JUL 1 8 1997

SUBMIT I COPY TO APPROPRIATE DISTRICT OFFICE AND I COPY TO SANTA FE OFFICE

OIL CONSERVATION DIVISION

2040 South Pacheco Street Santa Fe, New Mexico 87505

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PIT REMEDIATION AND CLOSURE REPORT

Operator: PNM Gas Services (Amoco	Telephone: 324-3764
Address: 603 W. Elm Street Farmington. NM 874	101
Facility or Well Name: Jacquez #1A	
Location: Unit: P Sec	25 F 30 N R. 9 W County San Juan
Pit Type: Separator ✓ Dehydrato	or 🗸 Other No
Land Type: BLM State	Fee Other No
Pit Location: Pit dimensions: length	16 width 15 depth 4
(Attach diagram) Reference: wellhead 💌	other
Footage from reference: 103'	
Direction from reference: 5	Degrees East North _✓
	of ✓ West South
Depth to Ground Water: (Vertical distance from contaminants to seasonal high water elevation of ground	Less than 50 feet (20 points) 50 feet to 99 feet (10 points) Greater than 100 feet (0 points)
Wellhead Protection Area:	oe oe ve
(Less than 200 feet from a private domestic water source, or; less than 1,000 feet from all other water sources)	Yes No APR 2 4 1997 (20 points) 0
Distance to Surface Water:	OIL COM. DEC.
(Horizontal distance to perennial lakes,	Less than 200 feet (20 points) 200 feet to 1,000 feet (10 points) Greater than 1,000 feet (0 points)
ponds, rivers, streams, creeks, irrigation canals and ditches	RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started:	10/3/94		Date Complete	d: 11/28/94	
Remediation Method:	Excavation x		Approx. Cubic	Yard	140
(Check all appropriate sections)	Landfarmed <u>x</u>	<u> </u>	Amount Landfa	rmed (cubic yds)	140
	Other				
Remediation Location: (i.e., landfarmed onsite, name and	Onsite X		Offsite		
location of offsite facility)					
Backfill Material Location:					
General Description of Rem	edial Action:				
Excavated contaminated soil to aerated by plowing/disking until	pit size 15'x18'x14' and	l landfarmed soil onsite with	nin a bermed area a	t a depth of 6" to 12".	Soil will be
***Vertical extent at 20' provided			attached risk analy	vsis form and lab analy	sis
					
Ground Water Encountered	d: No	✓ Yes	•	Depth	<u> </u>
Final Pit Closure Sampling:	Sample Location	Center of pit bottom			
(if multiple samples, attach sample result and diagram of sample locations and depths.)	Sample depth	17'			
sample locations and depuis.)	Sample date	11/16/94	Sample time	e 11:45:0	00 AM
	Sample Results				
	Benzene	(ppm) 0.	1500		
	Total BTE	EX (ppm) *** 161	1.4500		:
	Field heads	space (ppm)			
	ТРН _	337.00	Method	418.1	
Vertical Extent (ft) 20'		Risk Assessme	ent form attached	Yes 🔽	No
Ground Water Sample:	Yes	No 🗸		yes, see attached Gimmary Report)	roundwater Site
I HEREBY CERTIFY THA KNOWLEDGE AND MY I		ΓΙΟΝ ABOVE IS TRUE	E AND COMPLE	TE TO THE BEST	OF MY
DATE April 28, 194 SIGNATURE	wu Bear	PRINTE AND TI	EL E	er Bearden inistrator III	



Well Name:
Well Legals:
Pit Type:
Horizontal Distance to Surface Water:
Groundwater Depth:

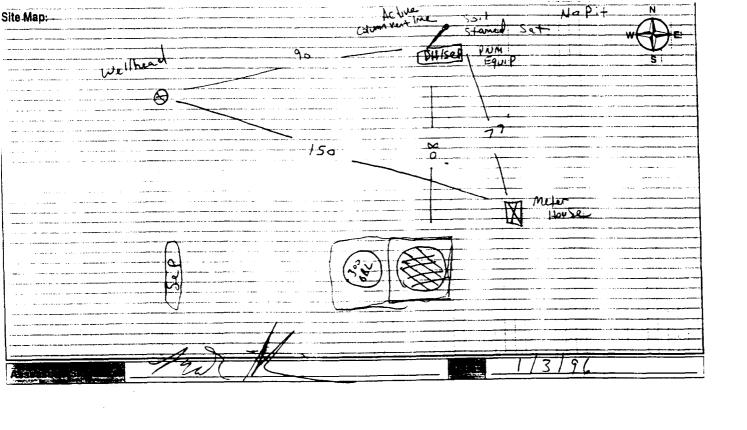
Jacquez #1A Unit P, Sec 25, T30N. R9W Dehydrator Greater than 1,000 ft Greater than 100 ft

RISK ANALYSIS

PNM requests closure of the Jacquez #1A using a limited risk analysis of the site conditions.

- 1. PNM estimated groundwater to be at a depth of 155 ft. based upon elevation of site to the San Juan River. (Reference: topographic map.)
- 2. This site is not located within 200 ft. of a domestic water well and is not within 1,000 ft. of any other water source.
- 3. Distance from the site to surface water is greater than 1,000 ft.
- 4. PNM excavated 140 cu. yds. from the former pit. Clean soil was encountered at a depth of 20 ft using a hollow stem drill rig and split spoon sampling. Analytical results are attached.

Based upon the information provided above, PNM believes the Jacquez #1A poses minimal risk to the environment. Subsurface lateral migration is limited based upon PNM's past experience in excavating 400 pits. Source removal minimizes the possibility of surface water contamination.



VOLATILE AROMATIC HYDROCARBONS

Gas Company of New Mexico

Project ID:	Pit Pilot Project	Report Date:	11/28/94
Sample ID:	JAC 1A - 2B	Date Sampled:	11/15/94
Lab ID:	0444	Date Received:	11/16/94
Sample Matrix:	Soil	Date Extracted:	11/22/94
Preservative:	Cool	Date Analyzed:	11/23/94
Condition:	Intact		

Target Analyte	Concentration (mg/kg)	Detection Limit (mg/kg)
Benzene	0.15	0.07
Toluene	187	14.9
Ethylbenzene	56.3	14.9
m,p-Xylenes	1,110	29.9
o-Xylene	258	14.9

ND - Analyte not detected at the stated detection limit.

Quality Control:	<u>Surrogate</u>	Percent Recovery	Acceptance Limits
	Trifluorotoluene	102	81 <i>-</i> 117%
	Bromofluorobenzene	99	74 -121%

Reference:

Method 5030, Purge and Trap; Method 8020, Aromatic Volatile Organics;

Test Methods for Evaluating Solid Wastes, SW-846, United States

Environmental Protection Agency, Final Update I, July, 1992.

Comments:

Analyst

Jahtim Hylifo Review

TOTAL PETROLEUM HYDROCARBONS EPA Method 418.1

Gas Company of New Mexico

Project ID:

Pit Pilot Project

Report Date:

11/28/94

Sample Matrix:

Soil

Date Sampled:

11/16/94

Preservative: Condition:

Cool

Date Received:

11/16/94

Intact

Date Extracted:

11/23/94

Date Analyzed:

11/23/94

Sample ID	Lab ID	Goncentration (mg/kg)	Detection Limit (mg/kg)
Jacques 1A 3 LF Jacques1A 2 - B	0443 0444	45.2 337	25.1 25.0
Jacques 1A 1 - S	0445	57.7	24.8

ND- Analyte not detected at the stated detection limit.

Reference:

Method 3550 - Sonication Extraction; Test Methods for Evaluating Solid Waste, SW-846, United States Environmental Protection Agency, September, 1986; Method 418.1 - Petroleum Hydrocarbons, Total Recoverable; Chemical Analysis of Water and Waste, United States Environmental Protection Agency, 1978.

Comments:

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LAXID FARM

JACKS 15 # 14 SEG SEG OCC. 25 T 30N R 90 Dan Sular Burney Grism. Me Tea House 201 LAXID GIRAM

W

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LAB: (505) 325-5667

AROMATIC VOLATILE ORGANICS

OFF: (505) 325-8786

Denver Bearden

Date:

3/15/95

Company: Gas Company of New Mexico

COC No.

2908

P.O. Box 1899

Sample ID:

5476

Address:

Attn:

City, State: Bloomfield, NM 87413

Job No.

2-1000

Project Name:

Gas Company of New Mexico

Project Location:

JAC 1A Landfarm Composite

Time:

11:30

Sampled by: Analyzed by: DB DLA Date: Date: 3/13/95 3/14/95

Sample Matrix:

Soil

Aromatic Volatile Organics

Component	Measured Concentration ug/kg	Detection Limit Concentration ug/kg
Benzene	ND	0.2
Toluene	776	0.2
Ethylbenzene	169	0.2
m,p-Xylene	5,118	0.2
o-Xylene	1,241	0.2
	тотац 7,303 ug/kg	

ND - Not Detectable

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: 3/15/95

P. O. BOX 2606 • FARMINGTON, NM 87499



EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Public Service Co. of NM.	Project #:	93108-02
Sample ID:	TH - 1 @ 20'	Date Reported:	01-08-97
Laboratory Number:	A897	Date Sampled:	01-03-97
Chain of Custody:	5052	Date Received:	01-03-97
Sample Matrix:	Soil	Date Analyzed:	01-07-97
Preservative:	Cool	Date Extracted:	01-07-97
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	8.8
Toluene	11.3	8.4
Ethylbenzene	10.7	7.6
p,m-Xylene	43.9	10.8
o-Xylene	15.6	5.2
Total BTEX	81.5	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	100 %
	Bromofluorobenzene	95 %

References:

Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA,

July 1992.

Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846,

USEPA, Sept. 1994.

Comments:

Jaques #1.

Deur L. Cylecu
Analyst

Seview Stacy W Lendler



EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client: Sample ID: Laboratory Number:	Public Service Co. of NM. TH - 1 @ 20' A897	Project #: Date Reported: Date Sampled:	93108-02 01-07-97 01-03-97
Chain of Custody No:	5052	Date Received:	01-03-97
Sample Matrix:	Soil	Date Extracted:	01-07-97
Preservative:	Cool	Date Analyzed:	01-07-97
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

ND - Parameter not detected at the stated detection limit.

References:

Method 8015, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste,

SW-846, USEPA, July 1992.

Comments:

Jaques #1.∕2

Analyst

Stacy W Sender

TOTAL PETROLEUM HYDROCARBONS EPA Method 418.1

Gas Company of New Mexico

Project ID:

Pit Pilot Project

Report Date:

11/28/94

Sample Matrix:

Soil

Date Sampled:

11/16/94

Preservative:

Cool

Date Received:

11/16/94

Condition: Intact

Date Extracted:

11/23/94

Date Analyzed:

11/23/94

Sample:ID:	- LabiD	Concentration (mg/kg)	Detection:Limit: (mg/kg)
Jacques 1A	:0 443	45.2	254
Jacques1A 2 - B	0444	337	25.0
Jacques 1A 1 - S	0445	57.7	24.8
			}

ND- Analyte not detected at the stated detection limit.

Reference:

Method 3550 - Sonication Extraction; Test Methods for Evaluating Solid Waste,

SW-846, United States Environmental Protection Agency, September, 1986;

Method 418.1 - Pétroleum Hydrocarbons: Total Recoverable: Chemical Analysis of

Water and Waste, United States Environmental Protection Agency 1978.

Comments:

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Review