GW-244

Corrective Action Report

Date: 10/2007

ENVIROTECH INC.

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

RCVD OCT 30 '07
OIL CONS. DIV.
DIST. 3

CONTAMINATION CLEANUP REPORT

LOCATED AT:

RINCON LATERAL #4 COMPRESSOR STATION
COMPRESSOR PAD #3
RIO ARRIBA COUNTY, NEW MEXICO

FOR:

HANOVER C/O EXTERRAN
1280 TROY KING ROAD
FARMINGTON, NEW MEXICO 87401

PROJECT NO. 99043-037

OCTOBER 2007

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

ENVIROTECH INC.

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

October 17, 2007 Project No. 99043-037

Mr. Michael Archer
Chevron North America
P.O. Box 1289
Farmington, New Mexico 87499

Phone (505) 326-2657
Cell (505) 320-7970

RE: CONTAMINATION CLEANUP REPORT AT RINCON LATERAL #4 COMPRESSOR STATION, COMPRESSOR PAD #3, RIO ARRIBA COUNTY, NEW MEXICO

Dear Mr. Archer,

Attached please find the *Contamination Cleanup Report at Rincon Lateral #4 Compressor Station, Compressor Pad #3, Rio Arriba County, New Mexico*. We have included one (1) original and two (2) copies. Please review the report and forward one (1) copy to the Bureau of Land Management and one (1) copy to Mr. Brandon Powell with the NMOCD.

We appreciate the opportunity to be of service. If you should have any questions, please do not hesitate to contact our office at (505) 632-0615.

Sincerely,
ENVIROTECH, INC.

RCVD OCT 30 '07
OIL CONS. DIV.
DIST. 3

E. Nicole Hayworth
Environmental Scientist
nhayworth@envirotech-inc.com

Enclosures: Three (3) Reports

CC: Mr. Scott Oliver, Hanover c/o Exterran
Client File 99043

District Copy
For Scanning Only
Has NOT been processed.

CONTAMINATION CLEANUP REPORT
AT RINCON LATERAL #4 COMPRESSOR STATION
COMPRESSOR PAD #3
RIO ARRIBA COUNTY, NEW MEXICO

TABLE OF CONTENTS

INTRODUCTION

Envirotech, Inc. of Farmington, New Mexico, was contracted to perform activities associated with monitoring and closure sampling for the cleanup of contamination found at the Rincon Lateral #4 Compressor Station, Compressor Pad #3, Rio Arriba County, New Mexico; see ***Figure 1, Vicinity Map***. The excavation of contaminated soil is detailed in this report with field and laboratory analysis presented in separate appendices.

SCOPE OF WORK

The scope of work included monitoring the excavation of contaminated soil from under and around the compressor pad #3; sees ***Figure 2, Site Map***. Also included in the scope of work was field closure using USEPA Method 418.1 for Total Petroleum Hydrocarbons (TPH) and for organic vapors using a Photo Ionization Detector (PID). Laboratory analysis for TPH was conducted for confirmation on the bottom sandstone sample that exceed 1000 ppm TPH using USEPA Method 8015, documentation, reporting, and preparation of appropriate New Mexico Oil Conservation Division (NMOCD) forms. Based on the site location, it was determined that a cleanup level of 1000 ppm TPH for the hydrocarbon-impacted soil would be necessary to comply with the current NMOCD Guidelines to protect the environment adequately.

DESCRIPTION OF WORK

Saturday, August 18, 2007 – Wednesday, August 22, 2007
Environmental excavation on the site began on August 18, 2007. Upon arriving on the site a brief site assessment was performed to outline the extent of the contaminated area. Excavation began near the far west side of the pad and moved to the east; see ***Appendix A, Site Photography***. An environmental scientist was on site to collect and analyze samples in the field to ensure that only contaminated soil was removed; see ***Appendix B, Analytical Results***. At approximately 11 feet deep sandstone was reached and excavation ceased in that direction. Due to a field result above the closure standard of 1000 ppm TPH this sample was collected and analyzed at Envirotech's Laboratory using USEPA Method 8015 for TPH; see ***Appendix B, Analytical Results***. Approximately 410 cubic yards of contaminated soil was stockpiled on site and then transported to Envirotech's NMOCD permitted Soil Remediation Facility Landfarm #2; see ***Appendix C, Bills of Lading***. Final excavation reached approximately 47' x 44' x 11' deep; see ***Figure 2, Site Map***.

RECOMMENDATIONS

Excavation was performed to remove contamination to below a 1000 ppm TPH standard. All site activities were performed in accordance with NMOCD requirements. Excavation at the Rincon Lateral #4 Compressor Station, Compressor Pad #3, Rio Arriba County, New Mexico was performed and field and laboratory sample results indicated that the site was cleaned to below the 1000 ppm limit determined for these sites. Envirotech recommends no further action with regards to this site.

STATEMENT OF LIMITATIONS

Envirotech performed soil screening and documentation for soil excavated at the Rincon Lateral #4 Compressor Station, Compressor Pad #3, Rio Arriba County, New Mexico. The work and services provided by Envirotech were under the guidelines of the NMOCD. All observations and conclusions provided here are based on the information and current site conditions found during this investigation.

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.

Respectfully Submitted,
ENVIROTECH, INC.

E. Nicole Hayworth
Environmental Scientist
nhayworth@envirotech-inc.com

Reviewed by:

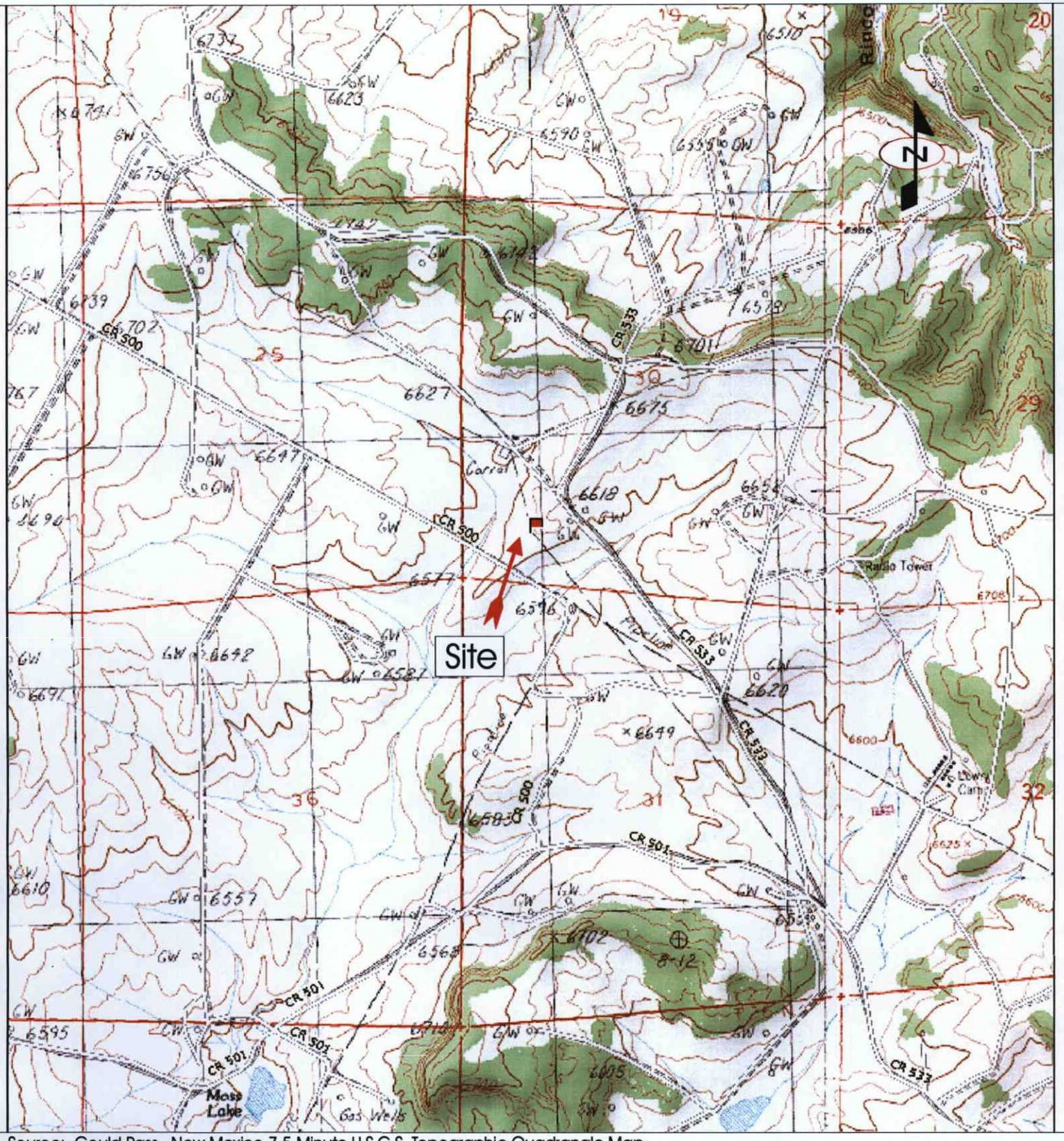
KYLE P. KERR, C.E.S. NEW MEXICO 299 CERTIFIED SCIENTIST

Kyle P. Kerr
Chief Environmental Scientist/Manager
NMCES #299
kpkerr@envirotech-inc.com

FIGURES

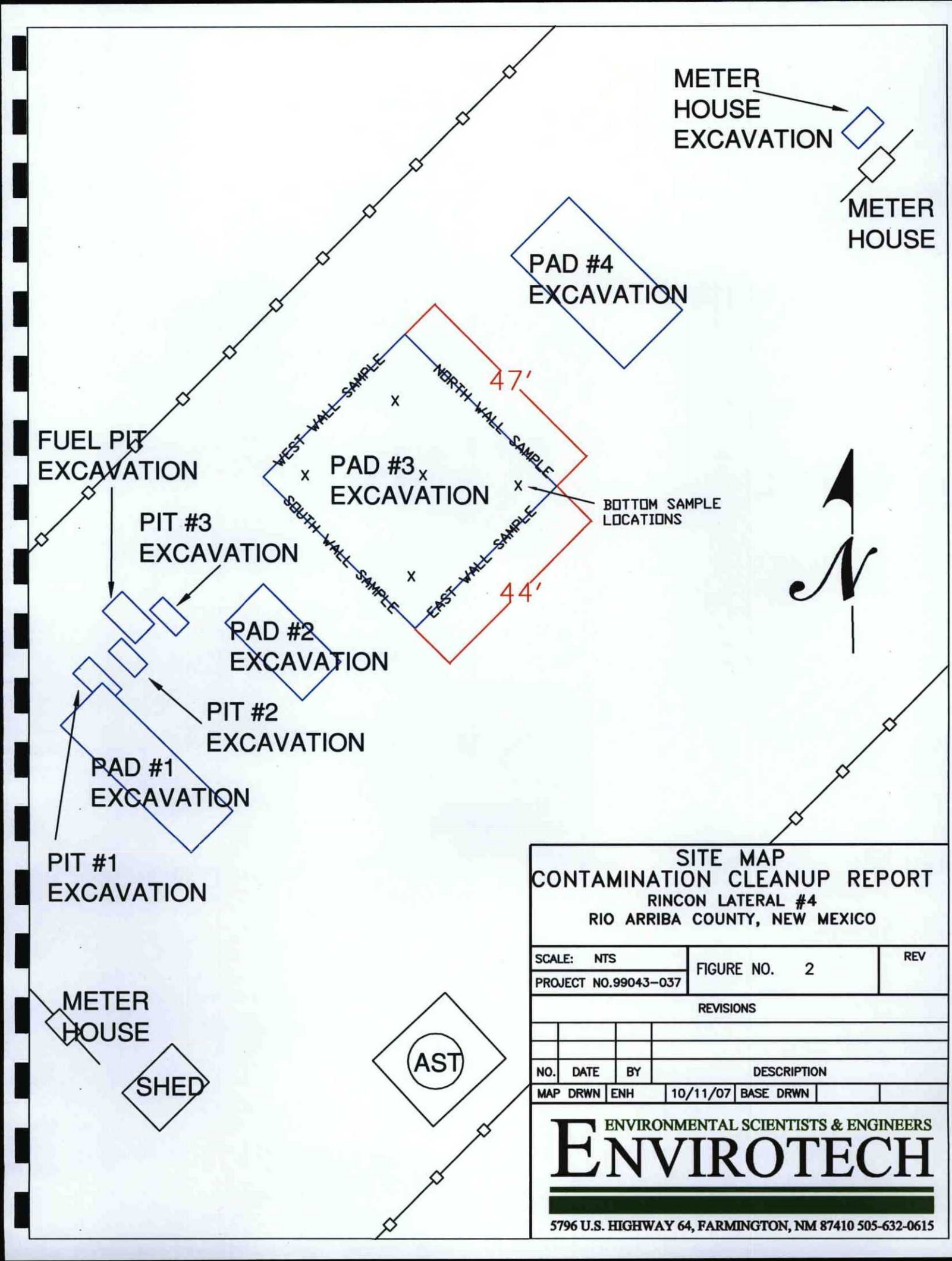
Figure 1, Vicinity Map

Figure 2, Site Map



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

Contamination Cleanup Report Rincon Lateral #4 Compressor Station Compressor Pad #3 Rio Arriba County, New Mexico	ENVIROTECH INC. ENVIRONMENTAL SCIENTISTS & ENGINEERS 5796 U.S. HIGHWAY 64 FARMINGTON, NEW MEXICO 87401 PHONE (505) 632-0615	Vicinity Map Figure 1	
PROJECT No 99043-037	Date Drawn: 10/11/07	DRAWN BY: Nicole Hayworth	PROJECT MANAGER: Kyle P. Kerr



SITE MAP
CONTAMINATION CLEANUP REPORT
RINCON LATERAL #4
RIO ARRIBA COUNTY, NEW MEXICO

SCALE: NTS	FIGURE NO. 2	REV
PROJECT NO.99043-037		

REVISIONS

NO.	DATE	BY	DESCRIPTION

MAP DRWN	ENH	10/11/07	BASE DRWN		

ENVIRONMENTAL SCIENTISTS & ENGINEERS
ENVIROTECH
5796 U.S. HIGHWAY 64, FARMINGTON, NM 87410 505-632-0615

TABLE 1

Analytical Results

Table 1: Analytical Results
Contamination Cleanup Report
at Rincon Lateral #4 Compressor Station
Compressor Pad #3
Rio Arriba County, New Mexico

Sample	Location	Date	USEPA Method 418.1 TPH (ppm)	PID (ppm)	USEPA Method 8015 TPH (ppm)
NMOCD Standard			*1000*	*100*	*1000*
1	West Bottom @ 2' BGS	8/18/2007	**6000**	**109**	
2	West Wall	8/18/2007	60	2	
3	East Bottom @ 6' BGS	8/19/2007	**12400**	**189**	
4	South Wall Test Hole	8/19/2007	184	2.7	
5	East Bottom @ 9' BGS	8/19/2007	**12800**	5.8	
6	East Wall	8/19/2007	**3300**	18.1	
7	North Wall Test Hole	8/19/2007	**2480**	2.7	
8	North Wall Test Hole	8/19/2007	276	1.3	
9	South Wall	8/20/2007	**1270**	<1.0	
10	East Wall	8/20/2007	**11800**	3.6	
11	North Wall	8/20/2007	**1870**	<1.0	
12	Bottom @ 11' BGS	8/20/2007	**4930**	<1.0	ND
13	North Wall	8/22/2007	176	2.8	
14	South Wall	8/22/2007	140	2.6	
15	East Wall	8/22/2007	200	2.7	

ND = Not detected above laboratory detection limits
Bold indicates samples which did not passed NMOCD closure standards

APPENDIX A

Site Photography

Contamination Cleanup Report
at Rincon Lateral #4 Compressor Station, Compressor Pad #3
Rio Arriba County, New Mexico

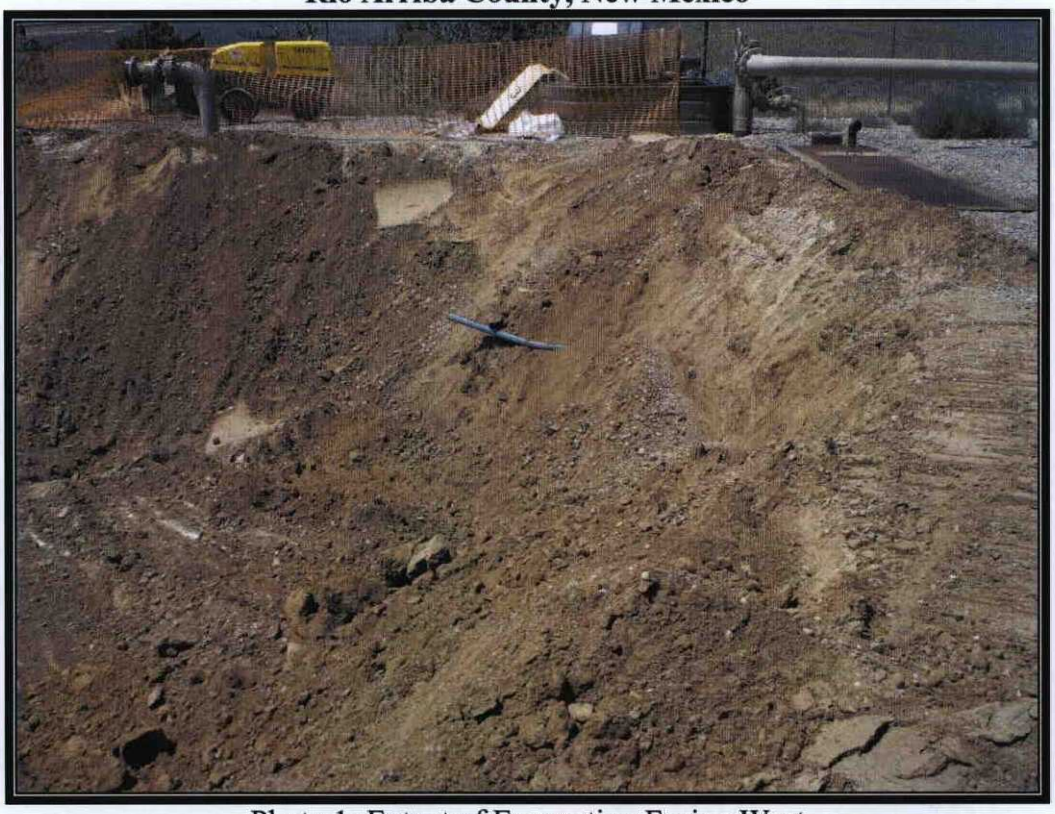


Photo 1: Extent of Excavation Facing West

Photo 2: Extent of Excavation Facing South

APPENDIX B

Analytical Results

ENVIROTECH INC.

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	Hanover	Project #:	99043-037
Sample No.:	1	Date Reported:	10/11/2007
Sample ID:	West Bottom @ 2' BGS	Date Sampled:	8/18/2007
Sample Matrix:	Soil	Date Analyzed:	8/18/2007
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**6,000**	**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: **Rincon Lateral #4 Compressor Station, Compressor Pad #3**

Instrument callibrated to 200 ppm standard. Zeroed before each sample

Nicole Hayworth
Analyst

Nicole Hayworth
Printed

Greg Crabtree
Review

Greg Crabtree
Printed

5796 U.S. Highway 64 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

ENVIROTECH INC.

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	Hanover	Project #:	99043-037
Sample No.:	2	Date Reported:	10/11/2007
Sample ID:	West Wall	Date Sampled:	8/18/2007
Sample Matrix:	Soil	Date Analyzed:	8/18/2007
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**60**	**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: **Rincon Lateral #4 Compressor Station, Compressor Pad #3**

Instrument callibrated to 200 ppm standard. Zeroed before each sample

Nicole Hayworth
Analyst

Greg Crabtree
Review

Nicole Hayworth
Printed

Greg Crabtree
Printed

5796 U.S. Highway 64 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

ENVIROTECH INC.

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CONTINUOUS CALIBRATION
EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Cal. Date: 18-Aug-07

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

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

Nicol Hayworth
Analyst

10/11/07
Date

Nicole Hayworth
Print Name

Greg Crabtree
Review

10/11/07
Date

Greg Crabtree
Print Name

5796 U.S. Highway 64 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

ENVIROTECH INC.

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	Hanover	Project #:	99043-037
Sample No.:	3	Date Reported:	10/11/2007
Sample ID:	East Bottom @ 6' BGS	Date Sampled:	8/19/2007
Sample Matrix:	Soil	Date Analyzed:	8/19/2007
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**12,400**	**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: **Rincon Lateral #4 Compressor Station, Compressor Pad #3**

Instrument callibrated to 200 ppm standard. Zeroed before each sample

Nicole Hayworth
Analyst

Greg Crabtree
Review

Nicole Hayworth
Printed

Greg Crabtree
Printed

5796 U.S. Highway 64 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

ENVIROTECH INC.

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	Hanover	Project #:	99043-037
Sample No.:	4	Date Reported:	10/11/2007
Sample ID:	South Wall Test Hole	Date Sampled:	8/19/2007
Sample Matrix:	Soil	Date Analyzed:	8/19/2007
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**184**	**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: **Rincon Lateral #4 Compressor Station, Compressor Pad #3**

Instrument callibrated to 200 ppm standard. Zeroed before each sample

Nicole Hayworth
Analyst

Nicole Hayworth
Printed

Greg Crabtree
Review

Greg Crabtree
Printed

5796 U.S. Highway 64 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

ENVIROTECH INC.

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	Hanover	Project #:	99043-037
Sample No.:	5	Date Reported:	10/11/2007
Sample ID:	East Bottom @ 9' BGS	Date Sampled:	8/19/2007
Sample Matrix:	Soil	Date Analyzed:	8/19/2007
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**12,800**	**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: **Rincon Lateral #4 Compressor Station, Compressor Pad #3**

Instrument callibrated to 200 ppm standard. Zeroed before each sample

Nicole Hayworth
Analyst

Greg Crabtree
Review

Nicole Hayworth
Printed

Greg Crabtree
Printed

ENVIROTECH INC.

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	Hanover	Project #:	99043-037
Sample No.:	6	Date Reported:	10/11/2007
Sample ID:	East Wall	Date Sampled:	8/19/2007
Sample Matrix:	Soil	Date Analyzed:	8/19/2007
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**3,300**	**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: **Rincon Lateral #4 Compressor Station, Compressor Pad #3**

Instrument callibrated to 200 ppm standard. Zeroed before each sample

Nicole Hayworth
Analyst

Nicole Hayworth
Printed

Greg Crabtree
Review

Greg Crabtree
Printed

5796 U.S. Highway 64 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

ENVIROTECH INC.

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	Hanover	Project #:	99043-037
Sample No.:	7	Date Reported:	10/11/2007
Sample ID:	North Wall Test Hole	Date Sampled:	8/19/2007
Sample Matrix:	Soil	Date Analyzed:	8/19/2007
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**2,480**	**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: **Rincon Lateral #4 Compressor Station, Compressor Pad #3**

Instrument callibrated to 200 ppm standard. Zeroed before each sample

Nicole Hayworth
Analyst

Greg Crabtree
Review

Nicole Hayworth
Printed

Greg Crabtree
Printed

5796 U.S. Highway 64 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

ENVIROTECH INC.

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	Hanover	Project #:	99043-037
Sample No.:	8	Date Reported:	10/11/2007
Sample ID:	North Wall Test Hole	Date Sampled:	8/19/2007
Sample Matrix:	Soil	Date Analyzed:	8/19/2007
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**276**	**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: **Rincon Lateral #4 Compressor Station, Compressor Pad #3**

Instrument callibrated to 200 ppm standard. Zeroed before each sample

Nicole Hayworth
Analyst

Nicole Hayworth
Printed

Greg Crabtree
Review

Greg Crabtree
Printed

5796 U.S. Highway 64 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

ENVIROTECH INC.

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CONTINUOUS CALIBRATION
EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Cal. Date: 19-Aug-07

Parameter	Standard Concentration mg/L	Concentration Reading mg/L
TPH	100	
	200	203
	500	
	1000	

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

Nicol Hayworth — Analyst

10/11/07 — Date

Nicole Hayworth — Print Name

Greg Crabtree — Review

10/11/07 — Date

Greg Crabtree — Print Name

5796 U.S. Highway 64 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

ENVIROTECH INC.

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Client:	Hanover	Project #:	99043-037
Sample No.:	9	Date Reported:	10/11/2007
Sample ID:	South Wall	Date Sampled:	8/20/2007
Sample Matrix:	Soil	Date Analyzed:	8/20/2007
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**1,270**	**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: **Rincon Lateral #4 Compressor Station, Compressor Pad #3**

Instrument callibrated to 200 ppm standard. Zeroed before each sample

Nicol Hayworth
Analyst

Nicole Hayworth
Printed

Greg Crabtree
Review

Greg Crabtree
Printed

5796 U.S. Highway 64 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

ENVIROTECH INC.

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	Hanover	Project #:	99043-037
Sample No.:	10	Date Reported:	10/11/2007
Sample ID:	East Wall	Date Sampled:	8/20/2007
Sample Matrix:	Soil	Date Analyzed:	8/20/2007
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**11,800**	**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: **Rincon Lateral #4 Compressor Station, Compressor Pad #3**

Instrument callibrated to 200 ppm standard. Zeroed before each sample

Nicol Hayworth
Analyst

Greg Crabtree
Review

Nicole Hayworth
Printed

Greg Crabtree
Printed

5796 U.S. Highway 64 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

ENVIROTECH INC.

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	Hanover	Project #:	99043-037
Sample No.:	11	Date Reported:	10/11/2007
Sample ID:	North Wall	Date Sampled:	8/20/2007
Sample Matrix:	Soil	Date Analyzed:	8/20/2007
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**1,870**	**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: **Rincon Lateral #4 Compressor Station, Compressor Pad #3**

Instrument callibrated to 200 ppm standard. Zeroed before each sample

Nicol Hayworth
Analyst

Nicole Hayworth
Printed

Greg Crabtree
Review

Greg Crabtree
Printed

5796 U.S. Highway 64 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

ENVIROTECH INC.

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Client:	Hanover	Project #:	99043-037
Sample No.:	12	Date Reported:	10/11/2007
Sample ID:	Bottom @ 11' BGS	Date Sampled:	8/20/2007
Sample Matrix:	Soil	Date Analyzed:	8/20/2007
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**4,930**	**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: **Rincon Lateral #4 Compressor Station, Compressor Pad #3**

Instrument callibrated to 200 ppm standard. Zeroed before each sample

Nicole Hayworth
Analyst

Greg Crabtree
Review

Nicole Hayworth
Printed

Greg Crabtree
Printed

5796 U.S. Highway 64 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

ENVIROTECH INC.

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CONTINUOUS CALIBRATION
EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Cal. Date: 20-Aug-07

Parameter	Standard Concentration mg/L	Concentration Reading mg/L
TPH	100	
	200	205
	500	
	1000	

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

Nicol Hayworth
Analyst

10/11/07
Date

Nicole Hayworth
Print Name

Greg Crabtree
Review

10/11/07
Date

Greg Crabtree
Print Name

5796 U.S. Highway 64 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

ENVIROTECH INC.

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	Hanover	Project #:	99043-037
Sample No.:	13	Date Reported:	10/11/2007
Sample ID:	North Wall	Date Sampled:	8/22/2007
Sample Matrix:	Soil	Date Analyzed:	8/22/2007
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**176**	**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: **Rincon Lateral #4 Compressor Station, Compressor Pad #3**

Instrument callibrated to 200 ppm standard. Zeroed before each sample

Nicol Hayworth
Analyst

Nicole Hayworth
Printed

Greg Crabtree
Review

Greg Crabtree
Printed

5796 U.S. Highway 64 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

30

ENVIROTECH INC.

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Client:	Hanover	Project #:	99043-037
Sample No.:	14	Date Reported:	10/11/2007
Sample ID:	South Wall	Date Sampled:	8/22/2007
Sample Matrix:	Soil	Date Analyzed:	8/22/2007
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**140**	**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: **Rincon Lateral #4 Compressor Station, Compressor Pad #3**

Instrument callibrated to 200 ppm standard. Zeroed before each sample

Nicol Hayworth
Analyst

Nicole Hayworth
Printed

Greg Crabtree
Review

Greg Crabtree
Printed

5796 U.S. Highway 64 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

ENVIROTECH INC.

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS

Client:	Hanover	Project #:	99043-037
Sample No.:	15	Date Reported:	10/11/2007
Sample ID:	East Wall	Date Sampled:	8/22/2007
Sample Matrix:	Soil	Date Analyzed:	8/22/2007
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**200**	**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: **Rincon Lateral #4 Compressor Station, Compressor Pad #3**

Instrument callibrated to 200 ppm standard. Zeroed before each sample

N Nicole Hayworth
Analyst

Greg Crabtree
Review

Nicole Hayworth
Printed

Greg Crabtree
Printed

5796 U.S. Highway 64 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

ENVIROTECH INC.

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CONTINUOUS CALIBRATION
EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Cal. Date: 22-Aug-07

Parameter	Standard Concentration mg/L	Concentration Reading mg/L
TPH	100	
	200	206
	500	
	1000	

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

Nicol Hayworth
Analyst

10/11/07
Date

Nicole Hayworth
Print Name

Greg Crabtree
Review

10/11/07
Date

Greg Crabtree
Print Name

5796 U.S. Highway 64 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Hanover	Project #:	99043-037
Sample ID:	Sandstone Bottom	Date Reported:	08-23-07
Laboratory Number:	42797	Date Sampled:	08-20-07
Chain of Custody No:	3259	Date Received:	08-20-07
Sample Matrix:	Soil	Date Extracted:	08-21-07
Preservative:	Cool	Date Analyzed:	08-23-07
Condition:	Cool & Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Lateral #4**

Analyst

Review

5796 U.S. Highway 64 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	08-23-07 QA/QC	Date Reported:	08-23-07
Laboratory Number:	42789	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	08-23-07
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	05-07-07	1.0044E+003	1.0048E+003	**0.04%**	**0 - 15%**
Diesel Range C10 - C28	05-07-07	1.0058E+003	1.0062E+003	**0.04%**	**0 - 15%**

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	**ND**	**0.2**
Diesel Range C10 - C28	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	**ND**	**ND**	**0.0%**	**0 - 30%**
Diesel Range C10 - C28	**18.2**	**18.1**	**0.5%**	**0 - 30%**

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	**ND**	**250**	**250**	**100.0%**	**75 - 125%**
Diesel Range C10 - C28	**18.2**	**250**	**268**	**99.9%**	**75 - 125%**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **QA/QC for Samples 42789 - 42794, 42797 - 42798, 42812**

Analyst

Review

5796 U.S. Highway 64 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

CHAIN OF CUSTODY RECORD

3259

Client:	Project Name / Location:
HANOVER	LATERAL #4
Client Address:	Sampler Name: N. HAYWORTH
Client Phone No.:	Client No.: 99043-037

Sample No./ Identification	Sample Date	Sample Time	Lab No.	Sample Matrix	No./Volume of Containers	Preservative $HgCl_2$	Preservative HNO_3	Preservative	TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	PAH	TPH (418.1)					Sample Cool	Sample Intact
SANDSTONE BOTTOM	08/20/07		42797	SOIL	1				✓													✓	✓

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	08/20/07	1710	[signature]	8/20/07	1710
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

ENVIROTECH INC.

5796 U.S. Highway 64 • Farmington, New Mexico 87401 • (505) 632-0615

san juan reproduction 578-129

APPENDIX C

Bills of Lading

ENVIROTECH INC.

Bill of Lading

MANIFEST # 28421

DATE 8-22-07 JOB # 99043-037

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

LOAD NO.	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	BBLS	COMPANY	TRK#	TIME	DRIVER SIGNATURE
1	Hanover Bwr Com Lateral	LF2	Cont Soil	K-13	12		Doug Foutz	934	1412	Tony Smith
2	#4 Pad #3	"	"	K-13	12		Doug Foutz	834	1413	[illegible]
					24					
										35404
<275	Chloride test	2								ENTERED AUG 27 2007
	Paint filter test	2								

non-exempt 021

"I certify the material hauled from the above location has not been added to or mixed with, and is the same material received from the above mentioned Generator, and that no additional materials have been added."

NAME Tony Smith COMPANY Doug Foutz SIGNATURE Tony Smith

COMPANY CONTACT ______ PHONE ______ DATE ______

san juan reproduction 578-126

ENVIROTECH INC.

Bill of Lading

MANIFEST # 28413

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

DATE 8-22-07 JOB # 99043-037

LOAD NO.	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	BBLS	COMPANY	TRK#	TIME	DRIVER SIGNATURE
1	Hanover Russ Conn Cathedral #1A pad #3	LF2	Cont Soil	N-13	12		4L TRKS	25	800	Felix Smith
2	"	"	"	N-13	20		Joe Luis	690	800	[illegible]
3	"	"	"	M-13	12		Moberg	42	800	[illegible]
4	"	"	"	N-13	20		Laplata Const	17	805	C. Redhorse
5				M-13	20		Moberg	56	813	[illegible]
6	"	"	"	M-13	20		Moberg	2	900	[illegible]
7	"	"	"	M-13	12		4L TRKs	19	1258	[illegible]
8	"	"	"	M-13	12		4L TRK	25	1300	Felix Smith
9	"	"	"	M-13	12		Alcon Ent.	3	1300	Mitchell [illegible]
10	"	"	"	M-13	20		4L TRK	22	1310	[illegible]
11	"	"	"	M-13	20		LA Plata Const.	17	1330	C. Redhorse
12	"	"	"	M-13	10		Prado Farms	22	1350	[illegible]
13	<275 Chloride test	14 "	"	M-13	10		BNL	#9	1355	[illegible]
14	Paint filter test	14 "	"	M-13	12		Joe Luis	691	1405	[illegible]

"I certify the material hauled from the above location has not been added to or mixed with, and is the same material received from the above mentioned Generator, and that no additional materials have been added."

NAME Gerard White COMPANY LK Oilfield (agp) SIGNATURE [illegible]

COMPANY CONTACT Chevron Russ Knight PHONE DATE 8-22-07

san juan reproduction 578-126

ENTERED AUG 2 7 2007

35112

Nonexempt 8/21/07

8/23/07

ENVIROTECH INC.

Bill of Lading

MANIFEST # 28417

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

DATE 8-24-07 JOB # 99043-037

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY			
	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	BBLS	COMPANY	TRK#	TIME	DRIVER SIGNATURE
1	Rincon Lateral #4 pad #3	LF2	Cont Soil	K-13	12		ELTRK	19	1205	[signature]
					12					
<275	Chloride test	1								35370
	Paint filter test	1								

ENTERED AUG 25 2007

"I certify the material hauled from the above location has not been added to or mixed with, and is the same material received from the above mentioned Generator, and that no additional materials have been added."

NAME Gerard White COMPANY Ltd Oil Field SIGNATURE [signature]

COMPANY CONTACT Chevron Russ Knight PHONE _____ DATE 8/24/7

8/23/07

san juan reproduction 578-126

ENVIROTECH INC.

Bill of Lading

MANIFEST # 28399

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

DATE 8-21-07 JOB # 99043037

LOAD	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY			
NO.	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	BBLS	COMPANY	TRK#	TIME	DRIVER SIGNATURE
	Hanover									
1	Rini Com lateral	LF2	Cont Soil	0-13	12		L&L oil Field	19	1225	[signature]
2	#4 pad #3	"	"	0-13	12		Doug Foutz	834	1225	Tony Smith
3	"	"	"	0-13	20		La Plata Const	17	1310	G. Raglione
4	"	"	"	0-13	20		Moberg	2	1315	[signature]
5	"	"	"	0-13	20		Moberg	56	1320	[signature]
6	"	"	"	0-13	12		Moberg	42	1331	[signature]
7	"	"	"	0-13	12		R/T Trks	01	1345	[signature]
8	"	"	"	0-13	20		Joe Luis	690	1355	Joe L Partage
9	"	"	"	0-13	20		L&L oil Fld	22	1548	[signature]
10	"	"	"	0-13	12		L+L	19	1640	[signature]
					160					
<275	Chloride test	10							3538	
	Paint filter test	10								

ENTERED AUG 2 5 2007

"I certify the material hauled from the above location has not been added to or mixed with, and is the same material received from the above mentioned Generator, and that no additional materials have been added."

NAME GERARD White COMPANY L&L oil field SIGNATURE [signature]

COMPANY CONTACT Chevron Russ Knight PHONE DATE 8/21/7

8/22/07

san juan reproduction 578-126