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 1 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

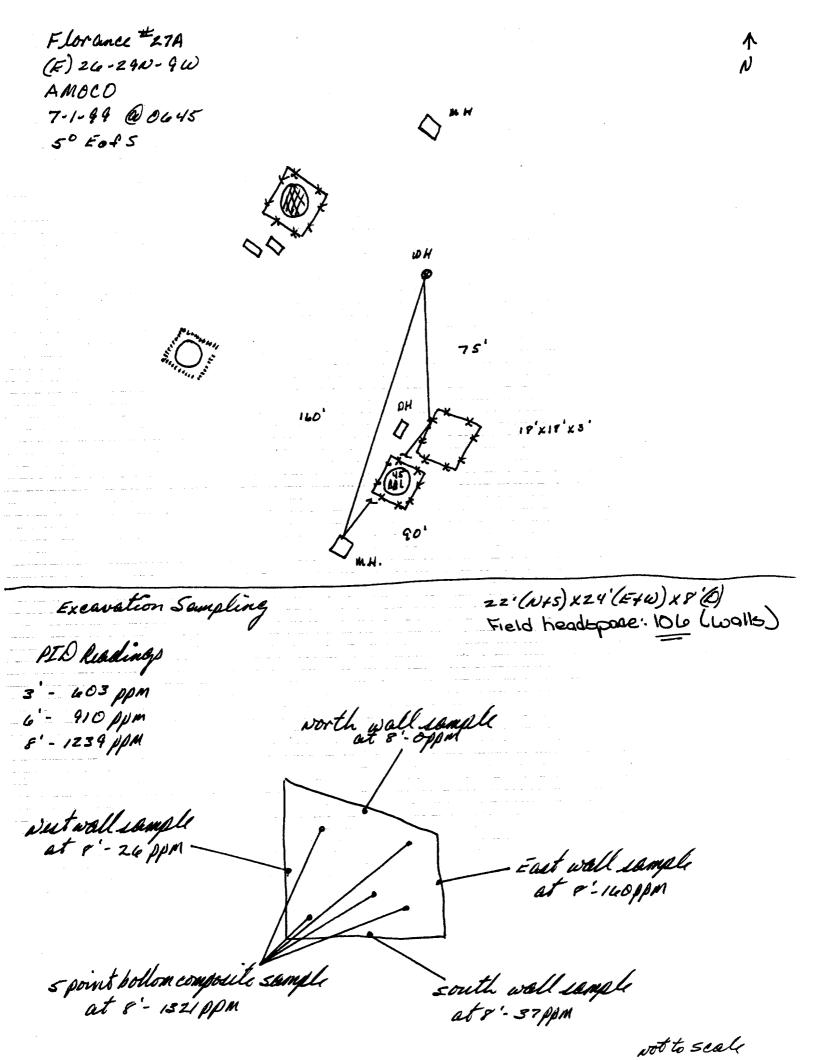
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PIT REMEDIATION AND CLOSURE REPORT

OIL CON. DIV.

Operator:	PN	M Gas Services (Am	осо) T	elephone:	324-3764	, S. e debare .	*P \$50 years	
Address: 603 W. Elm Street Farmington, NM 87401									
Facility or W	eli Name:	Florance #27A							
Location:	Unit	E	Sec2	<u>6</u> T _	29 N R	<u>9W</u>	County	San Juan	-
Pit Type:	Separ	rator	Dehydrato	or 🔽	Other	_		·	
Land Type:	BLM	State _	<u></u>	Fee	Other	• •			
Pit Location:		Pit dimensions:	length	18 '	width	18 '	depth	3 '	
(Attach diagra	m)	Reference: we	ellhead 👱		other _				
		Footage from reference	ce:	75'					_
		Direction from refere	nce: <u>5</u>	Degrees	<u> </u>	East	North		
					·	West	of South	<u>▼</u>	
Depth to Gro (Vertical distance from seasonal high water eld	n contaminants t	· ·			an 50 feet to 99 feet n 100 feet			(20 points) (10 points) (0 points)	0
Wellhead Pr (Less than 200 feet from domestic water source feet from all other wa	om a private e, or; less than 1,				Yes No			(20 points) (0 points)	0
Distance to S	to perennial lake	s ,		200 feet	han 200 feet to 1,000 feet an 1,000 feet			(20 points) (10 points) (0 points)	0
ponds, rivers, streams, creeks, irrigation canals and ditches				RANKI	NG SCORE	E (TOTA	L POINTS	():	0

ance #27A Pate Remediation Started:	07/01/1999	Date Completed: 07/	01/1999
emediation Method:	Excavation x	Approx. Cubic Yard	156
heck all propriate	Landfarmed X	Amount Landfarmed (cubic yo	ls) <u>126</u>
ctions)	Other 30 cu. yds. overburden		
Remediation Location: i.e., landfarmed onsite, name and ocation of offsite facility)	Onsite X	Offsite	
Backfill Material Location:			
General Description of Ren	nedial Action:		
Excavated contaminated soi	It o a pit size of 22' X 24' X 8' and lan	dfarmed soil onsite within a bermed are	ea at a depth of 6" to
	king/plowing until soil met regularoy l		
*** Sandstone encountered	at 8'. See attached risk analysis form		
Ground Water Encountere	ed: No ♀	Yes Depth	
Ground water Encountere	.u. 140 <u>Y</u>	Depui.	
	·		
Final Pit Closure Sampling:	Sample Location 5 pt. compo	osite - bottom.	
(if multiple samples, attach sample result and diagram of sample locations and depths.)	Sample depth 8'		
sample locations and depuis.)	Sample date 07/01/1999	Sample time	7:45:00 AM
	Sample Results	•	
	Benzene (ppm)	1.4	
	Total BTEX (ppm)	71.7 ***	
	Field headspace (ppm)		
	TPH (ppm) 1260.00	Method 8015B	
Vertical Extent (ft)	Ī	Risk Analysis form attached Yes	▼ No _
Ground Water Sample:	Yes No	(If yes, see attached Ground Summary Report)	ındwater Site
I HEREBY CERTIFY TH KNOWLEDGE AND MY		IS TRUE AND COMPLETE TO THE	BEST OF MY
DATE October 28, 1	999	PRINTED NAME Maureen	Gannon





LAB: (505) 325-1556

On Site Technologies, LTD.

CLIENT:

PNM - Public Service Company of NM

Project:

Florance #27A & #25

Lab Order:

9907004

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: 19-Jul-99

Client:

PNM - Public Service Company of NM

Work Order:

9907004

9907004-01A

Matrix: SOIL

Lab ID: Project:

Florance #27A & #25

Client Sample Info: Florance #27A

Client Sample ID: 9907010745; 5pt. Bottom Comp

Collection Date: 7/1/99 7:45:00 AM

COC Record: 7643

Parameter	Result	PQL	Qual Units	DF	Date Analyzed
DIESEL RANGE ORGANICS	SW8015B				Analyst: DC
T/R Hydrocarbons: C10-C28	1260	25	mg/Kg	mg/Kg 1	7/14/99
AROMATIC VOLATILES BY GC/PID	SI	N8021B			Analyst: DC
Benzene	1400	500	μg/Kg	500	7/9/99
Toluene	16000	1000	μg/Kg	500	7/9/99
Ethylbenzene	5300	500	μ g /Kg	500	7/9/99
m,p-Xylene	38000	1000	μg/Kg	500	7/9/99
o-Xylene	11000	500	μ g /Kg	500	7/9/99
•	71700				
	71.70	mas			

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: 19-Jul-99

ANALYTICAL REPORT

Client:

PNM - Public Service Company of NM

Work Order:

9907004

Lab ID: 9907004-02A

Matrix: SOIL

Project:

Florance #27A & #25

Client Sample Info: Florance #27A

Client Sample ID: 9907010750; 4pt. Wall Comp

Collection Date: 7/1/99 7:50:00 AM

COC Record: 7643

Parameter	Resuit	PQL	Qual Units	DF	Date Analyzed
DIESEL RANGE ORGANICS	sv	V8015B			Analyst: DC
T/R Hydrocarbons: C10-C28	1410	25	mg/Kg	1	7/14/99

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

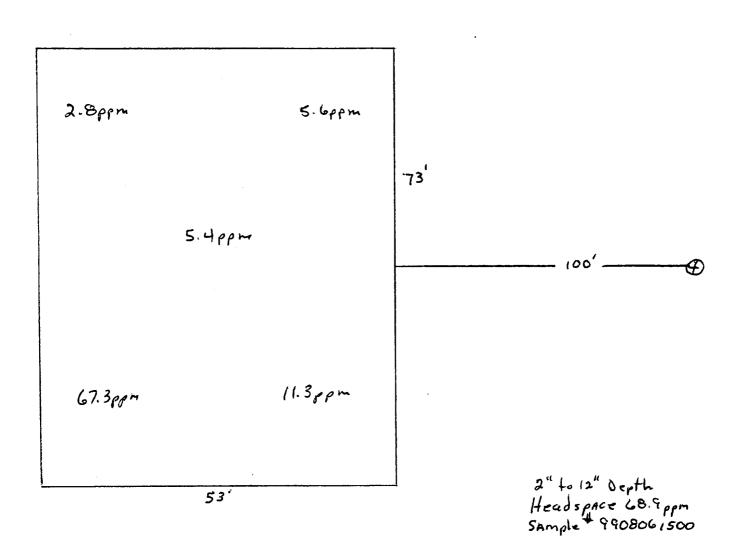
R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

1 of 1

Landfarm DRAWing
App 126 cu. yds





LAB: (505) 325-1556

On Site Technologies, LTD.

CLIENT:

PNM - Public Service Company of NM

Project:

PNM Pit Remediation Landfarms

Lab Order:

9908018

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:

9908018

Lab ID: 9908018-02A

Matrix: SOIL

Project:

PNM Pit Remediation Landfarms

Client Sample Info: Florance 27A LF

Client Sample ID: 9908061500; 5pt. Composite

Collection Date: 08/06/1999 3:00:00 PM

COC Record: 7805

Parameter	Result	PQL	Qual Units	DF	Date Analyzed
DIESEL RANGE ORGANICS	SV	V8015B			Analyst: DC
T/R Hydrocarbons: C10-C28	510	50	mg/Kg	2	08/09/1999

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:

Florance #27A Sec 26, T29N, R9W, Unit E Dehydrator Greater than 1,000 feet Greater than 100 feet

RISK ANALYSIS

PNM requests closure of their former pit on the Florance #27A well site using a limited risk analysis based on the following conditions:

- Groundwater is estimated to be at a depth of 244 feet based upon the elevation of the site and the elevation of the nearest "listed" or "named" wash. (Reference: Blanco Canyon, NM series 7.5 minute topographic map.)
- 2. PNM excavated 156 cubic yards of soil from the former pit. Source removal minimizes the possibility of surface water contamination.
- 3. Sandstone was encountered at 8 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 Florance #27A well site poses minimal threat to groundwater, human health and the environment based upon our past experience in excavating over 1,000 pits.