

Barry L. Fort
DEPUTY OIL & GAS INSPECTOR

JICARILLA APACHE TRIBE

SUBMIT ONE COPY
TO NATURAL
RESOURCE DEPT
AND OIL- GAS
ADMINISTRATION

FEB 08 1999

ENVIRONMENTAL PROTECTION OFFICE

P.O. BOX 507
DULCE, NEW MEXICO 87528

Approved

PIT REMEDIATION AND CLOSURE REPORT

Operator: PNM Gas Services (WFS RAD CONOCO) Telephone: 324-3764
Address: 603 W. Elm Street Farmington, NM 87401
Facility or Well Name: Axi Apache N9 Drip
Location: Unit N Sec 11 T 25 N R 4 W County Rio Arriba
Pit Type: Separator ☐ Dehydrator ☐ Other Manual drip blowdown riser.
Land Type: Jicarilla Apache

Pit Location: Pit dimensions: Length 20 ' Width 23 ' Depth 3 '
(Attach diagram) Reference: Wellhead ☐ Other Manual drip blowdown riser.
Footage from reference: 10'
Direction from reference: 74 degrees ☐ East of ☐ North
☒ West ☒ South

Depth to Ground Water:

(Vertical distance from contaminants to seasonal high water elevation of ground water)

Less than 50 feet (20 points)
50 feet to 99 feet (10 points)
Greater than 100 feet (0 points) 0

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)
No (0 points) 0

Distance to Surface Water:

(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)

Less than 200 feet (20 points)
200 feet to 1,000 feet (10 points)
Greater than 100 feet (0 points) 0

Distance to Ephemeral Stream (dry wash):

(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) 0

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) 0

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: 11/17/98 Date Completed: 12/28/98

Remediation Method: Excavation ☒ Approx. Cubic Yards 136

(Check all appropriate sections) Landfarmed ☒ Amount Landfarmed (cubic yds) 136

Other _____

Remediation Location: Onsite ☐ Offsite Jicarilla Land farm #4.

(i.e., landfarmed onsite, name and location of offsite facility)

General Description of Remedial Action:

Removal of contaminated soil from all four sidewalls, as to get a below 100 ppm head space reading.
Bottom is rock.

Final excavation dimensions: 20'(N&S)X23'(E&W)X8'(D)

Ground Water Encountered: No ☒ Yes ☐ Depth _____

Final Pit Closure Sampling: Sample Location Composite of North, East, South, and West sidewalls and a three point composite of rock bottom.

(If multiple samples, attach sample result and diagram of sample locations and depths.)

Sample depth 8'

Sample date 11/17/98 Sample time 1100 1055

Sample Results

Soil: Benzene (ppm) ND Water: Benzene (ppb) _____

Total BTEX (ppm) 40.40 Toluene (ppb) _____

Field headspace (ppm) 1306 Ethylbenzene (ppb) _____

TPH (ppm) 140 Method 8015 Total Xylenes (ppb) _____

Vertical Extent (ft) 8' Risk Analysis form attached: Yes ☐ No ☒

Ground Water Sample: Yes ☐ No ☒ (If yes, see attached Groundwater Site Summary Report)

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND MY BELIEF.

DATE: 12-5-98 PRINTED NAME Ray Haston

SIGNATURE Ray Haston TITLE Environmental Tech. III

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

APPROVED: YES X NO _____ (REASON): _____

SIGNATURE: Ken C M... DATE: 12-15-98

OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 03-Dec-98

CLIENT: PNM - Public Service Company of NM

Project: Jicarilla Pit Remediation

Lab Order: 9811072

CASE NARRATIVE

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

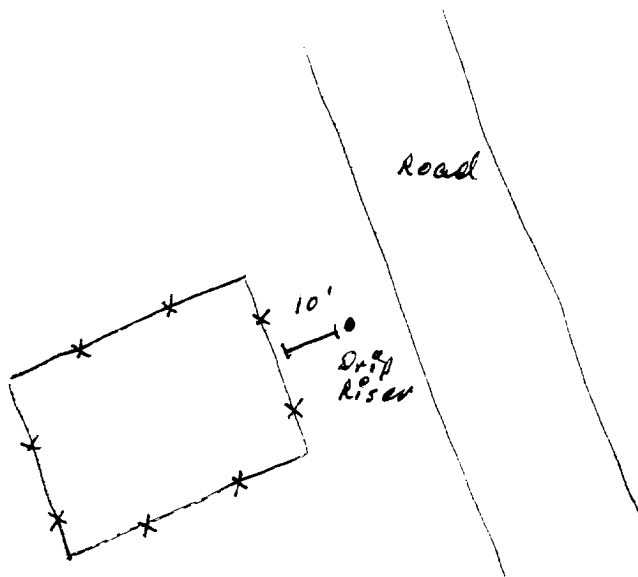
Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives.

↑
N

Axi Apache N9 Drip
(N) 11-25N-4W
WFS
11-17-98

25'x20'x4'



Excavation Sampling

20'(N+S) x 23'(E+W) x 8'(D)

5' sample - 1324 ppm
8' sample - 816 ppm

west wall sample
at 8' - .9 ppm

north wall sample
at 8' - 4.8 ppm

East wall sample
at 8' - 3.3 ppm

south wall sample
at 8' - 2.5 ppm

3 point bottom sample
at 8' - 1306 ppm (Rock)

not to scale

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 03-Dec-98

Client:	PNM - Public Service Company of NM	Client Sample Info:	Axi Apache N9 Drip
Work Order:	9811072	Client Sample ID:	9811171055; 3pt. Comp. Bottom
Lab ID:	9811072-03A	Matrix:	SOIL
Project:	Jicarilla Pit Remediation	Collection Date:	11/17/98 10:55:00 AM
		COC Record:	5776

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	140	25		mg/Kg	1	12/1/98
BTEX		SW8020A				Analyst: HR
Benzene	ND	250		µg/Kg	250	11/24/98
Toluene	6600	500		µg/Kg	250	11/24/98
Ethylbenzene	3600	250		µg/Kg	250	11/24/98
m,p-Xylene	25000	500		µg/Kg	250	11/24/98
o-Xylene	5200	250		µg/Kg	250	11/24/98

110400
110,400 ppm

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
	B - Analyte detected in the associated Method Blank	Surr: - Surrogate

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LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 03-Dec-98

Client:	PNM - Public Service Company of NM	Client Sample Info:	Axi Apache N9 Drip
Work Order:	9811072	Client Sample ID:	9811171100; 4pt. Comp. Walls
Lab ID:	9811072-04A	Matrix:	SOIL
Project:	Jicarilla Pit Remediation	Collection Date:	11/17/98 11:00:00 AM
		COC Record:	5776

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
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

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ANALYTICAL REPORT

Date: 03-Dec-98

Client:	PNM - Public Service Company of NM	Client Sample Info:	Axi Apache N9 Drip
Work Order:	9811072	Client Sample ID:	9811171105; North Wall
Lab ID:	9811072-05A	Matrix:	SOIL
Project:	Jicarilla Pit Remediation	Collection Date:	11/17/98 11:05:00 AM
		COC Record:	5776

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	12/1/98

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
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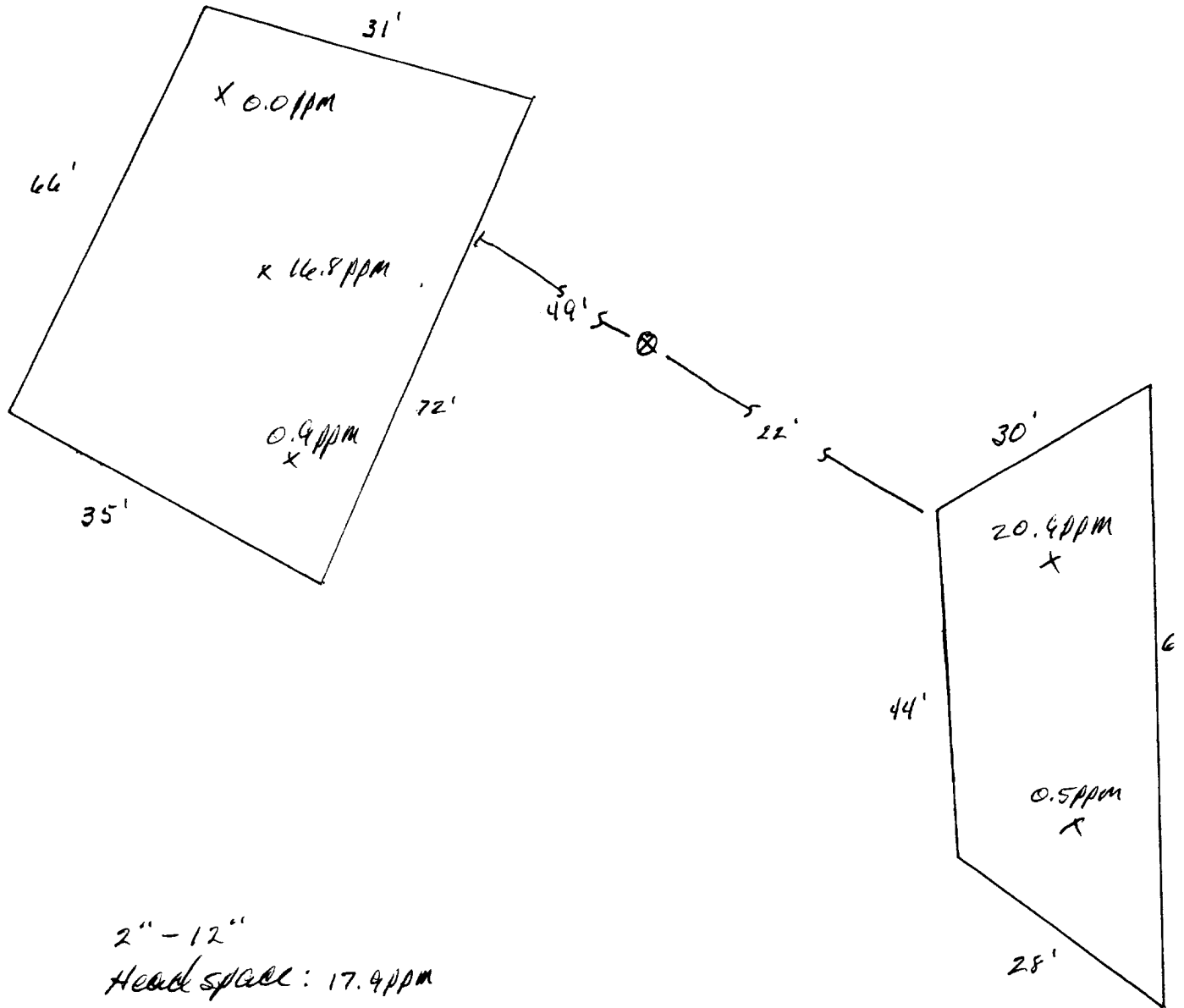
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DULCE, NEW MEXICO 87528

SUBMIT 1 COPY TO
NATURAL
RESOURCE DEPT
AND OIL GAS
ADMINISTRATION

ON-SITE SOIL REMEDIATION REPORT

Operator: PNM Gas Services (<u>WFS</u>) Telephone: <u>324-3764</u>	
Address: <u>603 W. Elm Street Farmington, NM 87401</u>	
Facility or Well Name: <u>Axi Apache N9 Drip</u>	
Location: Unit: <u>N</u> Sec. <u>11</u> T. <u>25</u> N R. <u>4</u> W County <u>Rio Arriba</u>	
Land Type: <u>Jicarilla Apache</u>	
Date Remediation Started: <u>11-17-98</u> Date Completed: <u>12-15-98</u>	
Remediation Method: Landfarmed <u>X</u> Approx. cubic yards <u>136</u> Composted <u> </u> Other <u> </u>	
Depth to Ground Water: (pts.) <u>0</u> Distance to an Ephemeral Stream: (pts.) <u>0</u> Distance to Nearest Lake, Playa, or Watering Pond: (pts.) <u>0</u> Wellhead Protection Area: (pts.) <u>0</u> Distance to Surface Water: (pts.) <u>0</u> Ranking Score (Total Points): <u>0</u>	Final Closure Sampling: Sampling Date: <u>12-9-98</u> Time <u>1254</u> Sampling Results: Field Headspace (ppm) <u>17.4</u> TPH (ppm) <u>37</u> Method <u>8015</u> Other <u> </u>
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF	
DATE <u>12-20-98</u> PRINTED NAME <u>Roy Burnham Ray Haston</u>	
SIGNATURE <u>Ray Haston</u> AND TITLE <u>Environmental Technician III</u>	
AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION, ON-SITE REMEDIATION APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE	
APPROVED: YES <u>X</u> NO <u> </u> (REASON) <u>we are Backfill</u>	
SIGNED: <u>Kim C Mendel</u> DATE: <u>12-28-98</u>	

Axi Apache N9 Drip on Axi Apache N9
(N) 11-25-N-4W
WFS



not to scale

OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 17-Dec-98

CLIENT: PNM - Public Service Company of NM
Project: Jicarilla Pit Remediation
Lab Order: 9812019

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.

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 17-Dec-98

Client:	PNM - Public Service Company of NM	Client Sample Info:	Axi Apache N-9 Drip LF
Work Order:	9812019	Client Sample ID:	9812091259 6pt Composite
Lab ID:	9812019-04A	Matrix:	SOIL
Project:	Jicarilla Pit Remediation	Collection Date:	12/9/98 12:59:00 PM
		COC Record:	7451

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	37	25		mg/Kg	1	12/15/98

Qualifiers:

PQL - Practical Quantitation Limit

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