (Solid)

Analyte	Result	Reporting			Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units							
Volatile Organics by EPA 8021										
Benzene	ND	0.05	mg/kg	1	1422002	05/28/14	05/30/14	EPA 8021B		
Toluene	ND	0.05	mg/kg	1	1422002	05/28/14	05/30/14	EPA 8021B		
Ethylbenzene	ND	0.05	mg/kg	1	1422002	05/28/14	05/30/14	EPA 8021B		
p,m-Xylene	ND	0.05	mg/kg	1	1422002	05/28/14	05/30/14	EPA 8021B		
o-Xylene	ND	0.05	mg/kg	1	1422002	05/28/14	05/30/14	EPA 8021B		
Total Xylenes	ND	0.05	mg/kg	1	1422002	05/28/14	05/30/14	EPA 8021B		
Total BTEX	ND	0.05	mg/kg	1	1422002	05/28/14	05/30/14	EPA 8021B		
<i>Surrogate: Bromochlorobenzene</i>		114 %		80-120	1422002	05/28/14	05/30/14	EPA 8021B		
<i>Surrogate: 1,3-Dichlorobenzene</i>		97.9 %		80-120	1422002	05/28/14	05/30/14	EPA 8021B		
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg	1	1422002	05/28/14	05/30/14	EPA 8015D		
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg	1	1422001	05/28/14	05/30/14	EPA 8015D		

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Enterprise Products 614 Reilly Ave Farmington NM, 87401	Project Name: L/C #85 TIE Project Number: 97057-0352 Project Manager: Kyle Summers-Apex TITAN	Reported: 03-Jun-14 16:35
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C-8
P405061-08 (Solid)

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1422002	05/28/14	05/30/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1422002	05/28/14	05/30/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1422002	05/28/14	05/30/14	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1	1422002	05/28/14	05/30/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1422002	05/28/14	05/30/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1422002	05/28/14	05/30/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1422002	05/28/14	05/30/14	EPA 8021B	
<i>Surrogate: Bromochlorobenzene</i>		108 %		80-120	1422002	05/28/14	05/30/14	EPA 8021B	
<i>Surrogate: 1,3-Dichlorobenzene</i>		100 %		80-120	1422002	05/28/14	05/30/14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg	1	1422002	05/28/14	05/30/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg	1	1422001	05/28/14	05/30/14	EPA 8015D	

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C-9
P405061-09 (Solid)

Analyte	Result	Reporting			Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units							
Volatile Organics by EPA 8021										
Benzene	ND	0.05	mg/kg	1	1422002	05/28/14	05/30/14	EPA 8021B		
Toluene	ND	0.05	mg/kg	1	1422002	05/28/14	05/30/14	EPA 8021B		
Ethylbenzene	ND	0.05	mg/kg	1	1422002	05/28/14	05/30/14	EPA 8021B		
p,m-Xylene	ND	0.05	mg/kg	1	1422002	05/28/14	05/30/14	EPA 8021B		
o-Xylene	ND	0.05	mg/kg	1	1422002	05/28/14	05/30/14	EPA 8021B		
Total Xylenes	ND	0.05	mg/kg	1	1422002	05/28/14	05/30/14	EPA 8021B		
Total BTEX	ND	0.05	mg/kg	1	1422002	05/28/14	05/30/14	EPA 8021B		
<i>Surrogate: Bromochlorobenzene</i>		97.1 %		80-120	1422002	05/28/14	05/30/14	EPA 8021B		
<i>Surrogate: 1,3-Dichlorobenzene</i>		94.6 %		80-120	1422002	05/28/14	05/30/14	EPA 8021B		
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg	1	1422002	05/28/14	05/30/14	EPA 8015D		
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg	1	1422001	05/28/14	05/30/14	EPA 8015D		

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Enterprise Products 614 Reilly Ave Farmington NM, 87401	Project Name: L/C #85 TIE Project Number: 97057-0352 Project Manager: Kyle Summers-Apex TITAN	Reported: 03-Jun-14 16:35
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C-10
P405061-10 (Solid)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes	
		Limit	Units							
Volatile Organics by EPA 8021										
Benzene	ND	0.05	mg/kg	1	1422002	05/28/14	05/30/14	EPA 8021B		
Toluene	ND	0.05	mg/kg	1	1422002	05/28/14	05/30/14	EPA 8021B		
Ethylbenzene	ND	0.05	mg/kg	1	1422002	05/28/14	05/30/14	EPA 8021B		
p,m-Xylene	ND	0.05	mg/kg	1	1422002	05/28/14	05/30/14	EPA 8021B		
o-Xylene	ND	0.05	mg/kg	1	1422002	05/28/14	05/30/14	EPA 8021B		
Total Xylenes	ND	0.05	mg/kg	1	1422002	05/28/14	05/30/14	EPA 8021B		
Total BTEX	ND	0.05	mg/kg	1	1422002	05/28/14	05/30/14	EPA 8021B		
<i>Surrogate: 1,3-Dichlorobenzene</i>		96.6 %		80-120	1422002	05/28/14	05/30/14	EPA 8021B		
<i>Surrogate: Bromochlorobenzene</i>		100 %		80-120	1422002	05/28/14	05/30/14	EPA 8021B		
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg	1	1422002	05/28/14	05/30/14	EPA 8015D		
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg	1	1422001	05/28/14	05/30/14	EPA 8015D		

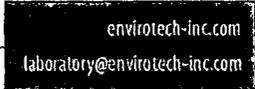
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Analytical Laboratory

Enterprise Products 614 Reilly Ave Farmington NM, 87401	Project Name: L/C #85 TIE Project Number: 97057-0352 Project Manager: Kyle Summers-Apex TITAN	Reported: 03-Jun-14 16:35
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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
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Batch 1422002 - Purge and Trap EPA 5030A

Blank (1422002-BLK1)				Prepared: 27-May-14 Analyzed: 28-May-14						
Benzene	ND	0.05	mg/kg							
Toluene	ND	0.05	"							
Ethylbenzene	ND	0.05	"							
p,m-Xylene	ND	0.05	"							
o-Xylene	ND	0.05	"							
Total Xylenes	ND	0.05	"							
Total BTEX	ND	0.05	"							
Surrogate: 1,3-Dichlorobenzene	51.0		ug/L	50.0		102	80-120			
Surrogate: Bromochlorobenzene	53.7		"	50.0		107	80-120			

Duplicate (1422002-DUP1)				Source: P405057-01 Prepared: 27-May-14 Analyzed: 28-May-14						
Benzene	ND	0.05	mg/kg		ND					30
Toluene	ND	0.05	"		ND					30
Ethylbenzene	0.06	0.05	"		ND					30
p,m-Xylene	0.48	0.05	"		0.38			22.6		30
o-Xylene	ND	0.05	"		ND					30
Surrogate: 1,3-Dichlorobenzene	54.9		ug/L	50.0		110	80-120			
Surrogate: Bromochlorobenzene	73.4		"	50.0		147	80-120			S-02

Matrix Spike (1422002-MS1)				Source: P405057-01 Prepared: 27-May-14 Analyzed: 28-May-14						
Benzene	46.6		ug/L	50.0	ND	93.2	39-150			
Toluene	50.2		"	50.0	ND	100	46-148			
Ethylbenzene	56.4		"	50.0	0.56	112	32-160			
p,m-Xylene	114		"	100	7.66	106	46-148			
o-Xylene	56.9		"	50.0	0.38	113	46-148			
Surrogate: 1,3-Dichlorobenzene	54.5		"	50.0		109	80-120			
Surrogate: Bromochlorobenzene	80.7		"	50.0		161	80-120			S-02

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Enterprise Products 614 Reilly Ave Farmington NM, 87401	Project Name: L/C #85 TIE Project Number: 97057-0352 Project Manager: Kyle Summers-Apex TITAN	Reported: 03-Jun-14 16:35
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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
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Batch 1422001 - DRO Extraction EPA 3550C

Blank (1422001-BLK1)		Prepared: 27-May-14 Analyzed: 28-May-14								
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg							
Duplicate (1422001-DUP1)		Source: P405057-01 Prepared: 27-May-14 Analyzed: 28-May-14								
Diesel Range Organics (C10-C28)	1430	30.0	mg/kg		1650			13.9	30	
Matrix Spike (1422001-MS1)		Source: P405057-01 Prepared: 27-May-14 Analyzed: 28-May-14								
Diesel Range Organics (C10-C28)	1510		mg/L	250	1570	NR	75-125			SPK1

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Analytical Laboratory

Enterprise Products 614 Reilly Ave Farmington NM, 87401	Project Name: L/C #85 TIE Project Number: 97057-0352 Project Manager: Kyle Summers-Apex TITAN	Reported: 03-Jun-14 16:35
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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
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Batch 1422002 - Purge and Trap EPA 5030A

Blank (1422002-BLK1)		Prepared: 27-May-14 Analyzed: 28-May-14								
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg							
Duplicate (1422002-DUP1)		Source: P405057-01 Prepared: 27-May-14 Analyzed: 28-May-14								
Gasoline Range Organics (C6-C10)	26.4	4.99	mg/kg		21.3			21.2	30	
Matrix Spike (1422002-MS1)		Source: P405057-01 Prepared: 27-May-14 Analyzed: 28-May-14								
Gasoline Range Organics (C6-C10)	0.97		mg/L	0.450	0.43	122	75-125			

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Analytical Laboratory

Enterprise Products
614 Reilly Ave
Farmington NM, 87401

Project Name: L/C #85 TIE
Project Number: 97057-0352
Project Manager: Kyle Summers-Apex TITAN

Reported:
03-Jun-14 16:35

Notes and Definitions

- SPK1 The spike recovery for this QC sample is outside of control limits.
- S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
- 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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CHAIN OF CUSTODY RECORD

16822

Client: ENTERPRISE		Project Name / Location: L/C #85 TIE			ANALYSIS / PARAMETERS													
Email results to: Ksummers@apexcos.com		Sampler Name: AARON BRYANT KYLE SUMMERS			TPH (Method 8015) ^{0.05g/GLO}	BTEX (Method 8021)	VOC (Method 8260)	PCRA-8 Metals TOTAL	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE	Sample Cool	Sample Intact		
Client Phone No.: 903-821-5603		Client No.: 97057-0352																
Sample No. / Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative		TPH (Method 8015) ^{0.05g/GLO}	BTEX (Method 8021)	VOC (Method 8260)	PCRA-8 Metals TOTAL	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE	Sample Cool	Sample Intact
					HNO ₃	HCl												
C-1	5-27-14	0845	P4050W1-01	2x 4oz			X	X									X	X
C-2		0915	P4050W1-02															
C-3		0940	P4050W1-03		X	X												
C-4		1145	P4050W1-04		X	X												
C-5		1405	P4050W1-05		X	X												
C-6		1500	P4050W1-06		X	X												
C-7		1530	P4050W1-07		X	X												
C-8		1545	P4050W1-08		X	X												
C-9		1550	P4050W1-09		X	X												
C-10		1555	P4050W1-10		X	X												

Relinquished by: (Signature) *[Signature]* Date **5/28/14** Time **11:15** Received by: (Signature) *[Signature]* Date **5/28/14** Time **11:15**

Relinquished by: (Signature) _____ Received by: (Signature) _____

Sample Matrix
 Soil Solid Sludge Aqueous Other _____

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

Pay Key # GG11580


2.1 2.0 3.1
2.4

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Page 17 of 17



Analytical Report

Report Summary

Client: Enterprise Products
Chain Of Custody Number: 16823
Samples Received: 5/28/2014 11:15:00AM
Job Number: 97057-0352
Work Order: P405062
Project Name/Location: L/C #85 TIE

Entire Report Reviewed By:

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

Date: 6/3/14

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: L/C #85 TIE Project Number: 97057-0352 Project Manager: Kyle Summers-Apex TITAN	Reported: 03-Jun-14 16:38
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Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
C-11	P405062-01A	Soil	05/27/14	05/28/14	Glass Jar, 4 oz.
	P405062-01B	Soil	05/27/14	05/28/14	Glass Jar, 4 oz.

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Enterprise Products 614 Reilly Ave Farmington NM, 87401	Project Name: L/C #85 TIE Project Number: 97057-0352 Project Manager: Kyle Summers-Apex TITAN	Reported: 03-Jun-14 16:38
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C-11
P405062-01 (Solid)

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1422007	05/30/14	06/03/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1422007	05/30/14	06/03/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1422007	05/30/14	06/03/14	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1	1422007	05/30/14	06/03/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1422007	05/30/14	06/03/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1422007	05/30/14	06/03/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1422007	05/30/14	06/03/14	EPA 8021B	
<i>Surrogate: Bromochlorobenzene</i>		104 %		80-120	1422007	05/30/14	06/03/14	EPA 8021B	
<i>Surrogate: 1,3-Dichlorobenzene</i>		94.6 %		80-120	1422007	05/30/14	06/03/14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg	1	1422007	05/30/14	06/03/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg	1	1422008	05/30/14	06/02/14	EPA 8015D	

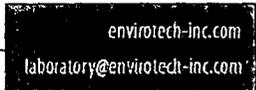
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Enterprise Products 614 Reilly Ave Farmington NM, 87401	Project Name: L/C #85 TIE Project Number: 97057-0352 Project Manager: Kyle Summers-Apex TITAN	Reported: 03-Jun-14 16:38
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Volatile Organics by EPA 8021 - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1422007 - Purge and Trap EPA 5030A

Blank (1422007-BLK1)			Prepared: 30-May-14 Analyzed: 02-Jun-14							
Benzene	ND	0.05	mg/kg							
Toluene	ND	0.05	"							
Ethylbenzene	ND	0.05	"							
p,m-Xylene	ND	0.05	"							
o-Xylene	ND	0.05	"							
Total Xylenes	ND	0.05	"							
Total BTEX	ND	0.05	"							
Surrogate: 1,3-Dichlorobenzene	47.6		ug/L	50.0		95.3	80-120			
Surrogate: Bromochlorobenzene	48.9		"	50.0		97.8	80-120			

Duplicate (1422007-DUP1)			Source: P405060-01		Prepared: 30-May-14 Analyzed: 02-Jun-14					
Benzene	ND	0.05	mg/kg		ND					30
Toluene	ND	0.05	"		ND					30
Ethylbenzene	ND	0.05	"		ND					30
p,m-Xylene	ND	0.05	"		ND					30
o-Xylene	ND	0.05	"		ND					30
Surrogate: 1,3-Dichlorobenzene	49.2		ug/L	50.0		98.3	80-120			
Surrogate: Bromochlorobenzene	52.9		"	50.0		106	80-120			

Matrix Spike (1422007-MS1)			Source: P405060-01		Prepared: 30-May-14 Analyzed: 02-Jun-14					
Benzene	2.25	0.05	mg/kg	2.49	ND	90.3	39-150			
Toluene	2.25	0.05	"	2.49	ND	90.3	46-148			
Ethylbenzene	2.27	0.05	"	2.49	ND	91.2	32-160			
p,m-Xylene	4.55	0.05	"	4.99	ND	91.2	46-148			
o-Xylene	2.30	0.05	"	2.49	ND	92.4	46-148			
Surrogate: 1,3-Dichlorobenzene	46.1		ug/L	50.0		92.3	80-120			
Surrogate: Bromochlorobenzene	50.5		"	50.0		101	80-120			

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Enterprise Products 614 Reilly Ave Farmington NM, 87401	Project Name: L/C #85 TIE Project Number: 97057-0352 Project Manager: Kyle Summers-Apex TITAN	Reported: 03-Jun-14 16:38
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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
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Batch 1422007 - Purge and Trap EPA 5030A

Blank (1422007-BLK1)		Prepared: 30-May-14 Analyzed: 02-Jun-14								
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg							
Duplicate (1422007-DUP1)		Source: P405060-01 Prepared: 30-May-14 Analyzed: 02-Jun-14								
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg		ND				30	
Matrix Spike (1422007-MS1)		Source: P405060-01 Prepared: 30-May-14 Analyzed: 02-Jun-14								
Gasoline Range Organics (C6-C10)	22.0	4.99	mg/kg	22.4	ND	98.2	75-125			

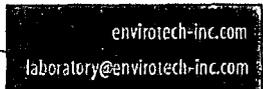
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Enterprise Products 614 Reilly Ave Farmington NM, 87401	Project Name: L/C #85 TIE Project Number: 97057-0352 Project Manager: Kyle Summers-Apex TITAN	Reported: 03-Jun-14 16:38
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Nonhalogenated Organics by 8015 - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1422008 - DRO Extraction EPA 3550C

Blank (1422008-BLK1)				Prepared: 30-May-14 Analyzed: 02-Jun-14						
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg							
Duplicate (1422008-DUP1)				Source: P405060-01 Prepared: 30-May-14 Analyzed: 02-Jun-14						
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg		ND				30	
Matrix Spike (1422008-MS1)				Source: P405060-01 Prepared: 30-May-14 Analyzed: 02-Jun-14						
Diesel Range Organics (C10-C28)	264		mg/L	250	7.86	103	75-125			

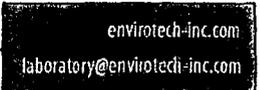
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Analytical Laboratory

Enterprise Products
614 Reilly Ave
Farmington NM, 87401

Project Name: L/C #85 TIE
Project Number: 97057-0352
Project Manager: Kyle Summers-Apex TITAN

Reported:
03-Jun-14 16:38

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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CHAIN OF CUSTODY RECORD

16823

Client: ENTERPRISE		Project Name / Location: L/C # 85 TIE		ANALYSIS / PARAMETERS															
Email results to: KSummers@apcx.com		Sampler Name: AARON BRYANT KYLE SUMMERS		TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals TO TAIL	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE	Sample Cool	Sample Intact				
Client Phone No.: 903-821-5603		Client No.: 97057-0352																	
Sample No. / Identification	Sample Date	Sample Time	Lab No.	No. / Volume of Containers	Preservative		TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals TO TAIL	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE	Sample Cool	Sample Intact	
					HNO ₃	HCl													
C-11	5-27-14	1600	P405002-01	2 X 4oz			X	X		X	Cancelled per Kyle 6/2/14							X	X
			NFS																
			AB																
Relinquished by: (Signature) <i>[Signature]</i>				Date	Time	Received by: (Signature) <i>[Signature]</i>				Date	Time								
Relinquished by: (Signature)						Received by: (Signature)													
Sample Matrix				PAY KEY # 6611580															
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 2.5 Analytical Laboratory															

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	PROD SEP 15 '14 OIL CONS. DIV.
Address: 614 Reilly Ave, Farmington, NM 87401	Telephone No. 505-599-2286	
Facility Name: Lateral 2A-3	Facility Type: Natural Gas Gathering Line	

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

LOCATION OF RELEASE

DIST. 3

Unit Letter	Section	Township	Range	Feet from the	North/South	Feet from the	East/West	County
M	27	27N	10W	375	South	312	West	San Juan

Latitude 36.554534 **Longitude** -107.890875

NATURE OF RELEASE

Type of Release: Natural Gas and Natural Gas Liquids	Volume of Release Unknown	Volume Recovered: Unknown
Source of Release: Internal Corrosion	Date and Hour of Occurrence: 8/28/2014 @ 7:00 a.m.	Date and Hour of Discovery: 8/28/2014 @ 7:45 a.m.
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom? Courtesy notification to NMOCD - Cory Smith; BLM - Shari Ketchum	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action: On August 28, 2014 a pipeline leak was discovered while performing a pipeline patrol on the Lateral 2A-2 pipeline ROW. The Enterprise technician initiated notification procedures. The pipeline was isolated, blown down, depressurized, locked out and tagged out. On September 5, 2014, a third leak was discovered approximately 100 yards away from the first two. A third party environmental contractor will oversee excavation activities and collect closure samples during repair activities.

Describe Area Affected and Cleanup Action Taken On August 28, 2014 a pipeline leak was discovered while performing a pipeline patrol on the Lateral 2A-2 pipeline ROW. The Enterprise technician initiated notification procedures. The pipeline was isolated, blown down, depressurized, locked out and tagged out. On September 5, 2014, a third leak was discovered approximately 100 yards away from the first two. A third party environmental contractor will oversee excavation activities and collect closure samples during repair activities. A "final" c-141 will be submitted upon receipt of the third party environmental contractor corrective action 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 E. Fields</i>	OIL CONSERVATION DIVISION	
Printed Name: Jon Fields	Approved by Environmental Specialist: <i>Cheryl</i>	
Title: Director, Environmental	Approval Date: 8/15/14	Expiration Date:
E-mail Address: jefields@eprod.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 9-9-2014 Phone: (713)381-6684		

* Attach Additional Sheets If Necessary

HUCS 142 6136 053

1

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
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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	ROUD SEP 15 '14
Address: 614 Reilly Ave, Farmington, NM 87401	Telephone No. 505-599-2286	OIL CONS. DIV.
Facility Name: Lateral 2A-2	Facility Type: Natural Gas Gathering Line	

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

LOCATION OF RELEASE

DIST. 3

Unit Letter I	Section 25	Township 27N	Range 10W	Feet from the 1420	North/South Line South	Feet from the 120	East/West Line East	County San Juan
------------------	---------------	-----------------	--------------	--------------------------	------------------------------	-------------------------	---------------------------	--------------------

Latitude 36.557404 Longitude -107.892363

NATURE OF RELEASE

Type of Release: Natural Gas and Natural Gas Liquids	Volume of Release: Unknown	Volume Recovered: Unknown
Source of Release: Internal Corrosion	Date and Hour of Occurrence: 8/28/2014 @ 8:30 a.m.	Date and Hour of Discovery: 8/28/2014 @ 9:30 a.m.
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom? Courtesy notification to NMOCD - Cory Smith; BLM - Shari Ketchum	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action: On August 28, 2014 a pipeline leak was discovered while performing a pipeline patrol on the Lateral 2A-2 pipeline ROW. The Enterprise technician initiated notification procedures. The pipeline was isolated, blown down, depressurized, locked out and tagged out. A third party environmental contractor will oversee excavation activities and collect closure samples during repair activities.

Describe Area Affected and Cleanup Action Taken: On August 28, 2014 a pipeline leak was discovered while performing a pipeline patrol on the Lateral 2A-2 pipeline ROW. The Enterprise technician initiated notification procedures. The pipeline was isolated, blown down, depressurized, locked out and tagged out. A third party environmental contractor will oversee excavation activities and collect closure samples during repair activities. A "final" c-141 will be submitted upon receipt of the third party environmental contractor corrective action 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 E. Fields</i>	OIL CONSERVATION DIVISION	
Printed Name: Jon Fields	Approved by Environmental Specialist: <i>[Signature]</i>	
Title: Director, Environmental	Approval Date: 9/18/14	Expiration Date:
E-mail Address: jefields@eprod.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 9-9-2014	Phone: (713)381-6684	

* Attach Additional Sheets If Necessary

#NCS 1426135850

①

District I
1625 N. French Dr., Hobbs, NM 88240
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811 S. First St., Artesia, NM 88210
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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: P.O. Box 4324, Houston, TX 77210	Telephone No. 505-599-2286
Facility Name: Lateral 10D-1	Facility Type: Natural Gas Gathering Line

Surface Owner: NAPI/Navajo Tribal	Mineral Owner: NAPI/Navajo Tribal	API No.
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LOCATION OF RELEASE

RCVD SEP 19 '14
OIL CONSERV. DIV.

Unit Letter F	Section 12	Township 26N	Range 12W	Feet from the 1488	North South Line	Feet from the 2518	East West Line	County San Juan
------------------	---------------	-----------------	--------------	--------------------------	------------------	--------------------------	----------------	--------------------

Latitude 36.50578 Longitude -108.06366 DIST. 3

NATURE OF RELEASE

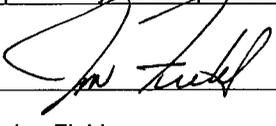
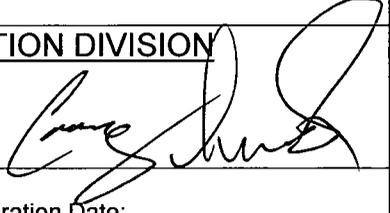
Type of Release: Natural Gas	Volume of Release: 23.11 MCF	Volume Recovered: NONE
Source of Release: Internal Corrosion	Date and Hour of Occurrence: 6/26/2014 @ 10:30 a.m.	Date and Hour of Discovery: 6/26/2014 @ 11:15 a.m.
Was Immediate Notice Given? Required <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not	If YES, To Whom? Courtesy Notification to NMOCD - Cory Smith; NNEPA- Steve Austin; Mike Freeman/Eric Trevizo -NAPI	
By Whom? Thomas Long	Date and Hour 7/7/2014 @ 10:01 a.m. email and phone call	
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: Enterprise personnel responded to a possible line leak on the Lateral 10D-1 pipeline. An Enterprise technician verified the leak and initiated notification procedures. The pipeline was isolated, blown down, and depressurized, locked out and tagged out. The repairs and remediation were completed on July 8, 2014.

Describe Area Affected and Cleanup Action Taken.*: Enterprise personnel responded to a possible line leak on the Lateral 10D-1 pipeline. An Enterprise technician verified the leak and initiated notification procedures. The pipeline was isolated, blown down, and depressurized, locked out and tagged out. The repairs and remediation were completed on July 8, 2014. The final excavation dimensions measured approximately fifty (50) feet long by fifteen (15) wide by seven (7) feet deep. A third party corrective action report is included with this "Final C-141."

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, Environmental	Approval Date: 9/25/14	Expiration Date:
E-mail Address: jefields@eprod.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 9/15/2014	Phone: (713)381-6684	

* Attach Additional Sheets If Necessary

#axes 1426837529

41



CORRECTIVE ACTION REPORT

Property:

**Lateral 10D-1 Pipeline Release
NW 1/4, S12 T26N R12W
San Juan County, New Mexico**

August 25, 2014
Apex Project No. 7030414G026

Prepared for:

**Enterprise Field Services LLC
614 Reilly Avenue
Farmington, NM 87401
Attn: Mr. Thomas Long**

Prepared by:

Handwritten signature of Heather M. Woods in black ink.

Heather M. Woods, P.G.
Senior Project Manager

Handwritten signature of Elizabeth Scaggs in black ink.

Elizabeth Scaggs, P.G.
Senior Program Manager

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Appendix A: Figure 1 – Topographic Map
Figure 2 – Site Vicinity Map
Figure 3 – Site Map with Soil Analytical Results

Appendix B: Tables

Appendix C: Laboratory Analytical Reports &
Chain of Custody Documentation

CORRECTIVE ACTION REPORT

Lateral 10D-1 Pipeline Release
NW 1/4, S12 T26N R12W
San Juan County, New Mexico

Apex Project No. 7030414G026

1.0 INTRODUCTION

1.1 Site Description & Background

The Lateral 10D-1 Pipeline Release Site is located within the Enterprise Field Services LLC (Enterprise) pipeline right-of-way (ROW) in the northwest (NW) ¼ of Section 12 in Township 26 North and Range 12 West in San Juan County, New Mexico (36.50578N 108.06366W), referred to hereinafter as the "Site" or "subject Site". The Site is located on land owned by the Navajo Nation, and operated by the Navajo Agricultural Products Industry (NAPI). The property surrounding the Site is primarily agricultural, with occasional oil and gas gathering facilities, including one (1) Enterprise natural gas gathering pipeline which traverses the area from southeast to northwest.

On July 8, 2014, Enterprise shut in the Lateral 10D-1 pipeline and initiated excavation activities at the Site in an effort to locate and repair a subsurface leak. The leak was subsequently identified and repaired, and was located in the general vicinity of a pipeline release which occurred in September 2013. An unknown quantity of natural gas was released from the pipeline as a result of internal corrosion. The leak was identified by vapor monitoring at the ground surface. No surface expression of the release was evident.

A topographic map depicting the location of the Site is included as Figure 1, and a Site Vicinity Map is included as Figure 2 in Appendix A.

1.2 Project Objective

The primary objective of the corrective actions was to reduce the concentration of constituents of concern (COCs) in the on-Site soils to below the New Mexico Energy, Minerals, and Natural Resources Department (EMNRD), Oil Conservation Division (OCD) *Remediation Action Levels* using the New Mexico EMNRD OCD's *Guidelines for Remediation of Leaks, Spills and Releases* as guidance.

2.0 SITE RANKING

The Site is subject to regulatory oversight by the Navajo Nation Environmental Protection Agency (NNEPA) and the New Mexico OCD. Apex TITAN, Inc. (Apex) utilized the New Mexico ENMRD OCD's *Guidelines for Remediation of Leaks, Spills and Releases*. Apex utilized the general site characteristics obtained during the completion of corrective action activities to determine the appropriate "ranking" for the Site. The ranking criteria and associated scoring are provided in the following table:



Ranking Criteria			Ranking Score
Depth to Groundwater	<50 feet	20	20*
	50 to 99 feet	10	
	>100 feet	0	
Wellhead Protection Area • <1,000 feet from a water source, or; <200 feet from private domestic water source.	Yes	20	0
	No	0	
Distance to Surface Water Body	<200 feet	20	20
	200 to 1,000 feet	10	
	>1,000 feet	0	
Total Ranking Score			40

*Based on anticipated groundwater depth of <50 feet below grade surface (bgs).

Based on Apex's evaluation of the scoring criteria, the Site would have a maximum Total Ranking Score of "40". This ranking is based on the following:

- No water wells were identified on the Office of the State Engineer website database within the search radius. However, previous experience at the site indicates groundwater present at less than 10 feet bgs, resulting in a ranking of "20" for depth to groundwater.
- No water sources were identified within 1,000 feet of the Site.
- The Site is located approximately 50 feet southwest of the head of a small un-named ephemeral wash that drains to the Gallegos Wash, resulting in a ranking of "20" for distance to potential surface water.

3.0 RESPONSE ACTIONS

3.1 Soil Excavation Activities

On July 8, 2014, Enterprise shut in the Lateral 10D-1 pipeline and initiated excavation activities at the Site in an effort to locate and repair a subsurface leak. The leak was subsequently identified and repaired. The release was located in the general vicinity of a prior pipeline release which was repaired in September 2013. An unknown quantity of natural gas was released from the pipeline as a result of internal corrosion. The leak was identified by vapor monitoring at the ground surface. No surface expression of the release was evident and no adverse soil impact was identified. During the corrective action activities, Energy Maintenance Services USA, Inc. provided heavy equipment and labor support, and Kyle Summers and Heather Woods, Apex environmental professionals, provided environmental support.

The overall surface expression of the final excavation measured approximately 50 feet long by 15 feet wide, with a total depth of approximately 7 feet bgs. The excavated soils were placed in a stockpile adjacent to the excavation.

The lithology encountered during the completion of corrective action activities consisted primarily of unconsolidated sands and silty sands.

Excavation activities associated with the pipeline repair were completed on July 8, 2014. Soil samples (S-1 through S-5) and stockpile samples (SP-1 through SP-3) were collected subsequent to the pipeline repair activities. Analytical results for the confirmation and stockpile soil samples indicate that adversely affected soils were not identified at the Site. The excavation was backfilled with the stockpiled soil and contoured to surrounding grade.

Figure 3 is a site map that indicates the approximate location of the excavated area in relation to pertinent land features (Appendix A).

3.2 Soil Sampling Program

Apex screened head-space samples of Site soils with a photoionization detector (PID) fitted with a 10.6 eV lamp. Soil samples were collected from the zones exhibiting the highest PID reading.

Apex's soil sampling program included the collection of five (5) final confirmation samples (S-1 through S-5) and stockpile samples (SP-1 through SP-3) from the resulting excavation for laboratory analysis. Soil sample S-1 was collected from the excavation floor, beneath the release point; soil sample S-2 was collected from the northeastern sidewall; soil sample S-3 was collected from the southeastern sidewall; soil sample S-4 was collected from the southwestern sidewall; and soil sample S-5 was collected from the northwestern sidewall. Figure 3 depicts the approximate location of the excavated areas and shows the final confirmation sample locations in relation to the final excavation dimensions (Appendix A).

The samples were collected and placed in laboratory prepared glassware, labeled/sealed using the laboratory supplied labels, and placed on ice in a cooler, which was secured with a custody seal. The samples and completed chain-of-custody forms were relinquished to Envirotech Analytical Laboratory in Farmington, New Mexico, for analysis.

3.3 Laboratory Analytical Methods

The confirmation soil samples were analyzed for benzene, toluene, ethylbenzene, and total xylenes (BTEX) using EPA SW-846 Method #8021, and total petroleum hydrocarbons (TPH) gasoline range organics (GRO) and diesel range organics (DRO) using EPA SW-846 Method #8015.

Laboratory results are summarized in Table 1, included in Appendix B. The executed chain-of-custody form and laboratory data sheets are provided in Appendix C.

4.0 DATA EVALUATION

The Site is subject to regulatory oversight by the NNEPA and the New Mexico OCD. Apex utilized the New Mexico EMNRD OCD guidance and rules. To address activities related to condensate releases, the New Mexico EMNRD OCD utilizes the *Guidelines for Remediation of Leaks, Spills and Releases* as guidance, in addition to the OCD rules, specifically NMAC 19.15.30 *Remediation*. These guidance documents establish investigation and abatement action requirements for sites subject to reporting and/or corrective action.

4.1 Confirmation Soil Samples

Apex compared the BTEX and TPH concentrations or reporting limits (RLs) associated with the final confirmation samples collected from the excavated area and related stockpile to the OCD *Remediation Action Levels* for sites having a total ranking score of "40".

- The laboratory analyses of confirmation samples collected from soils remaining in place do not indicate benzene concentrations above laboratory RLs, which are below the OCD *Remediation Action Level*.

- The laboratory analyses of confirmation samples collected from soils remaining in place do not indicate total BTEX concentrations above laboratory RLs, which are below the *OCD Remediation Action Level*.
- The laboratory analyses of the confirmation sample collected from soils remaining in place indicate combined TPH GRO/DRO concentrations ranging from below the laboratory detection limits to 33.7 milligrams per kilogram (mg/Kg) which are below the *OCD Remediation Action Level*.

Confirmation sample results are provided in Table 1 in Appendix B.

5.0 FINDINGS AND RECOMMENDATIONS

The Lateral 10D-1 Pipeline Release Site is located within the Enterprise pipeline ROW in the NW $\frac{1}{4}$ of Section 12 in Township 26 North and Range 12 West in San Juan County, New Mexico. The Site is located on land owned by the Navajo Nation, and operated by NAPI. The property surrounding the Site is primarily agricultural, with occasional oil and gas gathering facilities, including one (1) Enterprise natural gas gathering pipeline which traverses the area from southeast to northwest.

On July 8, 2014, Enterprise shut in the Lateral 10D-1 pipeline, initiated excavation activities at the Site in an attempt to locate and repair a subsurface leak. The leak was subsequently identified and repaired. The release was located in the general vicinity of a prior pipeline release which was repaired in September 2013. An unknown quantity of natural gas was released from the pipeline as a result of internal corrosion. The leak was identified by vapor monitoring at the ground surface. No surface expression of the release was evident.

- The primary objective of the corrective actions was to reduce the concentration of COCs in the on-Site soils to below the New Mexico EMNRD *OCD Remediation Action Levels* using the New Mexico EMNRD OCD's *Guidelines for Remediation of Leaks, Spills and Releases* as guidance.
- The lithology encountered during the completion of corrective action activities consisted primarily of unconsolidated sands and silty sands.
- The overall surface expression of the final excavation measured approximately 50 feet long by 15 feet wide, with a total depth of approximately 7 feet bgs.
- Prior to backfilling, eight (8) final confirmation and stockpile samples were collected from the resulting excavation and stockpiles for laboratory analyses. Based on analytical results, soils remaining in place do not exhibit COC concentrations above the *OCD Remediation Action Levels* for a Site ranking of "40".
- Subsequent to the receipt of laboratory analytical results, the stockpiled soils were used to backfill the excavation. The area was contoured to surrounding grade following backfilling activities.

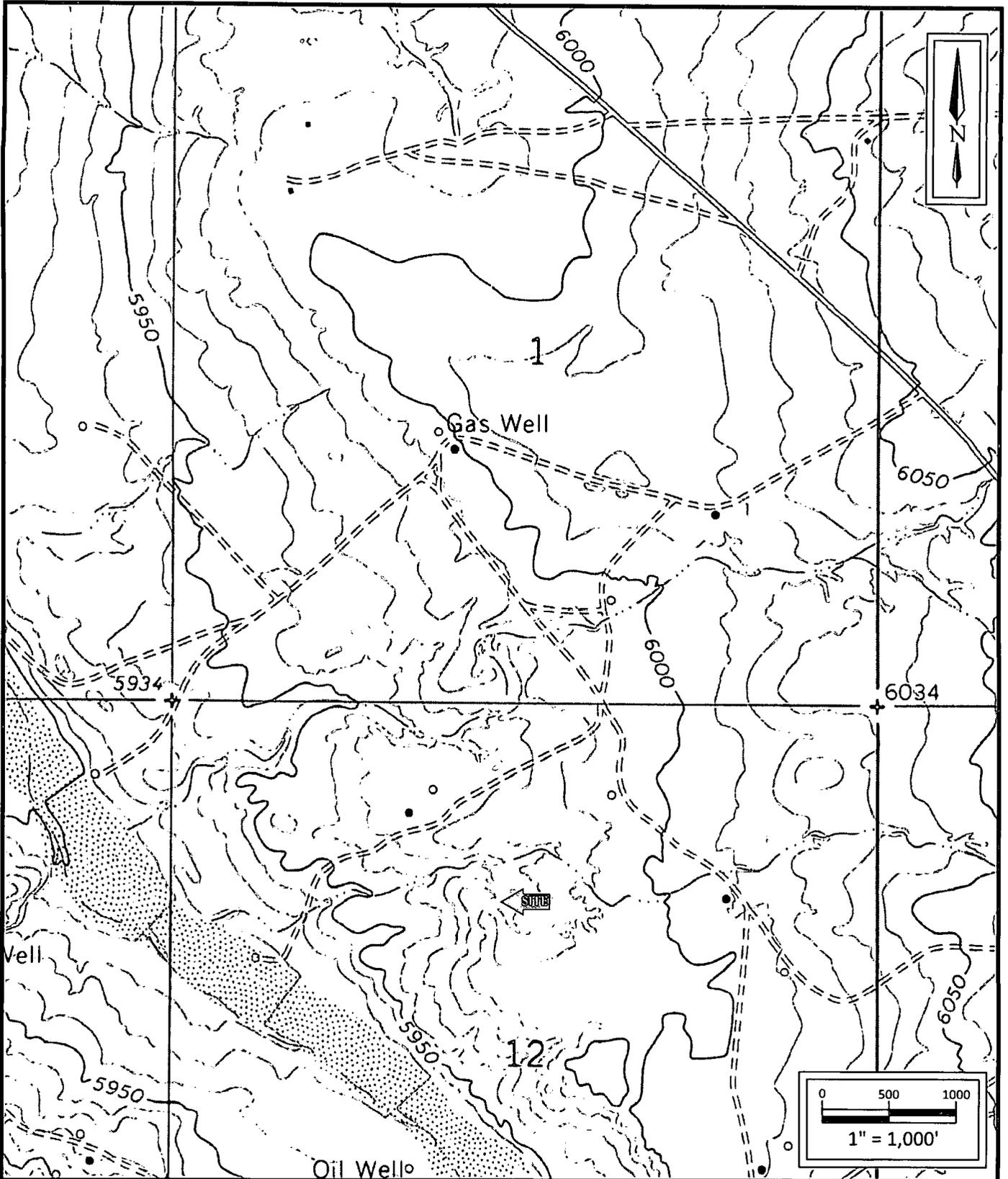
Based on the laboratory analytical results, no additional investigation or corrective action appears warranted at this time.

6.0 STANDARD OF CARE, LIMITATIONS, AND RELIANCE

Apex's services were performed in accordance with standards customarily provided by a firm rendering the same or similar services in the area during the same time period. Apex makes no warranties, expressed or implied, as to the services performed hereunder. Additionally, Apex does not warrant the work of third parties supplying information used in the report (e.g. laboratories, regulatory agencies, or other third parties). This scope of services was performed in accordance with the scope of work agreed with the client.

Findings, conclusions and recommendations resulting from these services are based upon information derived from the on-Site activities and other services performed under this scope of work and it should be noted that this information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, or not present during these services, and Apex cannot represent that the Site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those identified during this scope of services. Environmental conditions at other areas or portions of the Site may vary from those encountered at actual sample locations. Apex's findings and recommendations are based solely upon data available to Apex at the time of these services.

This report has been prepared for the exclusive use of Enterprise, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the Site) is prohibited without the expressed written authorization of Enterprise and Apex. Any unauthorized distribution or reuse is at the client's sole risk. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions and limitations stated in the proposal, the report, and Apex's Agreement. The limitation of liability defined in the agreement is the aggregate limit of Apex's liability to the client.



Lateral 10D-1 (2014) Pipeline Release

NW $\frac{1}{4}$ S12 T26N R12W
 Rural San Juan County, NM
 36.50578N, 108.06366W

Project No. 7030414G026



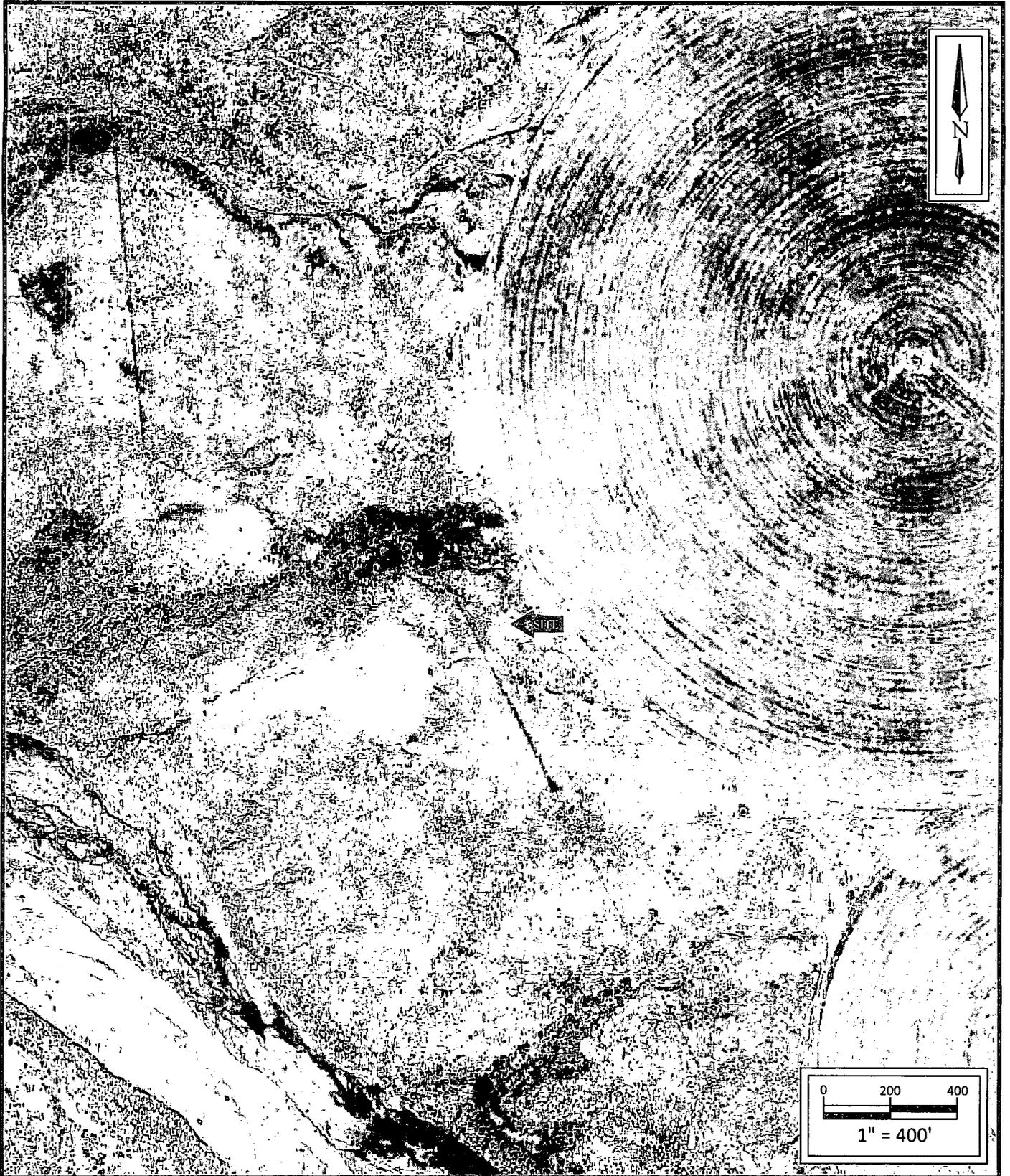
Apex TITAN, Inc.

606 S. Rio Grande, Suite A
 Aztec, New Mexico 87410
 Phone: (505) 334-5200

www.apexcos.com

A Subsidiary of Apex Companies, LLC

FIGURE 1
Topographic Map
 Gallegos Trading Post, NM Quadrangle
 1965



Lateral 10D-1 (2014) Pipeline Release

NW $\frac{1}{4}$ S12 T26N R12W
Rural San Juan County, NM
36.50578N, 108.06366W

Project No. 7030414G026



Apex TITAN, Inc.

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Aztec, New Mexico 87410
Phone: (505) 334-5200

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FIGURE 2
Site Vicinity Map
2013 Aerial Photograph



S-5
7/8/2014

Benzene:	<0.05
Toluene:	<0.05
Ethylbenzene:	<0.05
Xylenes:	<0.05
Total BTEX:	ND
GRO:	<4.99
DRO:	<29.9

S-2
7/8/2014

Benzene:	<0.05
Toluene:	<0.05
Ethylbenzene:	<0.05
Xylenes:	<0.05
Total BTEX:	ND
GRO:	<4.99
DRO:	<29.9

S-4
7/8/2014

Benzene:	<0.05
Toluene:	<0.05
Ethylbenzene:	<0.05
Xylenes:	<0.05
Total BTEX:	ND
GRO:	<4.98
DRO:	<30.0

S-1
7/8/2014

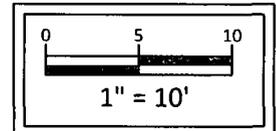
Benzene:	<0.05
Toluene:	<0.05
Ethylbenzene:	<0.05
Xylenes:	<0.05
Total BTEX:	ND
GRO:	<4.99
DRO:	<30.0

S-3
7/8/2014

Benzene:	<0.05
Toluene:	<0.05
Ethylbenzene:	<0.05
Xylenes:	<0.05
Total BTEX:	ND
GRO:	<5.00
DRO:	<30.0

LEGEND:

---	PIPELINE
●	SAMPLE LOCATION
△	RELEASE POINT
▨	EXTENT OF EXCAVATION



Lateral 10D-1 (2014) Pipeline Release

NW $\frac{1}{4}$ S12 T26N R12W
Rural San Juan County, NM
36.50578N, 108.06366W

Project No. 7030414G026



Apex TITAN, Inc.

606 S. Rio Grande, Suite A
Aztec, New Mexico 87410
Phone: (505) 334-5200

www.apexcos.com
A Subsidiary of Apex Companies, LLC

FIGURE 3
Site Map with
Sample Locations



TABLE 1
Lateral 10D-1 (2014) Pipeline Release
SOIL ANALYTICAL SUMMARY

Sample I.D.	Date	Sample Depth (feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)
New Mexico Entergy, Mineral & Natural Resources Department, Oil Conservation Division, Remediation Action Level			10	NE	NE	NE	50	100	
Excavation Confirmation Samples									
S-1	7/8/2014	7	<0.05	<0.05	<0.05	<0.05	ND	<4.99	<30.0
S-2	7/8/2014	5 to 7	<0.05	<0.05	<0.05	<0.05	ND	<4.99	<29.9
S-3	7/8/2014	5 to 7	<0.05	<0.05	<0.05	<0.05	ND	<5.00	<30.0
S-4	7/8/2014	5 to 7	<0.05	<0.05	<0.05	<0.05	ND	<4.98	<30.0
S-5	7/8/2014	5 to 7	<0.05	<0.05	<0.05	<0.05	ND	<4.99	<29.9
Stockpile Confirmation Samples									
SP-1	7/8/2014	Stockpile	<0.05	<0.05	<0.05	<0.05	ND	<5.00	<30.0
SP-2	7/8/2014	Stockpile	<0.05	<0.05	<0.05	<0.05	ND	<4.99	33.7
SP-3	7/8/2014	Stockpile	<0.05	<0.05	<0.05	<0.05	ND	<5.00	<29.9

Note: Concentrations in bold and yellow exceed the applicable OCD Remediation Action Level

NE = Not Established

ND = Not Detected above the Laboratory Reporting Limits



Analytical Report

Report Summary

Client: Enterprise Products
Chain Of Custody Number: 17196
Samples Received: 7/8/2014 4:17:00PM
Job Number: 97057-0352
Work Order: P407033
Project Name/Location: 10D-1

Entire Report Reviewed By:

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

Date: 7/10/14

Tim Cain, Laboratory Manager

Supplement to analytical report generated on: 7/10/14 10:25 am

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: 10D-1 Project Number: 97057-0352 Project Manager: Kyle Summers-Apex TITAN	Reported: 10-Jul-14 13:22
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Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S-1	P407033-01A	Soil	07/08/14	07/08/14	Glass Jar, 4 oz.

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Enterprise Products 614 Reilly Ave Farmington NM, 87401	Project Name: 10D-1 Project Number: 97057-0352 Project Manager: Kyle Summers-Apex TITAN	Reported: 10-Jul-14 13:22
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S-1

P407033-01 (Solid)

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1428015	07/09/14	07/09/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1428015	07/09/14	07/09/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1428015	07/09/14	07/09/14	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1	1428015	07/09/14	07/09/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1428015	07/09/14	07/09/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1428015	07/09/14	07/09/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1428015	07/09/14	07/09/14	EPA 8021B	
<i>Surrogate: Bromochlorobenzene</i>		97.7 %		80-120	1428015	07/09/14	07/09/14	EPA 8021B	
<i>Surrogate: 1,3-Dichlorobenzene</i>		96.0 %		80-120	1428015	07/09/14	07/09/14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg	1	1428015	07/09/14	07/09/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg	1	1428016	07/09/14	07/09/14	EPA 8015D	

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Enterprise Products 614 Reilly Ave Farmington NM, 87401	Project Name: 10D-1 Project Number: 97057-0352 Project Manager: Kyle Summers-Apex TITAN	Reported: 10-Jul-14 13:22
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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
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Batch 1428015 - Purge and Trap EPA 5030A

Blank (1428015-BLK1)			Prepared & Analyzed: 09-Jul-14							
Benzene	ND	0.05	mg/kg							
Toluene	ND	0.05	"							
Ethylbenzene	ND	0.05	"							
p,m-Xylene	ND	0.05	"							
o-Xylene	ND	0.05	"							
Total Xylenes	ND	0.05	"							
Total BTEX	ND	0.05	"							
<i>Surrogate: 1,3-Dichlorobenzene</i>	46.8		ug/L	50.0		93.7	80-120			
<i>Surrogate: Bromochlorobenzene</i>	45.8		"	50.0		91.6	80-120			

Duplicate (1428015-DUP1)			Source: P407033-01		Prepared & Analyzed: 09-Jul-14					
Benzene	ND	0.05	mg/kg		ND					30
Toluene	ND	0.05	"		ND					30
Ethylbenzene	ND	0.05	"		ND					30
p,m-Xylene	ND	0.05	"		ND					30
o-Xylene	ND	0.05	"		ND					30
<i>Surrogate: 1,3-Dichlorobenzene</i>	47.6		ug/L	50.0		95.2	80-120			
<i>Surrogate: Bromochlorobenzene</i>	48.5		"	50.0		97.1	80-120			

Matrix Spike (1428015-MS1)			Source: P407033-01		Prepared & Analyzed: 09-Jul-14					
Benzene	49.2		ug/L	50.0	ND	98.4	39-150			
Toluene	49.1		"	50.0	ND	98.3	46-148			
Ethylbenzene	49.0		"	50.0	ND	98.0	32-160			
p,m-Xylene	95.0		"	100	ND	95.0	46-148			
o-Xylene	50.4		"	50.0	ND	101	46-148			
<i>Surrogate: 1,3-Dichlorobenzene</i>	50.8		"	50.0		102	80-120			
<i>Surrogate: Bromochlorobenzene</i>	52.1		"	50.0		104	80-120			

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Enterprise Products 614 Reilly Ave Farmington NM, 87401	Project Name: 10D-1 Project Number: 97057-0352 Project Manager: Kyle Summers-Apex TITAN	Reported: 10-Jul-14 13:22
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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
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Batch 1428015 - Purge and Trap EPA 5030A

Blank (1428015-BLK1)	Prepared & Analyzed: 09-Jul-14									
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg							
Duplicate (1428015-DUP1)	Source: P407033-01 Prepared & Analyzed: 09-Jul-14									
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg		ND				30	
Matrix Spike (1428015-MS1)	Source: P407033-01 Prepared & Analyzed: 09-Jul-14									
Gasoline Range Organics (C6-C10)	0.38		mg/L	0.450	ND	84.9	75-125			

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Enterprise Products 614 Reilly Ave Farmington NM, 87401	Project Name: 10D-1 Project Number: 97057-0352 Project Manager: Kyle Summers-Apex TITAN	Reported: 10-Jul-14 13:22
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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
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Batch 1428016 - DRO Extraction EPA 3550C

Blank (1428016-BLK1)	Prepared & Analyzed: 09-Jul-14									
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg							
Duplicate (1428016-DUP1)	Source: P407034-01 Prepared & Analyzed: 09-Jul-14									
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg		ND				30	
Matrix Spike (1428016-MS1)	Source: P407034-01 Prepared & Analyzed: 09-Jul-14									
Diesel Range Organics (C10-C28)	237		mg/L	250	15.7	88.6	75-125			

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Enterprise Products 614 Reilly Ave Farmington NM, 87401	Project Name: 10D-1 Project Number: 97057-0352 Project Manager: Kyle Summers-Apex TITAN	Reported: 10-Jul-14 13:22
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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

17196

Client: Enterprise APEX TITAN	Project Name / Location: 10D-1	ANALYSIS / PARAMETERS													
Email results to: Kyle Summers	Sampler Name: AARON BRYANT HEATHER WOODS	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.: 903-821-5603	Client No.: 97057-0352														

Sample No./ Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative			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		
					HNO ₃	HCl																	
S-1	7-8-14	1445	P407033-01	1 x 4oz				X	X												✓	✓	

Relinquished by: (Signature) <i>[Signature]</i>	Date 7-8-14	Time 4:17	Received by: (Signature) <i>[Signature]</i>	Date 7/8/14	Time 16:17
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.



san juan reproduction 578-129



Analytical Report

Report Summary

Client: Enterprise Products
Chain Of Custody Number: 17205
Samples Received: 7/9/2014 4:13:00PM
Job Number: 97057-0352
Work Order: P407043
Project Name/Location: Lateral 10D-1

Entire Report Reviewed By:

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

Date: 7/14/14

Tim Cain, Laboratory Manager

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Enterprise Products 614 Reilly Ave Farmington NM, 87401	Project Name: Lateral 10D-1 Project Number: 97057-0352 Project Manager: Kyle Summers-Apex TITAN	Reported: 14-Jul-14 11:16
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Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S-2	P407043-01A	Soil	07/08/14	07/09/14	Glass Jar, 4 oz.
S-3	P407043-02A	Soil	07/08/14	07/09/14	Glass Jar, 4 oz.
S-4	P407043-03A	Soil	07/08/14	07/09/14	Glass Jar, 4 oz.
S-5	P407043-04A	Soil	07/08/14	07/09/14	Glass Jar, 4 oz.

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Enterprise Products 614 Reilly Ave Farmington NM, 87401	Project Name: Lateral 10D-1 Project Number: 97057-0352 Project Manager: Kyle Summers-Apex TITAN	Reported: 14-Jul-14 11:16
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S-2

P407043-01 (Solid)

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1428022	07/10/14	07/11/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1428022	07/10/14	07/11/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1428022	07/10/14	07/11/14	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1	1428022	07/10/14	07/11/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1428022	07/10/14	07/11/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1428022	07/10/14	07/11/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1428022	07/10/14	07/11/14	EPA 8021B	
<i>Surrogate: Bromochlorobenzene</i>		102 %		80-120	1428022	07/10/14	07/11/14	EPA 8021B	
<i>Surrogate: 1,3-Dichlorobenzene</i>		99.4 %		80-120	1428022	07/10/14	07/11/14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg	1	1428022	07/10/14	07/11/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg	1	1428023	07/10/14	07/11/14	EPA 8015D	

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Enterprise Products 614 Reilly Ave Farmington NM, 87401	Project Name: Lateral 10D-1 Project Number: 97057-0352 Project Manager: Kyle Summers-Apex TITAN	Reported: 14-Jul-14 11:16
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S-3

P407043-02 (Solid)

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1428022	07/10/14	07/11/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1428022	07/10/14	07/11/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1428022	07/10/14	07/11/14	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1	1428022	07/10/14	07/11/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1428022	07/10/14	07/11/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1428022	07/10/14	07/11/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1428022	07/10/14	07/11/14	EPA 8021B	
<i>Surrogate: Bromochlorobenzene</i>		102 %		80-120	1428022	07/10/14	07/11/14	EPA 8021B	
<i>Surrogate: 1,3-Dichlorobenzene</i>		99.2 %		80-120	1428022	07/10/14	07/11/14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg	1	1428022	07/10/14	07/11/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg	1	1428023	07/10/14	07/11/14	EPA 8015D	

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Enterprise Products 614 Reilly Ave Farmington NM, 87401	Project Name: Lateral 10D-1 Project Number: 97057-0352 Project Manager: Kyle Summers-Apex TITAN	Reported: 14-Jul-14 11:16
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S-4
P407043-03 (Solid)

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1428022	07/10/14	07/11/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1428022	07/10/14	07/11/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1428022	07/10/14	07/11/14	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1	1428022	07/10/14	07/11/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1428022	07/10/14	07/11/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1428022	07/10/14	07/11/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1428022	07/10/14	07/11/14	EPA 8021B	
<i>Surrogate: Bromochlorobenzene</i>		101 %		80-120	1428022	07/10/14	07/11/14	EPA 8021B	
<i>Surrogate: 1,3-Dichlorobenzene</i>		98.1 %		80-120	1428022	07/10/14	07/11/14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	4.98	mg/kg	1	1428022	07/10/14	07/11/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg	1	1428023	07/10/14	07/11/14	EPA 8015D	

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Enterprise Products 614 Reilly Ave Farmington NM, 87401	Project Name: Lateral 10D-1 Project Number: 97057-0352 Project Manager: Kyle Summers-Apex TITAN	Reported: 14-Jul-14 11:16
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S-5

P407043-04 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1428022	07/10/14	07/11/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1428022	07/10/14	07/11/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1428022	07/10/14	07/11/14	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1	1428022	07/10/14	07/11/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1428022	07/10/14	07/11/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1428022	07/10/14	07/11/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1428022	07/10/14	07/11/14	EPA 8021B	
<i>Surrogate: Bromochlorobenzene</i>		102 %		80-120	1428022	07/10/14	07/11/14	EPA 8021B	
<i>Surrogate: 1,3-Dichlorobenzene</i>		99.4 %		80-120	1428022	07/10/14	07/11/14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg	1	1428022	07/10/14	07/11/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg	1	1428023	07/10/14	07/11/14	EPA 8015D	

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Enterprise Products 614 Reilly Ave Farmington NM, 87401	Project Name: Lateral 10D-1 Project Number: 97057-0352 Project Manager: Kyle Summers-Apex TITAN	Reported: 14-Jul-14 11:16
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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
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Batch 1428022 - Purge and Trap EPA 5030A

Blank (1428022-BLK1)			Prepared & Analyzed: 10-Jul-14							
Benzene	ND	0.001	mg/kg							
Toluene	ND	0.001	"							
Ethylbenzene	ND	0.001	"							
p,m-Xylene	ND	0.001	"							
o-Xylene	ND	0.001	"							
Total Xylenes	ND	0.001	"							
Total BTEX	ND	0.001	"							
<i>Surrogate: 1,3-Dichlorobenzene</i>	44.4		ug/L	50.0		88.9	80-120			
<i>Surrogate: Bromochlorobenzene</i>	46.3		"	50.0		92.7	80-120			

Duplicate (1428022-DUP1)			Source: P407040-01		Prepared & Analyzed: 10-Jul-14					
Benzene	ND	0.001	mg/kg		ND					30
Toluene	ND	0.001	"		ND					30
Ethylbenzene	ND	0.001	"		ND					30
p,m-Xylene	ND	0.001	"		ND					30
o-Xylene	ND	0.001	"		ND					30
<i>Surrogate: 1,3-Dichlorobenzene</i>	44.4		ug/L	50.0		88.7	80-120			
<i>Surrogate: Bromochlorobenzene</i>	46.7		"	50.0		93.3	80-120			

Matrix Spike (1428022-MS1)			Source: P407040-01		Prepared & Analyzed: 10-Jul-14					
Benzene	47.1		ug/L	50.0	ND	94.2	39-150			
Toluene	47.0		"	50.0	ND	94.1	46-148			
Ethylbenzene	47.0		"	50.0	ND	94.1	32-160			
p,m-Xylene	93.6		"	100	ND	93.6	46-148			
o-Xylene	46.9		"	50.0	ND	93.7	46-148			
<i>Surrogate: 1,3-Dichlorobenzene</i>	46.4		"	50.0		92.8	80-120			
<i>Surrogate: Bromochlorobenzene</i>	49.1		"	50.0		98.1	80-120			

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

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laboratory@envirotech-inc.com



Enterprise Products 614 Reilly Ave Farmington NM, 87401	Project Name: Lateral 10D-1 Project Number: 97057-0352 Project Manager: Kyle Summers-Apex TITAN	Reported: 14-Jul-14 11:16
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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
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Batch 1428022 - Purge and Trap EPA 5030A

Blank (1428022-BLK1)		Prepared & Analyzed: 10-Jul-14								
Gasoline Range Organics (C6-C10)	ND	0.10	mg/kg							
Duplicate (1428022-DUP1)		Source: P407040-01		Prepared & Analyzed: 10-Jul-14						
Gasoline Range Organics (C6-C10)	ND	0.10	mg/kg		ND				30	
Matrix Spike (1428022-MS1)		Source: P407040-01		Prepared & Analyzed: 10-Jul-14						
Gasoline Range Organics (C6-C10)	0.44		mg/L	0.450	ND	97.8	75-125			

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Enterprise Products 614 Reilly Ave Farmington NM, 87401	Project Name: Lateral 10D-1 Project Number: 97057-0352 Project Manager: Kyle Summers-Apex TITAN	Reported: 14-Jul-14 11:16
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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
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Batch 1428023 - DRO Extraction EPA 3550C

Blank (1428023-BLK1)		Prepared: 10-Jul-14 Analyzed: 11-Jul-14								
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg							
Duplicate (1428023-DUP1)		Source: P407040-01 Prepared & Analyzed: 10-Jul-14								
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg		ND				30	
Matrix Spike (1428023-MS1)		Source: P407040-01 Prepared & Analyzed: 10-Jul-14								
Diesel Range Organics (C10-C28)	219		mg/L	250	7.96	84.5	75-125			

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Enterprise Products 614 Reilly Ave Farmington NM, 87401	Project Name: Lateral 10D-1 Project Number: 97057-0352 Project Manager: Kyle Summers-Apex TITAN	Reported: 14-Jul-14 11:16
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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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CHAIN OF CUSTODY RECORD

17205

Client: <i>Enterprise Field Services LLC</i>	Project Name / Location: <i>Lateral 100-1</i>	ANALYSIS / PARAMETERS	
Email results to: <i>ksummers@apexcos.com</i> <i>hwoods@apexcos.com</i>	Sampler Name: <i>A. Bryant / H. Woods</i>	TPH (Method 8015) <i>GLD/D20</i>	BTEX (Method 8021)
Client Phone No.: <i>(903) 821-5603</i>	Client No.: <i>97057-0352</i>		

Sample No./ Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative			TPH (Method 8015) <i>GLD/D20</i>	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
					HNO ₃	HCl	Cold														
S-2	7/8/14	1505	P407043-01	1-4oz Glass			X	X	X											Y	Y
S-3	7/8/14	1516	P407043-02	1-4oz Glass			X	X	X											↓	↓
S-4	7/8/14	1515	P407043-03	1-4oz Glass			X	X	X											↓	↓
S-5	7/8/14	1520	P407043-04	1-4oz Glass			X	X	X											↓	↓

Relinquished by: (Signature) <i>Heather M. Woods</i>	Date <i>7/9/14</i>	Time <i>1613</i>	Received by: (Signature) <i>[Signature]</i>	Date <i>7/9/14</i>	Time <i>1613</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.

RUSH PER Heather 7/10/14 TC

Paykey RB21200

11.3, 11.6, 12.3



Analytical Report

Report Summary

Client: Enterprise Products
Chain Of Custody Number: 17197
Samples Received: 7/8/2014 4:17:00PM
Job Number: 97057-0352
Work Order: P407034
Project Name/Location: 10D-1

Entire Report Reviewed By:

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

Date: 7/10/14

Tim Cain, Laboratory Manager

Supplement to analytical report generated on: 7/10/14 10:28 am

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: 10D-1 Project Number: 97057-0352 Project Manager: Kyle Summers-Apex TITAN	Reported: 10-Jul-14 13:23
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Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP-1	P407034-01A	Soil	07/08/14	07/08/14	Glass Jar, 4 oz.
SP-2	P407034-02A	Soil	07/08/14	07/08/14	Glass Jar, 4 oz.
SP-3	P407034-03A	Soil	07/08/14	07/08/14	Glass Jar, 4 oz.

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Enterprise Products 614 Reilly Ave Farmington NM, 87401	Project Name: 10D-1 Project Number: 97057-0352 Project Manager: Kyle Summers-Apex TITAN	Reported: 10-Jul-14 13:23
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SP-1
P407034-01 (Solid)

Analyte	Result	Reporting			Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units							
Volatile Organics by EPA 8021										
Benzene	ND	0.05	mg/kg	1	1428015	07/09/14	07/09/14	EPA 8021B		
Toluene	ND	0.05	mg/kg	1	1428015	07/09/14	07/09/14	EPA 8021B		
Ethylbenzene	ND	0.05	mg/kg	1	1428015	07/09/14	07/09/14	EPA 8021B		
p,m-Xylene	ND	0.05	mg/kg	1	1428015	07/09/14	07/09/14	EPA 8021B		
o-Xylene	ND	0.05	mg/kg	1	1428015	07/09/14	07/09/14	EPA 8021B		
Total Xylenes	ND	0.05	mg/kg	1	1428015	07/09/14	07/09/14	EPA 8021B		
Total BTEX	ND	0.05	mg/kg	1	1428015	07/09/14	07/09/14	EPA 8021B		
<i>Surrogate: Bromochlorobenzene</i>		99.2 %		80-120	1428015	07/09/14	07/09/14	EPA 8021B		
<i>Surrogate: 1,3-Dichlorobenzene</i>		97.9 %		80-120	1428015	07/09/14	07/09/14	EPA 8021B		
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg	1	1428015	07/09/14	07/09/14	EPA 8015D		
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg	1	1428016	07/09/14	07/09/14	EPA 8015D		

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Enterprise Products	Project Name:	10D-1	
614 Reilly Ave	Project Number:	97057-0352	Reported:
Farmington NM, 87401	Project Manager:	Kyle Summers-Apex TITAN	10-Jul-14 13:23

SP-2
P407034-02 (Solid)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1428015	07/09/14	07/09/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1428015	07/09/14	07/09/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1428015	07/09/14	07/09/14	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1	1428015	07/09/14	07/09/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1428015	07/09/14	07/09/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1428015	07/09/14	07/09/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1428015	07/09/14	07/09/14	EPA 8021B	
<i>Surrogate: Bromochlorobenzene</i>		98.0 %		80-120	1428015	07/09/14	07/09/14	EPA 8021B	
<i>Surrogate: 1,3-Dichlorobenzene</i>		95.5 %		80-120	1428015	07/09/14	07/09/14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg	1	1428015	07/09/14	07/09/14	EPA 8015D	
Diesel Range Organics (C10-C28)	33.7	30.0	mg/kg	1	1428016	07/09/14	07/09/14	EPA 8015D	

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Enterprise Products 614 Reilly Ave Farmington NM, 87401	Project Name: 10D-1 Project Number: 97057-0352 Project Manager: Kyle Summers-Apex TITAN	Reported: 10-Jul-14 13:23
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SP-3
P407034-03 (Solid)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes	
		Limit	Units							
Volatile Organics by EPA 8021										
Benzene	ND	0.05	mg/kg	1	1428015	07/09/14	07/09/14	EPA 8021B		
Toluene	ND	0.05	mg/kg	1	1428015	07/09/14	07/09/14	EPA 8021B		
Ethylbenzene	ND	0.05	mg/kg	1	1428015	07/09/14	07/09/14	EPA 8021B		
p,m-Xylene	ND	0.05	mg/kg	1	1428015	07/09/14	07/09/14	EPA 8021B		
o-Xylene	ND	0.05	mg/kg	1	1428015	07/09/14	07/09/14	EPA 8021B		
Total Xylenes	ND	0.05	mg/kg	1	1428015	07/09/14	07/09/14	EPA 8021B		
Total BTEX	ND	0.05	mg/kg	1	1428015	07/09/14	07/09/14	EPA 8021B		
<i>Surrogate: 1,3-Dichlorobenzene</i>		98.0 %		80-120	1428015	07/09/14	07/09/14	EPA 8021B		
<i>Surrogate: Bromochlorobenzene</i>		102 %		80-120	1428015	07/09/14	07/09/14	EPA 8021B		
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg	1	1428015	07/09/14	07/09/14	EPA 8015D		
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg	1	1428016	07/09/14	07/09/14	EPA 8015D		

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Enterprise Products 614 Reilly Ave Farmington NM, 87401	Project Name: 10D-1 Project Number: 97057-0352 Project Manager: Kyle Summers-Apex TITAN	Reported: 10-Jul-14 13:23
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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
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Batch 1428015 - Purge and Trap EPA 5030A

Blank (1428015-BLK1)			Prepared & Analyzed: 09-Jul-14							
Benzene	ND	0.05	mg/kg							
Toluene	ND	0.05	"							
Ethylbenzene	ND	0.05	"							
p,m-Xylene	ND	0.05	"							
o-Xylene	ND	0.05	"							
Total Xylenes	ND	0.05	"							
Total BTEX	ND	0.05	"							
Surrogate: 1,3-Dichlorobenzene	46.8		ug/L	50.0		93.7	80-120			
Surrogate: Bromochlorobenzene	45.8		"	50.0		91.6	80-120			

Duplicate (1428015-DUP1)			Source: P407033-01		Prepared & Analyzed: 09-Jul-14					
Benzene	ND	0.05	mg/kg		ND					30
Toluene	ND	0.05	"		ND					30
Ethylbenzene	ND	0.05	"		ND					30
p,m-Xylene	ND	0.05	"		ND					30
o-Xylene	ND	0.05	"		ND					30
Surrogate: 1,3-Dichlorobenzene	47.6		ug/L	50.0		95.2	80-120			
Surrogate: Bromochlorobenzene	48.5		"	50.0		97.1	80-120			

Matrix Spike (1428015-MS1)			Source: P407033-01		Prepared & Analyzed: 09-Jul-14					
Benzene	49.2		ug/L	50.0	ND	98.4	39-150			
Toluene	49.1		"	50.0	ND	98.3	46-148			
Ethylbenzene	49.0		"	50.0	ND	98.0	32-160			
p,m-Xylene	95.0		"	100	ND	95.0	46-148			
o-Xylene	50.4		"	50.0	ND	101	46-148			
Surrogate: 1,3-Dichlorobenzene	50.8		"	50.0		102	80-120			
Surrogate: Bromochlorobenzene	52.1		"	50.0		104	80-120			

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Enterprise Products 614 Reilly Ave Farmington NM, 87401	Project Name: 10D-1 Project Number: 97057-0352 Project Manager: Kyle Summers-Apex TITAN	Reported: 10-Jul-14 13:23
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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 1428015 - Purge and Trap EPA 5030A										
Blank (1428015-BLK1) Prepared & Analyzed: 09-Jul-14										
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg							
Duplicate (1428015-DUP1) Source: P407033-01 Prepared & Analyzed: 09-Jul-14										
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg		ND				30	
Matrix Spike (1428015-MS1) Source: P407033-01 Prepared & Analyzed: 09-Jul-14										
Gasoline Range Organics (C6-C10)	0.38		mg/L	0.450	ND	84.9	75-125			

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Enterprise Products 614 Reilly Ave Farmington NM, 87401	Project Name: 10D-1 Project Number: 97057-0352 Project Manager: Kyle Summers-Apex TITAN	Reported: 10-Jul-14 13:23
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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
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Batch 1428016 - DRO Extraction EPA 3550C

Blank (1428016-BLK1)		Prepared & Analyzed: 09-Jul-14								
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg							
Duplicate (1428016-DUP1)		Source: P407034-01 Prepared & Analyzed: 09-Jul-14								
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg		ND				30	
Matrix Spike (1428016-MS1)		Source: P407034-01 Prepared & Analyzed: 09-Jul-14								
Diesel Range Organics (C10-C28)	237		mg/L	250	15.7	88.6	75-125			

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Enterprise Products	Project Name:	10D-1	
614 Reilly Ave	Project Number:	97057-0352	Reported:
Farmington NM, 87401	Project Manager:	Kyle Summers-Apex TITAN	10-Jul-14 13:23

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

17197

Client: Southwest Enterprises APEX TITAN		Project Name / Location: 10D-1			ANALYSIS / PARAMETERS															
Email results to: KYLE SUMMERS		Sampler Name: AARON BRYANT HEATHER WUDJ			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.: 903-821-5603		Client No.: 97657-0352																		
Sample No. / Identification	Sample Date	Sample Time	Lab No.	No. / Volume of Containers	Preservative															
					HNO ₃	HCl														
SP-1	7-8-14	1458	P407034-01	1 x 40z				X	X										✓	✓
SP-2	1	1455	P407034-02	1																
SP-3	1	1500	P407034-03	1																
Relinquished by: (Signature)				Date	Time	Received by: (Signature)				Date	Time									
				7-8-14	4:17					7/8/14	16:17									
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.

18.1 18.4
15.8



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Analytical Laboratory

RB 21200