District I P.O. Box 1980, Hobbs, NM State of New Mexico Energy, Minerals and Natural Resources Department SUBSIT TOOPY TO APPROPRIATE DISTRICT OFFICE AND I COPY TO SANTA FE OFFICE

District II P O Drawer DD, Artesia, NM 88221

District III 1000 Rio Brazos Rd Aztec, NM 87410

#### 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	And the second second	
Address:	603 W. Elm Street Farmington, NM	87401			_
Facility or W	ell Name: EH Pipken #5 Drip				_
Location:	Unit B Sec	<u>36</u> T <u>28 N</u> F	R 11W County	San Juan	-
Pit Type:	Separator Dehye	drator Other	Drip		-
Land Type:	BLM State	Fee Other	·		-
Pit Location:	Pit dimensions: length	20 width	20 depth	3 '	
(Attach diagrai	m) Reference: wellhead	other [	Orip riser		_
	Footage from reference:	22'			
	Direction from reference: 4	Degrees 🔻	East North	<u>▼.</u>	
		·	of West South	·	
Depth to Grou	contaminants to	Less than 50 feet 50 feet to 99 feet Greater than 100 feet		(20 points) (10 points) ( 0 points)	20
Wellhead Pro (Less than 200 feet fron domestic water source, feet from all other wate	n a private or, less than 1.000	Yes No		(20 points) ( 0 points)	0
Distance to Si  (Horizontal distance to ponds, rivers, streams, or ponds)		Less than 200 feet 200 feet to 1,000 feet Greater than 1,000 feet		(20 points) (10 points) ( 0 points)	10
canals and ditches	recoverganver	RANKING SCORE	(TOTAL POINTS)	:	30

Pipken #5 Drip  Date Remediation Started:	04/28	3/1998	Date Completed:	04/30/1998
Remediation Method:	Excavation	Х	Approx. Cubic Yard	37
Check all opropriate	Landfarmed	х	Amount Landfarmed (	cubic yds) 37
ections)	Other			
Remediation Location: (i.e landfarmed onsite, name and location of offsite facility)	Onsite	<u>X</u>	Offsite	
Backfill Material Location:	:			
General Description of Ren	nedial Action:			
Excavated contaminated so	il to pit size of 1	2' X 12' X 7' and landfarm	ed soil onsite within a berm	ed area at a depth of 6" to
12". Soil was aerated by dis	king/plowing un	til soil met regulatory leve	ls.	
*** Sandstone encountered	at 7'. See attac	hed risk analysis and lab	analysis form.	
Ground Water Encountere	ed: No	<u>₹</u> Ye	s I	Depth
Final Pit Closure Sampling:	Sample Loca	Bottom of excar	vation.	
(if multiple samples, attach sample result and diagram of sample locations and depths.)	Sample dept	·		
,	Sample date	04/28/1998	Sample time	4:10:00 PM
	Sample Resu	llts		
	Benz	zene (ppm)	27***	
	Tota	l BTEX (ppm)	376 ***	
	Field	headspace (ppm)	_	
		700.00***	Method	8015A
	TPH (ppm)	730.00 ***	Method	0010A
Vertical Extent (ft)	TPH (ppm)		Analysis form attached Y	
Vertical Extent (ft) Ground Water Sample:	TPH (ppm) Yes		Analysis form attached Y	ed Groundwater Site
	Yes _	Risk	Analysis form attached Y  (If yes, see attached Summary Report)	ed Groundwater Site

E.H. Pipken	75 Or:p	4/28/98	
UFI			
Sec. 34, 280,	$11\omega$ , $B$		
			· · · · · · · · · · · · · · · · · · ·
Stat of exceu	1,1		
2 14-1 %) EXCED			
	Dr.p.Ris	1-	
	72'	, Y	
			<u>                                     </u>
	10005×17K	1	
	97 / K		
End of exce	vition		
	121		
	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	12'	
	Hard Sandstone		
		• • • • • • • • • • • • • • • • • • •	

OFF: (505) 325-5667

LAB: (505) 325-1556

# On Site Technologies, LTD.

PNM - Public Service Company of NM

Project: E.H.

**CLIENT:** 

E.H. Pipkin #5 Drip

**Lab Order:** 9804045

**CASE NARRATIVE** 

Date: 06-May-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. Analytical Comments for METHOD BTEX\_S, SAMPLE 9804045-02A: Surrogate, 4-Bromochlorobenzene, observed low recovery due to non-target matrix interference.

Tumber ver 20 zhron ou bustr

OFF: (505) 325-5667



LAB: (505) 325-1556

Date: 06-May-98

## ANALYTICAL REPORT

Client:

PNM - Public Service Company of NM

Work Order:

9804045

Lab ID:

9804045-01A

Matrix: SOIL

Project:

E.H. Pipkin #5 Drip

Client Sample Info: E.H. Pipkin #5 Drip

Client Sample ID: 9804281600; Bottom @ 7ft.

Collection Date: 4/28/98 4:10:00 PM

COC Record: 7120

Parameter	Result	PQL	Qual Units	DF	Date Analyzed
DIESEL RANGE ORGANICS	SW8015				Analyst: DC
T/R Hydrocarbons: C10-C28	730	25	mg/Kg	1	4/30/98
ВТЕХ	SW8020A				Analyst: DC
Benzene	27000	1000	μ <b>g</b> /Kg	1000	5/3/98
Toluene	160000	2000	μ <b>g</b> /Kg	1000	5/3/98
Ethylbenzene	17000	1000	μ <b>g</b> /Kg	1000	5/3/98
m,p-Xylene	140000	2000	μ <b>g</b> /Kg	1000	5/3/98
o-Xylene	32000	1000	μ <b>g</b> /Kg	1000	5/3/98
	376.00 376.00	0			
	376.0	)C~			

Qualifiers:

PQL - Practical Quantitation Limit

S - Spike Recovery outside accepted recovery limits

ND - Not Detected at Practical Quantitation Limit

R - RPD outside accepted recovery limits

J - Analyte detected below Practical Quantitation Limit

E - Value above quantitation range

B - Analyte detected in the associated Method Blank

Surr: - Surrogate

1 of 1

OFF: (505) 325-5667



LAB: (505) 325-1556

Date: 06-May-98

## ANALYTICAL REPORT

Client:

PNM - Public Service Company of NM

Work Order:

9804045

Lab ID:

9804045-02A

Matrix: SOIL

Project:

E.H. Pipkin #5 Drip

Client Sample Info: E.H. Pipkin #5 Drip

Client Sample ID: 9804281610; Walls @ 4ft.

Collection Date: 4/28/98 4:10:00 PM

COC Record: 7120

Parameter	Result	PQL	Qual Units	DF	Date Analyzed
DIESEL RANGE ORGANICS	sv	V8015			Analyst: DC
T/R Hydrocarbons: C10-C28	980	25	mg/Kg	1	4/30/98
BTEX	SV	V8020A			Analyst: DC
Benzene	2.5	1	μ <b>g</b> /Kg	1	5/3/98
Toluene	14	2	μ <b>g</b> /Kg	1	5/3/98
Ethylbenzene	9.3	1	μg/Kg	1	5/3/98
m,p-Xylene	55	2	μ <b>g</b> /Kg	1	5/3/98
o-Xylene	8.8	1	μg/Kg	1	5/3/98
•	89.6				
	J896				

Qualifiers:

PQL - Practical Quantitation Limit

S - Spike Recovery outside accepted recovery limits

ND - Not Detected at Practical Quantitation Limit

R - RPD outside accepted recovery limits

J - Analyte detected below Practical Quantitation Limit

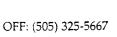
E - Value above quantitation range

B - Analyte detected in the associated Method Blank

- Teller in a Similar of them

Surr: - Surrogate

1 of 1



LAB: (505) 325-1556

# On Site Technologies, LTD.

CLIENT: PNM - Public Service Company of NM

Project:

Landfarm Composites

Lab Order:

9805071

**CASE NARRATIVE** 

Date: 29-May-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.

Z.H. Pipkin \$5 Dorp.
(C) 34-28N-11W
san Tuan
Williams
-ab Sample \$4 9805210850
Field hand space 1.2 pm

N

x often

x, ofte

& Blowdown

9/7/99 all zero's

Head space = \$ 1pm

4 pt. cup.

9901071307

LAB: (505) 325-1556

# On Site Technologies, LTD.

**CLIENT:** 

PNM - Public Service Company of NM

Project:

PNM Pit Remediation Landfarms

Lab Order:

9909016

**CASE NARRATIVE** 

Date: 15-Sep-99

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 OFF: (505) 325-5667

#### ANALYTICAL REPORT

Date: 15-Sep-99

Client:

PNM - Public Service Company of NM

Work Order:

9909016

Lab ID:

9909016-01A

Matrix: SOIL

Project:

PNM Pit Remediation Landfarms

Client Sample Info: E.H. Pipken #5 Drip

Client Sample ID: 9909071307; 4pt. Composite

Collection Date: 09/07/1999 1:07:00 PM

COC Record: 7754

Parameter	Result	PQL	Qual Units	DF	Date Analyzed
DIESEL RANGE ORGANICS	SW8015B				Analyst: DM
T/R Hydrocarbons: C10-C28	ND	25	mg/Kg	1	09/10/1999

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



Well Name:

Well Legals:

Pit Type:

Horizontal Distance to Surface Water:

Groundwater Depth:

EH Pipken #5 Drip Unit B, Sec 36, T28N, R11W

> Less than 200 feet Less than 50 feet

### RISK ANALYSIS

PNM requests closure of their former pit on the EH Pipken #5 Drip well site using a limited risk analysis based on the following conditions:

- Groundwater is estimated to be at a depth of 30 feet based upon the elevation of the site and the elevation of the nearest "listed" or "named" wash (Kutz Wash Canyon). (Reference: topographic map.)
- 2. PNM excavated 37 cubic yards of soil from the former pit. Source removal minimizes the possibility of surface water contamination.
- 3. Sandstone was encountered at 7 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 EH Pipken #5 Drip well site poses minimal threat to groundwater, human health and the environment based upon our past experience in excavating over 800 pits.