

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 #6A

Location: Unit D Sec 20 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 20 ' width 20 ' depth 3 '

(Attach diagram) Reference: wellhead ☒ other

Footage from reference: 90'

Direction from reference: 5 Degrees ☒ East North ☐  
of ☐ West South ☒

Depth to Ground Water: Less than 50 feet (20 points)  
50 feet to 99 feet (10 points)  
Greater than 100 feet (0 points) 0

(Vertical distance from contaminants to  
seasonal high water elevation of ground  
water)

Wellhead Protection Area: Yes (20 points)  
No (0 points) 0

(Less than 200 feet from a private  
domestic water source, or; less than 1,000  
feet from all other water sources)

Distance to Surface Water: Less than 200 feet (20 points)  
200 feet to 1,000 feet (10 points)  
Greater than 1,000 feet (0 points) 0

(Horizontal distance to perennial lakes,  
ponds, rivers, streams, creeks, irrigation  
canals and ditches)

RANKING SCORE (TOTAL POINTS): 0

Grenier #6A

Date Remediation Started: 05/25/1999

Date Completed: 05/25/1999

Remediation Method: Excavation ☒

Approx. Cubic Yard 140

(Check all appropriate sections)

Landfarmed ☒

Amount Landfarmed (cubic yds) 110

Other 30 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 21' X 20' X 9' 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

9'

Sample date

05/25/1999

Sample time

7:35:00 AM

Sample Results

Benzene (ppm) < 0.05

Total BTEX (ppm) 4.48

Field headspace (ppm)

TPH (ppm) < 25.00

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

*Maureen Gannon*

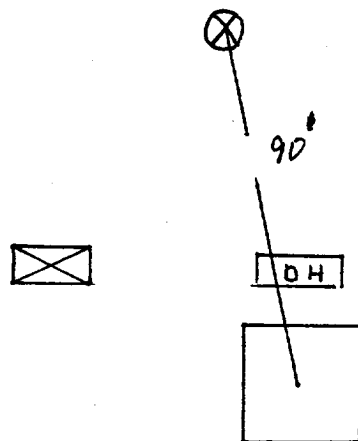
PRINTED NAME Maureen Gannon  
AND TITLE Project Manager

Grenier # 6A  
Burlington  
Sec. 20, 31 N, 11 W, 0

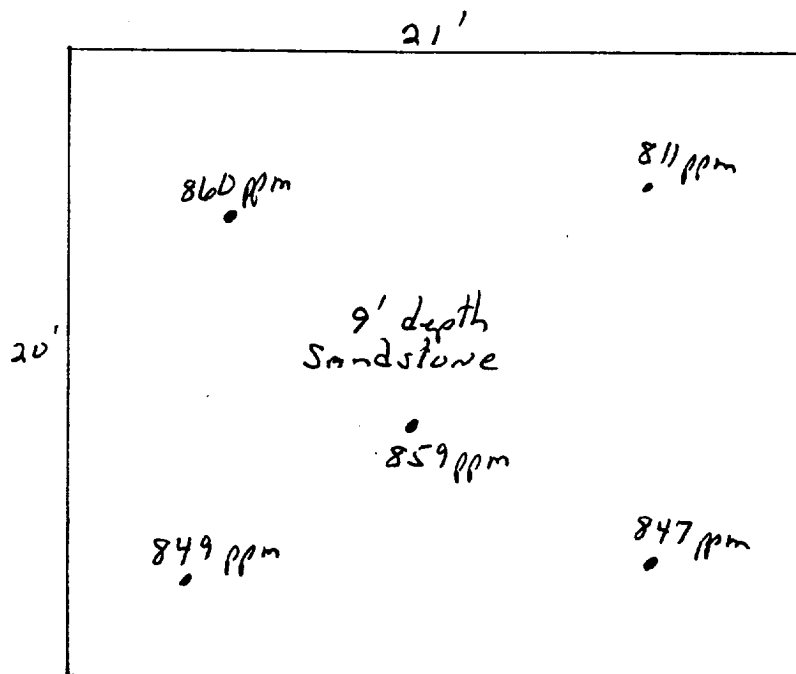
5/25/99

↑  
N

Site diagram:



End of excavation:



Field headspace: 16.8 ppm (walls)

not to scale

OFF: (505) 325-5667



LAB: (505) 325-1556

**On Site Technologies, LTD.**

**Date:** 08-Jun-99

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**CLIENT:** PNM - Public Service Company of NM  
**Project:** PNM Pit Remediation  
**Lab Order:** 9905085

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**CASE NARRATIVE**

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



GARY

LAB: (505) 325-1556

## ANALYTICAL REPORT

Date: 08-Jun-99

<b>Client:</b>	PNM - Public Service Company of NM	<b>Client Sample Info:</b>	Grenier #6A
<b>Work Order:</b>	9905085	<b>Client Sample ID:</b>	9905250735; Bottom @ 9ft. - 5 pt. composite
<b>Lab ID:</b>	9905085-01A	<b>Matrix:</b>	SOIL
<b>Project:</b>	PNM Pit Remediation	<b>Collection Date:</b>	5/25/99 7:35:00 AM
		<b>COC Record:</b>	7599

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	6/2/99
<b>AROMATIC VOLATILES BY GC/PID</b>		<b>SW8021B</b>				Analyst: DM
Benzene	ND	50		µg/Kg	50	5/27/99
Toluene	500	100		µg/Kg	50	5/27/99
Ethylbenzene	260	50		µg/Kg	50	5/27/99
m,p-Xylene	3000	100		µg/Kg	50	5/27/99
o-Xylene	720	50		µg/Kg	50	5/27/99

4480  
4.480 ppm

<b>Qualifiers:</b>	PQL - Practical Quantitation Limit	S - Spike Recovery outside accepted recovery limits
	ND - Not Detected at Practical Quantitation Limit	R - RPD outside accepted recovery limits
	J - Analyte detected below Practical Quantitation Limit	E - Value above quantitation range
	B - Analyte detected in the associated Method Blank	Surr: - Surrogate

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667



LAB: (505) 325-1556

## ANALYTICAL REPORT

Date: 08-Jun-99

<b>Client:</b>	PNM - Public Service Company of NM	<b>Client Sample Info:</b>	Grenier #6A
<b>Work Order:</b>	9905085	<b>Client Sample ID:</b>	9905250740; Walls @ 5ft.
<b>Lab ID:</b>	9905085-02A	<b>Matrix:</b>	SOIL
<b>Project:</b>	PNM Pit Remediation	<b>Collection Date:</b>	5/25/99 7:40:00 AM
		<b>COC Record:</b>	7599

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	6/2/99

**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

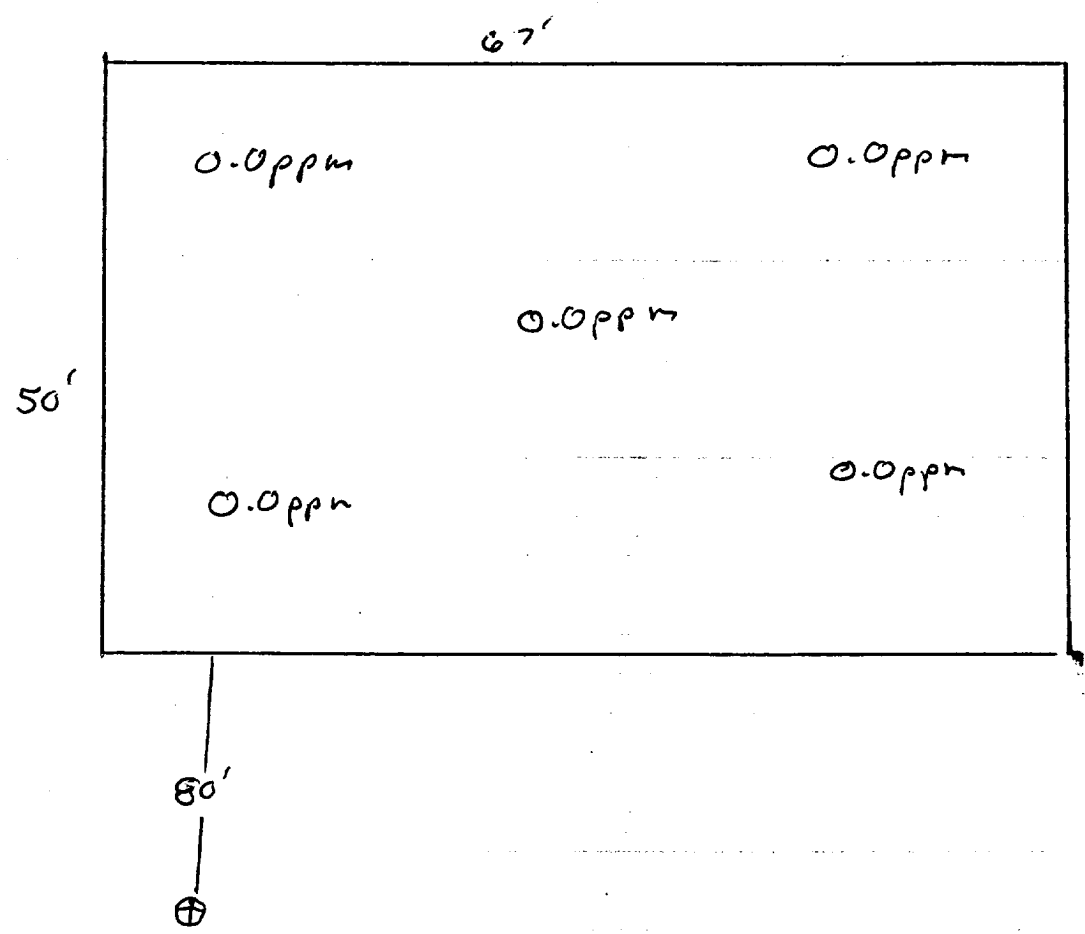
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• TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT •

Grenier #6A  
Sec 20 T-31N R-11W UL D  
Burlington

Landfarm Drawing

App 110 cu.yds



Headspace = 0.6ppm  
Sample # 9907120632

Not to Scale

OFF: (505) 325-5667



LAB: (505) 325-1556

**On Site Technologies, LTD.**

Date: 23-Jul-99

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<b>CLIENT:</b>	PNM - Public Service Company of NM
<b>Project:</b>	PNM Pit Remediation Landfarms
<b>Lab Order:</b>	9907027

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## CASE NARRATIVE

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: 23-Jul-99

<b>Client:</b>	PNM - Public Service Company of NM	<b>Client Sample Info:</b>	Grenier 6A LF
<b>Work Order:</b>	9907027	<b>Client Sample ID:</b>	9907120632; 5pt. Comp
<b>Lab ID:</b>	9907027-01A	<b>Matrix:</b>	SOIL
<b>Project:</b>	PNM Pit Remediation Landfarms	<b>Collection Date:</b>	7/12/99 6:32:00 AM
		<b>COC Record:</b>	7484

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	7/22/99

**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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