RISK

DEPLITY OIL & GAS INSPECTOR

State of New Mexico
Energy, Minerals and Natural Resources Department

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

OIL CONSERVATION DIVISION

District III
1000 Rio Brazos Rocazed NMC874369

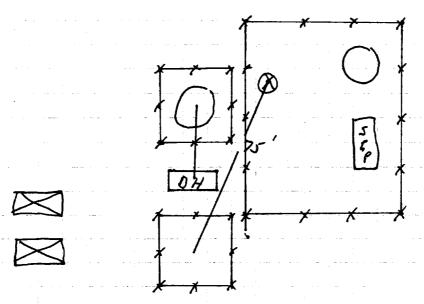
2040 South Pacheco Street Santa Fe, New Mexico 87505

PINOS PIT REMEDIATION AND CLOSURE REPORT

Operator:	PNM G	as Services (Taurus) T	elephone:	324-3764			
Address:	603 W. Elm	Street Farming	gton, NM 8740	01					
Facility or W	/ell Name:C	ity of Farmingto	on #2E						
Location:	Unit	D	Sec3	<u>5</u> T _	30 N R	13 W	County		
Pit Type:	Separator		Dehydrato	r 🔽	Other	_			
Land Type:	BLM <u></u>	State		Fee	Other				
Pit Location:	Pit	dimensions:	length	20 '	width _	20	depth	3 '	
(Attach diagra	m) Ref	erence:	wellhead 🔽		other	. 			
	Foot	tage from refer	ence: 7	5'					
	Dire	ection from refe	erence: 30	Degrees		East	North		
					✓	West	f South	<u>~</u>	
Depth to Ground Water:			Less tha				(20 points)		
(Vertical distance from seasonal high water ele				JO ICCL I	o 99 feet			(10 points)	
water	vation of ground			Greater than				(10 points) (0 points)	0
water	vation of ground Otection Area:	DEC			100 feet			(0 points)	0
Wellhead Pro	n a private or, less than 1,000	DEC M FES	- 1 1939						0
Wellhead Pro	n a private or, less than 1,000	DEC M FES OIL C	1 1939 - 1 1939		100 feet Yes			(0 points)	
Wellhead Pro (Less than 200 feet fror domestic water source, feet from all other water	n a private or, less than 1,000	FES OIL	1 1999 - 1 1999 (014) D.T.	Less that 200 feet to	Yes No			(20 points) (20 points) (0 points) (20 points) (10 points)	0
Wellhead Pro (Less than 200 feet fror domestic water source, feet from all other water	m a private or, less than 1,000 er sources) urface Water: perennial lakes,	FES OIL	1 1939 - 1 1939 (010) TT	Less than 200 feet to Greater than	Yes No	(TOTAL	POINTS):	(20 points) (20 points) (20 points) (10 points) (0 points)	

City of Farmington #2E			Data Campleted	0.100.100
Date Remediation Started:	6/2	22/98	Date Completed:	6/22/98
Remediation Method:	Excavation	х	Approx. Cubic Yard	80
(Check all appropriate	Landfarmed	х	Amount Landfarmed (cub-	oic yds) 80
sections)	Other			
Remediation Location: (i.e., landfarmed onsite, name and location of offsite facility)	Onsite		Offsite Tierra Enviro	nmental
Backfill Material Location:				
General Description of Ren	nedial Action:			
Excavated contaminated soi 12". Soil was aerated by plo	I to a pit size of 2 wing until soil me	20' X 18' X 6' and landfarm et regulatory levels.	ed soil onsite within a berme	d area at a depth of 6" to
***Sandstone encountered a	at 6'. See attache	d risk analysis and lab ana	alysis form.	
Ground Water Encountere	d: No	Yes	Dер	th
Final Pit Closure Sampling:	Sample Locati	on Bottom of excava	tion.	
(if multiple samples, attach sample result and diagram of	Sample depth	6'		
sample locations and depths.)	Sample date	6/22/98	Sample time	7:40:00 AM
	Sample Result	ts		
	Benze	ene (ppm)47.000	00	
	Total	BTEX (ppm) 34	7.0000 ***	
	Field h	neadspace (ppm)		
	TPH (ppm)	260.00	Method 801	5A
Vertical Extent (ft)		Risk A	nalysis form attached Yes	No _
Ground Water Sample:	Yes	No 🔽	(If yes, see attached C Summary Report)	Groundwater Site
I HEREBY CERTIFY THA KNOWLEDGE AND MY		MATION ABOVE IS TRU	JE AND COMPLETE TO T	HE BEST OF MY
DATE January 26, 1 9 SIGNATURE Y	ver Jan	on	PRINTED NAME Maure AND TITLE Project	een Gannon et Manager

start of exercation:



chain lank fence

End of excavation:

Sandston e

OFF: (505) 325-5667

LAB: (505) 325-1556

TECHNOLOGIES, LTD.

On Site Technologies, LTD.

Date: 24-Jun-98

CLIENT:

PNM - Public Service Company of NM

Project:

City of Farmington #2E

Lab Order:

9806086

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: 24-Jun-98

Client:

PNM - Public Service Company of NM

Work Order:

9806086

Lab ID:

9806086-01A

Matrix: SOIL

Project:

City of Farmington #2E

Client Sample Info: City of Farmington #2E

Client Sample ID: 9806220740; Bottom @ 6ft.

Collection Date: 6/22/98 7:40:00 AM

COC Record: 7237

Parameter	Result	PQL	Qual U	Jnits	DF	Date Analyzed
DIESEL RANGE ORGANICS	SW8015				Analyst: DC	
T/R Hydrocarbons: C10-C28	260	25	1	mg/Kg	1	6/24/98
ВТЕХ	SW8020A				Analyst: DC	
Benzene	47000	1000	į	µg/Kg	1000	6/22/98
Toluene	100000	2000	1	μg/Kg	1000	6/22/98
Ethylbenzene	22000	1000	1	µg/Kg	1000	6/22/98
m,p-Xylene	150000	2000	1	µg/Kg	1000	6/22/98
o-Xylene	28000	1000	I	µg/Kg	1000	6/22/98
	347000					
	341, pp	\sim				

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

ON SITE
TECHNOLOGIES, LTD.

OFF: (505) 325-5667

LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 24-Jun-98

Client:

PNM - Public Service Company of NM

Work Order:

9806086

Lab ID:

9806086-02A

Matrix: SOIL

Project:

City of Farmington #2E

Client Sample Info: City of Farmington #2E

Client Sample ID: 9806220745; Walls @ 3ft.

Collection Date: 6/22/98 7:45:00 AM

COC Record: 7237

Parameter	Result	PQL	Qual Units	DF	Date Analyzed
DIESEL RANGE ORGANICS	SW8015				Analyst: DC
T/R Hydrocarbons: C10-C28	ND	25	mg/Kg	1	6/24/98
ВТЕХ	SV	V8020A			Analyst: DC
Benzene	2.7	1	μg/Kg	1	6/22/98
Toluene	ND	2	μg/Kg	1	6/22/98
Ethylbenzene	1.1	1	μg/Kg	1	6/22/98
m,p-Xylene	7.4	2	μg/Kg	1	6/22/98
o-Xylene	5.5	1	μg/Kg	1	6/22/98

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



Well Name:

Well Legals:

Pit Type:

Horizontal Distance to Surface Water:

Groundwater Depth:

City of Farmington #2E Unit D, Sec 35, T30N, R13W Dehydrator Greater than 1,000 feet Greater than 100 feet

RISK ANALYSIS

PNM requests closure of their former pit on the City of Farmington #2E well site using a limited risk analysis based on the following conditions:

- 1. Groundwater is estimated to be at a depth of 327 feet based upon the elevation of the site and the elevation of the nearest "listed" or "named" wash. (Reference: Farmington North, 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 80 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. Sandstone was encountered at 6 feet below ground surface. Bedrock/sandstone provides a barrier between remaining contamination and groundwater. Vertical migration through bedrock or sandstone to groundwater is unlikely.
- 5. PNM excavated and performed remediation to the maximum depth and horizontal extent practicable.

PNM believes their former pit on the City of Farmington #2E well site poses minimal threat to groundwater, human health and the environment based upon our past experience in excavating over 800 pits.