

District I  
P.O. Box 1980, Hobbs, NM

District II  
P.O. Drawer DD, Artesia, NM 88221

District III  
1000 Rio Brazos Rd, Aztec, NM 87410

State of New Mexico  
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

2040 South Pacheco Street  
Santa Fe, New Mexico 87505

SUBMIT 1 COPY TO  
APPROPRIATE  
DISTRICT OFFICE  
AND 1 COPY TO  
SANTA FE OFFICE

PIT REMEDIATION AND CLOSURE REPORT

RECEIVED  
NOV - 1 1999

OIL CON. DIV.  
DIST. 3

Operator: PNM Gas Services ( Burlington ) Telephone: 324-3764

Address: 603 W. Elm Street Farmington, NM 87401

Facility or Well Name: Grenier #15

Location: Unit F Sec 18 T 31 N R 11 W County San Juan

Pit Type: Separator ☐ Dehydrator ☒ Other                     

Land Type: BLM ☒ State ☐ Fee ☐ Other                     

Pit Location: Pit dimensions: length 15 ' width 15 ' depth 2 '

(Attach diagram) Reference: wellhead ☒ other                     

Footage from reference: 78 '                     

Direction from reference: 10 Degrees ☒ East North ☒  
of ☐ West South ☐

<b>Depth to Ground Water:</b>  (Vertical distance from contaminants to seasonal high water elevation of ground water)	Less than 50 feet	(20 points)	<u>0</u>
	50 feet to 99 feet	(10 points)	
	Greater than 100 feet	( 0 points)	

<b>Wellhead Protection Area:</b>  (Less than 200 feet from a private domestic water source, or, less than 1,000 feet from all other water sources)	Yes	(20 points)	<u>0</u>
	No	( 0 points)	

<b>Distance to Surface Water:</b>  (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)	Less than 200 feet	(20 points)	<u>0</u>
	200 feet to 1,000 feet	(10 points)	
	Greater than 1,000 feet	( 0 points)	

**RANKING SCORE (TOTAL POINTS) :** 0

Grenier #15

Date Remediation Started: 05/18/1999

Date Completed: 05/18/1999

Remediation Method: Excavation ☒

Approx. Cubic Yard 373

(Check all appropriate sections)

Landfarmed ☒

Amount Landfarmed (cubic yds) 350

Other 23 cu yds overburden

Remediation Location:

Onsite ☒Offsite ☐

(i.e., landfarmed onsite, name and location of offsite facility)

Backfill Material Location:

General Description of Remedial Action:

Excavated contaminated soil to a pit size of 30' X 28' X 12' and landfarmed soil onsite within a bermed area at a depth of 6" to 12". Soil was aerated by disking/plowing until soil met regulatory levels.

Ground Water Encountered:

No ☒Yes ☐

Depth

Final Pit Closure Sampling:

Sample Location 5 pt. composite - bottom.

(if multiple samples, attach sample result and diagram of sample locations and depths.)

Sample depth 12'

Sample date 05/18/1999

Sample time 1:20:00 PM

Sample Results

Benzene (ppm) 0.19

Total BTEX (ppm) 4.59

Field headspace (ppm)

TPH (ppm) 39.00

Method 8015B

Vertical Extent (ft)

Risk Analysis form attached Yes ☐ No ☒

Ground Water Sample:

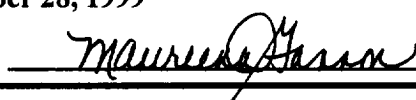
Yes ☐No ☒

(If yes, see attached Groundwater Site Summary Report)

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND MY BELIEF

DATE October 28, 1999

SIGNATURE

PRINTED NAME Maureen Gannon  
AND TITLE Project Manager

## Site Drawing

Section 18  
Sec 18 T31N R11W Unit F  
Burlington

# Excavation Drawing

30' x 28' x 12'

North Wall,  
Sample 10'  
10.2 ppm

Bottom Rock  
Sample 12'  
362 ppm

West Wall  
Sample 10'  
6.2 ppm

East Wall  
Sample 10'  
5.2 ppm

South Wall,  
Sample 10'  
4.4 ppm

Field headspace: 7.3 (walls)

OFF: (505) 325-5667



LAB: (505) 325-1556

**On Site Technologies, LTD.**

**Date:** 27-May-99

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**CLIENT:** PNM - Public Service Company of NM

**Project:** PNM Pit Remediation

**Lab Order:** 9905065

**CASE NARRATIVE**

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Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives.

OFF: (505) 325-5667



LAB: (505) 325-1556

**ANALYTICAL REPORT****Date:** 27-May-99

<b>Client:</b>	PNM - Public Service Company of NM	<b>Client Sample Info:</b>	Grenier 15
<b>Work Order:</b>	9905065	<b>Client Sample ID:</b>	9905181320; Bottom 5pt. Comp.
<b>Lab ID:</b>	9905065-06A	<b>Matrix:</b>	SOIL
<b>Project:</b>	PNM Pit Remediation	<b>Collection Date:</b>	5/18/99 1:20:00 PM
		<b>COC Record:</b>	7684

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DIESEL RANGE ORGANICS</b>		<b>SW8015B</b>				<b>Analyst: DC</b>
T/R Hydrocarbons: C10-C28	39	25		mg/Kg	1	5/24/99
<b>AROMATIC VOLATILES BY GC/PID</b>		<b>SW8021B</b>				<b>Analyst: DM</b>
Benzene	190	100		µg/Kg	100	5/19/99
Toluene	460	200		µg/Kg	100	5/19/99
Ethylbenzene	230	100		µg/Kg	100	5/19/99
m,p-Xylene	3500	200		µg/Kg	100	5/19/99
o-Xylene	210	100		µg/Kg	100	5/19/99

4590  
4.590 ppm

**Qualifiers:**

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

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OFF: (505) 325-5667



LAB: (505) 325-1556

## ANALYTICAL REPORT

Date: 27-May-99

<b>Client:</b>	PNM - Public Service Company of NM	<b>Client Sample Info:</b>	Grenier 15
<b>Work Order:</b>	9905065	<b>Client Sample ID:</b>	9905181315; Walls 4pt. Comp.
<b>Lab ID:</b>	9905065-05A	<b>Matrix:</b>	SOIL
<b>Project:</b>	PNM Pit Remediation	<b>Collection Date:</b>	5/18/99 1:15:00 PM
		<b>COC Record:</b>	7684

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DIESEL RANGE ORGANICS</b>		<b>SW8015B</b>				Analyst: DC
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	5/24/99

**Qualifiers:**

PQL - Practical Quantitation Limit  
ND - Not Detected at Practical Quantitation Limit  
J - Analyte detected below Practical Quantitation Limit  
B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
Surr: - Surrogate

1 of 1

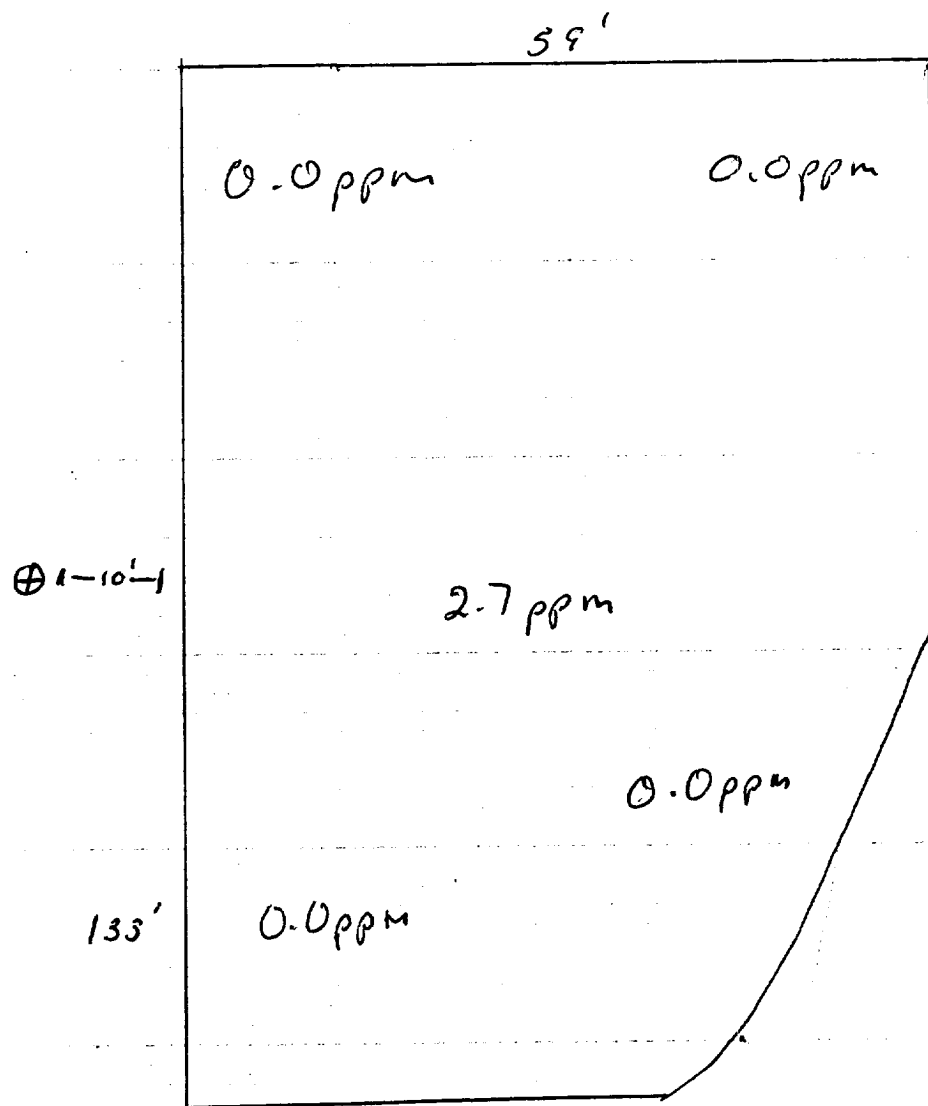
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Grenier #15  
Sec-18 T-31N R-11W ULF  
Barlingten

LAND FARM DRAWING

App 373 cu yds



2" f. 12" Depth  
Headspace 5.0 ppm  
Sample # 9907071110

Not to Scale



OFF: (505) 325-5667



LAB: (505) 325-1556

**On Site Technologies, LTD.**

**Date:** 22-Jul-99

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**CLIENT:** PNM - Public Service Company of NM

**Project:** Dusenbery, Grenier & Horton LF

**Lab Order:** 9907013

## **CASE NARRATIVE**

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Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives.

OFF: (505) 325-5667



LAB: (505) 325-1556

## ANALYTICAL REPORT

Date: 22-Jul-99

<b>Client:</b>	PNM - Public Service Company of NM	<b>Client Sample Info:</b>	Grenier 15 LF
<b>Work Order:</b>	9907013	<b>Client Sample ID:</b>	9907071110; 5pt Comp
<b>Lab ID:</b>	9907013-09A	<b>Matrix:</b>	SOIL
<b>Project:</b>	Dusenbery, Grenier & Horton LF	<b>Collection Date:</b>	7/7/99 11:10:00 AM
		<b>COC Record:</b>	7032

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DIESEL RANGE ORGANICS</b>		<b>SW8015B</b>				Analyst: DC
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	7/20/99

**Qualifiers:**

- PQL - Practical Quantitation Limit
- ND - Not Detected at Practical Quantitation Limit
- J - Analyte detected below Practical Quantitation Limit
- B - Analyte detected in the associated Method Blank

- S - Spike Recovery outside accepted recovery limits
- R - RPD outside accepted recovery limits
- E - Value above quantitation range
- Surr: - Surrogate

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