04

DEPUTY OIL & GAS INSPECTOR

JICARILLA APACHE TRIBE

ENVIRONMENTAL PROTECTION OFFICE

FEB () 8 1999

P.O. BOX 507 DULCE, NEW MEXICO 87528 SUBMIT 1 COPY TO NATURAL RESOURCE DEPT AND OIL -GAS ADMINISTRATION

Affrence

PIT REMEDIATION AND CLOSURE REPORT

Operator: PNM Gas Services (WF	<u>S</u>) Telephone: 324-3764						
Address: 603 W. Elm Street Farmington, NM 87401							
Facility or Well Name: Ax; Apache	m-8 Or:0						
Location: Unit: A Sec. 14	T. 25N R. 4W County Rio Arriba						
Pit Type: Separator Dehydrator	Other Orio						
Land Type:							
Pit Location: Pit dimensions: length							
(Attach diagram) Reference: wellhead	d X other						
Footage from reference:	aas'						
Direction from reference: 2	Degrees χ East North χ						
	of West South						
Depth to Ground Water:	Less than 50 feet (20 points)						
(Vertical distance from containinants to seasonal high water elevation of ground water)	50 feet to 99 feet (10 points) Greater than 100 feet (0 points)						
Wellhead Protection Area:	Yes (20 points) No (0 points)						
(Less than 200 feet from a pr vate domestic water source, or; less than 1,300 feet from all other water sources)	No (Opoints)						
Distance to Surface Water:	Less than 200 feet (20 points) 200 feet to 1,000 feet (10 points)						
(Horizontal distance to peren rial lakes, ponds, rivers, streams, creeks, irrigation canals and (litches)	Greater than 1,000 feet (10 points) (0 points)						
Distance to Ephemeral Stream (dry wash):	Less than or equal to 100 feet (10 points)						
(Horizontal distance to all dovingradient streams having a width of at least 10 feet)	Greater than 100 feet (0 points)						
Distance to Nearest Lake, Playa, or Watering 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):						

Date Remediation Started: 11/16/98 Date Completed: 41/17/98
Remediation Method: Excavation Y Approx. Cubic Yards SID
(Check all Landfarmed X Amount Landfarmed (cubic yds): 8/6
Other
Remediation Location: Onsite Offsite Axi Apacha M-8 (i.e., landfarmed onsite, name and location of offsite facility)
General Description of Remedial Action: Remove contaminated soil from all 4 side wells and Bottom to a below 100 pm heat spece reading
Excepted p:1 27/127/x 30
Ground Water Encountered: No Yes Depth
Sampling: Sample Location Northwell Eastwell Southwell, West we Supplied:
(if multiple samples, attach sample result and diagram of
sample locations and depths.) Sample date /////98 Sample time /300 Sample Results
Soil: Benzene (ppm) Water: Benzene (ppb)
Total BTEX (ppm Toluene (ppb)
Field headspace (ppm) /3.2 m Ethylbenzene (ppb) TPH PPM Method TpH-8015
Ground Water Sample: 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
DATE /2 // 4/9 8 PRINTED NAME Gary Cook
SIGNATURE Hay Couch AND TITLE Environmental Technician III
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: Le C Man DATE: 12-15-98

1

11/16/98

Site drawing:

Drip Riser

Ax: Aprehe m-8

Vell head

Not to scale

Ax: Apache M-8 Or:p WFS Sec. 14, 25N, 4W, A

North Wall

South Wall

@ 23' Vp)

e 23'

East Wall

West Wall

023'

e 23' 3.6ppn

Bottom

17.3 gpm

elle. Ip. e 30' dyth chean sond 3 pt. Corp. Lead space reading = 13.2 ppm



LAB: (505) 325-1556

On Site Technologies, LTD.

CLIENT: PNM - Public Service Company of NM

Project: Jicarilla Pit Remediation

Lab Order: 9811067

CASE NARRATIVE

Date: 03-Dec-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: 03-Dec-98

Client:

PNM - Public Service Company of NM

Work Order:

9811067

Lab ID:

9811067-01A

Matrix: SOIL

Project:

Jicarilla Pit Remediation

Client Sample Info: Axi Apache M-8 Drip

Client Sample ID: 9811171300; Bottom @ 30ft.

Collection Date: 11/17/98 1:00:00 PM

COC Record: 7429

Parameter	Result	PQL Q	ual Units	DF	Date Analyzed	
DIESEL RANGE ORGANICS	SV	V8015			Analyst: HF	R
T/R Hydrocarbons: C10-C28	ND	25	mg/Kg	1	12/1/98	

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



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 03-Dec-98

Client:

PNM - Public Service Company of NM

Work Order:

9811067

Lab ID:

9811067-02A

Matrix: SOIL

Project:

Jicarilla Pit Remediation

Client Sample Info: Axi Apache M-8 Drip

Client Sample ID: 9811171305; Walls @ 23ft.

Collection Date: 11/17/98 1:05:00 PM

COC Record: 7429

					70 . A . D
Parameter	Result	PQL Q	ual Units	DF	Date Analyzed
DIESEL RANGE ORGANICS T/R Hydrocarbons: C10-C28	SV ND	V8015 25	mg/Kg	1	Analyst: HR 12/1/98

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

SUBMIT 1 COPY TO NATURAL RESOURCE DEPT AND OIL GAS ADMINISTRATION

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

ON-SITE SOIL REMEDIATION REPORT

Operator: PNM Gas Services (WFS) Telephone: 324-3764					
Address: 603 W. Elm Street Farmington, NM 87401	_				
Facility or Well Name: Ax: Apache M-8 Drip Landfann #1	_				
ocation: Unit: A Sec. 14 T. 25 N R. 4 W County Rio Arriba	_				
Land Type: Jicarilla Apache					
Date Remediation Started: //-//					
Depth to Ground Water: (pts.) C Final Closure Sampling:					
Distance to an Ephemeral Stream: (pts.) 6 Sampling Date: /2-10-98 Time 0.733					
Distance to Nearest Lake, Playa, (pts.) O Sampling Results:					
Wellhead Protection Area: (pts.) D Field Headspace (ppm) 71.3 pr					
Distance to Surface Water: (pts.) 6 Other Other	015				
Ranking Score (Total Points):	_				
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF					
DATE /2 /22 /9 P PRINTED NAME Gary Cook					
SIGNATURE Man Cork AND TITLE Environmental Technician III					
AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION, ON-SITE REMEDIATION APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE					
APPROVED: YES NO (REASON) NO BOOK AND					
SIGNED:					

11/17/98 Axi Apriche M-8 Drip WFS Sec. 14, 25N, 4W, A LAndfarm: Axi Apache M-8 Sac. 14, 25 N, 4 W, A Landfan # 2 5.9 pp-7.1 pp~ 7.2 pp-6.9 pm 2.9 Av: Apacho M-8 well hand 8 5.3 pp-Land form #1 2"-12" depth

2"-12" depth

Soil vapa- head space = 7.9 ppm

19.9 ppm

19.9 ppm

3/.9/n

30:1 vapa- head space: 66.1 apm

LAB: (505) 325-1556

On Site Technologies, LTD.

CLIENT:

PNM - Public Service Company of NM

Project:

Jicarilla Pit Remediation

Lab Order:

9812026

CASE NARRATIVE

Date: 21-Dec-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: 21-Dec-98

Client:

PNM - Public Service Company of NM

Work Order:

9812026

9812026-03A

Matrix: SOIL

Lab ID: Project:

Jicarilla Pit Remediation

Client Sample Info: Axi Apache M-8 Drip LF #1

Client Sample ID: 9812100735; 6pt. Composite

Collection Date: 12/10/98 7:35:00 AM

COC Record: 7447

Parameter	Result	PQL	Qual Units	DF	Date Analyzed
DIESEL RANGE ORGANICS T/R Hydrocarbons: C10-C28	SV	V8015	mg/Kg	1	Analyst: HR 12/18/98

backs: 11ed pit from borrow pit

Qualifiers:

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

ON-SITE SOIL REMEDIATION REPORT

Operator: PNM Gas Services (W 5) Telephone: 324-3764
Address: 603 W. Elm Street Farmington, NM 87401
Facility or Well Name: Ax: Apache m-8 Drip LA-dfar # 2
Location: Unit: A Sec. 14 T. 25 N R. 4 W County Rio Arriba
Land Type: Jicarilla Apache
Date Remediation Started: 11-16-98 Date Completed: 11/17/98 Remediation Method: Landfarmed X Approx. cubic yards 600 Composted Other
Depth to Ground Water: (pts.) Final Closure Sampling:
Distance to an Ephemeral Stream: (pts.) o Sampling Date: 12-10-98 Time 0725
Distance to Nearest Lake, Playa, (pts.) Sampling Results:
Wellhead Protection Area: (pts.) 0 Field Headspace (ppm) 13.8 pm
Distance to Surface Water: (pts.) TPH (ppm) _N_O Method TPH -\$\infty\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdots\cdot\cdots\cdot\cdots\cdot\cdots\cdot\cdot\cdots\cdot\cdots\cdot\cdots\cdot\cdots\cdot\cdot\cdot\cdot\cdot\cdot\cdot\cdot
Ranking Score (Total Points):
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DATE 12-22-98 PRINTED NAME Gary Cook
SIGNATURE Hover AND TITLE Environmental Technician III
AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION, ON-SITE REMEDIATION APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE
APPROVED: YES NO (REASON) LOS COS BOOK AND
SIGNED: La C 7 Ma DATE: 12-28-98

LAB: (505) 325-1556

On Site Technologies, LTD.

CLIENT:

PNM - Public Service Company of NM

Project:

Jicarilla Pit Remediation

Lab Order:

9812026

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: 21-Dec-98

Client:

PNM - Public Service Company of NM

Work Order:

9812026

9812026-02A

Matrix: SOIL

Lab ID: Project:

Jicarilla Pit Remediation

Client Sample Info: Axi Apache M-8 Drip LF #2

Client Sample ID: 9812100725; 6pt. Composite

Collection Date: 12/10/98 7:25:00 AM

COC Record: 7447

Parameter	Result	PQL	Qual Units	DF	Date Analyzed
DIESEL RANGE ORGANICS	SV	V8015			Analyst: HR
T/R Hydrocarbons: C10-C28	ND	25	mg/Kg	1	12/18/98

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