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SUBMIT ONE COPY DIE X.
TO NATURAL
RESOURCE DEPT MO
AND OIL- GAS
ADMINISTRATION
ADDITION

DEPUTY OIL & GAS INSPECTOR

JICARILLA APACHE TRIBE

ENVIRONMENTAL PROTECTION OFFICE

FEB 0 8 1999

P.O. BOX 507 DULCE, NEW MEXICO 87528

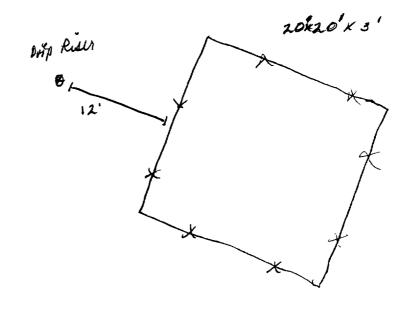
PIT REMEDIATION AND CLOSURE REPORT

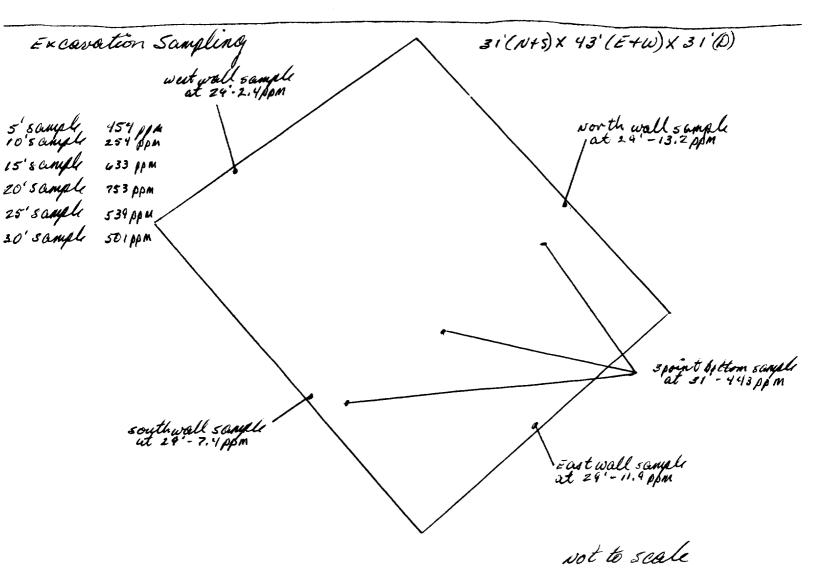
Operator: PNM Gas Services (Williams Field Services)	vice) Telephone: 324-3764
Address: 603 W. Elm Street Farmington, NM	87401
Facility or Well Name: Jicarilla K15 Drip	
Location: Unit N Sec 1 T 25	N R 5 W County Rio Arriba
Pit Type: Separator Dehydrator	Other Manual drip blowdown.
Land Type:Jicarilla Apache	
Pit Location: Pit dimensions: Length 20 '	Width20 ' Depth3 '
(Attach diagram) Reference: Wellhead	Other Manual drip blown riser.
Footage from reference: 12'	
Direction from reference: 64 degrees	East
	☐ West ☑ South
Depth to Ground Water: (Vertical distance from contaminants to seasonal high water elevation of ground water)	Less than 50 feet (20 points) 50 feet to 99 feet (10 points) Greater than 100 feet (0 points) 0
Wellhead Protection Area: (Less than 200 feet from a private domestic water source, or, less than 1,000 feet from all other water sources) FEB - 1	Yes (20 points) No (0 points) 0
Distance to Surface Water: (Horizontal distance to perrenial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)	
Distance to Ephemeral Stream (dry wash): (Horizontal distance to all downgradient streams having a width of at least 10 feet)	Less than or equal to 100 feet (10 points) Greater than 100 feet (0 points) O
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) O
RANKIN	IG SCORE (TOTAL POINTS): 0

Date Remediation Started: 10/21/98	Date Completed: 12/15/98
Remediation Method: Excavation	Approx. Cubic Yards 1530 //
(Check all appropriate Landfarmed V RA	Amount Landfarmed (cubic yds)
Other 4192 yds. staged on ROW	· ·
	1410 cu.yds
Remediation Location: Onsite	Offsite Staged material will be hahuled to a
(i.e., landfarmed onsite, name and location of offsite facility)	commercial landfarm. Jean Ila I. F # 241.
and location of offsite facility)	120 Cu. Yds. Overburden
General Description of Remedial Action: Removal of contaminated soil from all four sidewalls, as to g	get a below 100 ppm head space reading.
Final excavation dimensions: 31'(N&S)X43'(E&W)X31'(D)	
Ground Water Encountered: No Yes	Depth
Final Pit Closure Sample Location Composite of North,	, East, South, and West sidewalls and a three
Sampling: point composite of b	
	,
(If multiple samples, attach Sample depth 31' sample result and diagram of	
sample locations and depths.) Sample date 10/27/98	Sample time 1145 // 35
Sample Results	
Soil: Benzene (ppm) ND	Water: Benzene (ppb)
Total BTEX (ppm) 56.8	Toluene (ppb)
Field headspace (ppm) 443	Ethylbenzene (ppb)
TPH (ppm)	Method 8015 Total Xylenes (ppb)
Vertical Extent (ft)RISK A	analysis form attached: Yes 🔽 No 🗍
Ground Water Sample: Yes No V	(If yes, see attached Groundwater Site Summary Report)
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE KNOWLEDGE AND MY BELIEF.	E AND COMPLETE TO THE BEST OF MY
DATE: 11-20-98	PRINTED NAME Ray Haston
SIGNATURE Ray Huston	TITLE Environmental Tech. III
AFTER REVIEW OF THE PIT CLOSURE INFORMATION, PIT CL	LOSURE IS APPROVED IN ACCORDANCE
TO JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE:	
APPROVED: YES NO (REASO	ON): R-A. Attached
1-cm 00	DATE: 12-15-98
SIGNATURE: // and	_ DATE. / C 1/ / U

N

WF5 10-21-98







OFF: (505) 325-5667

LAB: (505) 325-1556

On Site Technologies, LTD.

CLIENT:

PNM - Public Service Company of NM

Project:

Jicarilla K-15 Drip

Lab Order:

9810091

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: 11-Nov-98

Client:

PNM - Public Service Company of NM

Work Order:

9810091

9810091-01A

Matrix: SOIL

Lab ID: Project:

Jicarilla K-15 Drip

Client Sample Info: Jicarilla K-15 Drip

Client Sample ID: 9810271135; 3pt. Bottom Comp.

Collection Date: 10/27/98 11:35:00 AM

COC Record: 5768

naiyzed	Date Analy	DF	Units	Qual	PQL	Result	Parameter
nalyst: HR	Analy		SW8015			DIESEL RANGE ORGANICS	
-	11/10/98	1	mg/Kg	5	25	280	T/R Hydrocarbons: C10-C28
nalyst: HR	Analy		SW8020A			ВТЕХ	
•	11/2/98	250	µg/Kg	0	250	ND	Benzene
	11/2/98	250	µg/Kg	0	500	11000	Toluene
	11/2/98	250	µg/Kg	0	250	2800	Ethylbenzene
	11/2/98	250	µg/Kg	0	500	35000	m,p-Xylene
	11/2/98	250	μg/Kg	0	250	8000	o-Xylene
			, 0			56,800	•
				0	250		••

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

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 11-Nov-98

Client:

PNM - Public Service Company of NM

Work Order:

9810091

9810091-02A

Matrix: SOIL

Lab ID: Project:

Jicarilla K-15 Drip

Client Sample Info: Jicarilla K-15 Drip

Client Sample ID: 9810271145; 4 Wall Comp.

Collection Date: 10/27/98 11:45:00 AM

COC Record: 5768

Parameter	Result	PQL	Qual Units	DF	Date Analyzed
DIESEL RANGE ORGANICS	sv	V8015		Analyst: HR	
T/R Hydrocarbons: C10-C28	ND	25	mg/Kg	1	11/10/98

Qualifiers:

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S - Spike Recovery outside accepted recovery limits

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E - Value above quantitation range

Surr: - Surrogate

1 of 1



Well Name: Well Legals:

Pit Type:

Horizontal Distance to Surface Water:

Groundwater Depth:

Jicarilla K #15 Drip Unit N, Sec 1, T25N, R5W Manual drip blowdown Greater than 1,000 feet Greater than 100 feet

RISK ANALYSIS

PNM requests closure of their former pit on the Jicarilla K #15 Drip well site using a limited risk analysis based on the following conditions:

- 1. Groundwater is estimated to be at a depth of 104 feet based upon the elevation of the site and the elevation of the nearest "listed" or "named" wash. (Reference: Lapis Point, NM series 7.5 minute topographic map.)
- 2. The site is located outside of the "vulnerable area" as defined under OCC Order No. R-7940-C.
- 3. PNM excavated 1192 cubic yards of soil from the former pit. Subsurface lateral contamination has been remediated (see attached analytical results). Source removal minimizes the possibility of surface water contamination.
- 4. The excavation was terminated at a depth of 31 feet. PNM excavated and performed remediation to the maximum depth and horizontal extent practicable.

PNM believes their former pit on the Jicarilla K #15 Drip well site poses minimal threat to groundwater, human health and the environment based upon our past experience in excavating over 800 pits.