

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

State of New Mexico
Energy Minerals and Natural Resources

Form C-141
Revised August 8, 2011

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

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

Release Notification and Corrective Action

OPERATOR

Initial Report

Final Report

Name of Company Enterprise Field Services, LLC	Contact Thomas Long	
Address 614 Reilly Avenue, Farmington NM 87401	Telephone No. (505)599-2286	
Facility Name Otero #5 Well Location	Facility Type Natural Gas Meter Run Location	
Surface Owner Jicarilla Tribal	Mineral Owner Jicarilla Tribal	API No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
F	28	24N	5W					Rio Arriba

Latitude N 36.2885 Longitude W107.3691 (Decimal Degrees)

NATURE OF RELEASE

Type of Release Natural gas condensate and water release	Volume of Release Unknown—estimated 3-4 barrels	Volume Recovered: Approximately 95 yards contaminated soil
Source of Release Meter Tube Location	Date and Hour of Occurrence Unknown—appears to be aged	Date and Hour of Discovery 8/12/2013 @ 11:42 hours by Enterprise measurement technician.
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes* <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Bryce Hammond and Hobson Sandoval *Immediate notification for any quantity of unauthorized release required by Jicarilla Oil and Gas Administration	
By Whom? Aaron Dailey	Date and Hour 8/13/2013 @ 07:30 hours	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. RCVD DEC 19 '13 OIL CONS. DIV.	

If a Watercourse was Impacted, Describe Fully.*

DIST. 3

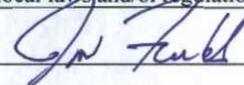
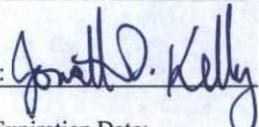
Describe Cause of Problem and Remedial Action Taken.*

Two technicians found a minor release of crude oil, which appeared to be aged, on the Otero 5 well location meter run. There were no footprints or tire tracks upon discovery. Line was isolated, notifications to Jicarilla tribal contacts were made, and cleanup was scheduled.

Describe Area Affected and Cleanup Action Taken.*

Third party environmental contractor initiated cleanup on 8/16/2013 after one call became effective. Approximately 95 yards of contaminated soil was removed and hauled to an OCD permitted facility. As per Jicarilla Environmental Protection Office, Potassium permanganate was sprayed on the contaminated soil directly beneath the meter run to remediate subsurface contaminants and the excavation was backfilled. Third party corrective action report is attached to this "final" c-141 report.

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

Signature: 	OIL CONSERVATION DIVISION	
Printed Name: Jon Fields	Approved by Environmental Specialist: 	
Title: Sr. Director, Environmental	Approval Date: 11/6/2015	Expiration Date:
E-mail Address: jefields@eprod.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 10/9/2013	Phone: (713)381-6684	

* Attach Additional Sheets If Necessary

nJK1531026250

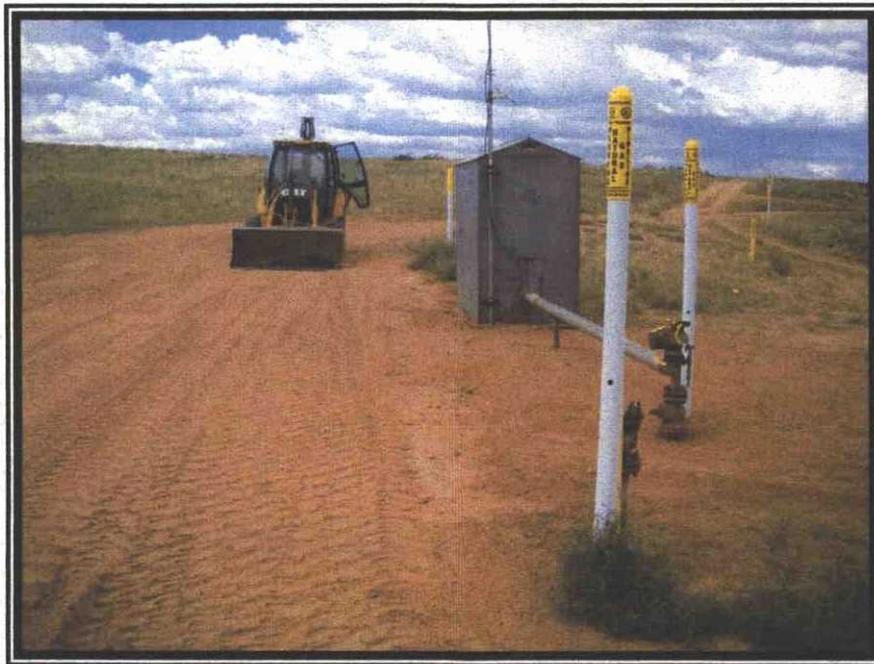


SPILL CLEANUP REPORT

RCVD DEC 19 '13
OIL CONS. DIV.
DIST. 3

LOCATED AT:
JICARILLA OTERO #5
SECTION 28, TOWNSHIP 24 NORTH, RANGE 5 WEST
RIO ARRIBA COUNTY, NEW MEXICO

PREPARED FOR:
ENTERPRISE PRODUCTS
MS. RUNELL SEALE
614 REILLY AVENUE
FARMINGTON, NEW MEXICO 87401



PROJECT NUMBER 97057-0580
AUGUST 2013



November 18, 2013

Project Number 97057-0580

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

Phone: (505) 599-2124

RE: SPILL CLEANUP REPORT JICARILLA OTERO #5 WELL SITE, RIO ARRIBA COUNTY, NEW MEXICO

Dear Ms. Seale:

Enclosed please find the *Spill Cleanup Report* detailing spill cleanup activities conducted on the Jicarilla Otero #5 well site located in Section 28, Township 24 North, Range 5 West, Rio Arriba County, New Mexico.

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

Respectfully submitted,
ENVIROTECH, INC.

A handwritten signature in blue ink, appearing to read "Isaac Garcia", written over a horizontal line.

Isaac Garcia
Environmental Field Technician
igarcia@envirotech-inc.com

Enclosures: *Spill Cleanup Report*

Cc: Client File Number 97057

ENTERPRISE PRODUCTS
SPILL CLEANUP REPORT
JICARILLA OTERO #5
SECTION 28, TOWNSHIP 24 NORTH, RANGE 5 WEST
RIO ARRIBA COUNTY, NEW MEXICO

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INTRODUCTION

Envirotech, Inc. of Farmington, New Mexico, was contracted by Enterprise Products to provide spill cleanup and confirmation sampling activities for a historic release near the meter run on the Jicarilla Otero #5 well site located in Section 28, Township 24 North, Range 5 West, Rio Arriba County, New Mexico; see enclosed *Figure 1, Vicinity Map*. Activities included excavation, sample collection and analysis, contaminated soil disposal, documentation and reporting.

ACTIVITIES PERFORMED

Envirotech, Inc. was contacted with a request to respond to a release that occurred near the meter run at the above referenced location. On August 16, 2013, Envirotech personnel arrived on site to perform spill cleanup activities. Due to the site being located on the Jicarilla Apache Indian Reservation, the cleanup standards were determined to be 100 ppm Total Petroleum Hydrocarbons (TPH) and 100 ppm organic vapors.

On August 16, 2013, one (1) five (5)-point composite sample was collected from the surface of the hydrocarbon impacted area near the meter run. The sample was analyzed in the field for TPH using USEPA Method 418.1. The sample returned a result above the regulatory standard for TPH; see enclosed *Table 1, Summary of Analytical Results* and *Appendix A, Analytical Results*.

The hydrocarbon impacted area was then excavated to the approximate dimensions of 20 feet by 16 feet by seven (7) feet below ground surface (BGS); see enclosed *Appendix B, Site Photography*. Two (2) additional five (5)-point composite samples were then collected. One (1) sample was collected from the north wall and one (1) sample was collected from the west wall; see enclosed *Figure 2, Site Map* for sample locations. The samples were analyzed in the field for TPH using USEPA Method 418.1 and for organic vapor using a photoionization detector (PID). Both samples returned results above the regulatory standard for TPH, but below the regulatory standard for organic vapor; see enclosed *Table 1, Summary of Analytical Results* and *Appendix A, Analytical Results*. Additionally, the two (2) samples were placed into four (4)-ounce glass jars, capped head space free, and transported on ice, under chain of custody, to Envirotech's Analytical Laboratory to be analyzed for TPH using USEPA Method 8015 and for Benzene and total BTEX using USEPA Method 8021. Both samples returned results below the regulatory standard for all constituents analyzed; see enclosed *Table 1, Summary of Analytical Results* and *Appendix A, Analytical Results*.

Envirotech personnel returned to the site on August 19, 2013, to finish spill cleanup activities. The excavation was extended to 20 feet by 20 feet with a varying depth between four (4) feet to seven (7) feet; see enclosed *Figure 2, Site Map*. Three (3) five (5)-point composite samples were collected from the final excavation. One (1) sample was collected from the south wall, one (1) sample was collected from the east wall and one (1) sample was collected from the bottom of the excavation. The bottom composite sample was collected from seven (7) feet BGS. All three (3) samples were analyzed in the field for TPH using USEPA Method 418.1 and for organic

vapors using a PID. The south wall composite sample returned a result below the regulatory standard for TPH and organic vapor. The east wall and bottom composite samples returned results above the regulatory standard for TPH, but below the regulatory standard for organic vapors; see enclosed *Table 1, Summary of Analytical Results* and *Appendix A, Analytical Results*. Additionally, the east wall and bottom composite samples were placed into four (4)-ounce glass jars, capped head space free, and transported on ice, under chain of custody, to Envirotech's Analytical Laboratory to be analyzed for TPH using USEPA Method 8015. Both samples returned results below the regulatory standard for all constituents analyzed; see enclosed *Table 1, Summary of Analytical Results* and *Appendix A, Analytical Results*.

Mr. Hobson Sandoval, representative of the Jicarilla Apache Nation Oil and Gas Administration, requested that Envirotech treat the excavation with potassium permanganate, an oxidizer which degrades hydrocarbons.

On August 19, 2013, Envirotech Inc. personnel proceeded to apply the potassium permanganate solution. Upon completion of the application of the potassium permanganate to the excavation, the area was backfilled using soil collected from near the Enterprise plant, as directed by Mr. Hobson Sandoval. The site near the meter run at the above referenced well site was re-contoured and returned to pre-incident surface conditions; see enclosed *Appendix B, Site Photography*.

Approximately 95 cubic yards of contaminated soil were transported to Envirotech's New Mexico Oil Conservation Division (NMOCD) permitted soil remediation facility, Landfarm 2, located near Hilltop, New Mexico; see enclosed *Appendix C, Bills of Lading*.

SUMMARY AND CONCLUSIONS

Spill cleanup activities were performed for a historic release near the meter run at the Jicarilla Otero #5 well site located in Section 28, Township 24 North, Range 5 West, Rio Arriba County, New Mexico. Approximately 95 cubic yards of contaminated soil were transported to Envirotech's NMOCD permitted soil remediation facility, Landfarm 2. The excavation was treated with potassium permanganate, backfilled, and re-contoured per the request of Mr. Hobson Sandoval, Jicarilla Apache Oil and Gas Administration representative. Envirotech, Inc. recommends no further action in regards to this incident.

STATEMENT OF LIMITATIONS

Envirotech, Inc. has completed spill cleanup activities for a historic release near the meter run at the Jicarilla Otero #5 well site located in Section 28, Township 24 North, Range 5 West, Rio Arriba County, New Mexico. The work and services provided by Envirotech, Inc. were in accordance with the Jicarilla Apache Tribe standards. All observations and conclusions provided here are based on the information and current site conditions found at the site of the incident.

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

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

Respectfully Submitted,
ENVIROTECH, INC.

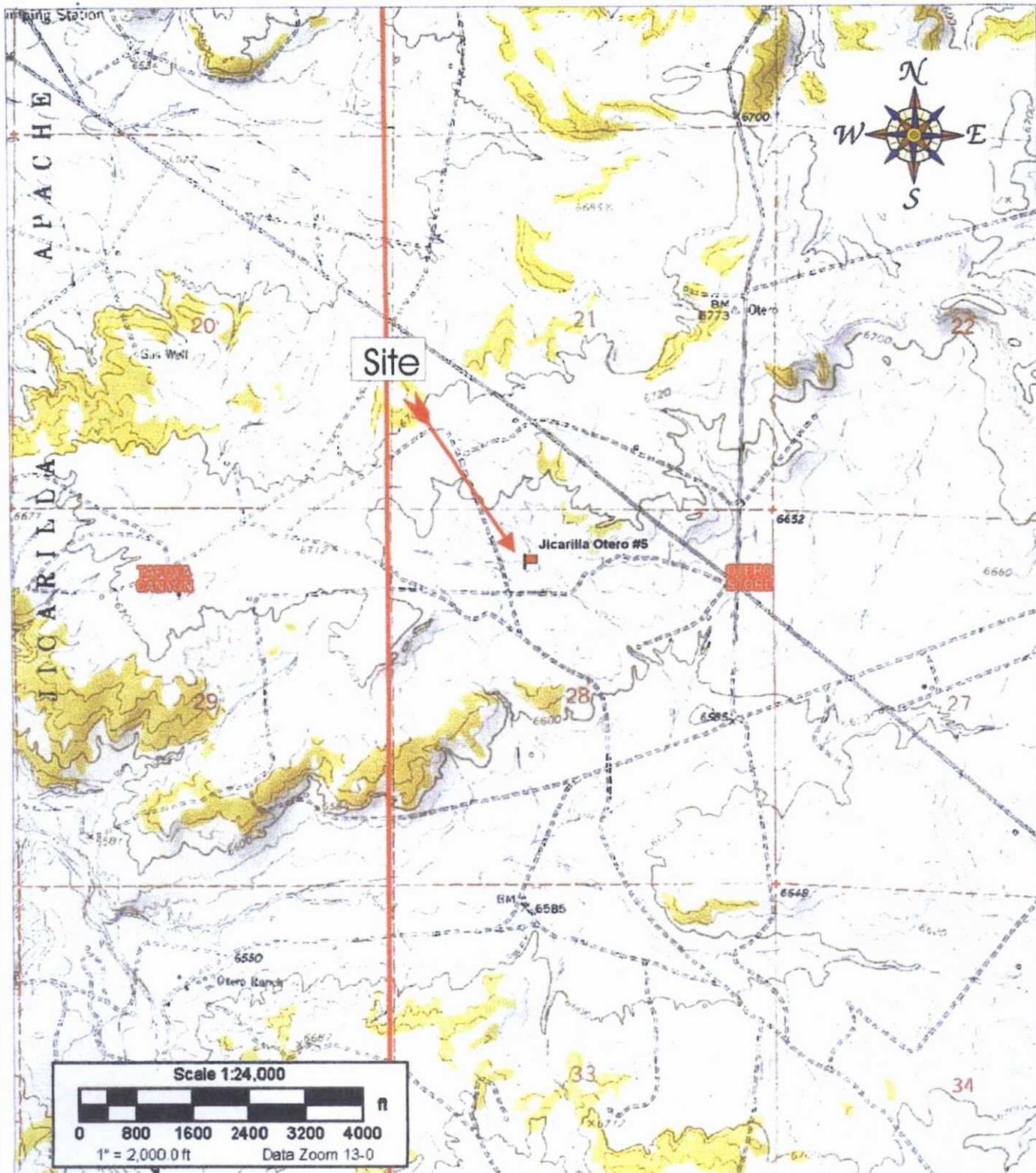
Reviewed by:



Isaac Garcia
Environmental Field Technician
igarcia@envirotech-inc.com



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



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

Enterprise Products
 Jicarilla Otero #5
 Section 28, Township 24N, Range 5W
 Rio Arriba County, New Mexico

PROJECT Number: 97057-0580 Date Drawn: 10/4/13



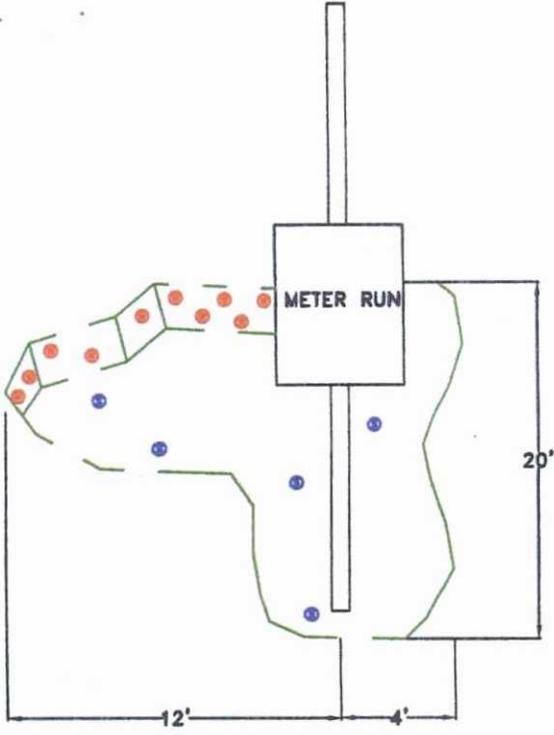
5796 U.S. HIGHWAY 64
 Farmington, New Mexico 87401
 505.632.0615

Vicinity Map

Figure #1

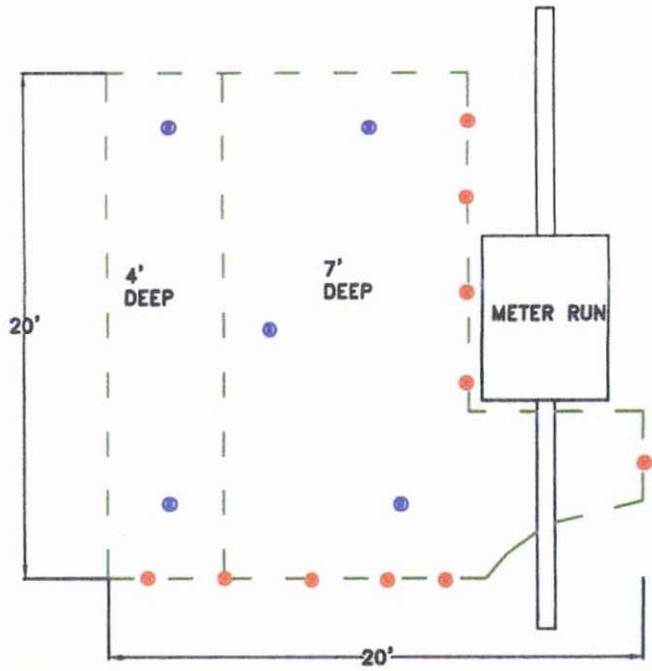
DRAWN BY:
 Tiffany McIntosh

PROJECT MANAGER:
 Greg Crabtree



NOTE:
EXCAVATION COMPLETED AND SAMPLES
COLLECTED ON AUGUST 16, 2013

NOTE:
EXCAVATION COMPLETED AND SAMPLES
COLLECTED ON AUGUST 19, 2013



- KEY:**
- Ⓢ SURFACE SAMPLE LOCATION
 - Ⓜ WALL SAMPLE LOCATION
 - Ⓟ BOTTOM SAMPLE LOCATION
 - EXCAVATION DELINEATION

Site Map

Enterprise Product
Jicarilla Otero #5
Rio Arriba County, New Mexico

SCALE: NTS	FIGURE NO. 2	REV	
PROJECT NO97057-0580			
REVISIONS			
NO.	DATE	BY	DESCRIPTION
MAP DRWN	JA	DATE	8/30/2013



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

TABLES

Table 1, Summary of Analytical Results

Table 1, Summary of Analytical Results

Enterprise Product
 Jicarilla Otero #5
 Spill Cleanup Report
 Project Number 97057-0580

Date	Sample Description	Sample Number	PID (ppm)	OV	USEPA Method 418.1 TPH (ppm)	USEPA Method 8015 TPH (ppm)	USEPA Method 8021	
							Benzene (ppm)	BTEX (ppm)
NA	New Mexico Oil Conservation Division Standards/ Jicarilla Apache	NA	100		100	100	10	50
8/16/2013	Surface Composite	1	NS		27400	NS	NS	NS
8/16/2013	North Wall Composite (NW)	2	4.6		192	ND	ND	ND
8/16/2013	West Wall Composite (WW)	3	2.6		192	12.6	ND	ND
8/19/2013	South Wall Composite	1	31		100	NS	NS	NS
8/19/2013	East Wall Composite (EW)	2	67		172	7.45	NS	NS
8/19/2013	Bottom Composite (BC)	3	86		320	20.2	NS	NS

*Values in **BOLD** above regulatory limits

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

APPENDIX A

Analytical Results

Client:	Enterprise Products	Project #:	97057-0580
Sample No.:	1	Date Reported:	10/4/2013
Sample ID:	Surface Composite	Date Sampled:	8/16/2013
Sample Matrix:	Soil	Date Analyzed:	8/16/2013
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	27,400	5.0

ND = Parameter not detected at the stated detection limit.

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

Comments: **Jicarilla Otero #5**

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



Analyst

Isaac Garcia

Printed



Review

Toni McKnight, EIT

Printed

Client:	Enterprise Products	Project #:	97057-0580
Sample No.:	2	Date Reported:	10/4/2013
Sample ID:	North Wall Composite	Date Sampled:	8/16/2013
Sample Matrix:	Soil	Date Analyzed:	8/16/2013
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	192	5.0

ND = Parameter not detected at the stated detection limit.

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

Comments: **Jicarilla Otero #5**

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



Analyst

Isaac Garcia

Printed



Review

Toni McKnight, EIT

Printed

Client:	Enterprise Products	Project #:	97057-0580
Sample No.:	3	Date Reported:	10/4/2013
Sample ID:	West Wall Composite	Date Sampled:	8/16/2013
Sample Matrix:	Soil	Date Analyzed:	8/16/2013
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	192	5.0

ND = Parameter not detected at the stated detection limit.

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

Comments: **Jicarilla Otero #5**

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



Analyst

Isaac Garcia

Printed



Review

Toni McKnight, EIT

Printed

Cal. Date: 16-Aug-13

Parameter	Standard Concentration mg/L	Concentration Reading mg/L
TPH	100	
	200	204
	500	
	1000	
	5000	

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



Analyst

10/4/2013

Date

Isaac Garcia

Print Name



Review

10/4/2013

Date

Toni McKnight, EIT

Print Name

Analytical Report

Report Summary

Client: Enterprise Products
Chain Of Custody Number: 15978
Samples Received: 8/16/2013 4:42:00PM
Job Number: 97057-0580
Work Order: P308050
Project Name/Location: Jicarilla Otero #5

Entire Report Reviewed By:



Date: 8/20/13

Tim Cain, Laboratory Manager

Supplement to analytical report generated on: 8/20/13 8:40 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: Jicarilla Otero #5
Project Number: 97057-0580
Project Manager: Isaac Garcia

Reported:
20-Aug-13 09:24

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
NW	P308050-01A	Soil	08/16/13	08/16/13	Glass Jar, 4 oz.
WW	P308050-02A	Soil	08/16/13	08/16/13	Glass Jar, 4 oz.

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Enterprise Products
614 Reilly Ave
Farmington NM, 87401

Project Name: Jicarilla Otero #5
Project Number: 97057-0580
Project Manager: Isaac Garcia

Reported:
20-Aug-13 09:24

NW
P308050-01 (Solid)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes	
		Limit	Units							
Volatile Organics by EPA 8021										
Benzene	ND	0.05	mg/kg	1	1334002	19-Aug-13	19-Aug-13	EPA 8021B		
Toluene	ND	0.05	mg/kg	1	1334002	19-Aug-13	19-Aug-13	EPA 8021B		
Ethylbenzene	ND	0.05	mg/kg	1	1334002	19-Aug-13	19-Aug-13	EPA 8021B		
p,m-Xylene	ND	0.05	mg/kg	1	1334002	19-Aug-13	19-Aug-13	EPA 8021B		
o-Xylene	ND	0.05	mg/kg	1	1334002	19-Aug-13	19-Aug-13	EPA 8021B		
Total Xylenes	ND	0.05	mg/kg	1	1334002	19-Aug-13	19-Aug-13	EPA 8021B		
Total BTEX	ND	0.05	mg/kg	1	1334002	19-Aug-13	19-Aug-13	EPA 8021B		
<i>Surrogate: Bromochlorobenzene</i>		118 %	80-120		1334002	19-Aug-13	19-Aug-13	EPA 8021B		
<i>Surrogate: 1,4-Difluorobenzene</i>		113 %	80-120		1334002	19-Aug-13	19-Aug-13	EPA 8021B		
<i>Surrogate: Fluorobenzene</i>		114 %	80-120		1334002	19-Aug-13	19-Aug-13	EPA 8021B		
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg	1	1334001	19-Aug-13	19-Aug-13	EPA 8015D		
Diesel Range Organics (C10-C28)	ND	5.00	mg/kg	1	1334001	19-Aug-13	19-Aug-13	EPA 8015D		
GRO and DRO Combined Fractions	ND	5.00	mg/kg	1	1334001	19-Aug-13	19-Aug-13	EPA 8015D		

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Enterprise Products
614 Reilly Ave
Farmington NM, 87401

Project Name: Jicarilla Otero #5
Project Number: 97057-0580
Project Manager: Isaac Garcia

Reported:
20-Aug-13 09:24

WW
P308050-02 (Solid)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1334002	19-Aug-13	19-Aug-13	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1334002	19-Aug-13	19-Aug-13	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1334002	19-Aug-13	19-Aug-13	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1	1334002	19-Aug-13	19-Aug-13	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1334002	19-Aug-13	19-Aug-13	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1334002	19-Aug-13	19-Aug-13	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1334002	19-Aug-13	19-Aug-13	EPA 8021B	
<i>Surrogate: Bromochlorobenzene</i>		119 %	80-120		1334002	19-Aug-13	19-Aug-13	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		110 %	80-120		1334002	19-Aug-13	19-Aug-13	EPA 8021B	
<i>Surrogate: Fluorobenzene</i>		110 %	80-120		1334002	19-Aug-13	19-Aug-13	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg	1	1334001	19-Aug-13	19-Aug-13	EPA 8015D	
Diesel Range Organics (C10-C28)	12.6	4.99	mg/kg	1	1334001	19-Aug-13	19-Aug-13	EPA 8015D	
GRO and DRO Combined Fractions	12.6	4.99	mg/kg	1	1334001	19-Aug-13	19-Aug-13	EPA 8015D	

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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: Jicarilla Otero #5
Project Number: 97057-0580
Project Manager: Isaac Garcia

Reported:
20-Aug-13 09:24

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

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

Batch 1334002 - Purge and Trap EPA 5030A

Blank (1334002-BLK1)

Prepared & Analyzed: 19-Aug-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: Bromochlorobenzene	58.0		ug/L	50.0		116	80-120			
Surrogate: 1,4-Difluorobenzene	53.4		"	50.0		107	80-120			
Surrogate: Fluorobenzene	53.5		"	50.0		107	80-120			

Duplicate (1334002-DUP1)

Source: P308049-01

Prepared & Analyzed: 19-Aug-13

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	"		0.16				30	
o-Xylene	ND	0.05	"		0.05				30	
Surrogate: Bromochlorobenzene	58.0		ug/L	50.0		116	80-120			
Surrogate: 1,4-Difluorobenzene	54.8		"	50.0		110	80-120			
Surrogate: Fluorobenzene	54.8		"	50.0		110	80-120			

Matrix Spike (1334002-MS1)

Source: P308049-01

Prepared & Analyzed: 19-Aug-13

Benzene	56.0		ug/L	50.0	0.57	111	39-150			
Toluene	55.9		"	50.0	0.66	111	46-148			
Ethylbenzene	56.0		"	50.0	0.28	111	32-160			
p,m-Xylene	108		"	100	3.27	104	46-148			
o-Xylene	55.8		"	50.0	1.10	109	46-148			
Surrogate: Bromochlorobenzene	56.0		"	50.0		112	80-120			
Surrogate: 1,4-Difluorobenzene	53.9		"	50.0		108	80-120			
Surrogate: Fluorobenzene	54.3		"	50.0		109	80-120			

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5796 US Highway 64, Farmington, NM 87401

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

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



Enterprise Products
614 Reilly Ave
Farmington NM, 87401

Project Name: Jicarilla Otero #5
Project Number: 97057-0580
Project Manager: Isaac Garcia

Reported:
20-Aug-13 09:24

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 1334001 - GRO/DRO Extraction EPA 3550C

Blank (1334001-BLK1)

Prepared & Analyzed: 19-Aug-13

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

Duplicate (1334001-DUP1)

Source: P308049-01

Prepared & Analyzed: 19-Aug-13

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

Matrix Spike (1334001-MS1)

Source: P308049-01

Prepared & Analyzed: 19-Aug-13

Gasoline Range Organics (C6-C10)	259	5.26	mg/kg	263	ND	98.6	75-125			
Diesel Range Organics (C10-C28)	266	5.26	"	263	ND	101	75-125			

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Analytical Laboratory

Enterprise Products
614 Reilly Ave
Farmington NM, 87401

Project Name: Jicarilla Otero #5
Project Number: 97057-0580
Project Manager: Isaac Garcia

Reported:
20-Aug-13 09:24

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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envirotech-inc.com

Laboratory@envirotech-inc.com

Rush

CHAIN OF CUSTODY RECORD

15978

Client: <i>Enterprise</i>		Project Name / Location: <i>Jicarilla Otero #5</i>		ANALYSIS / PARAMETERS													
Email results to: <i>Felipe / Isaac</i>		Sampler Name: <i>Isaac</i>		TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE			Sample Cool	Sample Intact
Client Phone No.:		Client No.: <i>97057-0580</i>															

Sample No./ Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative			TPH	BTEX	VOC	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	Cool															
<i>NW</i>	<i>8/16</i>	<i>2:05</i>	<i>P308050-01</i>	<i>1-4oz</i>			<i>X</i>	<i>X</i>	<i>X</i>												<i>Y</i>	<i>Y</i>
<i>WW</i>	<i>8/16</i>	<i>2:10</i>	<i>P308050-02</i>	<i>1-4oz</i>			<i>X</i>	<i>X</i>	<i>X</i>												<i>Y</i>	<i>Y</i>

Relinquished by: (Signature) <i>[Signature]</i>	Date <i>8/16</i>	Time <i>4:40</i>	Received by: (Signature) <i>[Signature]</i>	Date <i>8/16</i>	Time <i>4:42</i>
--	---------------------	---------------------	--	---------------------	---------------------

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
------------------------------	------	------	--------------------------	------	------

Sample Matrix
 Soil Solid Sludge Aqueous Other

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



Client:	Enterprise Products	Project #:	97057-0580
Sample No.:	1	Date Reported:	10/4/2013
Sample ID:	South Wall Composite	Date Sampled:	8/19/2013
Sample Matrix:	Soil	Date Analyzed:	8/19/2013
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	100	5.0

ND = Parameter not detected at the stated detection limit.

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

Comments: **Jicarilla Otero #5**

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



Analyst

Isaac Garcia

Printed



Review

Toni McKnight, EIT

Printed

Client:	Enterprise Products	Project #:	97057-0580
Sample No.:	2	Date Reported:	10/4/2013
Sample ID:	East Wall Composite	Date Sampled:	8/19/2013
Sample Matrix:	Soil	Date Analyzed:	8/19/2013
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	172	5.0

ND = Parameter not detected at the stated detection limit.

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

Comments: **Jicarilla Otero #5**

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



Analyst

Isaac Garcia

Printed



Review

Toni McKnight, EIT

Printed

Client:	Enterprise Products	Project #:	97057-0580
Sample No.:	3	Date Reported:	10/4/2013
Sample ID:	Bottom Composite	Date Sampled:	8/19/2013
Sample Matrix:	Soil	Date Analyzed:	8/19/2013
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	320	5.0

ND = Parameter not detected at the stated detection limit.

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

Comments: **Jicarilla Otero #5**

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



Analyst

Isaac Garcia

Printed



Review

Toni McKnight, EIT

Printed

Cal. Date: 19-Aug-13

Parameter	Standard Concentration mg/L	Concentration Reading mg/L
TPH	100	
	200	200
	500	
	1000	
	5000	

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



Analyst

9/23/2013

Date

Isaac Garcia

Print Name



Review

9/23/2013

Date

Toni McKnight, EIT

Print Name



Analytical Report

Report Summary

Client: Enterprise Products
Chain Of Custody Number: 15981
Samples Received: 8/20/2013 7:30:00AM
Job Number: 97057-0580
Work Order: P308056
Project Name/Location: Jicarilla Otero #5

Entire Report Reviewed By:

Date: 8/20/13

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: Jicarilla Otero #5
Project Number: 97057-0580
Project Manager: Isaac Garcia

Reported:
20-Aug-13 15:09

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BC	P308056-01A	Soil	08/19/13	08/20/13	Glass Jar, 4 oz.
EW	P308056-02A	Soil	08/19/13	08/20/13	Glass Jar, 4 oz.

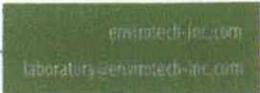
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Enterprise Products
614 Reilly Ave
Farmington NM, 87401

Project Name: Jicarilla Otero #5
Project Number: 97057-0580
Project Manager: Isaac Garcia

Reported:
20-Aug-13 15:09

BC
P308056-01 (Solid)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg	1	1334001	20-Aug-13	20-Aug-13	EPA 8015D	
Diesel Range Organics (C10-C28)	20.2	4.99	mg/kg	1	1334001	20-Aug-13	20-Aug-13	EPA 8015D	
GRO and DRO Combined Fractions	20.2	4.99	mg/kg	1	1334001	20-Aug-13	20-Aug-13	EPA 8015D	

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Enterprise Products
614 Reilly Ave
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Project Name: Jicarilla Otero #5
Project Number: 97057-0580
Project Manager: Isaac Garcia

Reported:
20-Aug-13 15:09

EW
P308056-02 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg	1	1334001	20-Aug-13	20-Aug-13	EPA 8015D	
Diesel Range Organics (C10-C28)	7.45	5.00	mg/kg	1	1334001	20-Aug-13	20-Aug-13	EPA 8015D	
GRO and DRO Combined Fractions	7.45	5.00	mg/kg	1	1334001	20-Aug-13	20-Aug-13	EPA 8015D	

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Enterprise Products
614 Reilly Ave
Farmington NM, 87401

Project Name: Jicarilla Otero #5
Project Number: 97057-0580
Project Manager: Isaac Garcia

Reported:
20-Aug-13 15:09

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 1334001 - GRO/DRO Extraction EPA 3550C

Blank (1334001-BLK1)

Prepared & Analyzed: 19-Aug-13

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

Duplicate (1334001-DUP1)

Source: P308049-01

Prepared & Analyzed: 19-Aug-13

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

Matrix Spike (1334001-MS1)

Source: P308049-01

Prepared & Analyzed: 19-Aug-13

Gasoline Range Organics (C6-C10)	259	5.26	mg/kg	263	ND	98.6	75-125			
Diesel Range Organics (C10-C28)	266	5.26	"	263	ND	101	75-125			

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Enterprise Products
614 Reilly Ave
Farmington NM, 87401

Project Name: Jicarilla Otero #5
Project Number: 97057-0580
Project Manager: Isaac Garcia

Reported:
20-Aug-13 15:09

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

15981

Rush

Client: <i>Enterprise</i>	Project Name / Location: <i>Jicarilla Otero #15</i>	ANALYSIS / PARAMETERS											
Email results to: <i>Isaac / Felipe</i>	Sampler Name: <i>Isaac</i>	TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE	Sample Cool	Sample Intact
Client Phone No.:	Client No.: <i>97057-0580</i>												

Sample No./ Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative			TPH	BTEX	VOC	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	Co ₂													
<i>BC</i>	<i>8/19</i>	<i>5:46</i>	<i>P308054-01</i>	<i>1-4oz</i>			<i>X</i>	<i>X</i>											<i>Y</i>	<i>Y</i>
<i>EW</i>	<i>8/19</i>	<i>5:49</i>	<i>P308054-02</i>	<i>1-4oz</i>			<i>X</i>	<i>X</i>											<i>L</i>	<i>L</i>

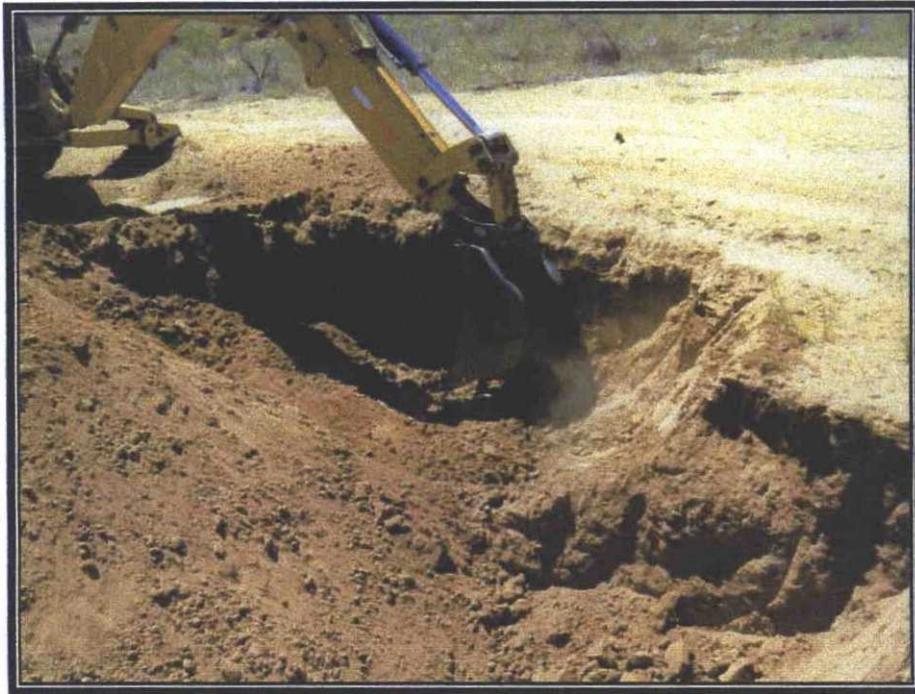
Relinquished by: (Signature) <i>[Signature]</i>	Date <i>8/20</i>	Time <i>7:30</i>	Received by: (Signature) <i>[Signature]</i>	Date <i>8/20</i>	Time <i>7:30</i>
Relinquished by: (Signature)			Received by: (Signature)		
Sample Matrix Soil <input checked="" type="checkbox"/> Solid <input type="checkbox"/> Sludge <input type="checkbox"/> Aqueous <input type="checkbox"/> Other <input type="checkbox"/>					

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

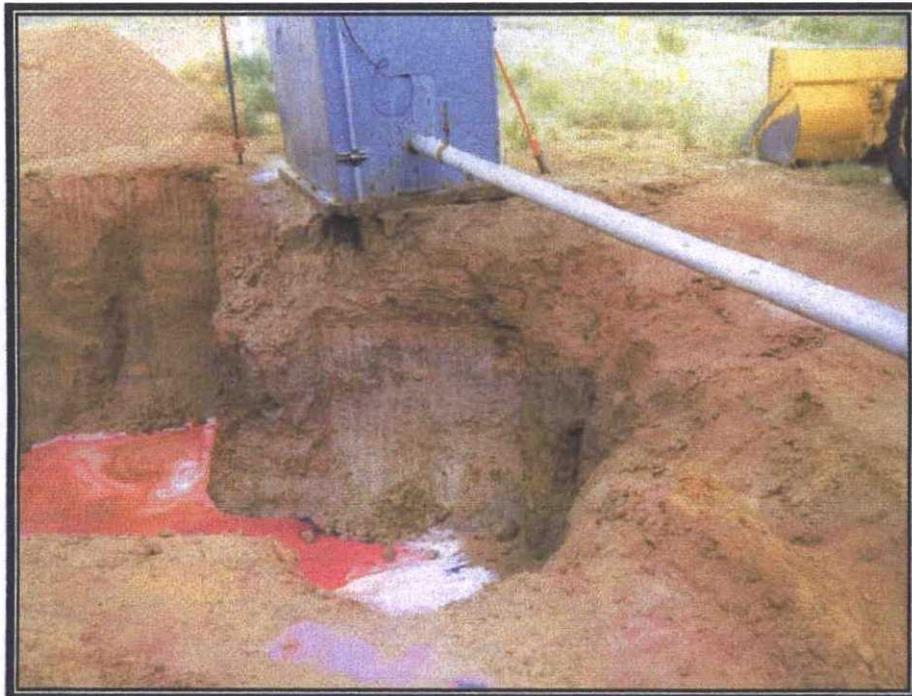


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**SITE PHOTOGRAPHY
ENTERPRISE PRODUCTS
SPILL CLEANUP REPORT
JICARILLA OTERO #5
PROJECT NUMBER 97057-0580
AUGUST 2013**



Picture 1: Excavation Activities



Picture 2: Potassium Permanganate Spraying Activities (View 1)

**SITE PHOTOGRAPHY
ENTERPRISE PRODUCTS
SPILL CLEANUP REPORT
JICARILLA OTERO #5
PROJECT NUMBER 97057-0580
AUGUST 2013**



Picture 3: Potassium Permanganate Spraying Activities (View 2)



Picture 4: Post Backfilling and Re-contouring

APPENDIX C

Bills of Lading



Bill of Lading

MANIFEST # **44450**
 DATE 8-16-13 JOB # 92057-0580

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

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY			
	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	BBLS	COMPANY	TRK#	TIME	DRIVER SIGNATURE
1	Enterprise OTERO #5	LF II	Cont Soil	A-23	25	-	E-tech	659	14:05	Mike Holt
2	"	"	"	A-23	10	-	E-tech	658	14:45	Rick Smith
					<u>35</u>					
RESULTS:		LANDFARM EMPLOYEE:		NOTES:						
292	CHLORIDE TEST	Dave L								
	PAINT FILTER TEST	Certification of above receipt & placement								

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

TRANSPORTER CO. E-tech NAME MIKE HOYT SIGNATURE Mike Holt
 COMPANY CONTACT DONALD O PHONE 486 0898 DATE 8-16-13



Bill of Lading

MANIFEST # 44465DATE 8-19-13 JOB # 970570580

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

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY			
	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	BBLS	COMPANY	TRK#	TIME	DRIVER SIGNATURE
1	ENVIROTECH OVERDISE	LFII	COMP SOIL	B-25	20	-	E-tech	616	13:50	[Signature]
2	"	"	"	B-25	20	-	E-tech	616	18:00	[Signature]
3	"	"	"	B-25	10	-	E-tech	658	18:25	Rick Smith
					50					
RESULTS:		LANDFARM EMPLOYEE:	Certification of above receipt & placement			NOTES:				
292	CHLORIDE TEST	[Signature]								
	PAINT FILTER TEST									

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

TRANSPORTER CO. EnvirotechNAME William T. WilsonSIGNATURE [Signature]COMPANY CONTACT Jimmy M.

PHONE

DATE 8-17-13

Signatures required to distribution of the legal document

