DEPUTY OIL & GAS INSPECTOR

FEB 0 8 1999

#### JICARILLA APACHE TRIBE

**ENVIRONMENTAL PROTECTION OFFICE** 

SUBMIT 1 COPY TO NATURAL RESOURCE DEPT AND OIL GAS ADMINISTRATION

Approved

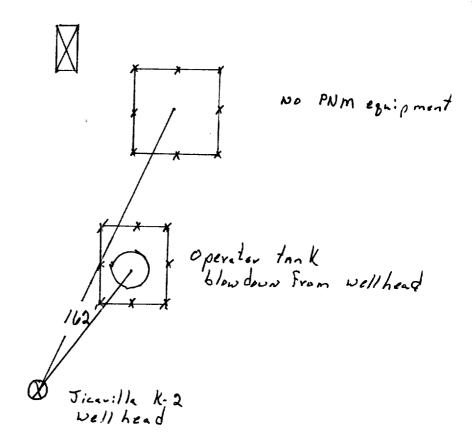
P.O. BOX 507 DULCE, NEW MEXICO 87528

### PIT REMEDIATION AND CLOSURE REPORT

Operator: PNM Gas Services ( Con	) Telephone: 324-3764						
Address: 603 W. Elm Street Farmington, NM 87401							
Facility or Well Name: Jicavilla	(-2						
Location: Unit: 8 Sec. //	T. 25N R. 5W County Rio Arriba						
Pit Type: Separator X Dehydrator	Other No PNM exament						
Land Type:	Connected.						
Pit Location: Pit dimensions: length	ຊບ໌ width <u>ຊ</u> ມ໌ depth <u>3</u> ໌						
(Attach diagram) Reference: wellhead	Xother						
Footage from reference:	162'						
Direction from reference:	ς Degrees <u>χ</u> East North χ						
	of West South						
Depth to Ground Water: (Vertical distance from contaminants	Less than 50 feet (20 points) 50 feet to 99 feet (10 points)						
to seasonal high water elevation of ground water)	Greater than 100 feet ( 0 points)						
Wellhead Protection Area:	Yes (20 points) No (0 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)						
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)  Greater than 1,000 feet (0 points)						
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)						
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:	9/21/98	_ Date Completed:	12/15/98 RAD				
Remediation Method: Ex	cavation X	Approx. Cubic Yards	1280 490				
(Check all Lar appropriate sections)	ndfarmed	Amount Landfarmed (	cubic yds): 1280 yds				
Remediation Location:  (i.e., landfarmed onsite, name and location of offsite facility)	ensite	Offsite					
General Description of Remedial Action:  Removed Contaminated soil from all 4 side walls and pit bottom as to get a below 100 pm headspace reading.  One bottom of pit to 30' depth and sampled  Excavated pit 48' x 24' x 30'							
Ground Water Encountered:		Depth					
Final Pit Closure Sa Sampling:	ample Location <u>98014308</u> 98012308		pit 3 points.				
sample result and diagram of sample locations and depths.)	ample depth $\frac{\sqrt{3}}{23}$	15', Bottom	/				
·	ole Results	Nater: Benzer	- (h)				
		_	e (ppb)				
	headspace (ppm) / 0 9  2 b ppm Method	 , Ethylbe	enzene (ppb)				
Ground Water Sample:	Yes No	<u>χ</u> (If yes, att	ach sample results)				
I HEREBY CERTIFY THAT THE KNOWLEDGE AND MY BELIE DATE 9/23/	9 <i>8</i> PRII	NTED NAME Roy Bur	TO THE BEST OF MY  Cook  Tham  Ital 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 (REASC	DN):					
SIGNED:	me DA	TE: <u>//-</u> 2	-98				

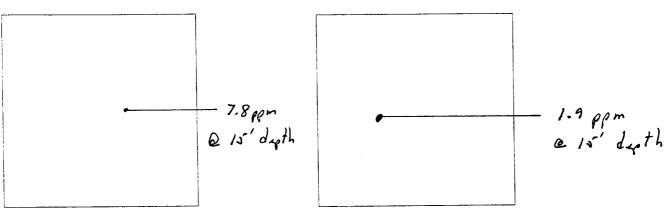
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Jicarilla K-2 CONOCO Sec. 11, 25N, 5W, B

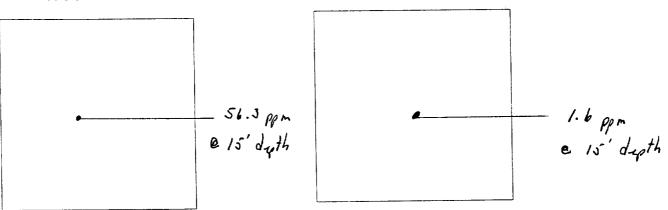
# North Wall

# South Wall

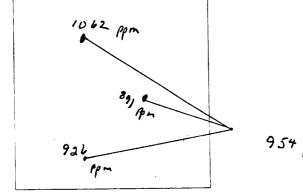


## East Wall





# **Bottom**



3 pt. comp. head space reeding = 1098 ppm

954 ppm @ 30' dqpth



LAB: (505) 325-1556

## On Site Technologies, LTD.

**CLIENT:** 

PNM - Public Service Company of NM

Project:

Jicarilla K-2

Lab Order:

9809072

**CASE NARRATIVE** 

Date: 08-Oct-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: 08-Oct-98

Client:

PNM - Public Service Company of NM

Work Order:

9809072

Lab ID:

9809072-02A

**Project:** Jicarilla K-2

Matrix: SOIL

Client Sample Info: Jicarilla K-2

Client Sample ID: 9809230815; Bottom @ 30ft.

Collection Date: 9/23/98 1.30:00 PM COC Record: 7391 0815Am RAD

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS	SW8015			<del> </del>	A	
T/R Hydrocarbons: C10-C28	26	25		mg/ <b>Kg</b>	1	Analyst: HR
TEX		V8020A		mg/rtg	ŀ	10/5/98
Benzene	ND	50 50		ua/Ka	50	Analyst: DC
Toluene	330	100		μg/Kg	50 50	9/29/98
Ethylbenzene	99	50		μg/Kg	50	9/29/98
m,p-Xylene	570			μg/ <b>Kg</b>	50	9/29/98
o-Xylene		100		μg/ <b>Kg</b>	50	9/29/98
o Aylone	100	50		µg/Kg	50	9/29/98
	1099					
	1099 1.099p	ρ-				

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



LAB: (505) 325-1556

### ANALYTICAL REPORT

Date: 08-Oct-98

Client:

PNM - Public Service Company of NM

Work Order:

9809072

Lab ID:

9809072-01A

Matrix: SOIL

Project:

Jicarilla K-2

Client Sample Info: Jicarilla K-2

Client Sample ID: 9809230830; Walls @ 15ft.

Collection Date: 9/23/98 8:30:00 AM

COC Record: 7391

<b>n</b>					Date Analyzed
Parameter	Result	PQL	Qual Units	DF	
ESEL RANGE ORGANICS SW8015					A
T/R Hydrocarbons: C10-C28	180	25	mg/K	g 1	Analyst: <b>HR</b> 10/5/98
Benzene	SW8020A			Analyst: DC	
Toluene	ND	1	μg/Kg	1	9/29/98
Ethylbenzene	ND	2	μg/ <b>K</b> g	1	9/29/98
m,p-Xylene	2.4	1	µg/ <b>K</b> g	1	9/29/98
0-Xylene	15	2	μg/Kg	1 1	9/29/98
o Aylene	5.4	1	μg/ <b>Kg</b>	1	9/29/98
	22.8				
	.0228,	pu			

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### **ON-SITE SOIL REMEDIATION REPORT**

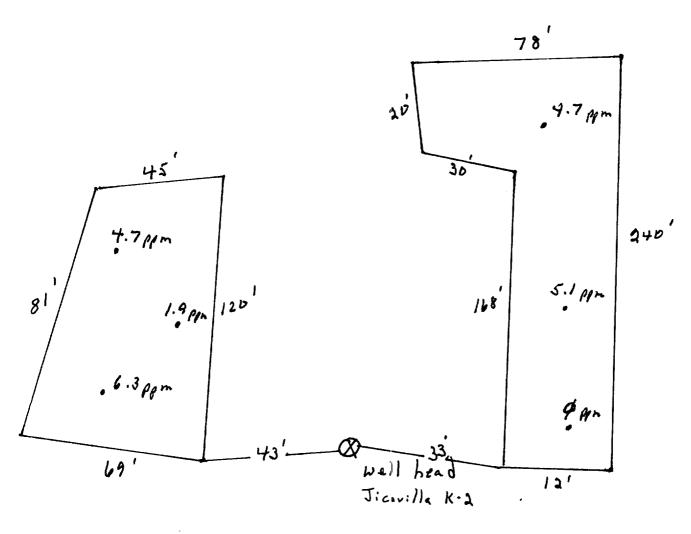
Operator: PNM Gas Services ( Co シッピッ ) T	Telephone: 324-3764
Address: 603 W. Elm Street Farmington, NM 87401	
Facility or Well Name: Jicavilla K-2	
Location: Unit: B Sec. 11 T. 2	J N R. J W County Rio Arriba
Land Type: Jicarilla Apache	
Date Remediation Started: 9/21/98  Remediation Method: Landfarmed X  Composted Other	Approx. cubic yards 1280 y - ds (RAD)
Depth to Ground Water: (pts.) 🕳	Final Closure Sampling:
Distance to an Ephemeral Stream: (pts.)	Sampling Date: 1/12/98 Time 09/2
Distance to Nearest Lake, Playa, (pts.) or Watering Pond:	Sampling Results:
Wellhead Protection Area: (pts.)	Field Headspace (ppm) 16.9 pm
Distance to Surface Water: (pts.)	TPH (ppm) <u>33</u> Method 7 <u>CH-8015</u>
Ranking Score (Total Points):	Other
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COM	_
DATE - 1//25/98 PRINTED NAME	GAVy COUK Boy Burnham
SIGNATURE Many Conk AND TIT	TLE Environmental Technician II
AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION, ON-SITE RI JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE	EMEDIATION APPROVED IN ACCORDANCE TO THE
APPROVED: YES NO (REASON)	use as Backfull
SIGNED: Ken C'Mall DATE:	12-15-98

Jican: 1/2 K-2 CONOCO Sec. 11,25N,5N, B

9/24/98

1

Land Farm location: On Site



2"-12" depth soil vapor head space = 16.9 ppm

LAB: (505) 325-1556

## On Site Technologies, LTD.

**CLIENT:** 

PNM - Public Service Company of NM

Project:

Jicarilla Pit Remediation

Lab Order:

9811041

**CASE NARRATIVE** 

Date: 19-Nov-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: 19-Nov-98

Client:

PNM - Public Service Company of NM

Work Order:

9811041

Lab ID:

9811041-02A

Matrix: SOIL

Project:

Jicarilla Pit Remediation

Client Sample Info: Jicarilla K-2 LF

Client Sample ID: 9811120912; 6pt. Comp. Collection Date: 11/12/98 9:12:00 AM

COC Record: 7401

Parameter	Result	PQL	Qual Un	its	DF	Date Analyzed
DIESEL RANGE ORGANICS T/R Hydrocarbons: C10-C28	<b>SV</b>	<b>/8015</b> 25	mg	g/Kg	1	Analyst: <b>DC</b> 11/16/98

Qualifiers:

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