District I P.O. Box 1980, Hobbs, NM

District II P.O. Drawer DD, Artesia, NM 88221

District III 1000 Rio Brazos Rd, Aztec, NM 87410 State of New Mexico Energy, Minerals and Natural Resources Department RB BUBMIT 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

PIT REMEDIATION AND CLOSURE REPORT

Operator:	PNM Gas Services (Williams) Telephone:	324-3764	
Address:	603 W. Elm Street Farmington, NM 874	401		
Facility or We	II Name: Southern Union #1M Drip			
Location:	Unit Sec	19 T <u>31 N</u>	R <u>12 W</u> County	San Juan
Pit Type:	Separator Dehydrate	or Othe	r Drip	
Land Type:	BLM State	Fee 💉 Othe	r	
Pit Location:	Pit dimensions: length	18 ' width	18 ' depth	3'
(Attach diagram	n) Reference: wellhead	other	Drip blow down riser.	
	Footage from reference:	12'		
	Direction from reference: 10	Degrees 🗹	East North	
			of West South	
Depth to Group (Vertical distance from co seasonal high water elevat water	ntaminants to ion of ground	Less than 50 feet 50 feet to 99 feet Greater than 100 feet		(20 points) (10 points) (0 points) 0
Wellhead Prote (Less than 200 feet from a domestic water source, or, feet from all other water so	private less than 1,000	Yes No		(20 points) (0 points) 0
Horizontal distance to per ponds, rivers, streams, crea	face Water:	Less than 200 feet 200 feet to 1,000 feet Greater than 1,000 feet		(20 points) (10 points) (0 points) 0
canals and ditches	as, inigation	RANKING SCORE	(TOTAL POINTS) :	0

Southern Union #1M Drip				
Date Remediation Started:	05/26/1999		Date Completed:	05/26/1999
Remediation Method:	Excavation x		Approx. Cubic Yard	104
(Check all appropriate	Landfarmed <u>x</u>		Amount Landfarmed (cubic yds)
sections)	Other 20 cu yds ov	erburden.		
Remediation Location: (i.e., landfarmed onsite, name and location of offsite facility)	Onsite X		Offsite	
Backfill Materia! Location:				
General Description of Ren	redial Action:			
Excavated contaminated soit to 12". Soil was aerated by d	to a pit size of 19.5' X · lisking/plowing until soil	16' X 9' and landfar	med soil onsite within a be	ermed area at a depth of 6"
*** Sandstone encountered a				
Ground Water Encountered	i: No 🔽	Yes	D	Pepth
Final Pit Closure Sampling:	Sample Location	5 pt composite-bo	ttom	
(if multiple samples, attach sample result and diagram of	Sample depth	9'	· · · · · · · · · · · · · · · · · · ·	
sample locations and depths.)	Sample date05	/26/1999	Sample time	11:05:00 AM
	Sample Results			
	Benzene (pp	m) <u>1.8</u>	3	
	Total BTEX	(ppm)	105.2 ***	
·	Field headspac	e (ppm)		
	TPH (ppm)	75.00	Method 8	015B
Vertical Extent (ft)		Risk An	alysis form attached Ye	s No
Ground Water Sample:	Yes	No	(If yes, see attached Summary Report)	Groundwater Site
I HEREBY CERTIFY THAT KNOWLEDGE AND MY B	F THE INFORMATION ELIEF	N ABOVE IS TRUI	E AND COMPLETE TO	THE BEST OF MY
DATE January 24, 200 SIGNATUREMALL			PRINTED NAME Mau AND TITLE Proj	reen Gannon ect Manager

Southern Union " M Drip (I) 19-31N-12W WES 5-26-99 at 1006 18'X18'X3' ADL. 14' 1 - and and in tong Excavation Sampling 19.5'(N+S) X 16'(=+w) X1'D) PIDleadings worthwall sample at 9' - 0 Apr 5' - 2184 ppm 4' - 1134 ppA at a Tuppen Fastwall sample 5 point composite saye of sandston bottom at 4' - 45 ppm

Not to soul



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 08-Jun-99

CLIENT:	PNM - Public Service Company of NM			
Project: Lab Order:	Southern Union #1M & #1M Drip 9905095	CA	ASE NARRATIVE	
Lab Oluci.	7703073	· .'		

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.

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -





LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 08-Jun-99

Client:PNM - Public ServeWork Order:9905095Lab ID:9905095-03AProject:Southern Union #1		ice Company of NM Matrix: SOIL M & #1M Drip		Client Sample ID:		D: 99052611 te: 5/26/99 1	Southern Union #1M Drip 9905261105; 5pt. Bottom Comp 5/26/99 11:05:00 AM 7628	
Parameter		Result	PQL	Qual	Units	DF	Date Analyzed	
DIESEL RANGE		SI	W8015B				Analyst: DC	
T/R Hydrocarbons: C10-C28		75	25		mg/Kg	1	6/3/99	
AROMATIC VOLATILES BY GC/PID		SW8021B					Analyst: DC	
Benzene		1800	1000		µg/Kg	1000	6/1/99	
Toluene		29000	2000		µg/Kg	1000	6/1/99	
Ethylbenzene		3400	1000		μ g /Kg	1000	6/1/99	
m,p-Xylene		59000	2000		µg/Kg	1000	6/1/99	
o-Xylene		12000	1000		µg/Kg	1000	6/1/99	

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

B - Analyte detected in the associated Method Blank

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 08-Jun-99

Client:PNM - Public Service Company of NMWork Order:9905095Lab ID:9905095-04AMatrix: SOIL		Client Sample Info: Southern Union #1M Dr. Client Sample ID: 9905261110; 4pt. Wall Collection Date: 5/26/99 11:10:00 AM			110; 4pt. Wall Comp		
Project:		ation #1M & #1M Drip		COC Record: 7628		11.10.00 AW	
Parameter		Result	PQL	Qual	Units	DF	Date Analyzed
			8015B				Analyst: DC
T/R Hydrocarbons: C10-C28		ND 2			mg/Kg	1	6/3/99

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

B - Analyte detected in the associated Method Blank

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

Southern Union IM DRin Sec- 19 T-31N R-12W UL-I WFS

LAND FARM DEALDING

ON Southern Unici Sec-19 T-314 R- 12 WULI App Cu.ydr - 84





LAB: (505) 325-1556

On Site Technologies, LTD.

CLIENT:	PNM - Public Service Company of NM		· · ·
Project:	PNM Pit Remediation Landfarms		CASE NARRATIVE
Lab Order:	9907018	•	

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.

P.O. BOX 2606 • FARMINGTON, NM 87499



Roy

LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 22-Jul-99

Client: Work Order: Lab ID: Project:	PNM - Public Service Company of NM 9907018 9907018-02A Matrix: SOIL PNM Pit Remediation Landfarms			Client Sample Info: Southern Union 1M Dri Client Sample ID: 9907080828; 5pt Comp Collection Date: 7/8/99 8:28:00 AM COC Record: 7732			828; 5pt Comp
Parameter		Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE		SW8 ()15B 25		mg/Kg	1	Analyst: DC 7/20/99

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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- TETHNOLOOU BLENDING INDUSTRY WITH THE ENVIRONMENT -

I of I



Well Name: Well Legals: Pit Type: Horizontal Distance to Surface Water: Groundwater Depth: Southern Union #1M Drip Unit I, Sec 19, T31N, R12W No Equipment Greater than 1,000 feet Greater than 100 feet

RISK ANALYSIS

PNM requests closure of their former pit on the Southern Union #1M Drip well site using a limited risk analysis based on the following conditions:

- 1. Groundwater is estimated to be at a depth of 142 feet based upon the elevation of the site and the elevation of the nearest "listed" or "named" wash. (Reference: La Plata, NM series 7.5 minute topographic map.)
- 2. PNM excavated 104 cubic yards of soil from the former pit. Subsurface lateral contamination has been remediated (see attached map and analytical results for the side wall profiles). Source removal minimizes the possibility of surface water contamination.
- 3. Sandstone was encountered at 9 feet below ground surface. Bedrock/sandstone provides a barrier between remaining contamination and groundwater. Vertical migration through bedrock or sandstone to groundwater is unlikely.
- 4. PNM excavated and performed remediation to the maximum depth and horizontal extent practicable.

PNM believes their former pit on the Southern Union #1M Drip well site poses minimal threat to groundwater, human health and the environment based upon our past experience in excavating over 1,000 pits.