District f 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

P.O. Drawer DD, Artesia, NM 88221

District III 1000 Rio Brazos Rd, Aztec, NM 87410

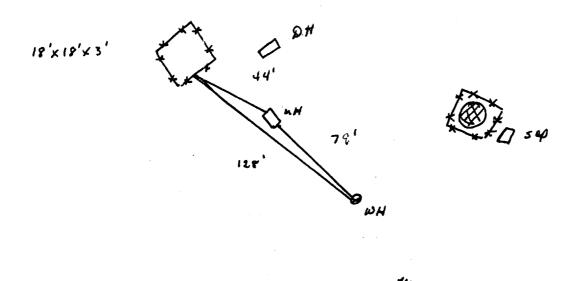
OIL CONSERVATION DIVISION

2040 South Pacheco Street Santa Fe, New Mexico 87505

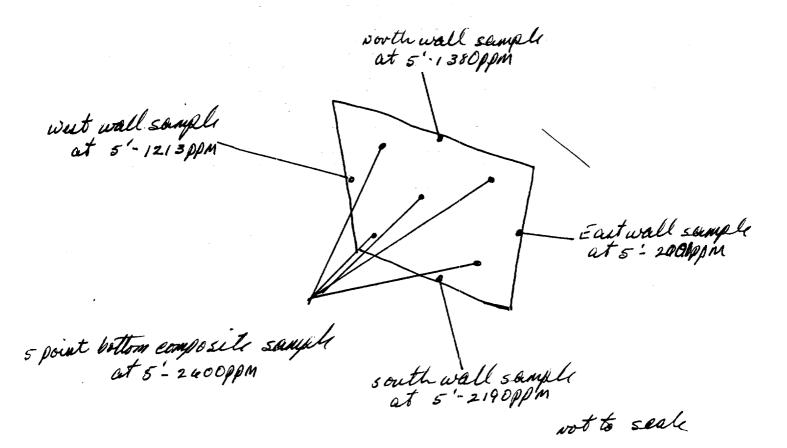
PIT REMEDIATION AND CLOSURE REPORT

Operator:	PNM Gas Services (Amoco) Telephone: 324-3764	
Address:	603 W. Elm Street Farmington, N	NM 87401	_
Facility or W	ell Name: Pritchard #4A		_
Location:	Unit F S	ec 31 T 29N R 8W County San Juan	-
Pit Type:	Separator D	ehydrator Other	-
Land Type:	BLM State	Fee Other	-
Pit Location:	Pit dimensions: len	gth 18 width 18 depth 3	
(Attach diagram	m) Reference: wellhe	ead 🔽 other	
	Footage from reference:	125'	
	Direction from reference:	22 Degrees East North 🗹	
İ			
		of ✓ West South	
Depth to Gro	A Company of the Comp		0
_	contaminants 10	West South Less than 50 feet (20 points) 50 feet to 99 feet (10 points)	0
(Vertical distance from seasonal high water elev water Wellhead Pro	otection Area:	West South Less than 50 feet (20 points) 50 feet to 99 feet (10 points) Greater than 100 feet (0 points) Yes (20 points) No (20 points)	0
(Vertical distance from seasonal high water election water Wellhead Pro	contaminants 10 vation of ground Detection Area: m a private or, less than 1,000 er sources)	Less than 50 feet 50 feet to 99 feet Greater than 100 feet Yes No Yes (20 points) (10 points) (0 points) (10 points)	
(Vertical distance from seasonal high water elevanter Wellhead Pro (Less than 200 feet from domestic water source, feet from all other water	contaminants to vation of ground Direction Area: In a private or, less than 1,000 er sources) Gurface Water:	Less than 50 feet 50 feet to 99 feet Greater than 100 feet Yes No (20 points) (10 points) (0 points) (20 points) (10 points)	

Pritchard #4A			Data Commisted	
Date Remediation Started:	06/30/19	999	Date Completed:	06/30/1999
Remediation Method:	Excavation	x	Approx. Cubic Yard	44
(Check all appropriate	Landfarmed	x	Amount Landfarmed (cub	pic yds) 44
sections)	Other			
Remediation Location: (i.e., landfarmed onsite, name and	Onsite X	ζ	Offsite	
location of offsite facility)				
Backfill Material Location:	·			
General Description of Ren	nedial Action:			
Excavated contaminated soil 6" to 12". Soil was aerated b	il to a pit size of 16	i.5' X 14.5' X 5' and la	indfarmed soil onsite wihtin a be	rmed area at a depth of
*** Sandstone encountered				
Salustone endantered				
Ground Water Encountered	ed: No	<u> </u>	/es Dep	oth
Final Pit Closure Sampling:	Sample Location	n 5 pt. composi	te - bottom.	
(if multiple samples, attach sample result and diagram of sample locations and depths.)	Sample depth	5'		
sample locations and depuis.)	Sample date	06/30/1999	Sample time	11:10:00 AM
	Sample Results		•	
	Benzen	e (ppm)	3.6	
,	Total B	STEX (ppm)	130.4***	
	Field he	eadspace (ppm)		
	TPH (ppm)	560.00	Method80	15B
Vertical Extent (ft)		Ris	k Analysis form attached Yes	No
Ground Water Sample:	Yes	No	(If yes, see attached Summary Report)	Groundwater Site
I HEREBY CERTIFY TH. KNOWLEDGE AND MY		1ATION ABOVE IS	TRUE AND COMPLETE TO	THE BEST OF MY
DATE January 24, 2 SIGNATURE	000 Musika Mana	an)	PRINTED NAME Mau AND TITLE Proj	reen Gannon ect Manager



Ex cavation Sampling PID readings 3'- 2789 PPM 5'- 2539 PPM 14.5'(N+5) X 14.5'(E+W) X 5'(D)





LAB: (505) 325-1556

On Site Technologies, LTD.

CLIENT:

PNM - Public Service Company of NM

Project:

PNM Pit Remediation

Lab Order:

9907001

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: 15-Jul-99

ANALYTICAL REPORT

Client:

PNM - Public Service Company of NM

Work Order:

9907001

Lab ID:

9907001-03A

Matrix: SOIL

Project:

PNM Pit Remediation

Client Sample Info: Pritchard 4A

Client Sample ID: 9906301110; 5pt. Bottom Comp

Collection Date: 6/30/99 11:10:00 AM

COC Record: 7642

Parameter	Result	PQL (Qual Units	DF	Date Analyzed
DIESEL RANGE ORGANICS	SW8015B			Analyst: DC	
T/R Hydrocarbons: C10-C28	560	25	mg/Kg	1	7/12/99
AROMATIC VOLATILES BY GC/PID	SW8021B			Analyst: DM	
Benzene	3600	2500	μg/K g	2500	7/1/99
Toluene	37000	5000	μg/Kg	2500	7/1/99
Ethylbenzene	6800	2500	µg/Kg	2500	7/1/99
m,p-Xylene	67000	5000	μg/Kg	2500	7/1/99
o-Xylene	16000	2500	μg/Kg	2500	7/1/99

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

Date: 15-Jul-99

ANALYTICAL REPORT

Client:

PNM - Public Service Company of NM

Work Order:

9907001

9907001 9907001-04A

Matrix: SOIL

Lab ID: Project:

PNM Pit Remediation

Client Sample Info: Pritchard 4A

Client Sample ID: 9906301115; 4pt. Wall Comp

Collection Date: 6/30/99 11:15:00 AM

COC Record: 7642

Parameter	Result	PQL	Qual Units	DF	Date Analyzed
DIESEL RANGE ORGANICS	SW8015B			Analyst: DC	
T/R Hydrocarbons: C10-C28	340	25	mg/Kg	1	7/12/99
AROMATIC VOLATILES BY GC/PID	SW8021B			Analyst: DM	
Benzene	350	250	μg/Kg	250	7/1/99
Toluene	5300	500	μg/Kg	250	7/1/99
Ethylbenzene	2300	250	μg/Kg	250	7/1/99
m,p-Xylene	30000	500	μg/Kg	250	7/1/99
o-Xylene	7200	250	μg/Kg	250	7/1/99
	45150				
	45.15	mag			

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

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S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

1 of 1

Yritchard 4H Sec 31 Tagn Row ULF Amoco

Landfarm Drawing

App 44.30 cu. y ds

1.3ppm 42' 1.8ppn 5.7 ppm 38' 2" to 12" Depth Headspace 4.2ppm Samplet 9908061621



LAB: (505) 325-1556

On Site Technologies, LTD.

CLIENT:

PNM - Public Service Company of NM

Project:

Pritchard 4A Landfarm

Lab Order:

9908019

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

ANALYTICAL REPORT

Date: 11-Aug-99

Client:

PNM - Public Service Company of NM

Work Order:

9908019

9908019-01A

Matrix: SOIL

Lab ID: Project:

Pritchard 4A Landfarm

Client Sample Info: Pritchard 4A LF

Client Sample ID: 9908061621; 5pt. Composite

Collection Date: 08/06/1999 4:21:00 PM

COC Record: 7804

Parameter	Result	PQL	Qual Units	DF	Date Analyzed
DIESEL RANGE ORGANICS T/R Hydrocarbons: C10-C28	SV 28	V8015B 25	mg/Kg	1	Analyst: DC 08/10/1999

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:

Pritchard #4A
Sec 31, T29N, R8W, Unit F
Dehydrator
Greater than 1,000 feet
Greater than 100 feet

RISK ANALYSIS

PNM requests closure of their former pit on the Pritchard #4A well site using a limited risk analysis based on the following conditions:

- 1. Groundwater is estimated to be at a depth of 361 feet based upon the elevation of the site and the elevation of the nearest "listed" or "named" wash. (Reference: Cutter Canyon, NM series 7.5 minute topographic map.)
- 2. PNM excavated 44 cubic yards of soil from the former pit. Subsurface lateral contamination has been remediated (see attached map and analytical results for the side wall profiles). Source removal minimizes the possibility of surface water contamination.
- 3. Sandstone was encountered at 5 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 Pritchard #4A well site poses minimal threat to groundwater, human health and the environment based upon our past experience in excavating over 1,000 pits.