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

State of New Mexico
Energy, Minerals and Natural Resources Department

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

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

District III 1000 Rio Brazos Rd, Aztec, NM 87410

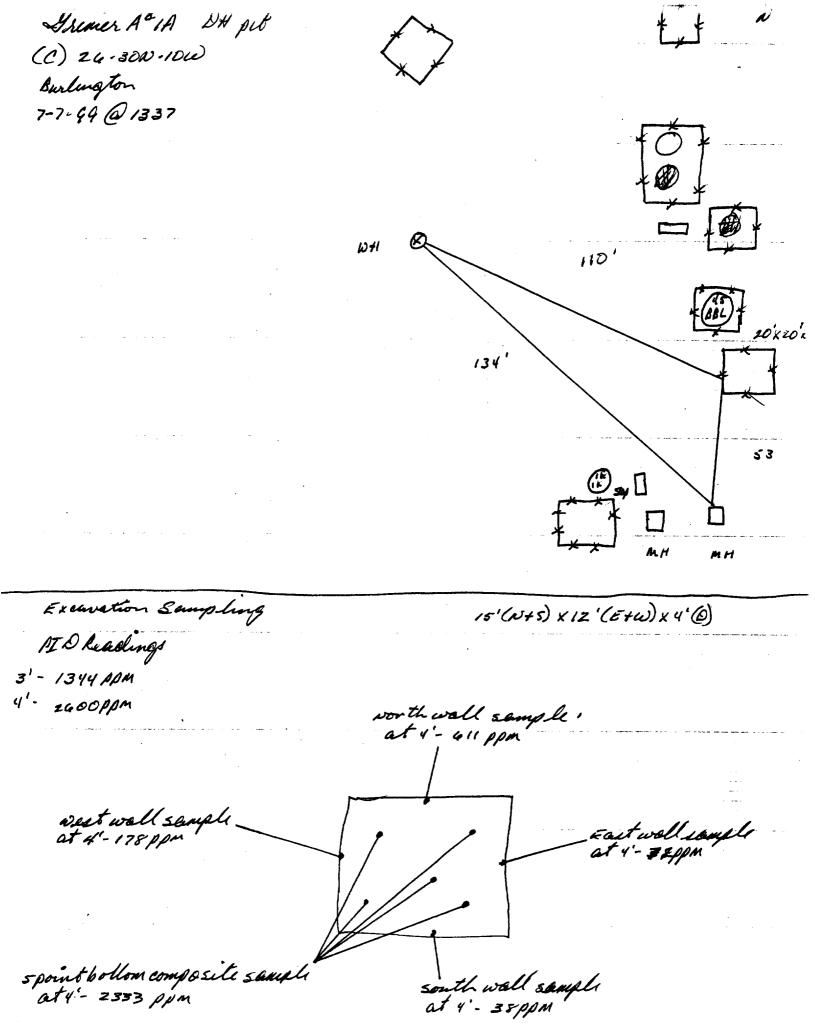
OIL CONSERVATION DIVISION

2040 South Pacheco Street Santa Fe, New Mexico 87505

PIT REMEDIATION AND CLOSURE REPORT

Operator:	PNM Gas Services (Burlington) Telephone:	324-3764			
Address:	603 W. Elm Street Farmington, NM 87	401				
Facility or Well Name: Grenier A #1A Dehy						
Location:	Unit C Sec	26 T 30N I	R 10 W County	San Juan		
Pit Type:	Separator Dehydra	tor 🗹 Othe	r			
Land Type:	BLM State	Fee Othe	r			
Pit Location:	Pit dimensions: length	12 ' width	12 depth	2 '		
(Attach diagra	n) Reference: wellhead	other _				
	Footage from reference:	114'				
	Direction from reference: 45	Degrees <u></u> ✓	East North	<u> </u>		
			of West South	<u> </u>		
Depth to Grou (Vertical distance from a seasonal high water elev water	ontaminants to	Less than 50 feet 50 feet to 99 feet Greater than 100 feet		(20 points) (10 points) (0 points) 10		
Wellhead Pro (Less than 200 feet from domestic water source, of feet from all other water	a private r; less than 1,000	Yes No		(20 points) (0 points) 0		
Distance to Su	rface Water:	Less than 200 feet 200 feet to 1,000 feet Greater than 1,000 feet		(20 points) (10 points) (0 points) 0		
ponds, rivers, streams, c canals and ditches		RANKING SCORE	(TOTAL POINTS)			

Grenier A #1A Dehy		
Date Remediation Started: 07/07/1999		Date Completed: 07/07/1999
Remediation Method:	Excavation X	Approx. Cubic Yard 27
(Check all appropriate	Landfarmed x	Amount Landfarmed (cubic yds)
sections)	Other	
Remediation Location:	Onsite X	Offsite
(i.e., landfarmed onsite, name and location of offsite facility)		
Backfill Material Location:		
General Description of Rem	edial Action:	
Excavated contaminated soil 12". Soil was aerated by disk	to a pit size of 15' X 12' X 4' and landfam ing/plowing until soil met regulatory levels	ned soil onsite within a bermed area at a depth of 6" to
*** Sandstone encountered a	at 4'. See attached risk analysis form.	
Ground Water Encountered	i: No Yes	Depth
Final Pit Closure Sampling:	Sample Location 5 pt. composite -	bottom.
(if multiple samples, attach sample result and diagram of	Sample depth 4'	
sample locations and depths.)	Sample date 07/07/1999	Sample time 2:25:00 PM
	Sample Results	
	Benzene (ppm)	34 ***
•	Total BTEX (ppm)	525 ***
	Field headspace (ppm)	
	TPH (ppm) 950.00	Method 8015B
Vertical Extent (ft)	Risk A	nalysis form attached Yes No No
Ground Water Sample:	Yes No	(If yes, see attached Groundwater Site Summary Report)
I HEREBY CERTIFY THA' KNOWLEDGE AND MY B	T THE INFORMATION ABOVE IS TRUELIEF	JE AND COMPLETE TO THE BEST OF MY
DATE January 24, 200 SIGNATURE MAU	euglann	PRINTED NAME Maureen Gannon AND TITLE Project Manager



Not to seale

LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 22-Jul-99

CLIENT:

PNM - Public Service Company of NM

Project:

PNM Pit Remediation

Lab Order:

9907014

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.



Ray

LAB: (505) 325-1556

Date: 22-Jul-99

ANALYTICAL REPORT

Client:

PNM - Public Service Company of NM

Work Order:

9907014

Lab ID:

9907014-07A

Matrix: SOIL

Project:

PNM Pit Remediation

Client Sample Info: Grenier A1A DH

Client Sample ID: 9907071425; 5pt bottom Comp

Collection Date: 7/7/99 2:25:00 PM

COC Record: 7645

Parameter	Result	PQL	Qual Units	DF	Date Analyzed
DIESEL RANGE ORGANICS	SW8015B				Analyst: DC
T/R Hydrocarbons: C10-C28	950	25	mg/Kg	1	7/20/99
AROMATIC VOLATILES BY GC/PID	SI	V8021B			Analyst: DC
Benzene	34000	2500	μg/Kg	2500	7/9/99
Toluene	250000	5000	μg/Kg	2500	7/9/99
Ethylbenzene	23000	2500	μg/Kg	2500	7/9/99
m,p-Xylene	180000	5000	μg/Kg	2500	7/9/99
o-Xylene	38000	2500	μg/Kg	2500	7/9/99

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



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 22-Jul-99

Client:

PNM - Public Service Company of NM

Work Order:

9907014

9907014-08A

2307014

Matrix: SOIL

Lab ID: Project:

PNM Pit Remediation

Client Sample Info: Grenier A1A DH

Client Sample ID: 9907071430; 4 Wall Comp

Collection Date: 7/7/99 2:30:00 PM

COC Record: 7645

Parameter	Result	PQL	Qual Units	DF	Date Analyzed
DIESEL RANGE ORGANICS	sv	V8015B			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

1 of 1

Sec. 26 T30N RIOW Unit (Burlington LANdfarm Drawing App 26.66 cu.yds 15.3ppm ્ઝુ , 7.2 ppm 30.4ppm 53.8ppn 9.4ppm

> 2" to 12" Depth Headspace 62-7 ppm Sample# 9907141445



LAB: (505) 325-1556

On Site Technologies, LTD.

CLIENT:

PNM - Public Service Company of NM

Project:

PNM Pit Remediation Landfarms

Lab Order:

9907036

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.



LAB: (505) 325-1556

Date: 30-Jul-99

ANALYTICAL REPORT

Client:

PNM - Public Service Company of NM

Work Order:

9907036

Lab ID:

9907036-07A

Matrix: SOIL

Project:

PNM Pit Remediation Landfarms

Client Sample Info: Grenier A-1A DH LF

Client Sample ID: 9907141445; 5pt Comp

Collection Date: 7/14/99 2:45:00 PM

COC Record: 7491

Parameter	Result	PQL	Qual Units	DF	Date Analyzed
DIESEL RANGE ORGANICS	SV	V8015B			Analyst: DC
T/R Hydrocarbons: C10-C28	460	25	mg/Kg	1	7/29/99

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



Well Name:

Well Legals:

Pit Type:

Horizontal Distance to Surface Water:

Groundwater Depth:

Grenier A #1A DH Sec 26, T30N, R10W, Unit C Dehydrator Greater than 1,000 feet 50 feet to 100 feet

RISK ANALYSIS

PNM requests closure of their former pit on the Grenier A #1A DH well site using a limited risk analysis based on the following conditions:

- Groundwater is estimated to be at a depth of 71 feet based upon the elevation of the site and the elevation of the nearest "listed" or "named" wash. (Reference: Turley, NM series 7.5 minute topographic map.)
- 2. PNM excavated 27 cubic yards of soil from the former pit. Source removal minimizes the possibility of surface water contamination.
- 3. Sandstone was encountered at 4 feet below ground surface. Bedrock/sandstone provides a barrier between remaining contamination and groundwater. Vertical migration through bedrock or sandstone to groundwater is unlikely.
- 4. PNM excavated and performed remediation to the maximum depth and horizontal extent practicable.

PNM believes that their former pit on the Grenier A #1A DH well site poses minimal threat to groundwater, human health and the environment based upon our past experience in excavating over 1,000 pits.