

<b>Operator:</b>	PNM Gas Services ( WFS )	<b>Telephone:</b>	324-3764
<b>Address:</b>	603 W. Elm Street Farmington, NM 87401		
<b>Facility or Well Name:</b>	JICARILLA G-8A DRIP		
<b>Location:</b>	Unit: <u>P</u>	Sec. <u>2</u>	T. <u>26 N</u> R. <u>5 W</u> County <u>Rio Arriba</u>
<b>Pit Type:</b>	Separator <u>      </u>	Dehydrator <u>      </u>	Other <u>Line Drip</u>
<b>Land Type:</b>	Jicarilla Apache		

<b>Pit Location:</b>	Pit dimensions:	length <u>20</u>	width <u>20</u>	depth <u>4</u>
(Attach diagram)	Reference:	wellhead <u>      </u>	other <u>Drip column</u>	
	Footage from reference:	<u>45'</u>		
	Direction from reference:	<u>60</u> Degrees	East <u>      </u>	North <u>      </u>
			West <u>      </u>	South <u>      </u>
			of	

<b>Depth to Ground Water:</b>	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>

<b>Wellhead Protection Area:</b>	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>

<b>Distance to Surface Water:</b>	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>

<b>Distance to Ephemeral Stream (dry wash):</b>	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>10</u>

<b>Distance to Nearest Lake, Playa, or Watering Pond:</b>	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>

<b>RANKING SCORE (TOTAL POINTS):</b>	<u>10</u>
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Date Remediation Started:

4/29/98

Date Completed:

7/28/98 RAD  
4/30/98

Remediation Method:

Excavation

X

Approx. Cubic Yards

753

(Check all  
appropriate  
sections)

Landfarmed

X

Amount Landfarmed (cubic yds):

753

Other

Remediation Location:

Onsite

/

Offsite

Jicarilla G-8C

(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 head space  
reading. Final excavation 22' x 33' x 28'.

Ground Water Encountered:

No

X

Yes

Depth

Final Pit Closure  
Sampling:

Sample Location

North, East, South, west Side walls  
and bottom of Pit.(if multiple samples, attach  
sample result and diagram of  
sample locations and  
depths.)

Sample depth

28'

Sample date

4/30/98

Sample time

1045

## Sample Results

Soil: Benzene (ppm)

Water: Benzene (ppb)

Total BTEX (ppm)

Toluene (ppb)

Field headspace (ppm)

23.8 (bottom)

Ethylbenzene (ppb)

TPH

21/10 RAD 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

5/12/98

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:

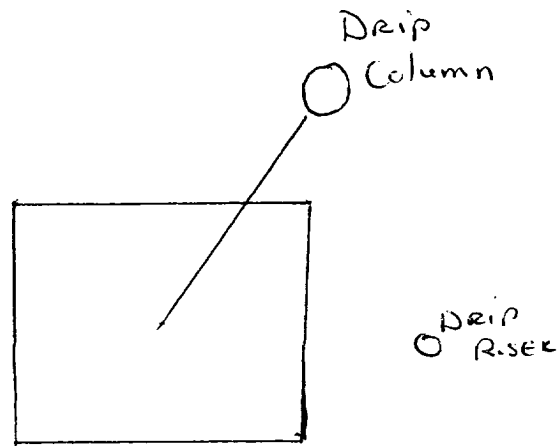
Kee C. M... (signature)

DATE:

5-13-98

Jicarilla G-8A Drip  
Sec 2 T26N R5W  
WFS

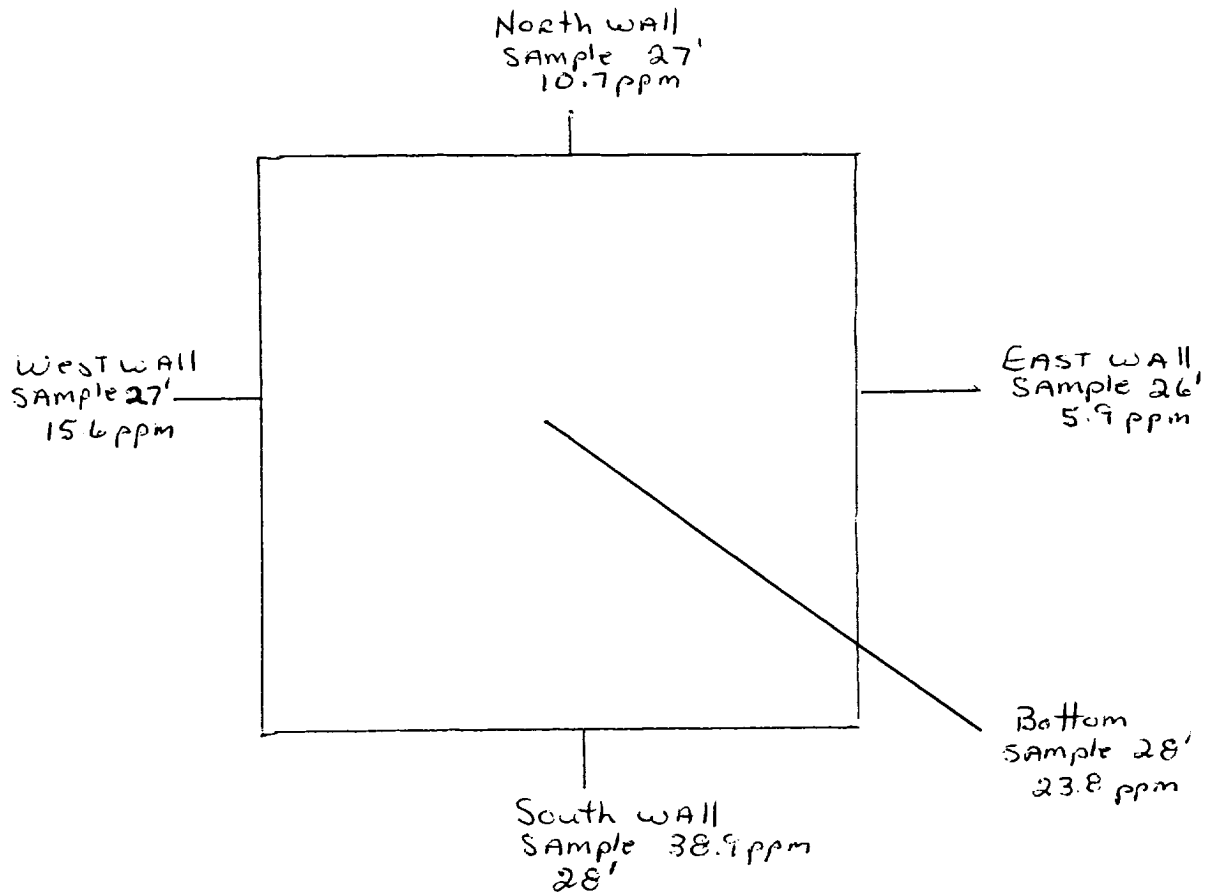
SITE DRAWING



Jicarilla G-8A DRIP  
SEC 2 T26N R5W UNIT P  
(W/FS)

22' x 33' x 28'

## EXCAVATION DRAWING



5' Sample - 1088 ppm  
10' Sample - 986 ppm  
15' Sample - 752 ppm  
20' Sample - 337 ppm  
25' Sample - 168 ppm  
28' Sample - 23.8 ppm

OFF: (505) 325-5667



LAB: (505) 325-1556

**On Site Technologies, LTD.**

**Date:** 06-May-98

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**CLIENT:** PNM - Public Service Company of NM

**Project:** PNM Pit Remediation

**Lab Order:** 9804062

## **CASE NARRATIVE**

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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: 06-May-98

<b>Client:</b>	PNM - Public Service Company of NM	<b>Client Sample Info:</b>	Jicarilla G-8A Drip
<b>Work Order:</b>	9804062	<b>Client Sample ID:</b>	9804301045; 3pt. Bottom
<b>Lab ID:</b>	9804062-04A	<b>Matrix:</b>	SOIL
<b>Project:</b>	PNM Pit Remediation	<b>Collection Date:</b>	4/30/98 10:45:00 AM
		<b>COC Record:</b>	7150

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DIESEL RANGE ORGANICS</b>		<b>SW8015</b>				Analyst: DC
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	4/30/98

**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: 06-May-98

<b>Client:</b>	PNM - Public Service Company of NM	<b>Client Sample Info:</b>	Jicarilla G-8A Drip
<b>Work Order:</b>	9804062	<b>Client Sample ID:</b>	9804301044; 4pt. Composite
<b>Lab ID:</b>	9804062-03A	<b>Matrix:</b>	SOIL
<b>Project:</b>	PNM Pit Remediation	<b>Collection Date:</b>	4/30/98 10:44:00 AM
		<b>COC Record:</b>	7150

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DIESEL RANGE ORGANICS</b>		<b>SW8015</b>				Analyst: DC
T/R Hydrocarbons: C10-C28	31	25		mg/Kg	1	4/30/98

**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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- SPECIALTY IN BLENDING INDUSTRIES - THE QUALITY CONNECTION

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

#1  
ON-SITE SOIL REMEDIATION REPORT

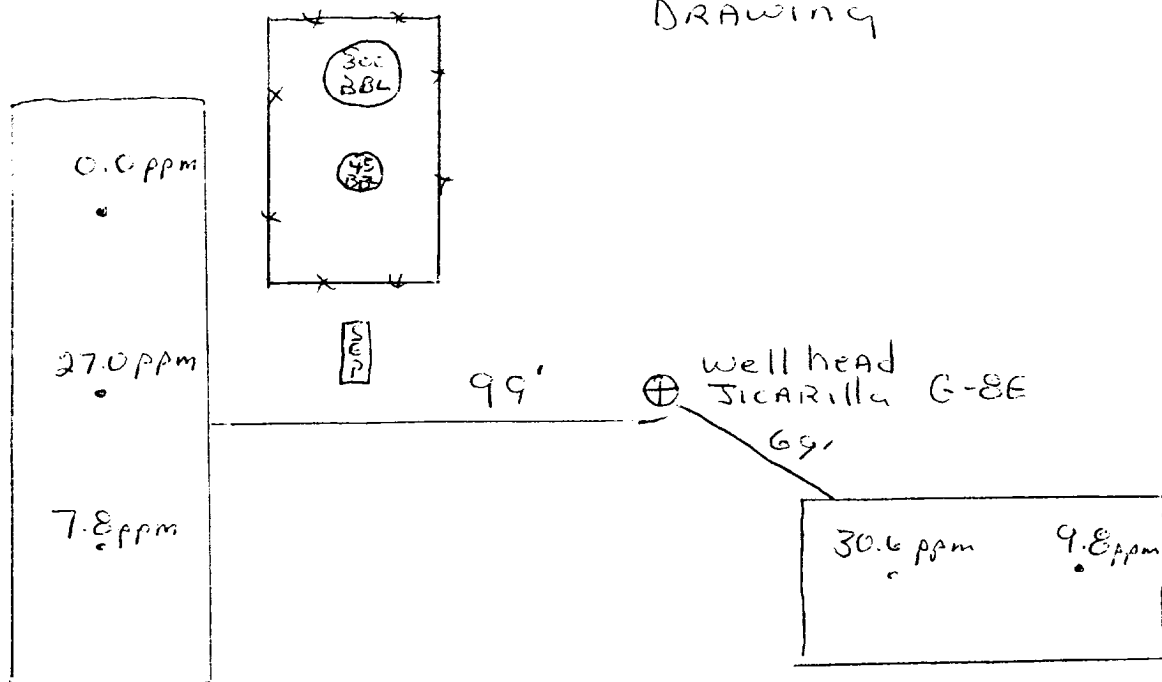
Operator: PNM Gas Services ( <u>WFS</u> ) Telephone: <u>324-3764</u>	
Address: <u>603 W. Elm Street Farmington, NM 87401</u>	
Facility or Well Name: <u>Jicarilla G-8A DRIP</u>	
Location:	Unit: <u>P</u> Sec. <u>2</u> T. <u>26 N</u> R. <u>S</u> W County <u>Rio Arriba</u>
Land Type: <u>Jicarilla Apache</u>	
Date Remediation Started: <u>4/29/98</u> Date Completed: <u>5/1/98</u>	
Remediation Method: Landfarmed <u>X</u> Approx. cubic yards <u>377</u>	
Composted <u>—</u>	
Other <u>—</u>	
Depth to Ground Water: (pts.) <u>0</u>	Final Closure Sampling: Sampling Date: <u>4/1/98</u> Time <u>1430</u> Sampling Results: Field Headspace (ppm) <u>30.6</u> TPH (ppm) <u>ND</u> Method <u>GC/MS</u> Other <u>—</u>
Distance to an Ephemeral Stream: (pts.) <u>10</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>10</u>	
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF	
DATE <u>6/6/98</u> PRINTED NAME <u>Roy Burnham</u>	
SIGNATURE <u>Roy Burnham</u> AND TITLE <u>Environmental Technician II</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>use as Backfill</u>	
SIGNED: <u>Karl C. Ma...</u> DATE: <u>6-10-98</u>	



JICARILLA G-04 DRIP ON G-02 LOCATION  
#1 SEC-2 T26N R5W UNIT

#1

LAND FARM  
DRAWING



OFF: (505) 325-5667



LAB: (505) 325-1556

**On Site Technologies, LTD.**

**Date:** 03-Jun-98

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**CLIENT:** PNM - Public Service Company of NM

**Project:** Jicarilla Landfarm

**Lab Order:** 9806004

## **CASE NARRATIVE**

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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: 03-Jun-98

<b>Client:</b>	PNM - Public Service Company of NM	<b>Client Sample Info:</b>	Jicarilla G-8A Drip Landfarm
<b>Work Order:</b>	9806004	<b>Client Sample ID:</b>	9806011430; 6pt. Comp.
<b>Lab ID:</b>	9806004-01A	<b>Matrix:</b>	SOIL
<b>Project:</b>	Jicarilla Landfarm	<b>Collection Date:</b>	6/1/98 2:30:00 PM
		<b>COC Record:</b>	7035

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

**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

1 of 1

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ENVIRONMENTAL  
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P.O. BOX 507  
DULCE, NEW MEXICO 87528

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AND OIL-GAS  
ADMINISTRATION

# 2

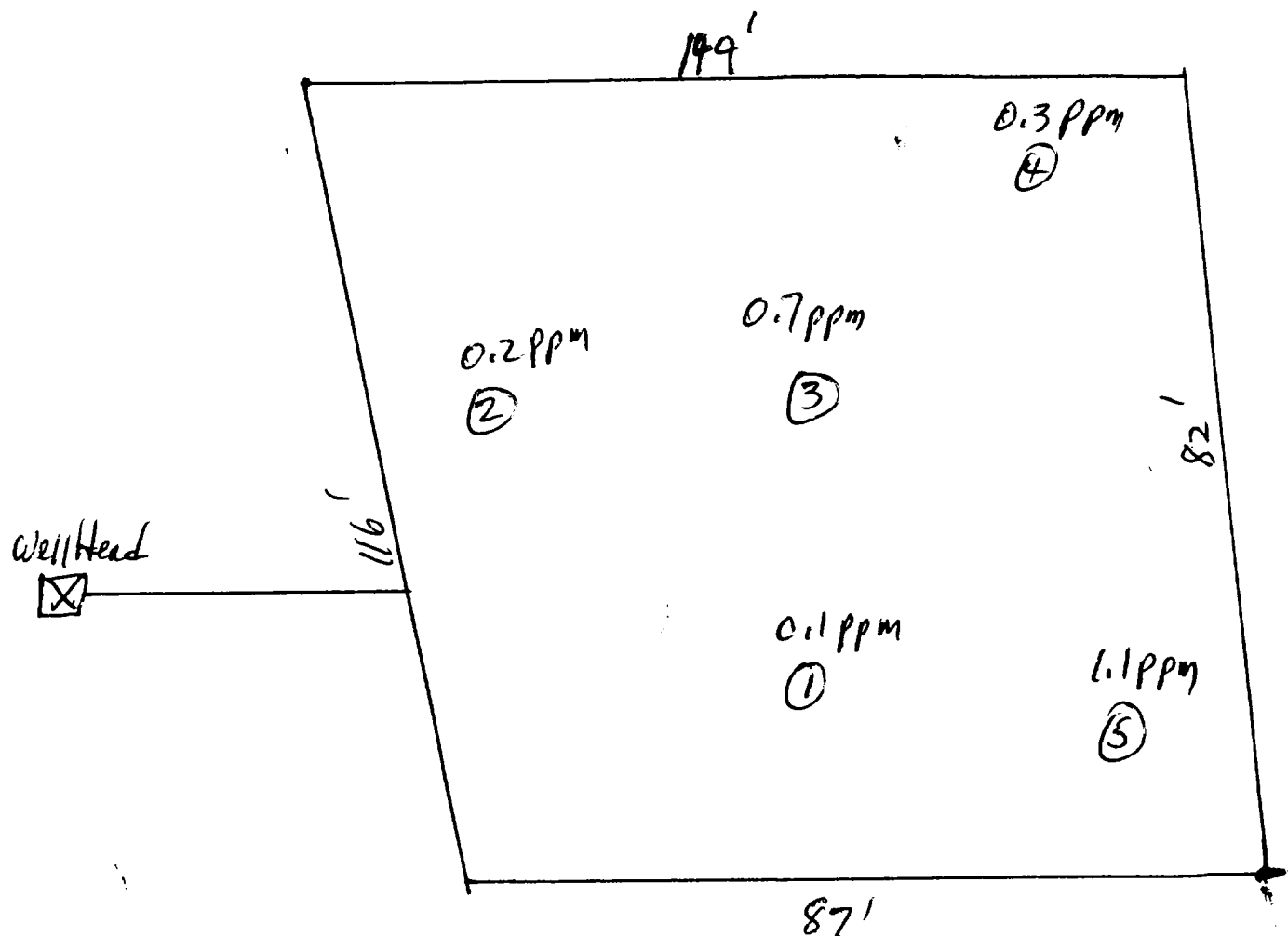
ON-SITE SOIL REMEDIATION REPORT

<b>Operator:</b> PNM Gas Services ( <u>WFS</u> ) <b>Telephone:</b> <u>324-3764</u>	
<b>Address:</b> <u>603 W. Elm Street Farmington, NM 87401</u>	
<b>Facility or Well Name:</b> <u>JICARILLA G-8A DRIP</u>	
<b>Location:</b> Unit: <u>P</u> Sec. <u>2</u> T. <u>26 N</u> R. <u>5 W</u> County <u>Rio Arriba</u>	
<b>Land Type:</b> <u>Jicarilla Apache</u>	
<b>Date Remediation Started:</b> <u>4/24/98</u> <b>Date Completed:</b> <u>6/26/98</u>	
<b>Remediation Method:</b> Landfarmed <input checked="" type="checkbox"/> Approx. cubic yards <u>376</u> Composted <input type="checkbox"/> Other <input type="checkbox"/>	
<b>Depth to Ground Water:</b> (pts.) <u>6</u> <b>Distance to an Ephemeral Stream:</b> (pts.) <u>10</u> <b>Distance to Nearest Lake, Playa, or Watering Pond:</b> (pts.) <u>6</u> <b>Wellhead Protection Area:</b> (pts.) <u>6</u> <b>Distance to Surface Water:</b> (pts.) <u>6</u> <b>Ranking Score (Total Points):</b> <u>10</u>	<b>Final Closure Sampling:</b> <b>Sampling Date:</b> <u>6/23/98</u> <b>Time</b> <u>0915</u> <b>Sampling Results:</b> <b>Field Headspace (ppm)</b> <u>1.1</u> <b>TPH (ppm)</b> <u>ND</u> <b>Method</b> <u>8015</u> <b>Other</b> _____
<p>I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF</p> <p><b>DATE</b> <u>7/14/98</u> <b>PRINTED NAME</b> <u>Roy Burnham</u></p> <p><b>SIGNATURE</b> <u>Roy Burnham</u> <b>AND TITLE</b> <u>Environmental Technician II</u></p>	
<p>AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION, ON-SITE REMEDIATION APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE</p> <p><b>APPROVED:</b> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> (REASON) <u>use as Backfill</u></p> <p><b>SIGNED:</b> <u>Kent Mamm</u> <b>DATE:</b> <u>7-28-98</u></p>	

4

JICARILIA G-BA DRIP  
WILLIAMS FIELD SERVICES  
UNIT P SEC 2 T26N R5W  
LANDFARM #2 ON BE

↑  
N



OFF: (505) 325-5667

**ON SITE**

LAB: (505) 325-1556

**TECHNOLOGIES, LTD.**

**On Site Technologies, LTD.**

**Date:** 29-Jun-98

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**CLIENT:** PNM - Public Service Company of NM

**Project:** Jicarilla Landfarms

**Lab Order:** 9806092

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**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

**ON SITE**  
TECHNOLOGIES, LTD.

LAB: (505) 325-1556

**ANALYTICAL REPORT**

**Date:** 29-Jun-98

<b>Client:</b>	PNM - Public Service Company of NM	<b>Client Sample Info:</b>	Jicarilla G-8A Drip LF #2
<b>Work Order:</b>	9806092	<b>Client Sample ID:</b>	9806230915; 5pt. Comp.
<b>Lab ID:</b>	9806092-01A	<b>Matrix:</b>	SOIL
<b>Project:</b>	Jicarilla Landfarms	<b>Collection Date:</b>	6/23/98 9:15:00 AM
		<b>COC Record:</b>	7060

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DIESEL RANGE ORGANICS</b>		<b>SW8015</b>				<b>Analyst: DC</b>
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	6/26/98

<b>Qualifiers:</b>	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

1 of 1