District I P O. Box 1980, Hobbs, NM State of New Mexico
Energy, Minerals and Natural Resources Department

SUBMIT I COPY 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

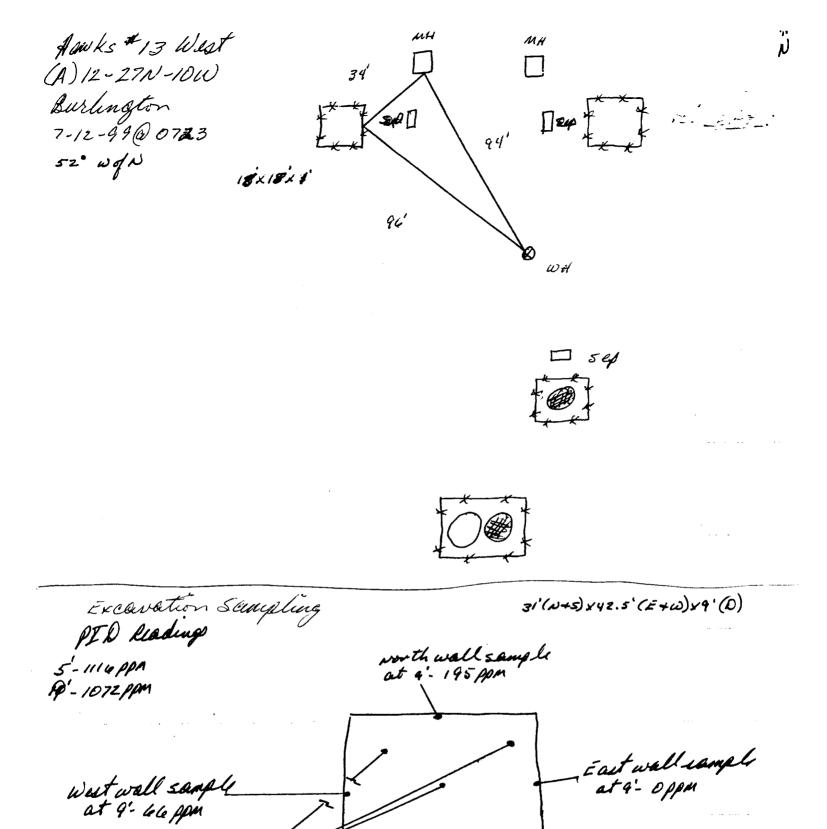
2040 South Pacheco Street Santa Fe, New Mexico 87505

## PIT REMEDIATION AND CLOSURE REPORT

Operator:	PNM Ga	s Services (Burlin	gton	) T	elephone:	324-3764	1		
Address:	603 W. Elm S	treet Farmington,	NM 87401						
Facility or We	ell Name: Ha	nks #13 West			· · ·				
Location:	Unit	Α	Sec <u>12</u>	Т_	27 N	R 10 W	County	San Juan	
Pit Type:	Separator	<u>¥</u>	ehydrator _		Othe	r _	- · ·		
Land Type:	BLM 🛂	State	_ Fe	ee <u> </u>	Othe	r -			
Pit Location:	Pit d	imensions: ler	igth 18		width	18 '	depth	1 '	
(Attach diagrar	n) Refe	rence: wellh	ead 🔽		other				
	Foota	ge from reference:	96'			-			
	Direc	tion from reference	: 52	Degrees	. –	East	North	₹	
	· · · · · · · · · · · · · · · · · · ·	<del></del>			<u>.</u>	West	South		
Depth to Grou	ontaminants to	DEGE	G Nation	Less than 50 feet to creater than	99 feet			(20 points) (10 points) ( 0 points)	0
Wellhead Prof	a private r; less than 1,000	OUL CON	1 2000 L		Yes No			(20 points) ( 0 points)	0
Distance to Su  (Horizontal distance to p	erennial lakes,			Less that 200 feet to Greater than				(20 points) (10 points) ( 0 points)	0
canals and ditches			R	RANKIN	G SCORE	(TOTAL	POINTS)	:	0

lanks #13 West		44000	Date Comp	leted· ^~	404000	
Date Remediation Started:	07/12	/1999	Date Comp	07	/12/1999	
Remediation Method:	Excavation	<u>x</u>	Approx. Cul	bic Yard	439	
(Check all appropriate	Landfarmed	andfarmed X		Amount Landfarmed (cubic yds)		
sections)	Other 19 co	ı yds clean overburden				
Remediation Location: (i.e., landfarmed onsite, name and location of offsite facility)	Onsite		_ Offsite	Tierra Environme	ntal	
Backfill Material Location:						
General Description of Rem	nedial Action:					
Excavated contaminated soi	I to a pit size of	31' X 42.5' X 9' and transp	ported soil to an	offsite commercial	landfarm.	
*** Sandstone encountered	at 9'. See attach	ed risk analysis form.				
		· · · · · · · · · · · · · · · · · · ·				
Ground Water Encountere	d: No	<u></u> ✓ Yes	s <u> </u>	Depth		
Final Pit Closure Sampling:	Sample Locat	5 pt. composite	- bottom.			
(if multiple samples, attach sample result and diagram of	Sample depth	g'		-		
sample locations and depths.)	Sample date	07/12/1999	_ Sample	time	11:45:00 AM	
	Sample Resul	ts	٠			
	Benze	ene (ppm)	1.5			
	Total	BTEX (ppm)	101.9***			
	Field l	neadspace (ppm)				
	TPH (ppm)	500.00	Method	8015B		
Vertical Extent (ft)		Risk A	Analysis form at	tached Yes _	No	
Ground Water Sample:	Yes	No No		see attached Grou ry Report)	ndwater Site	
I HEREBY CERTIFY THA KNOWLEDGE AND MY		MATION ABOVE IS TR	RUE AND COM	PLETE TO THE	BEST OF MY	
DATE January 24, 20	000 Urebusta	M	PRINTED N AND TITLE	AME Maureen Project M		

•



5 point bollom composite sample at 9: 505 ppm at 4: 505 ppm



OFF: (505) 325-5667

LAB: (505) 325-1556

# On Site Technologies, LTD.

CLIENT:

PNM - Public Service Company of NM

Project:

Hanks #13 East, #13 West, #11E

Lab Order:

9907029

**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.



RAY

LAB: (505) 325-1556

## ANALYTICAL REPORT

Date: 28-Jul-99

Client:

PNM - Public Service Company of NM

Work Order:

OFF: (505) 325-5667

9907029

Lab ID:

9907029-03A

M

Matrix: SOIL

Project:

Hanks #13 East, #13 West, #11E

Client Sample Info: Hanks #13 West

Client Sample ID: 9907121145; 5pt. Bottom Comp

Collection Date: 7/12/99 11:45:00 AM

COC Record: 7647

Parameter	Result	PQL	Qual Unit	S	DF	Date Analyzed
DIESEL RANGE ORGANICS	SW8015B			Analyst: DC		
T/R Hydrocarbons: C10-C28	500	25	mg/	Kg	1	7/23/99
AROMATIC VOLATILES BY GC/PID	SW8021B				Analyst: DC	
Benzene	1500	500	μg/ł	<b>(</b> g	500	7/16/99
Toluene	8800	1000	μg/ł	<b>K</b> g	500	7/16/99
Ethylbenzene	7600	500	μg/l	<b>⟨</b> g	500	7/16/99
m,p-Xylene	73000	1000	μg/l	<b>K</b> g	500	7/16/99
o-Xylene	11000	500	μg/l	<b>K</b> g	500	7/16/99
0-Aylene	101900	•				
	1019 P	nc <sub>1</sub>				

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

P.O. BOX 2606 • FARMINGTON, NM 87499

Terres on Beingson Die Ster diff in Ster in 2007 -

OFF: (505) 325-5667



LAB: (505) 325-1556

### ANALYTICAL REPORT

Date: 28-Jul-99

Client:

PNM - Public Service Company of NM

Work Order:

9907029

9907029-04A

Matrix: SOIL

Lab ID: Project:

Hanks #13 East, #13 West, #11E

Client Sample Info: Hanks #13 West

Client Sample ID: 9907121150; 4 Wall Comp

Collection Date: 7/12/99 11:50:00 AM

COC Record: 7647

Parameter	Result	PQL	Qual Units	DF	Date Analyzed
DIESEL RANGE ORGANICS	SW8015B				Analyst: DC
T/R Hydrocarbons: C10-C28	60	25	mg/Kg	1	7/23/99
AROMATIC VOLATILES BY GC/PID	SV	V8021B			Analyst: DM
Benzene	ND	25	μg/Kg	25	7/19/99
Toluene	ND	50	μ <b>g</b> /Kg	25	7/19/99
Ethylbenzene	120	25	μg/Kg	25	7/19/99
m,p-Xylene	510	50	μg/Kg	25	7/19/99
o-Xylene	170	25	μg/Kg	25	7/19/99
20.3.	800				
	.800	oom			

Qualifiers:

POL - 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

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Well Name:

Well Legals:

Pit Type:

Horizontal Distance to Surface Water:

Groundwater Depth:

Hanks #13 West Sec 12, T27N, R10W, Unit A Separator Greater than 1,000 feet Greater than 100 feet

#### **RISK ANALYSIS**

PNM requests closure of their former pit on the Hanks #13 West well site using a limited risk analysis based on the following conditions:

- 1. Groundwater is estimated to be at a depth of 399 feet based upon the elevation of the site and the elevation of the nearest "listed" or "named" wash. (Reference: Huerfanito Peak, NM series 7.5 minute topographic map.)
- PNM excavated 439 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 that their former pit on the Hanks #13 West well site poses minimal threat to groundwater, human health and the environment based upon our past experience in excavating over 1,000 pits.