District I P O Box In Be Hobbs NM 2. To April District II P O IDEPUTY OIL METAS INSPECTOR

State of New Mexico
Energy, Minerals and Natural Resources Department

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

OIL CONSERVATION DIVISION

District III 1000 Rio Brazos Rd, 4715 BM 2740 1997

2040 South Pacheco Street Santa Fe, New Mexico 87505 RECEIVED OCT 3 1 1898

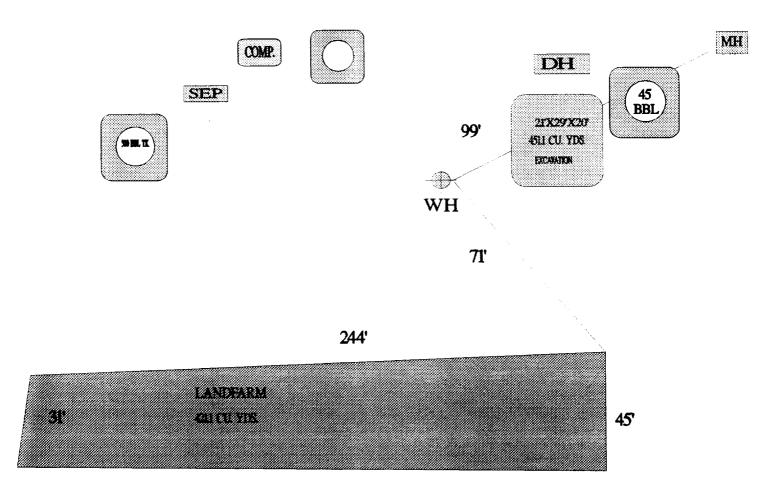
PIT REMEDIATION AND CLOSURE REPORT

OIL 60%, DAY,

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Date Remediation Started:	6/14/96	Date Completed: 6/19/96
Remediation Method:	Excavation	X Approx. Cubic Yard 451
(Check all appropriate	Landfarmed	X Amount Landfarmed (cubic yds) 421
sections)	Other	
Remediation Location: (i.e., landfarmed onsite, name and location of offsite facility)	Onsite	X Offsite
Backfill Material Location	: 	
General Description of Ren	nedial Action:	
		20' and landfarmed soil onsite within a bermed area at a depth of 6" to 12". Soil was
aerated by plowing/disking until	soil met regulatory	leveis.
Cround Water E-country	idi No	✓ Yes Depth
Ground Water Encountere	ed: No	Yes Depth
Final Pit Closure Sampling:	Sample Location	5 pt composite-4 side walls and center of pit bottom
(if multiple samples, attach sample result and diagram of	Sample depth	20'
sample locations and depths.)	Sample date	6/17/96 Sample time 1:30:00 PM
	Sample Results	s
	Benzei	ne (ppm) 0.0082
	Total I	BTEX (ppm) 0.9311
	Field h	eadspace (ppm)
	TPH	< 5.00 Method 8015A
Vertical Extent (ft)		Risk Assessment form attached Yes No
Ground Water Sample:	Yes	No (If yes, attach sample results)
I HEREBY CERTIFY THA KNOWLEDGE AND MY		MATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY
DATE October 25. SIGNATURE	. 1996	PRINTED NAME Maureen Gannon AND TITLE Environmental Engineer





239



OFF: (505) 325-8786

LAB: (505) 325-5667

Diesel Range Organics

Attn:

Denver Bearden

Date:

18-Jun-96

Company: PNM Gas Services

COC No.:

4713

Address:

Sample No.

11204

City, State: Farmington, NM 87401

603 W. Elm

Job No.

2-1000

Project Name:

PNM Gas Services - Florance #2

Project Location: Sampled by:

9606171330; Pit Excavation Composite RH

Date:

17-Jun-96 Time:

13:30

Analyzed by:

HR

Date:

18-Jun-96

Sample Matrix:

Soil

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
Diesel Range Organics (C10 - C28)	<5.0	mg/kg	5.0	mg/kg

Quality Assurance Report

DRO QC No.:

0475-QC

Calibration Check

	Method	Unit of	True	Analyzed		
Parameter	Blank	Measure	Value	Value	% Diff	Limit
Diesel Range (C10 - C28)	<5.0	ppm	2,000	1,762	11.9	15%

Matrix Spike

Parameter	1- Percent Recovered			%RSD	Limit
Diesel Range (C10-C28)	100	99	(70-130)	1	20%

Method - SW-846 EPA Method 8015A mod. - Nonhalogenated Volatile Hydrocarbons by Gas Chromatography

Approved by:

Date:

P. O. BOX 2606 • FARMINGTON, NM 87499



LAB: (505) 325-5667

AROMATIC VOLATILE ORGANICS

Attn:

Denver Bearden

Date:

18-Jun-96

Company: PNM Gas Services

COC No.:

4713

Address:

Sample No.:

11204

603 W. Elm

OFF: (505) 325-8786

City, State: Farmington, NM 87401

Job No.:

2-1000

Project Name:

PNM Gas Services - Florance #2

Project Location:

9606171330; Pit Excavation Composite

Sampled by:

RH

Date:

17-Jun-96 Time:

13:30

Analyzed by:

HR

Date:

18-Jun-96

Sample Matrix:

Soil

Laboratory Analysis

Component		Result	Unit of Measure	Detection Limit	Unit of Measure
Benzene		8.2	ug/kg	0.2	ug/ k g
Toluene		283.2	ug/kg	0.2	ug/ kg
Ethylbenzene		53.2	ug/kg	0.2	ug/kg
m,p-Xylene		473.0	ug/kg	0.2	ug/kg
o-Xylene		113.4	ug/kg	0.2	ug/kg
	TOTAL	931.1	ug/kg		

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by:

P. O. BOX 2606 • FARMINGTON, NM 87499



OFF: (505) 325-8786

LAB: (505) 325-5667

Date Analyzed: 18-Jun-96

Internal QC No.:

0444-STD

Surrogate QC No.:

0445-STD

Reference Standard QC No.:

0355-STD

Method Blank

		Unit of
Anaiyte	Result	Measure
Average Amount of All Analytes In Blank	< 0.2	ppb

Calibration Check

Analysis	Unit of Measure	True Value	Analyzed Value	% Diff	Limit
Analyte	Wessure	veiue	Value	70 DIII	Linit
Benzene	ppb	20.0	17.6	12	15%
Toluene	ppb	20.0	18.1	10	15%
Ethylbenzene	ppb	20.0	18.5	8	15%
m,p-Xylene	ppb	40.0	36.3	9	15%
o-Xylene	ppb	20.0	18.7	6	15%

Matrix Spike

	1- Percent	2 - Percent			
Analyte	Recovered	Recovered	Limit	%RSD	Limit
Benzene	104	100	(39-150)	3	20%
Toluene	106	102	(46-148)	3	20%
Ethylbenzene	108	105	(32-160)	2	20%
m,p-Xylene	105	101	(35-145)	3	20%
o-Xylene	102	98	(35-145)	2	20%

Surrogate Recoveries

	S1	S2	
	Percent	Percent	
Laboratory Identification	Recovered	Recovered	
Limit Percent Recovered	(70-130)		
11204-4713	99		
<u> </u>			

S1: Flourobenzene

P.O. BOX 2606 • FARMINGTON, NM 87499

Amoco

Sec. 20-30N-09W

Land Farm: On Location

451 Yards

Composite Sample #:

9607241130

Soil Vapor Head-Space Reading = 8.1 ppm (PID)

Sample depths between 2" and 12"



• 7.2 • & • 11.1 • 6.1 • 3.2 • 9.6 OFF: (505) 325-5667



LAB: (505) 325-1556

Diesel Range Organics

Attn:

Denver Bearden

Date:

26-Jul-96

Company: PNM Gas Services

COC No .:

4925

Address:

Sample No.

11591

603 W. Elm

City, State: Farmington, NM 87401

Job No.

2-1000

Project Name:

PNM Gas Services - Florance #2 Landfarm

Project Location:

9607241130; 6pt. Composite, 2"-12" depth Date:

24-Jul-96 Time:

11:30

Sampled by: Analyzed by: GC DC

Date:

26-Jul-96

Sample Matrix:

Soil

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
Diesel Range Organics (C10 - C28)	<5.0	mg/kg	5.0	mg/kg

Quality Assurance Report

DRO QC No.:

0479-QC

Calibration Check

Parameter	Method Blank	Unit of Measure	True Value	Analyzed Value	% Diff	Limit
Diesel Range (C10 - C28)	<5.0	ppm	2,000	1,977	_1.1	15%

Matrix Spike

meem opine				
1- Percent Recovered	2 - Percent Recovered	Limit	%RSD	Limit
111	121	(70-130)	6	20%
	Recovered	Recovered Recovered	Recovered Recovered Limit	Recovered Recovered Limit %RSD

Method - SW-846 EPA Method 8015A mod. - Nonhalogenated Volatile Hydrocarbons by Gas Chromatography

Approved by: