

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

RECEIVED
APR 29 1999

OIL CON. DIV.
DIST. 3

Operator:	PNM Gas Services (<u>Conoco</u>)	Telephone:	324-3764
Address:	603 W. Elm Street Farmington, NM 87401		
Facility or Well Name:	<u>Jicarilla K-5</u>		
Location:	Unit: <u>0</u>	Sec. <u>2</u>	T. <u>25 N</u> R. <u>5 W</u> County <u>Rio Arriba</u>
Pit Type:	Separator <u>X</u> Dehydrator <u> </u> Other <u> </u>		
Land Type:	<u>Jicarilla Apache</u>		

Pit Location:	Pit dimensions:	length <u>20'</u>	width <u>20'</u>	depth <u>3'</u>
(Attach diagram)	Reference:	wellhead <u>X</u>	other <u> </u>	
	Footage from reference:	<u>87'</u>		
	Direction from reference:	<u>15°</u> Degrees	<u> </u> East	North <u> </u>
		<u>X</u> West	of	South <u>X</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> </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> </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>
--------------------------------------	----------

Date Remediation Started: 9/23/98 Date Completed: 12/15/98 ^{RAD}
9/28/98
Remediation Method: Excavation ☒ Approx. Cubic Yards 1658
(Check all appropriate sections) Landfarmed ☒ Amount Landfarmed (cubic yds): 1658 1600
Other 58 cu. yds clean overburden

Remediation Location: Onsite ☒ Offsite ☐
(i.e., landfarmed onsite, name and location of offsite facility)

General Description of Remedial Action:

Removed contaminated soil from all 4 side walls
and pit as to get a below 100 ppm head space reading
At 28' depth bottom was rock. 39'x41'x28'

Ground Water Encountered: No ☒ Yes ☐ Depth

Final Pit Closure Sampling:

Sample Location North wall, South wall, east wall & west wall
Bottom 3 pt. composite

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

Sample depth 28'

Sample date 9/28/98 Sample time 0935

Sample Results

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

Total BTEX (ppm) 12.76 Toluene (ppb)

Field headspace (ppm) 1674 Ethylbenzene (ppb)

TPH ND ppm Method TPH-8015 Total Xylenes (ppb)

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 9/28/98

PRINTED NAME Gary Cook
Ray Burkhon

SIGNATURE Mary Cook

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: Kurt M...a DATE: 11-2-98

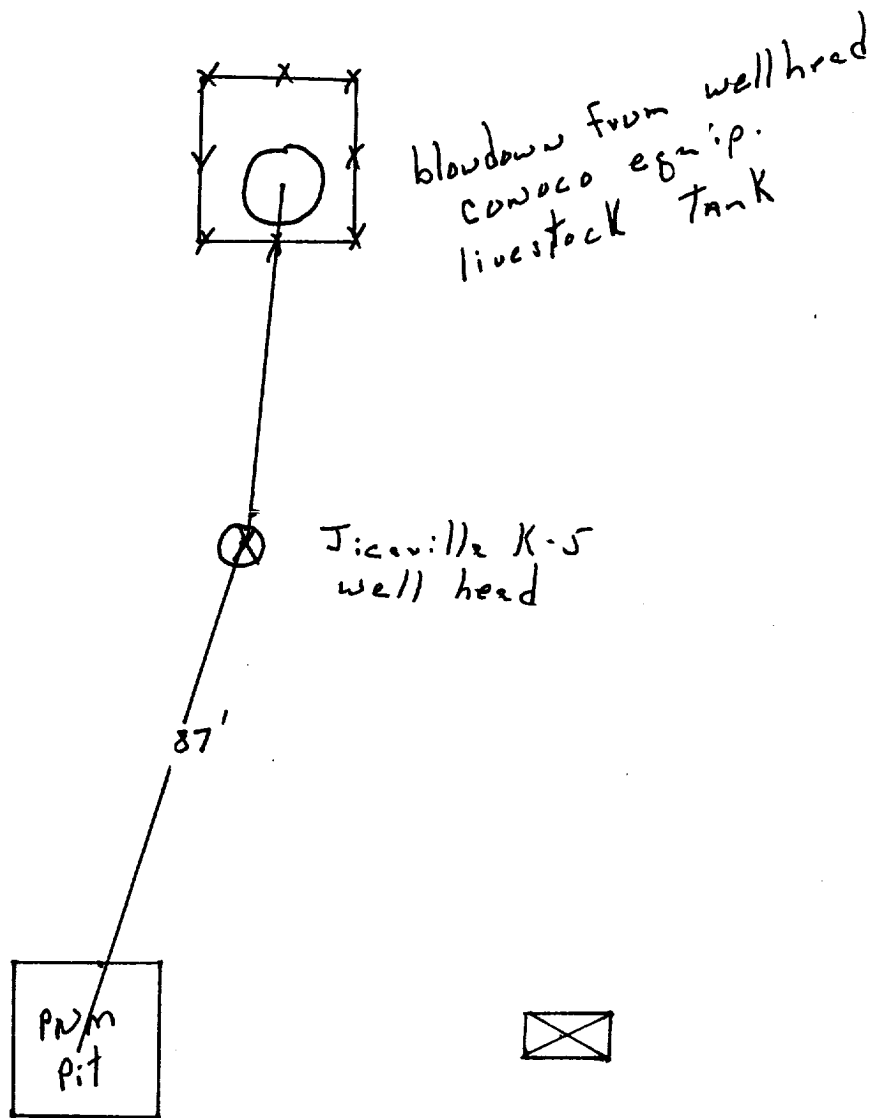
Jicarilla K-5

Conoco

Sec. 2, 25N, 5W, 0

9/23/98

Site diagram:



separator disconnected
& moved to edge
of location

not to scale

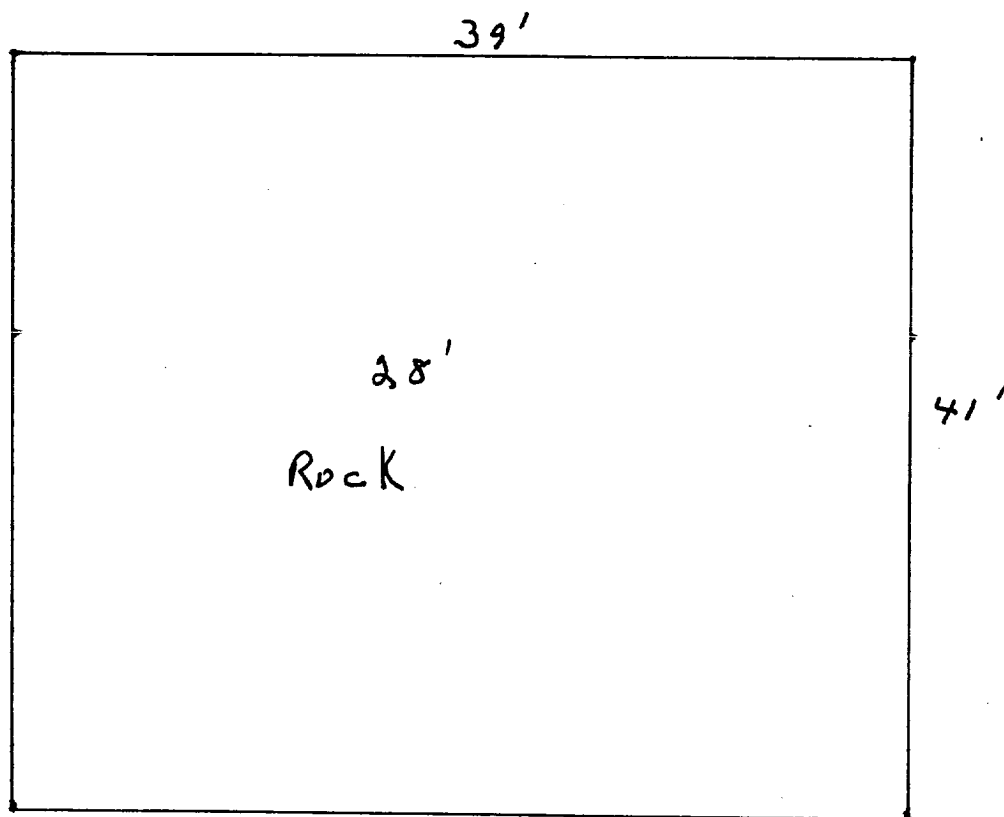
Jicaville K-5

9/28/98

CONOCO

Sec. 2, 25N, 5W, 0

end of excavation:



not to scale

OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 14-Oct-98

CLIENT: PNM - Public Service Company of NM

Project: Jicarilla Pit Remediation

Lab Order: 9810008

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: 14-Oct-98

Client: PNM - Public Service Company of NM
Work Order: 9810008
Lab ID: 9810008-01A **Matrix:** SOIL
Project: Jicarilla Pit Remediation

Client Sample Info: Jicarilla K-5
Client Sample ID: 9809280935; Bottom @ 28ft.
Collection Date: 9/28/98 9:35:00 AM
COC Record: 7392

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: DC
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	10/9/98
BTEX		SW8020A				Analyst: DC
Benzene	ND	250		µg/Kg	250	10/8/98
Toluene	960	500		µg/Kg	250	10/8/98
Ethylbenzene	1100	250		µg/Kg	250	10/8/98
m,p-Xylene	8900	500		µg/Kg	250	10/8/98
o-Xylene	1800	250		µg/Kg	250	10/8/98

12,760

12.760 ppm

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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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

1 of 1

**ANALYTICAL REPORT**

Date: 14-Oct-98

Client: PNM - Public Service Company of NM
Work Order: 9810008
Lab ID: 9810008-02A **Matrix:** SOIL
Project: Jicarilla Pit Remediation

Client Sample Info: Jicarilla K-5
Client Sample ID: 9809281150; Walls @ 18ft.
Collection Date: 9/28/98 11:50:00 AM
COC Record: 7392

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS						
		SW8015				Analyst: DC
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	10/9/98
BTEX						
		SW8020A				Analyst: DC
Benzene	ND	1		µg/Kg	1	10/8/98
Toluene	ND	2		µg/Kg	1	10/8/98
Ethylbenzene	ND	1		µg/Kg	1	10/8/98
m,p-Xylene	ND	2		µg/Kg	1	10/8/98
o-Xylene	ND	1		µg/Kg	1	10/8/98

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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JICARILLA APACHE TRIBE
ENVIRONMENTAL
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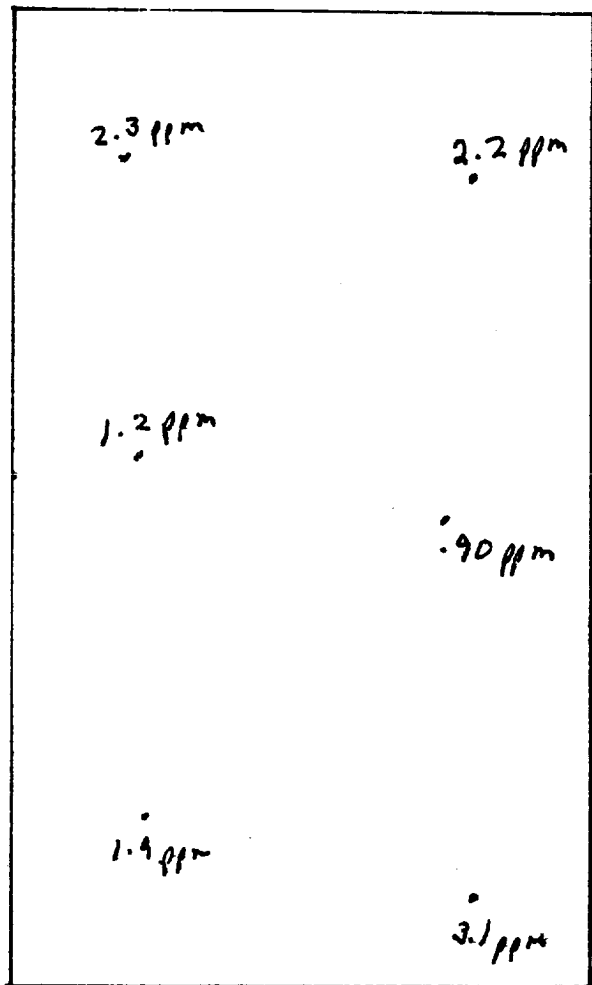
ON-SITE SOIL REMEDIATION REPORT

Operator: PNM Gas Services (<u>CONOCO</u>) Telephone: <u>324-3764</u>	
Address: <u>603 W. Elm Street Farmington, NM 87401</u>	
Facility or Well Name: <u>Jicarilla K-5</u>	
Location: Unit: <u>0</u> Sec. <u>2</u> T. <u>25</u> N R. <u>5</u> W County <u>Rio Arriba</u>	
Land Type: <u>Jicarilla Apache</u>	
Date Remediation Started: <u>9/23/98</u> Date Completed: <u>9/28/98</u>	
Remediation Method: Landfarmed <u>X</u> Approx. cubic yards <u>600</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>11/12/98</u> Time <u>0924</u> Sampling Results: Field Headspace (ppm) <u>6.3 ppm</u> TPH (ppm) <u>ND</u> Method <u>TPH-801</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>11/25/98</u>	PRINTED NAME <u>Ray Burnham Gary Cook</u>
SIGNATURE <u>Mary Cook</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> </u>	
SIGNED: <u>Ken C. Marshall</u>	DATE: <u>2-17-99</u>

Jicavilla K-5
CONOCO
Sec. 2, 25N, 5W, 0

8/28/98

Landfarm: On location
approximately 600 yds \uparrow
N



⊗ Jicavilla K-5
well head

2"-12" depth
soil vapor head space reading = 6.3 ppm

not to scale

OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 19-Nov-98

CLIENT: PNM - Public Service Company of NM
Project: Jicarilla Pit Remediation
Lab Order: 9811041

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: 19-Nov-98

Client:	PNM - Public Service Company of NM	Client Sample Info:	Jicarilla K-5 LF
Work Order:	9811041	Client Sample ID:	9811120924; 6pt. Comp.
Lab ID:	9811041-03A	Matrix:	SOIL
Project:	Jicarilla Pit Remediation	Collection Date:	11/12/98 9:24:00 AM
		COC Record:	7401

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: DC
T/R Hydrocarbons: C10-C28	ND	50		mg/Kg	2	11/16/98

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

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

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AND OIL GAS
ADMINISTRATION

ON-SITE SOIL REMEDIATION REPORT

Operator: PNM Gas Services (<u>Conoco</u>) Telephone: <u>324-3764</u>	
Address: <u>603 W. Elm Street Farmington, NM 87401</u>	
Facility or Well Name: <u>Jicarilla K-5 Landfarm #2</u>	
Location: Unit: <u>C</u> Sec. <u>2</u> T. <u>25 N</u> R. <u>5 W</u> County <u>Rio Arriba</u>	
Land Type: <u>Jicarilla Apache</u>	
Date Remediation Started: <u>9/23/98</u> Date Completed: <u>9/28/98</u>	
Remediation Method: Landfarmed <u>X</u> Approx. cubic yards <u>300</u>	
Composted <u> </u>	
Other <u> </u>	
Depth to Ground Water: (pts.) <u>0</u>	Final Closure Sampling: Sampling Date: <u>12/14/98</u> Time <u>0707</u> Sampling Results: Field Headspace (ppm) <u>30.1</u> TPH (ppm) <u>20</u> Method <u>TPH-8015</u> Other <u> </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>	
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF	
DATE <u>1/26/99</u>	PRINTED NAME <u>Ray Durham Gary Cook</u>
SIGNATURE <u><i>Mary Cook</i></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> </u>	
SIGNED: <u><i>Kenn C. Mc...</i></u>	DATE: <u>2-17-99</u>

Jicavilla K-5
Conoco
Sec. 2, 25 N, 5 W, 0

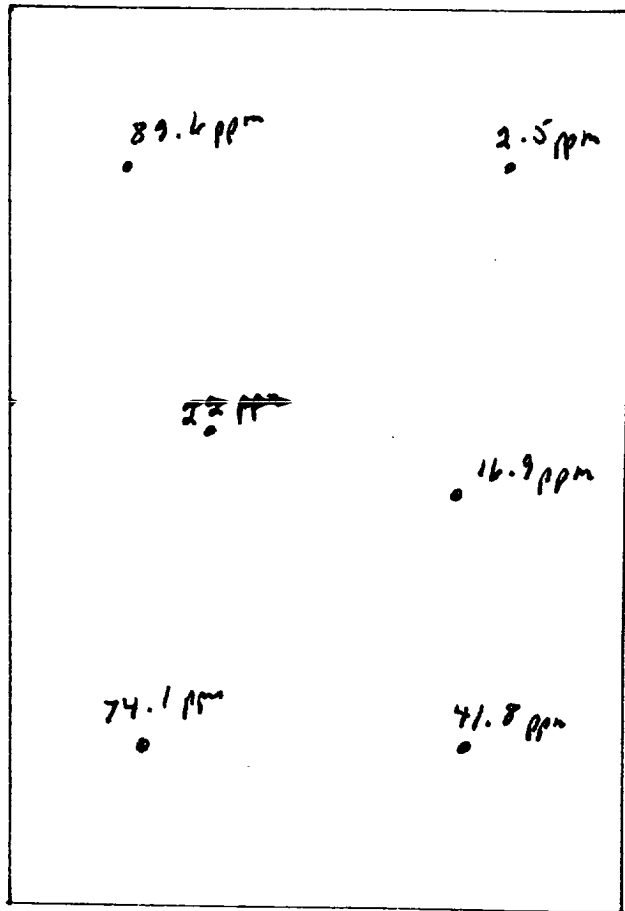
12-6-98

Landfarm: On location

Landfarm #2

Approximately 300 yds

staged pile layed
down after clean
landfarm was pushed
into open pit



↑
N

⊗ Jicavilla K-5
well head

2"-12" depth
soil vapor head space reading = 30.1 ppm

not to scale

OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 21-Dec-98

CLIENT: PNM - Public Service Company of NM

Project: Jicarilla Pit Remediation

Lab Order: 9812030

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: 21-Dec-98

Client:	PNM - Public Service Company of NM	Client Sample Info:	Jicarilla K-5 LF #2
Work Order:	9812030	Client Sample ID:	9812140757 6pt Composite
Lab ID:	9812030-03A	Matrix:	SOIL
Project:	Jicarilla Pit Remediation	Collection Date:	12/14/98 7:57:00 AM
		COC Record:	7452

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	12/18/98

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

1 of 1

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ADMINISTRATION

ON-SITE SOIL REMEDIATION REPORT

Operator: PNM Gas Services (<u>CONOCO</u>) Telephone: <u>324-3764</u>	
Address: <u>603 W. Elm Street Farmington, NM 87401</u>	
Facility or Well Name: <u>Jicarilla K-5 Landfarm #3</u>	
Location:	Unit: <u>0</u> Sec. <u>2</u> T. <u>25</u> N R. <u>5</u> W County <u>Rio Arriba</u>
Land Type: <u>Jicarilla Apache</u>	
Date Remediation Started: <u>9/23/98</u> Date Completed: <u>9/28/98</u>	
Remediation Method: Landfarmed <u>X</u> Approx. cubic yards <u>700</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>12/14/98</u> Time <u>0810</u> Sampling Results: Field Headspace (ppm) <u>59.6</u> TPH (ppm) <u>ND</u> Method <u>TPH-8010</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>1-26-99</u> PRINTED NAME <u>Boy Burnham Gary Cook</u>	
SIGNATURE <u><i>Gary Cook</i></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> </u>	
SIGNED: <u><i>K. C. M...</i></u> DATE: <u>2-17-99</u>	

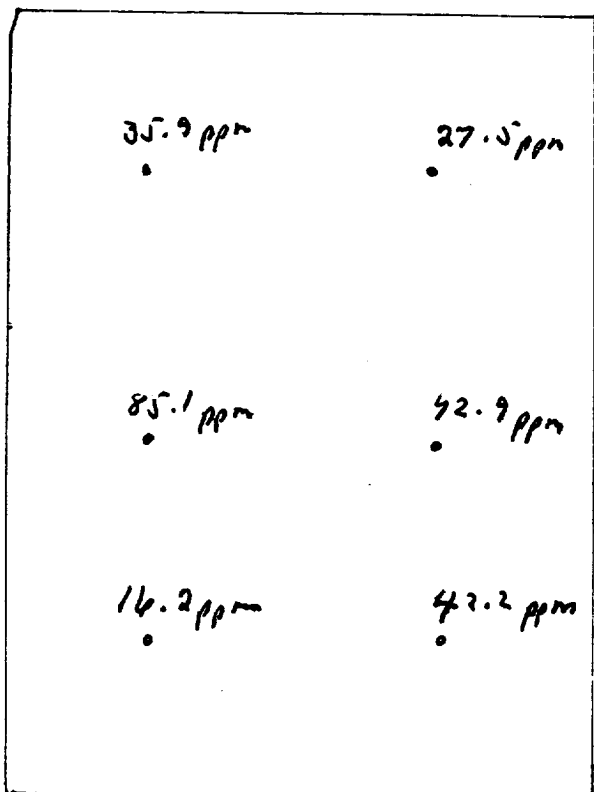
Jicaville K-5
Conoco
Sec. 2, 25N, 5W, 0

12-6-98

Land Farmed: Jicaville K-22
Conoco
Sec. 2, 25N, 5W, 0

↑
N

(Land Farm #3)
Approximately 700 yds



⊗ Jicaville K-22
well head

2"-12" depth
soil vapor head space reading = 59.6 ppm

not to scale

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 21-Dec-98

Client:	PNM - Public Service Company of NM	Client Sample Info:	Jicarilla K-5 LF #3
Work Order:	9812030	Client Sample ID:	9812140810 6pt Composite
Lab ID:	9812030-04A	Matrix:	SOIL
Project:	Jicarilla Pit Remediation	Collection Date:	12/14/98 8:10:00 AM
		COC Record:	7452

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	12/18/98

open pit was backfilled from borrow pit
at K-Well compressor

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

1 of 1

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