Denny S. Fourt DEPUTY OIL & GAS INSPECTOR

FEB 0 8 1999

JICARILLA APACHE TRIBE

ENVIRONMENTAL PROTECTION OFFICE

SUBMIT 1 COPY TO NATURAL RESOURCE DEPT AND OIL GAS ADMINISTRATION

Approved

P.O. BOX 507 DULCE, NEW MEXICO 87528

PIT REMEDIATION AND CLOSURE REPORT

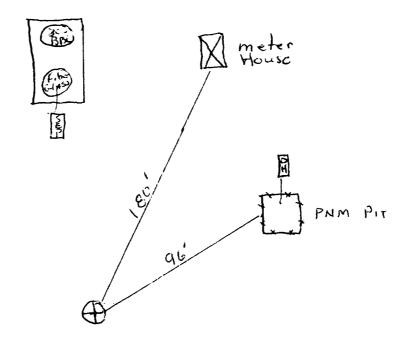
Operator: PNM Gas Services	(13 ROG) Telephone: 324-3764
Address: 603 W. Elm Street Farmingto	ton, NM 87401
Facility or Well Name: ARIZONA	JICARILLO B-4
Location: Unit: M Sec	c. 4 T. 24N R. 5W County Rio Arriba
Pit Type: Separator De	Dehydrator X Other
Land Type:	
Pit Location: Pit dimensions:	length <u>20'</u> width <u>20'</u> depth <u>3'</u>
(Attach diagram) Reference:	wellhead X other
Footage from refere	rence: 96
Direction from refer	
	of West South
Depth to Ground Water: (Vertical distance from contaminants to seasonal high water elevation of cround water)	Less than 50 feet (20 points) 50 feet to 99 feet (10 points) Greater than 100 feet (0 points)
wellhead Protection Area: (Less than 200 feet from a private domestic water source, or; less than 1,000 feet from all other water sources)	Yes (20 points)
Distance to Surface Water: (0)	Less than 200 feet (20 points) 200 feet to 1,000 feet (10 points) Greater than 1,000 feet (0 points)
Distance to Ephemeral Stream (dry was (Horizontal distance to all downgradient streams having a width of at least 10 feet)	Less than or equal to 100 feet (10 points) Greater than 100 feet (0 points)
Distance to Nearest Lake, Playa, or Wate Pond: (Horizontal distance to all downgradient lakes, playas, and livestock or wildlife water ponds)	Less than or equal to 100 feet (10 points) Greater than 100 feet (0 points)
	RANKING SCORE (TOTAL POINTS): \mathcal{L}

9K

Date Remediation Started	: 4/11/98	Date Completed: 9/9/98			
Remediation Method:	Excavation X	Approx. Cubic Yards233			
(Check all appropriate	Landfarmed X	Amount Landfarmed (cubic yds): 233			
sections)	Other				
Remediation Location: (i.e., landfarmed onsite, name and location of offsite facility)	Onsite	Offsite			
General Description of F		P (1 D) (1			
	ontaminated Soil	headspace reading, Pit			
as to get	a below 100 ppm solid sandstons R				
EXCAUATION	Size 28'x25'x9'				
Ground Water Encounte	ered: No X Yes	Depth			
Final Pit Closure Sampling:	Sample Location North	GAST, South, west Side			
(if multiple samples, attach	Sample depth 9'				
sample result and diagram of sample locations and Sample date 6/11/98 Sample time 1046					
	Sample Results				
Soil: I	Benzene (ppm) ND	Water: Benzene (ppb)			
-	Total BTEX (ppm 1.710	Toluene (ppb)			
,	Field headspace (ppm) 1736	Ethylbenzene (ppb)			
	TPH ND ppm Method	8015 Total Xylenes (ppb)			
Ground Water Sample	e: Yes No	(If yes, attach sample results)			
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND MY BELIEF					
		ITED NAME Roy Burnham			
SIGNATURE Ray	Burnha ANI	D TITLE Environmental Technician II			
AFTER REVIEW OF THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE TO JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.					
APPROVED: YES NO (REASON):					
SIGNED:	Mamil DAT	TE: 6-29-98			

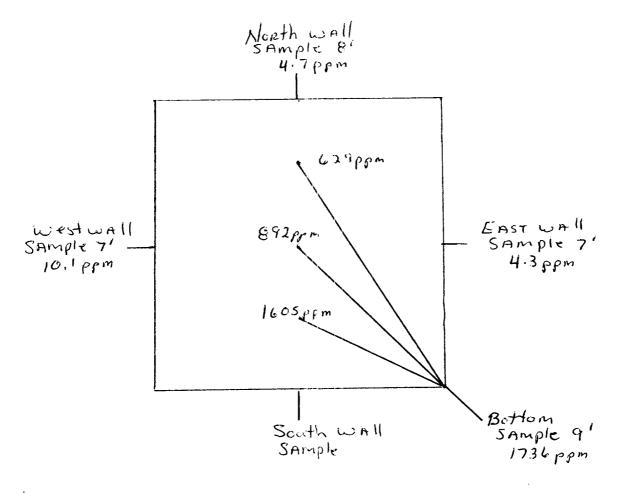
ARIZONA SICARILLA 15-4 Sec-4 T-26N R-5W unit M BROF

SITE DRAWING



28'x25'x3'

EXCAUATION DRAWING



S' SAMPLE 1512 ppm Rock 9' SAMPLE 629 ppm 892 ppm 1605 ppm

CLIENT:

LAB: (505) 325-1556

TECHNOLOGIES, LTD.

On Site Technologies, LTD.

PNM - Public Service Company of NM

Jicarilla Pit Remediation Project:

9806050 Lab Order:

CASE NARRATIVE

Date: 22-Jun-98

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: 22-Jun-98

Client:

PNM - Public Service Company of NM

Work Order:

9806050

Lab ID:

9806050-04A

Matrix: SOIL

Project:

Jicarilla Pit Remediation

Client Sample Info: Arizona Jicarilla B-4

Client Sample ID: 9806111046; 3pt. Comp. Bottom

Collection Date: 6/11/98 10:46:00 AM

COC Record: 7164

Parameter	Result	PQL Q	ual Units	DF	Date Analyzed
DIESEL RANGE ORGANICS	SW8015			Analyst: HR	
T/R Hydrocarbons: C10-C28	ND	25	mg/Kg	1	6/17/98
BTEX	sv	V802 0A			Analyst: DC
Benzene	ND	50	µg/Kg	50	6/14/98
Toluene	270	100	μ g /Kg	50	6/14/98
Ethylbenzene	130	50	μ g/K g	50	6/14/98
m,p-Xylene	1100	100	μg/Kg	50	6/14/98
o-Xylene	210	50	μg/Kg	50	6/14/98

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: 22-Jun-98

ANALYTICAL REPORT

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Client:

PNM - Public Service Company of NM

Work Order:

9806050

Lab ID:

9806050-03A

Matrix: SOIL

Project:

Jicarilla Pit Remediation

Client Sample Info: Arizona Jicarilla B-4

Client Sample ID: 9806111045; 4pt. Comp. Walls

Collection Date: 6/11/98 10:45:00 AM

COC Record: 7164

Parameter	Result	PQL	Qual Units	DF	Date Analyzed
DIESEL RANGE ORGANICS	SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	ND	25	mg/Kg	1	6/11/98

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

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

SUBMIT 1 COPY TO NATURAL RESOURCE DEPT AND OIL GAS ADMINISTRATION

ON-SITE SOIL REMEDIATION REPORT

Operator: PNM Gas Services	(WIFS)	Telephone:	324-3764		
Address: 603 W. Elm Street Farmin					
	ZONA JICARI	la 13-4			
Land Type: Jicarilla Apache	Sec. <u>4</u> T.	26 N R.	5 W County Rio Arriba		
Date Remediation Started: 6 Remediation Method: Landfarmed Composted Other	/	Date Comple Approx. cubic y	0		
Depth to Ground Water: Distance to an Ephemeral Stream: Distance to Nearest Lake, Playa, or Watering Pond: Wellhead Protection Area: Distance to Surface Water: Ranking Score (Total Poin	(pts.)	Sampling Sampling Field He TPH Other			
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF DATE SIGNATURE ROY BURNHAM AND TITLE Environmental Technician II					
AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION, ON-SITE REMEDIATION APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE APPROVED: YES X NO (REASON) UDL az Berckfight SIGNED: DATE: 9-9-98					

LAB: (505) 325-1556

On Site Technologies, LTD.

CLIENT:

PNM - Public Service Company of NM

Project:

PNM Pit Remediation

Lab Order:

9808036

CASE NARRATIVE

Date: 26-Aug-98

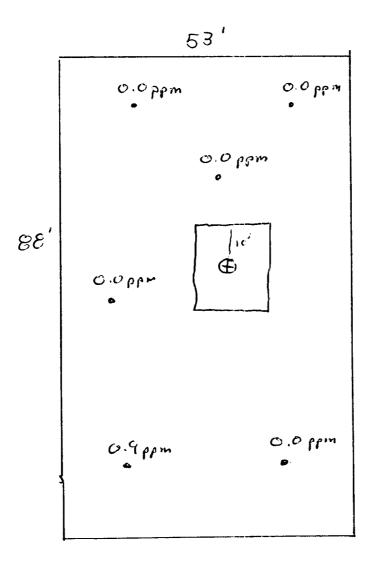
Samples were analyzed using the methods outlined in the following references:

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.

ARIZONA JICARILLA 13-4 BURLINGTON UNIT M SEC-4 TZGN REW

LAND FARM DRAWING





LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 26-Aug-98

Client:

PNM - Public Service Company of NM

Work Order:

9808036

9808036-23A

Matrix: SOIL

Lab ID: Project:

PNM Pit Remediation

Client Sample Info: Arizona Jicarilla B-4 LF

Client Sample ID: 9808171351; 6pt. Comp.

Collection Date: 8/17/98 1:51:00 PM

COC Record: 7333/34/35

Parameter	Result	PQL	Qual Units	DF	Date Analyzed	
DIESEL RANGE ORGANICS	SW8015				Analyst: HR	
T/R Hydrocarbons: C10-C28	ND	25	mg/Kg	1	8/19/98	

Qualifiers:

PQL - Practical Quantitation Limit

S - Spike Recovery outside accepted recovery limits

ND - Not Detected at Practical Quantitation Limit

R - RPD outside accepted recovery limits

J - Analyte detected below Practical Quantitation Limit

E - Value above quantitation range

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1 of 1