

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

OK  
RECEIVED  
NOV - 1 1999  
OIL CON. DIV.  
DIST. 3

<b>Operator:</b> PNM Gas Services ( Burlington )		<b>Telephone:</b> 324-3764	
<b>Address:</b> 603 W. Elm Street Farmington, NM 87401			
<b>Facility or Well Name:</b> East #9A			
<b>Location:</b>	Unit <u>D</u>	Sec <u>25</u>	T <u>31 N</u> R <u>12 W</u> County <u>San Juan</u>
<b>Pit Type:</b>	Separator <input type="checkbox"/>	Dehydrator <input checked="" type="checkbox"/>	Other <input type="checkbox"/>
<b>Land Type:</b>	BLM <input checked="" type="checkbox"/>	State <input type="checkbox"/>	Fee <input type="checkbox"/> Other <input type="checkbox"/>
<b>Pit Location:</b>	Pit dimensions: length <u>20</u> ' width <u>20</u> ' depth <u>3</u> '		
(Attach diagram)	Reference: wellhead <input checked="" type="checkbox"/> other <input type="checkbox"/>		
	Footage from reference: <u>75</u> '		
	Direction from reference: <u>90</u> Degrees <input checked="" type="checkbox"/> East <input type="checkbox"/> North <input type="checkbox"/>		
	of <input type="checkbox"/> West <input type="checkbox"/> South <input type="checkbox"/>		
<b>Depth to Ground Water:</b>	Less than 50 feet 50 feet to 99 feet Greater than 100 feet		(20 points) (10 points) ( 0 points) <u>0</u>
(Vertical distance from contaminants to seasonal high water elevation of ground water)			
<b>Wellhead Protection Area:</b>	Yes No		(20 points) ( 0 points) <u>0</u>
(Less than 200 feet from a private domestic water source, or, less than 1,000 feet from all other water sources)			
<b>Distance to Surface Water:</b>	Less than 200 feet 200 feet to 1,000 feet Greater than 1,000 feet		(20 points) (10 points) ( 0 points) <u>0</u>
(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)			
<b>RANKING SCORE (TOTAL POINTS) :</b>			<u>0</u>

East #9A

Date Remediation Started: 05/27/1999

Date Completed: 05/27/1999

Remediation Method:

Excavation ☒

Approx. Cubic Yard 266

(Check all appropriate sections)

Landfarmed ☒

Amount Landfarmed (cubic yds) 221

Other 45 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 20' X 18' X 20' and landfirmed 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

20'

Sample date

05/27/1999

Sample time

4:00:00 PM

Sample Results

Benzene (ppm) < 0.025

Total BTEX (ppm) 0.802

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*

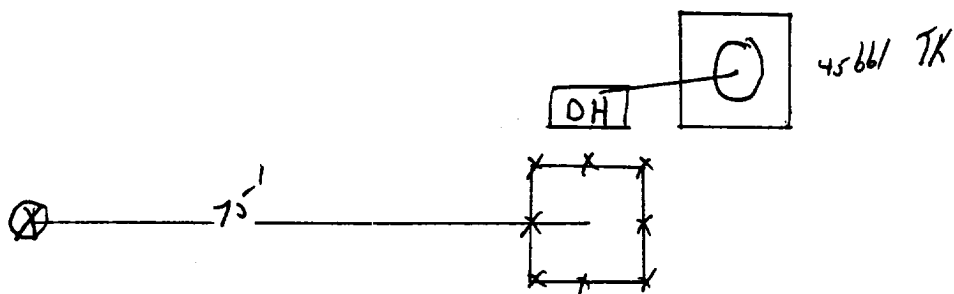
PRINTED NAME Maureen Gannon  
AND TITLE Project Manager

East #9A  
Burlington  
Sec. 25, 31N, 12W, 0

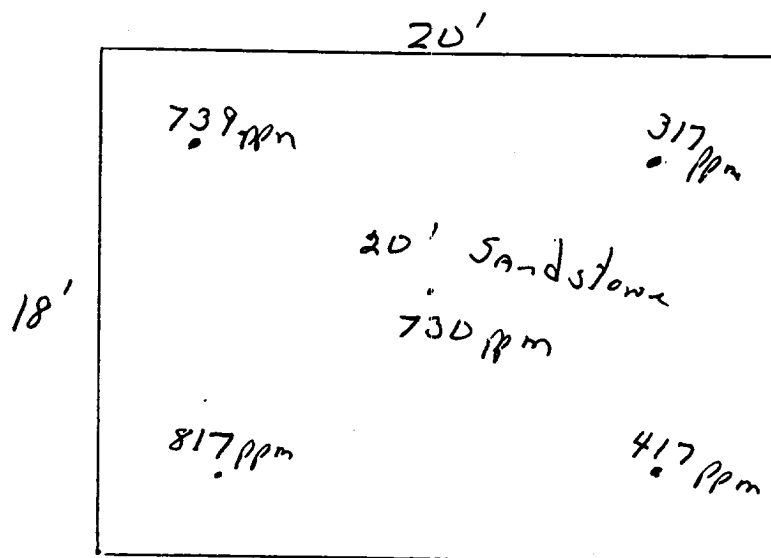
5/27/99

Site diagram:

↑  
N



End of excavation:



Field Headspace: 0 ppm (walls)

OFF: (505) 325-5667



LAB: (505) 325-1556

**On Site Technologies, LTD.**

**Date:** 14-Jun-99

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

**Project:** PNM Pit Remediation

**Lab Order:** 9905100

## **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



LC

LAB: (505) 325-1556

## ANALYTICAL REPORT

Date: 14-Jun-99

<b>Client:</b>	PNM - Public Service Company of NM	<b>Client Sample Info:</b>	East #9A
<b>Work Order:</b>	9905100	<b>Client Sample ID:</b>	9905271600; Bottom @ 20ft. - 5 pt. composite
<b>Lab ID:</b>	9905100-07A	<b>Matrix:</b>	SOIL
<b>Project:</b>	PNM Pit Remediation	<b>Collection Date:</b>	5/27/99 4:00:00 PM
		<b>COC Record:</b>	7601

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DIESEL RANGE ORGANICS</b>						
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	Analyst: DC 6/10/99
<b>AROMATIC VOLATILES BY GC/PID</b>						
						Analyst: DC
Benzene	ND	25		µg/Kg	25	6/9/99
Toluene	110	50		µg/Kg	25	6/9/99
Ethylbenzene	52	25		µg/Kg	25	6/9/99
m,p-Xylene	500	50		µg/Kg	25	6/9/99
o-Xylene	140	25		µg/Kg	25	6/9/99

802  
802 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: 14-Jun-99

<b>Client:</b>	PNM - Public Service Company of NM	<b>Client Sample Info:</b>	East #9A
<b>Work Order:</b>	9905100	<b>Client Sample ID:</b>	9905271605; Walls @ 15ft.
<b>Lab ID:</b>	9905100-08A	<b>Matrix:</b>	SOIL
<b>Project:</b>	PNM Pit Remediation	<b>Collection Date:</b>	5/27/99 4:05:00 PM
		<b>COC Record:</b>	7601

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DIESEL RANGE ORGANICS</b>		<b>SW8015B</b>				
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	Analyst: DC 6/7/99

**Qualifiers:**

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S - Spike Recovery outside accepted recovery limits

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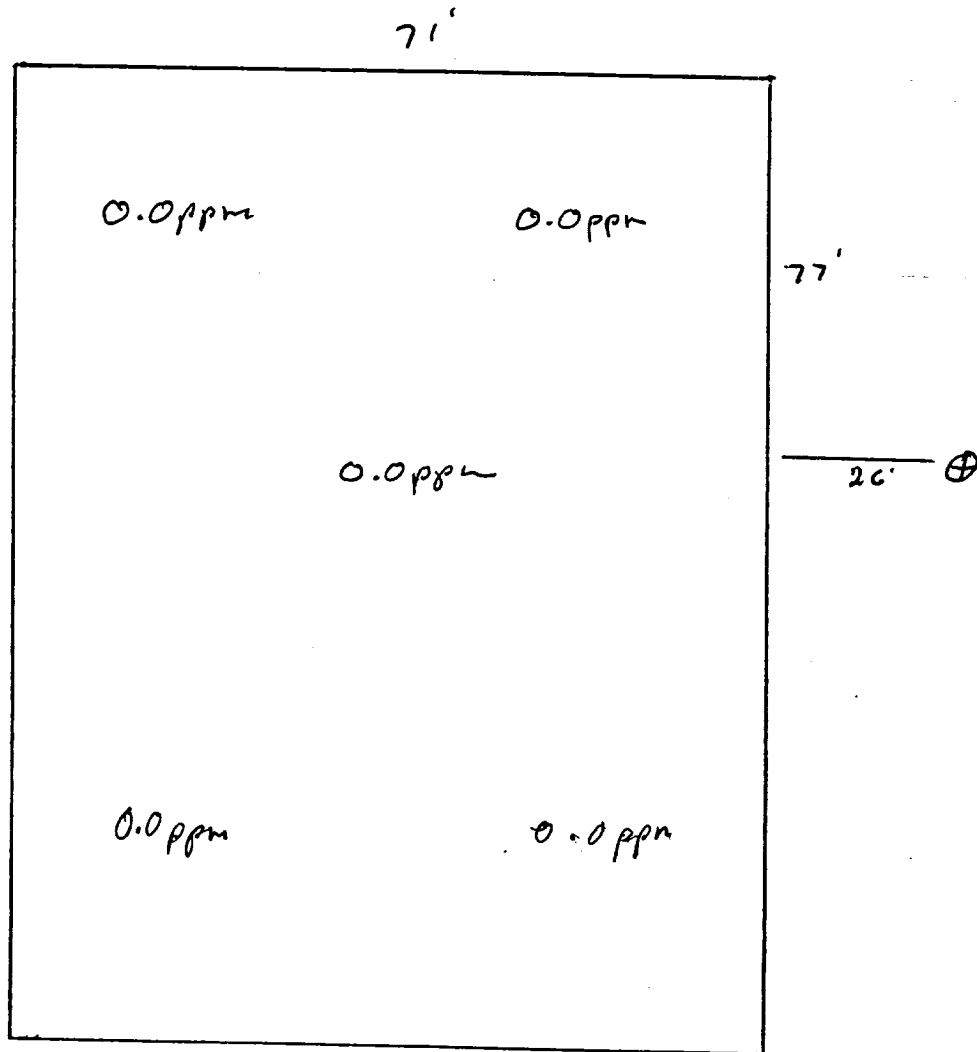
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EAST # 9A  
SEC-25 T-31N R-12W UL-D  
Burlington

# Land farm Drawing

App 221 cu yds



2" to 12" Depth  
Headspace 1.8 ppm  
Sample #990712 0932

Not to Scale

OFF: (505) 325-5667



LAB: (505) 325-1556

**On Site Technologies, LTD.**

**Date:** 23-Jul-99

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**CLIENT:** PNM - Public Service Company of NM  
**Project:** PNM Pit Remediation Landfarms  
**Lab Order:** 9907027

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## **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: 23-Jul-99

<b>Client:</b>	PNM - Public Service Company of NM	<b>Client Sample Info:</b>	East 9A LF
<b>Work Order:</b>	9907027	<b>Client Sample ID:</b>	9907120932; 5pt. Comp
<b>Lab ID:</b>	9907027-07A	<b>Matrix:</b>	SOIL
<b>Project:</b>	PNM Pit Remediation Landfarms	<b>Collection Date:</b>	7/12/99 9:32:00 AM
		<b>COC Record:</b>	7484

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