

Operator:	PNM Gas Services (WFS)	Telephone:	324-3764
Address:	603 W. Elm Street Farmington, NM 87401		
Facility or Well Name:	JICARILLA L-4 DRIP		
Location:	Unit: <u>G</u>	Sec. <u>9</u>	T. <u>24 N</u> R. <u>5 W</u> County <u>Rio Arriba</u>
Pit Type:	Separator <u> </u>	Dehydrator <u> </u>	Other <u>Line Drip</u>
Land Type:	Jicarilla Apache		

Pit Location:	Pit dimensions:	length <u>18'</u>	width <u>18'</u>	depth <u>3'</u>
(Attach diagram)	Reference:	wellhead <u> </u>	other <u>DRIP RISE</u>	
	Footage from reference:	<u>25'</u>		
	Direction from reference:	<u>DUE</u> Degrees <u> </u> East	North <u>X</u>	
		<u> </u> West	of South <u> </u>	

Depth to Ground Water:		Less than 50 feet	(20 points)	
(Vertical distance from contaminants to seasonal high water elevation of ground water)		50 feet to 99 feet	(10 points)	<u>0</u>
		Greater than 100 feet	(0 points)	<u>0</u>

Wellhead Protection Area:		Yes	(20 points)	
(Less than 200 feet from a private domestic water source, or, less than 1,000 feet from all other water sources)		No	(0 points)	<u>0</u>

Distance to Surface Water:		Less than 200 feet	(20 points)	
(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)		200 feet to 1,000 feet	(10 points)	<u>0</u>
		Greater than 1,000 feet	(0 points)	<u>0</u>

Distance to Ephemeral Stream (dry wash):		Less than or equal to 100 feet	(10 points)	
(Horizontal distance to all downgradient streams having a width of at least 10 feet)		Greater than 100 feet	(0 points)	<u>0</u>

Distance to Nearest Lake, Playa, or Watering Pond:		Less than or equal to 100 feet	(10 points)	
(Horizontal distance to all downgradient lakes, playas and livestock or wildlife water ponds)		Greater than 100 feet	(0 points)	<u>0</u>

RANKING SCORE (TOTAL POINTS):	<u>0</u>
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Date Remediation Started: 6/29/98 Date Completed: 12/15/98

Remediation Method: Excavation X Approx. Cubic Yards 607

(Check all appropriate sections)

Landfarmed X Amount Landfarmed (cubic yds): 607

Other _____

Remediation Location: Onsite _____ Offsite Jicarilla L-4

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

General Description of Remedial Action:

Removed contaminated soil from all four side walls and pit bottom as to get a below 100 ppm headspace reading. Final excavation: 31' X 23' X 23'.

Ground Water Encountered: No X Yes _____ Depth _____

Final Pit Closure Sampling:

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

Sample Location North East, South West side walls and pit bottom

Sample depth 23'

Sample date 6/30/98 Sample time 1134

Sample Results

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

Total BTEX (ppm) _____ Toluene (ppb) _____

Field headspace (ppm) 25.4 (bottom)
28.0 (north wall) Ethylbenzene (ppb) _____

TPH ND ppm Method 8015 Total Xylenes (ppb) _____

Ground Water Sample: Yes _____ No X (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 7/11/98

PRINTED NAME Roy Burnham

SIGNATURE Roy Burnham

AND TITLE Environmental Technician II

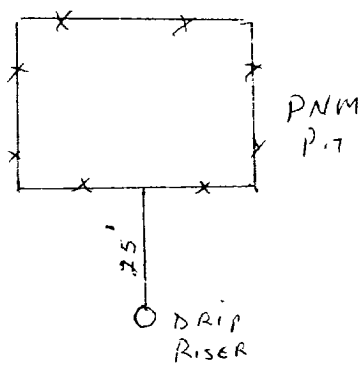
AFTER REVIEW OF THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE TO JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.

APPROVED: YES X NO _____ (REASON): _____

SIGNED: Ken M. Mank DATE: 7-28-98

Jicarilla L-4 DRIP
Sec-9 T24N R5W unit G
WFS

Site Drawing



JICARILLA L-4 DRIP
Sec-9 T-24N R-5W unit G
WFS

EXCAVATION WALL

31' x 23' x 23'

North Wall
Sample 22'
28.0 ppm

West wall
Sample 21'
9.3 ppm

EAST wall
Sample 21'
4.4 ppm

37.3 ppm

20.2 ppm

10.1 ppm

South wall
Sample 20'
4.3 ppm

Bottom
Sample 23'
25.4 ppm

5' sample - 1245 ppm
10' sample - 940 ppm
15' sample - 640 ppm
20' sample - 420 ppm
23' sample - 37.3 ppm
23' sample - 20.2 ppm
23' sample - 10.1 ppm

OFF: (505) 325-5667



ON SITE

TECHNOLOGIES, LTD.

LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 10-Jul-93

CLIENT: PNM - Public Service Company of NM
Project: Jicarilla
Lab Order: 9807012

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: 10-Jul-98

Client:	PNM - Public Service Company of NM	Client Sample Info:	Jicarilla L-4 Drip
Work Order:	9807012	Client Sample ID:	9806301136: 3pt. Comp Bottom
Lab ID:	9807012-04A	Matrix:	SOIL
Project:	Jicarilla	Collection Date:	6/30/98 11:36:00 AM
		COC Record:	5643

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	7/8/98

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

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OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 10-Jul-98

Client:	PNM - Public Service Company of NM	Client Sample Info:	Jicarilla L-4 Drip
Work Order:	9807012	Client Sample ID:	9806301135; 4pt. Comp Walls
Lab ID:	9807012-03A	Matrix:	SOIL
Project:	Jicarilla	Collection Date:	6/30/98 11:35:00 AM
		COC Record:	5643

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	7/8/98

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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ON SITE TECHNOLOGIES, LTD. IS A COMPANY WITH THE ENVIRONMENT -

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 #1

Operator: PNM Gas Services (WFS) Telephone: 324-3764	
Address: 603 W. Elm Street Farmington, NM 87401	
Facility or Well Name: JICARILLA L-4 DRIP	
Location:	Unit: G Sec. 9 T. 24 N R. 5 W County: Rio Arriba
Land Type: Jicarilla Apache	
Date Remediation Started: 4/29/98 Date Completed: 8/18/98	
Remediation Method: Landfarmed <input checked="" type="checkbox"/> Approx. cubic yards: 607 303	
Composted: <input type="checkbox"/> Other: <input type="checkbox"/>	
Depth to Ground Water: (pts.) 0	Final Closure Sampling:
Distance to an Ephemeral Stream: (pts.) 0	Sampling Date: 8/13/98 Time: 1254
Distance to Nearest Lake, Playa, or Watering Pond: (pts.) 0	Sampling Results:
Wellhead Protection Area: (pts.) 0	Field Headspace (ppm): 19.8
Distance to Surface Water: (pts.) 0	TPH (ppm): 56 Method: 8015
Ranking Score (Total Points): 0	Other: <input type="checkbox"/>
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF	
DATE: 8/29/98	PRINTED NAME: Roy Burnham
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 <input checked="" type="checkbox"/> NO: <input type="checkbox"/> (REASON): use as Backfill	
SIGNED: K. C. Mammall	DATE: 9-9-98

Ticarcilla L-4 Drip
Sec. 9 T240 R5W Unit G
WFS

Land Farm #1

75'

0.0 ppm

7.2 ppm

105'

14.0 ppm

0.0 ppm

0.3 ppm

19.8 ppm

well has
Ticarcilla,
L-4
location

90'

OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 20-Aug-98

CLIENT: PNM - Public Service Company of NM
Project: PNM Pit Remediation
Lab Order: 9808030

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: 20-Aug-98

Client:	PNM - Public Service Company of NM	Client Sample Info:	Jicarilla L-4 Drip LF
Work Order:	9808030	Client Sample ID:	9808131254; 6pt. Comp.
Lab ID:	9808030-05A	Matrix:	SOIL
Project:	PNM Pit Remediation	Collection Date:	8/13/98 12:54:00 PM
		COC Record:	7332

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	56	25		mg/Kg	1	8/18/98

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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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 #2

Operator: PNM Gas Services (WFS) Telephone: 324-3764
Address: 603 W. Elm Street Farmington, NM 87401
Facility or Well Name: Jicarilla L-4 DRIP
Location: Unit: G Sec. 9 T. 24 N R. 5 W County Rio Arriba
Land Type: Jicarilla Apache

Date Remediation Started: 4/24/98 Date Completed: 12/2/98
Remediation Method: Landfarmed _____ Approx. cubic yards 304
Composted _____
Other _____

Depth to Ground Water: (pts.) 0
Distance to an Ephemeral Stream: (pts.) 0
Distance to Nearest Lake, Playa,
or Watering Pond: (pts.) 0
Wellhead Protection Area: (pts.) 0
Distance to Surface Water: (pts.) 0
Ranking Score (Total Points): 0

Final Closure Sampling:

Sampling Date: 11/23/98 Time 1054
Sampling Results:
Field Headspace (ppm) 4.2
TPH (ppm) 71 Method 8015
Other _____

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

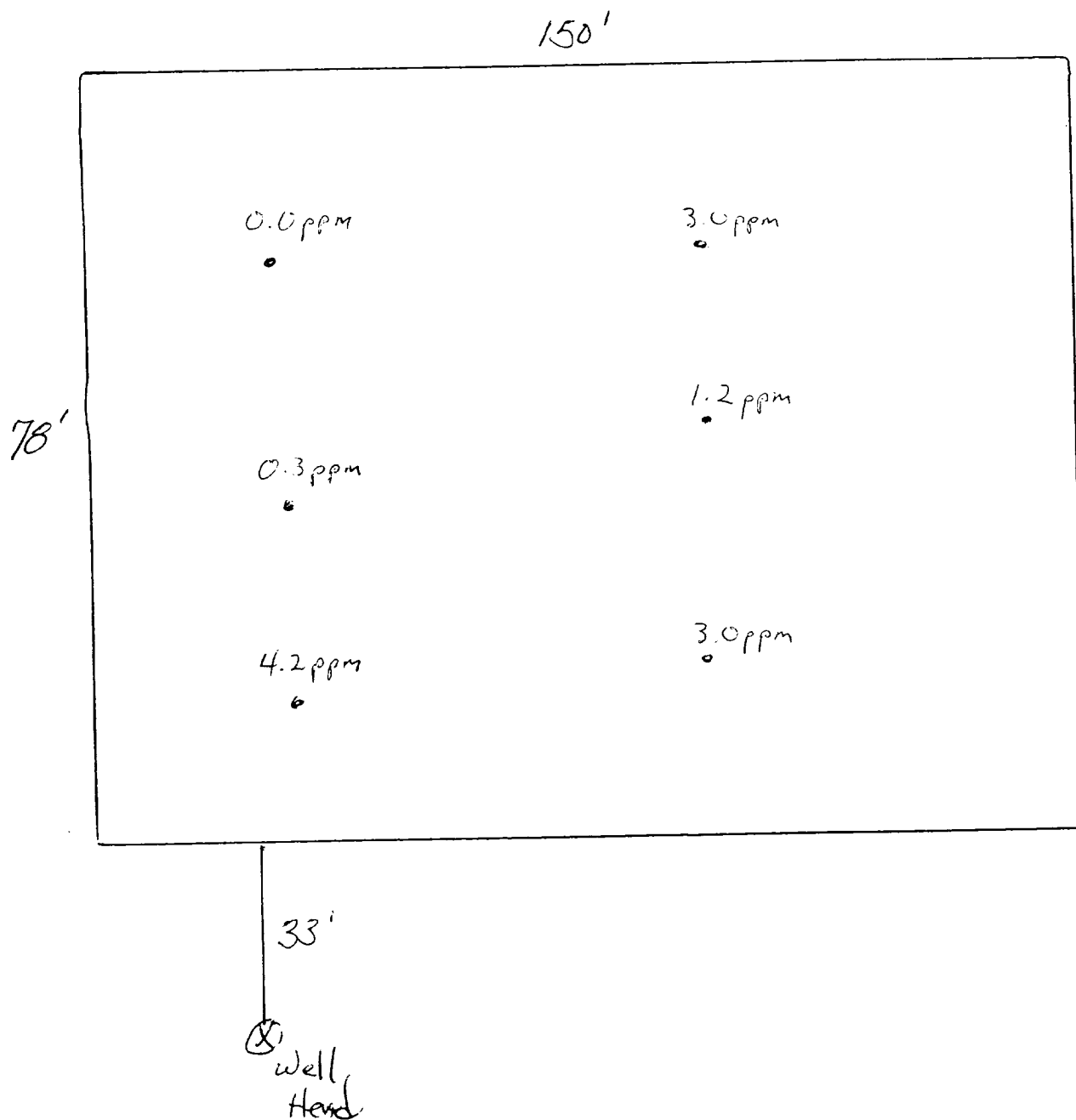
DATE 12/6/98 PRINTED NAME Roy Burnham
SIGNATURE Roy Burnham AND TITLE Environmental Technician II

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) we are Backfill
SIGNED: K. C. M. DATE: 12-15-98

Ticarilla L-4 Drip LF #2
Sec. 9 T24N R5W Unit J
WFS

Land Farm Drawing



OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 04-Dec-98

CLIENT: PNM - Public Service Company of NM

Project: Jicarilla Pit Remediation Landfarms

Lab Order: 9811075

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: 04-Dec-98

Client:	PNM - Public Service Company of NM	Client Sample Info:	Jicarilla L-4 Drip LF #2
Work Order:	9811075	Client Sample ID:	9811231054; 6pt Composite
Lab ID:	9811075-02A	Matrix:	SOIL
Project:	Jicarilla Pit Remediation Landfarms	Collection Date:	11/23/98 10:54:00 AM
		COC Record:	7405

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	71	25		mg/Kg	1	12/2/98

Qualifiers:

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ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

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