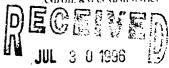
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JICARILLA APACHE TRIBE ENVIRONMENTAL PROTECTION OFFICE P.O. BOX 507

DULCE, NEW MEXICO 87528

NATURAL RESOURCE



PIT REMEDIATION AND CLOSURE REPORT

20 (27/2
Operator: PNM GAS Services Telephone: 324-3763
Address: 603 W. Elm Farmington, N. Mex. 87410
Facility or Well Name: Jenny 1 (Smyder)
Pacinity of Well Name.
Location: Unit or Qtr/Qtr Sec B Sec 13 T26/R4 County Rio Arriba
Pit Type: Separator Dehydrator_ Other
Land Type: o
Pit Location: Pit dimensions: length 19, width 17, depth 6
(Attach diagram) Reference: wellhead, other
Footage from reference: 155 (
Direction from reference: 45 Degrees East of North
West South
Depth To Groundwater: (Vertical distance from contaminants to seasonal high water elevation of groundwater) Less than 50 feet (20 points) (10 points) (0 points)
Distance to an Ephemeral Stream (Downgradient dry wash greater than ten feet in width) Less than 100 feet (10 points) (O points)
Distance to Nearest Lake, Playa, or Watering Pond Less than 100 feet (10 points)
Wellhead Protection Area: (Less than 200 feet from a private domestic water source, or: less than 1000 feet from all other water sources) Yes (20 points) No (0 points)
Distance To SurfaceWater: (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches) Less than 100 feet (20 points) 100 feet to 1000 feet (10 points) Greater than 1000 feet (0 points)
RANKING SCORE (TOTAL POINTS): //

Jenny 1
Date Remediation Started: 5/20/96 Date Completed: 4/11/96 Remediation Method: Excavation Approx. cubic yards 71.7
(Check all appropriate sections) Landfarmed \(\square \)
Other
General Description of Remedial Action: Removed plastic liner from pit. Removed 71.7 yds. of cont. Soil. Pit clean Groundwater Encountered: No Yes Depth
Groundwater Encountered: No Yes Depth
Final Pit: Sample location North Enst, South West side wills. Closure Sampling: (if multiple samples. attach sample results and diagram of sample Sample depth 6 locations and depths) Sample date 5/20/96 Sample time 1000
Sample Results
Soil: Benzene (ppm) 0.0207 Water: Benzene (ppb)
Total BTEX (ppm) 10973 Toluene (ppb)
Field Headspace (ppm) 37 Ethylbenzene (ppb)
TPH 8015 (ppm) <u><5.0</u> Total Xylenes (ppb)
Groundwater Sample: Yes No (If yes, attach sample results)
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEGE AND BELIEF

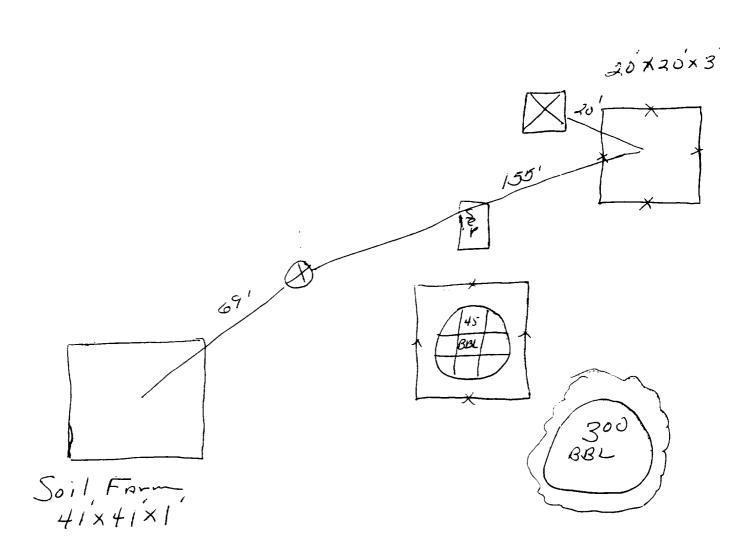
SIGNATURE ROSS A Deduct AND TITLE Environments Tech.

AFTER REVIEW OF THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE T THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.

approved: yes 🗶	NO (REASON)		
SIGNED TOUC (M	DATE:	6-5-96	

Tenny 1 SOCO Sec. 13 TZGN R4W Unit B







LAB: (505) 325-5667

Diesel Range Organics

Attn:

Denver Bearden

Date:

24-May-96

Company: PNM Gas Services

COC No.:

4671

Address:

603 W. Elm

Sample No.

10970

City, State: Farmington, NM 87401

Job No.

2-1000

Project Name:

PNM Gas Services - Jenny 1

Project Location:

OFF: (505) 325-8786

9605201000; North Wall

20-May-96 Time:

Sampled by: Analyzed by: RB HR Date: Date:

22-May-96

10:00

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

Parameter	Method Blank	Unit of Measure	True Value	Analyzed Value	% Diff	Limit
Diesel Range (C10 - C28)	<5.0	ppm	2,000	2,020	1.0	15%

Matrix Snike

IVIAUIX SPIKE	,				
	1- Percent	2 - Percent			
Parameter	Recovered	Recovered	Limit	%RSD	Limit
Diesel Range (C10-C28)	117	106	(70-130)	7	20%

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

Approved by: Date: 5/24/96



LAB: (505) 325-5667

Diesel Range Organics

Attn:

Denver Bearden

Date:

24-May-96

Company: PNM Gas Services

COC No.:

4671

Address:

603 W. Elm

Sample No.

10971

City, State: Farmington, NM 87401

Job No.

2-1000

Project Name:

PNM Gas Services - Jenny 1

Project Location:

9605201003; East Wall

10:03

Sampled by:

RB HR Date: Date:

22-May-96

20-May-96 Time:

Analyzed by: Sample Matrix:

Soil

Laboratory Analysis

Parameter	Resuit	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

Parameter	Method Blank	Unit of Measure	True Value	Analyzed Value	% Diff	Limit
Diesel Range (C10 - C28)	< 5.0	ppm	2,000	2,020	1.0	15%

Matrix Spike

matrix opini	<u> </u>				
	1- Percent	2 - Percent			
Parameter	Recovered	Recovered	Limit	%RSD	Limit
Diesel Range (C10-C28)	117	106	(70-130)	7	20%

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

Approved by: Date: 5/24/96



OFF: (505) 325-8786 LAB: (505) 325-5667

Diesel Range Organics

Attn:

Denver Bearden

Date:

24-May-96

Company: PNM Gas Services

COC No.:

4671

Address:

603 W. Elm

Sample No.

10972

City, State: Farmington, NM 87401

Job No.

2-1000

Project Name:

PNM Gas Services - Jenny 1

Project Location:

9605201006; South Wall

Sampled by:

RB

Date:

20-May-96 Time:

Analyzed by:

HR

Date:

22-May-96

10:06

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

Parameter	Method Blank	Unit of Measure	True Value	Analyzed Value	% Diff	Limit
Diesel Range (C10 - C28)	< 5.0	ppm	2,000	2,020	1.0	15%

Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	%RSD	Limit
Diesel Range (C10-C28)	117	106	(70-130)	7	20%

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

Approved by:) () Date: 5/24/94



LAB: (505) 325-5667

Diesel Range Organics

Attn:

Denver Bearden

Date:

24-May-96

Company: PNM Gas Services

COC No.:

4671

Address:

Sample No.

10973

City, State: Farmington, NM 87401

603 W. Elm

Job No.

2-1000

Project Name:

PNM Gas Services - Jenny 1

Project Location:

9605201009; West Wall

RB

20-May-96 Time: Date:

10:09

Sampled by: Analyzed by:

HR

22-May-96 Date:

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

Parameter	Method Blank	Unit of Measure	True Value	Analyzed Value	% Diff	Limit_
Diesel Range (C10 - C28)	<5.0	ppm	2,000	2,020	1.0	15%

Matrix Spike

Parameter	1- Percent 2 - Percent Recovered Recovered		Limit	%RSD	Limit
Diesel Range (C10-C28)	117	106	(70-130)	7	20%

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

P. O. BOX 2606 • FARMINGTON, NM 87499

- Technology Blending Industry with the Environment -



LAB: (505) 325-5667

Diesel Range Organics

Attn:

Denver Bearden

Date:

24-May-96

Company: PNM Gas Services

COC No.:

4671

Address: 603 W. Elm Sample No.

City, State: Farmington, NM 87401

Job No.

10974 2-1000

Project Name:

PNM Gas Services - Jenny 1

Project Location:

9605201012; Bottom Pit

Sampled by:

RB

Date: Date: 20-May-96 Time:

10:12

Analyzed by:

HR

22-May-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

Parameter	Method Blank	Unit of Measure	True Value	Analyzed Value	% Diff	Limit
Diesel Range (C10 - C28)	< 5.0	ppm	2,000	2,020	1.0	15%

Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	%RSD	Limit
Diesel Range (C10-C28)	117	106	(70-130)	7	20%

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

Approved by:)= (/
Date: 5/24/56



LAB: (505) 325-5667

AROMATIC VOLATILE ORGANICS

Denver Bearden Attn:

Date:

23-May-96

Company: PNM Gas Services

COC No.:

4671

Address:

603 W. Elm

Sample No.

10974

City, State: Farmington, NM 87401

Job No.

2-1000

Project Name:

PNM Gas Services - Jenny 1

Project Location:

9605201012; Bottom Pit

Sampled by:

RB

Date: Date:

20-May-96 Time:

10:12

Analyzed by: Sample Matrix: DÇ Soil 22-May-96

Aromatic Volatile Organics

Component		Result	Units of Measure	Detection Limit	Units of Measure
Benzene		20.7	ug/kg	0.2	ug/ kg
Toluene		200.2	ug/kg	0.2	ug/ kg
Ethylbenzene		39.5	ug/kg	0.2	ug/kg
m,p-Xylene		644.4	ug/kg	0.2	ug/kg
o-Xylene		192.6	ug/kg	0.2	ug/kg
	TOTAL	1097.3	u g/kg		

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

Approved by:

JICARILLA APACHE TRIBE ENVIRONMENTAL PROTECTION OFFICE P.O. BOX 507 DULCE, NEW MEXICO 87528

SUBMIT 1 COPY

NATURAL RESOURCE DE

AND OIL & GAS ADMINISTRATIC

ON-SITE SOIL REMEDIATION REPORT

Operator: PNM GAS Se	ercicles	Telephone:_324-3763
Address: 603 W. Elm	Farmin	g fon, N Mex 87401
Facility or Well Name: <u>Jenn</u>	<u>, 1</u>	J /
Location: Unit or Qtr/Qtr Sec	Sec/ <u>/</u> T_	260 R4W County Rio Arriba
Land Type: Jicarella Res		
	,	Date Completed: 5/21/96 Approx. cubic yards 71,7
Composted		reppiex. cubic yards <u>1777</u>
Other		
Depth To Groundwater:	(pts.)	Final Closure Sampling:
Distance to an Ephemeral Stream	(pts.) / O	Sampling Date: $\frac{5/21/96}{}$ Time: $\frac{1700}{}$
Distance to Nearest Lake, Playa, or Watering Pond	(pts.)	Sample Results:
Wellhead Protection Area:	(pts.) ———	Field Headspace (ppm)
Distance To SurfaceWater:	(pts.)	TPH 8015 (ppm) <u>(5.0</u> Method
		Other
RANKING SCORE (TOTAL POIN	TS):	
I HEREBY CERTIFY THAT THE INFO	RMATION ABOVE	E IS TRUE AND COMPLETE TO THE BEST OF MY
DATE 5/30/96 SIGNATURE Racle A. Dee	PRINTED N	AND TITLE Environmental Tech.
ACCORDANCE TO THE JICARILLA	APACHE TRIBE PIT	ATION, ON-SITE REMEDIATION IS APPROVED IN CLOSURE ORDINANCE.
	_	
SIGNED: Sice (Man	DATE:	6-5-96



LAB: (505) 325-5667

Diesel Range Organics

Attn:

Denver Bearden

Date:

24-May-96

Company: PNM Gas Services

COC No.:

4671

Address:

Sample No.

603 W. Elm

Job No.

10975 2-1000

City, State: Farmington, NM 87401

PNM Gas Services - Jenny 1

Project Location:

9605211700; 5pt. Composite Land Farm

Sampled by:

Project Name:

RB

Date:

21-May-96 Time:

17:00

Analyzed by:

HR

Date:

22-May-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

Parameter	Method Blank	Unit of Measure	True Value	Analyzed Value	% Diff	Limit
Diesel Range (C10 - C28)	<5.0	ppm	2,000	2,020	1.0	15%

Matrix Spike

matrix opine					
	1- Percent	2 - Percent			
Parameter	Recovered	Recovered	Limit	%RSD	Limit
Diesel Range (C10-C28)	117	106	(70-130)	7	20%

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

Approved by:



LAB: (505) 325-5667

AROMATIC VOLATILE ORGANICS

Attn:

Denver Bearden

Date:

23-May-96

Company: PNM Gas Services

COC No.:

4671

Address:

603 W. Elm

Sample No.:

10975

City, State: Farmington, NM 87401

Job No.:

2-1000

Project Name:

PNM Gas Services - Jenny 1

Project Location: Sampled by:

9605211700; 5pt. Composite Land Farm RB

Date:

21-May-96 Time:

Analyzed by:

DC

Date:

22-May-96

17:00

Sample Matrix:

Soil

Laboratory Analysis

Component		Result	Unit of Measure	Detection Limit	Unit of Measure
Benzene		1.6	ug/ kg	0.2	ug/ kg
Toluene		9.5	ug/kg	0.2	ug/kg
Ethylbenzene		4.3	ug/kg	0.2	ug/ kg
m,p-Xylene		58.2	ug/kg	0.2	ug/kg
o-Xylene		17.7	ug/ k g	0.2	ug/ kg
	TOTAL	91.3	ug/ kg		

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

Approved by:



LAB: (505) 325-5667

QUALITY ASSURANCE REPORT

for EPA Method 8020

Date Analyzed: 22-May-96

Internal QC No.: 0444-STD

Surrogate QC No.:

0445-STD

Reference Standard QC No.:

0355-STD

Method Blank

		Units of
Analyte	Result	Measure
Average Amount of All Analytes In Blank	< 0.2	ppb

Calibration Check

	Units of Measure		Analyzed	% Diff	Limit
Analyte			Value		
Benzene	ppb	20.0	18.6	7	15%
Toluene	ppb	20.0	18.9	5	15%
Ethylbenzene	ppb	20.0	18.9	6	15%
m,p-Xylene	ppb	40.0	37.3	7	15%
o-Xylene	ppb	20.0	18.8	6	15%

Matrix Spike

Maurx Spike					
	1- Percent	2 - Percent	Limit	%RSD	Limit
Analyte	Recovered	Recovered			
Benzene	88	88	(39-150)	1	20%
Toluene	91	94	(46-148)	2	20%
Ethylbenzene	89	88	(32-160)	1	20%
m,p-Xylene	92	92	(35-145)	0	20%
o-Xylene	88	92	(35-145)	3	20%

Surrogate Recoveries

	S1	S2 Percent Recovered	
	Percent		
Laboratory Identification	Recovered		
Limit Percent Recovery	(70-130)		
10974-4671	96		
10975-4671	100		
		-	
	 		
	ļ		

S1: Flourobenzene

Jenny 1 Doil FArm

4/x4/x1

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