

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

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

PIT REMEDIATION AND CLOSURE REPORT

Operator: PNM Gas Services (Burlington)		Telephone: 324-3764	
Address: 603 W. Elm Street Farmington, NM 87401			
Facility or Well Name: Richardson #2A			
Location:	Unit K	Sec 15	T 31 N R 12 W County San Juan
Pit Type:	Separator <input type="checkbox"/>	Dehydrator <input checked="" type="checkbox"/>	Other
Land Type:	BLM <input checked="" type="checkbox"/>	State <input type="checkbox"/>	Fee <input type="checkbox"/> Other
Pit Location:	Pit dimensions: length 20 ' width 20 ' depth 3 '		
(Attach diagram)	Reference: wellhead <input checked="" type="checkbox"/> other		
	Footage from reference: 90'		
	Direction from reference: 80 Degrees <input checked="" type="checkbox"/> East North <input checked="" type="checkbox"/> of <input type="checkbox"/> West South <input type="checkbox"/>		
Depth to Ground Water:			
(Vertical distance from contaminants to seasonal high water elevation of ground water)		Less than 50 feet (20 points)	
		50 feet to 99 feet (10 points)	
		Greater than 100 feet (0 points)	0
Wellhead Protection Area:			
(Less than 200 feet from a private domestic water source, or; less than 1,000 feet from all other water sources)		Yes (20 points)	
		No (0 points)	0
Distance to Surface Water:			
(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)		Less than 200 feet (20 points)	
		200 feet to 1,000 feet (10 points)	
		Greater than 1,000 feet (0 points)	0
RANKING SCORE (TOTAL POINTS) :			0

Richardson #2A

Date Remediation Started: 06/08/1999

Date Completed: 06/08/1999

Remediation Method: Excavation ☒

Approx. Cubic Yard 306

(Check all appropriate sections)

Landfarmed ☒

Amount Landfarmed (cubic yds) 260

Other 46 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 18' X 23' X 20' and landfarmed soil onsite within a bermed area at 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

06/08/1999

Sample time

10:00:00 AM

Sample Results

Benzene (ppm)

0.42

Total BTEX (ppm)

5.68

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 January 24, 2000

SIGNATURE

Maureen Gannon

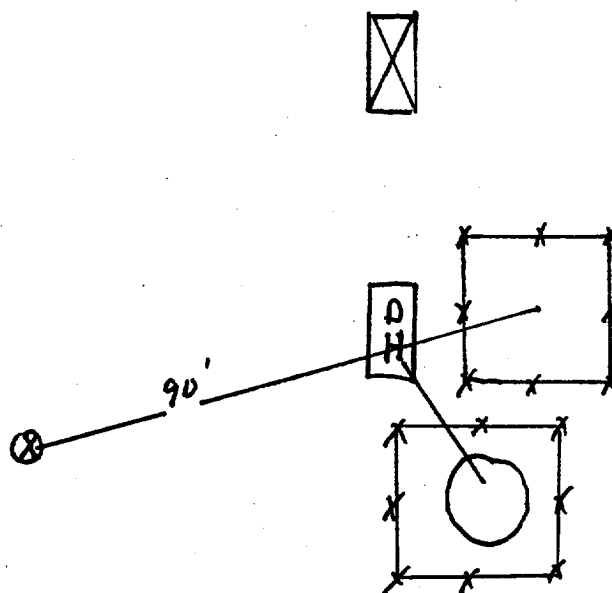
PRINTED NAME Maureen Gannon
AND TITLE Project Manager

Richardson #2A
Burlington
Sec. 15, 31 N, 12 W, R

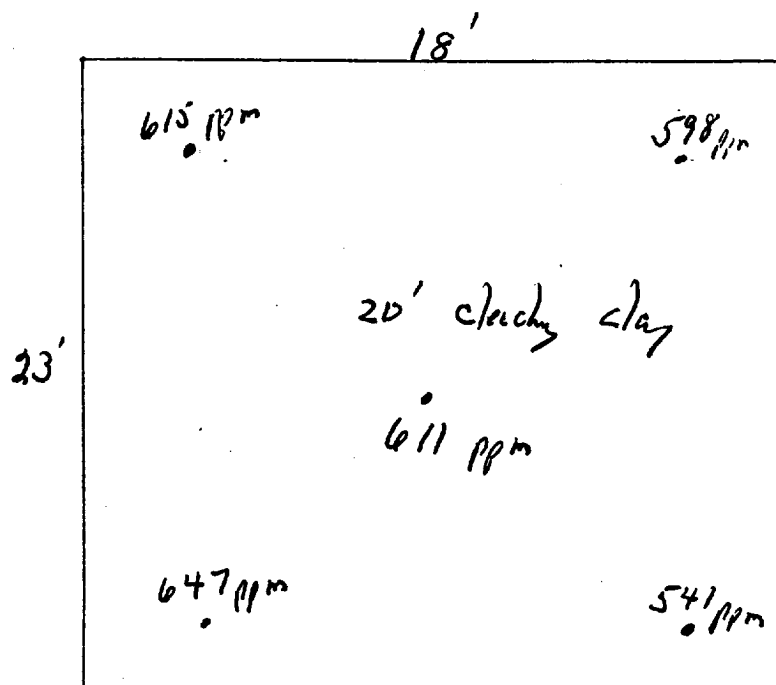
6-8-99

↑
N

Site Diagram:



End of excavation:



OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 21-Jun-99

CLIENT: PNM - Public Service Company of NM

Project: PNM Pit Remediation

Lab Order: 9906025

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: 21-Jun-99

Client:	PNM - Public Service Company of NM	Client Sample Info:	Richardson #2A
Work Order:	9906025	Client Sample ID:	9906081000; 20ft.
Lab ID:	9906025-03A	Matrix:	SOIL
Project:	PNM Pit Remediation	Collection Date:	6/8/99 10:00:00 AM
		COC Record:	7606

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015B				Analyst: DC
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	6/17/99
AROMATIC VOLATILES BY GC/PID		SW8021B				Analyst: DC
Benzene	420	50		µg/Kg	50	6/14/99
Toluene	1700	100		µg/Kg	50	6/14/99
Ethylbenzene	250	50		µg/Kg	50	6/14/99
m,p-Xylene	2700	100		µg/Kg	50	6/14/99
o-Xylene	610	50		µg/Kg	50	6/14/99

5680
5.680 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: 21-Jun-99

Client:	PNM - Public Service Company of NM	Client Sample Info:	Richardson #2A
Work Order:	9906025	Client Sample ID:	9906081005; 15ft.
Lab ID:	9906025-04A	Matrix:	SOIL
Project:	PNM Pit Remediation	Collection Date:	6/8/99 10:05:00 AM
		COC Record:	7606

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS						
		SW8015B				Analyst: DC
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	6/17/99
AROMATIC VOLATILES BY GC/PID						
		SW8021B				Analyst: DC
Benzene	4.6	1		µg/Kg	1	6/11/99
Toluene	ND	2		µg/Kg	1	6/11/99
Ethylbenzene	ND	1		µg/Kg	1	6/11/99
m,p-Xylene	3.9	2		µg/Kg	1	6/11/99
o-Xylene	7.9	1		µg/Kg	1	6/11/99

16.4
0.0164 ppm

Qualifiers:	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

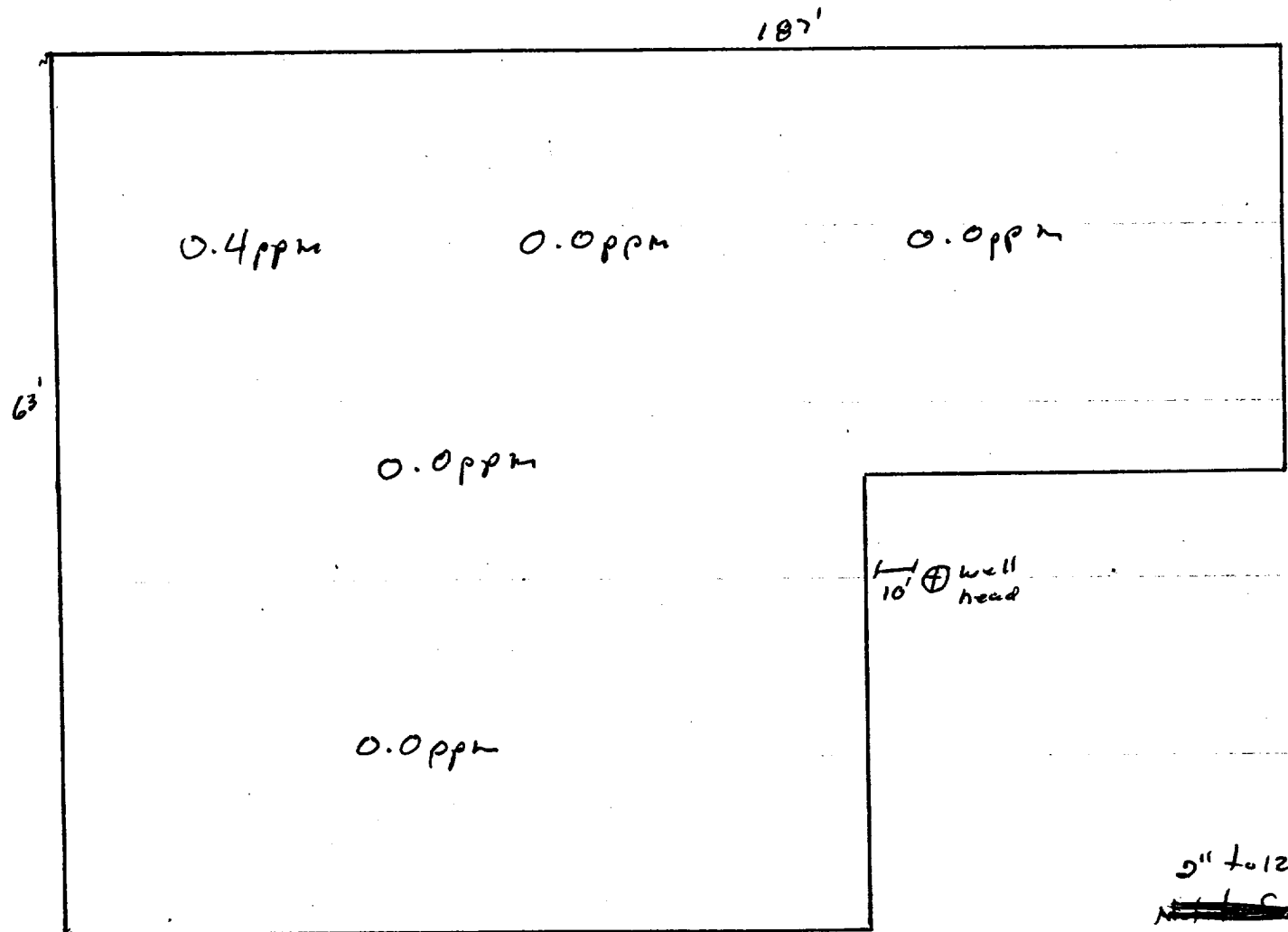
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Richardson #2A
Sec-15 T-31N R-12W UL-K
Burlington

Landfarm Drawing

App 260 cu. yds



0" to 12" Depth
~~Not to Scale~~
Headspace 5.7 ppm
Sample # 9907130934

Not to Scale

OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 28-Jul-99

CLIENT: PNM - Public Service Company of NM
Project: PNM Pit Remediation Landfarms
Lab Order: 9907030

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: 28-Jul-99

Client:	PNM - Public Service Company of NM	Client Sample Info:	Richardson 2A LF
Work Order:	9907030	Client Sample ID:	9907130934; 5pt. Comp
Lab ID:	9907030-11A	Matrix:	SOIL
Project:	PNM Pit Remediation Landfarms	Collection Date:	7/13/99 9:34:00 AM
		COC Record:	7489

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015B				Analyst: DC
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	7/26/99

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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