

State of New Mexico Energy, Minerals and Natural Resources Department SUBMIT I COPY TO APPROPRIATE DISTRICT OFFICE AND I COPY TO SANTA FE OFFICE

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OIL CONSERVATION DIVISION

2040 South Pacheco Street Santa Fe, New Mexico 87505

PIT REMEDIATION AND CLOSURE REPORT

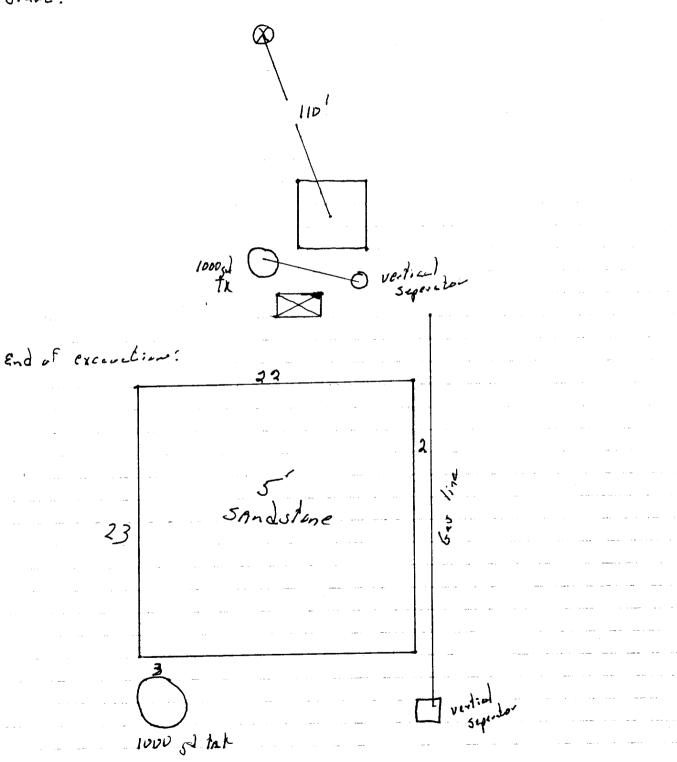
. 1	PIT REMEDIATION AND CLOSURE REPORT	JUL 3 1 1993	
HAN EC		. CON. DI	<u>y</u>
Operator:	PNM Gas Services (Cross Timbers) Telephone: 324-3764	ાશા જ	
Address:	603 W. Elm Street Farmington, NM 87401		****
Facility or Wo	I Name:Johnson Com B #1E		
Location:	Unit 1 Sec 21 T 27N R 10W Con	unty San Juan	
Pit Type:	Separator Dehydrator Other		
Land Type:	BLM State Fee Other No		
Pit Location:	Pit dimensions: length 25 width 25 d	lepth 3	
(Attach diagrar) Reference: wellhead 🔽 other		
	Footage from reference: 110'		_
	Direction from reference: 10 Degrees	North	
	of West S	South 👱	
Depth to Grou	50 feet to 99 feet Greater than 100 feet	(20 points) (10 points) (0 points)	20
Wellhead Production (Less than 200 feet from domestic water source, of feet from all other water	yes private less than 1,000	(20 points) (0 points)	0
Distance to Su (Horizontal distance to ponds, rivers, streams, co	200 feet to 1,000 feet Greater than 1,000 feet	(20 points) (10 points) (0 points)	10

RANKING SCORE (TOTAL POINTS):

Johnson Com B #1E			Data Camplated	
Date Remediation Started:	5/	5/98	Date Completed:	5/6/98
Remediation Method:	Excavation	х	Approx. Cubic Yar	d <u>94</u>
(Check all appropriate	Landfarmed	X	Amount Landfarme	ed (cubic yds) 94
sections)	Other			
Remediation Location: (i.e., landfarmed onsite, name and location of offsite facility)	Onsite	X	Offsite	
Backfill Material Location:				
General Description of Rem	redial Action:			
Excavated contaminated soil	I to a pit size of 2	2' X 23' X 5' and I	andfarmed soil onsite within a	bermed area at a depth of 6" to
12". Soil was aerated by disk	ring/plowing until	soil met regulator	y levels.	
*** Sandstone encountered	at 5'. See attache	d risk analysis ar	nd lab analysis form.	
Ground Water Encountered	d: No	₩	Yes	Depth
Ground water Encountered	u. 140	<u>!</u> \	103	
	<u></u>			
Final Pit Closure Sampling:	Sample Locatio	n Bottom of	excavation.	
(if multiple samples, attach sample result and diagram of sample locations and depths.)	Sample depth	5'		
sample rotations and deputs.)	Sample date	5/5/98	Sample time	11:15:00 AM
	Sample Results			
	Benzen	e (ppm) ***	17.0000	
	Total B	TEX (ppm)	309.0000	
	Field he	adspace (ppm)		
	TPH (ppm)	79.00	Method	8015
Vertical Extent (ft)			Risk Analysis form attached	Yes No
Ground Water Sample:	Yes	No No	(If yes, see attac Summary Repo	ched Groundwater Site rt)
I HEREBY CERTIFY THA KNOWLEDGE AND MY E		ATION ABOVE	IS TRUE AND COMPLETE	TO THE BEST OF MY
DATE July 27, 1998 SIGNATURE	Mag		PRINTED NAME C AND TITLE	Gary Cook Environmental Technician II

Johnson Com B#/E Cross Timbers Sec. 21,27N, 10W, I

start:





CLIENT:

LAB: (505) 325-1556

TECHNOLOGIES, LTD.

On Site Technologies, LTD.

PNM - Public Service Company of NM

Project: Johnson Com B#1E

Lab Order: 9805014

Date: 15-May-98

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.



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 15-May-98

Client:

PNM - Public Service Company of NM

Work Order:

9805014

Lab ID:

9805014-01A

Matrix: SOIL

Project:

Johnson Com B#1E

Client Sample Info: Johnson Com B#1E

Client Sample ID: 9805051115; Bottom @ 5ft.

Collection Date: 5/5/98 11:15:00 AM

COC Record: 7132

Parameter	Result	PQL	Qual Units	DF	Date Analyzed
DIESEL RANGE ORGANICS	SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	79	25	mg/Kg	1	5/13/98
BTEX	SW8020A				Analyst: DC
Benzene	17000	1000	μg/Kg	1000	5/6/98
Toluene	140000	2000	μg/Kg	1000	5/6/98
Ethylbenzene	16000	1000	μg/Kg	1000	5/6/98
m,p-Xylene	110000	2000	μg/Kg	1000	5/6/98
o-Xylene	26000	1000	μg/Kg	1000	5/6/98
-	309000)			
	30900 309.0	SCW			

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

LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 15-May-98

Client:

PNM - Public Service Company of NM

Work Order:

Lab ID:

Project:

9805014

9805014-02A

Johnson Com B#1E

Matrix: SOIL

Collection Date: 5/5/98 11:20:00 AM

COC Record: 7132

Client Sample Info: Johnson Com B#1E

Client Sample ID: 9805051120; Walls @ 3ft.

Parameter	Result	PQL Q	ual Units	DF	Date Analyzed
DIESEL RANGE ORGANICS	SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	ND	25	mg/Kg	1	5/13/98
BTEX	SW8020A				Analyst: DC
Benzene	ND	1	μg/Kg	1	5/6/98
Toluene	ND	2	μg/Kg	1	5/6/98
Ethylbenzene	ND	1	μ g /Kg	1	5/6/98
m,p-Xylene	ND	2	μg/Kg	1	5/6/98
o-Xylene	ND	1	μg/Kg	1	5/6/98

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

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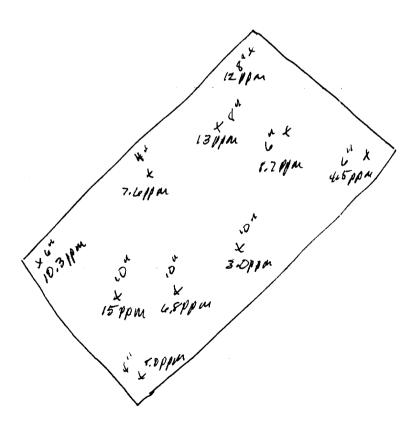
P.O. BOX 2606 • FARMINGTON, NM 87499

- Technology Blackering Industry 1984 The Ecological

Johnson Gas Com B*12 (I) 21-270-10W Cross Vimbers San-Juan County Lab Sample 9805280840 Field head space 11.5 pp111

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LAB: (505) 325-1556

TECHNOLOGIES, LTD.

On Site Technologies, LTD.

Date: 03-Jun-98

CLIENT:

PNM - Public Service Company of NM

Project:

Landfarm Compositess

Lab Order:

9805082

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.



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 03-Jun-98

Client:

PNM - Public Service Company of NM

Work Order:

9805082

9805082-04A

Matrix: SOIL

Lab ID: Project:

Landfarm Compositess

Client Sample Info: Johnson Gas Com B#1E

Client Sample ID: 9805280840; Landfarm

Collection Date: 5/28/98 8:40:00 AM

COC Record: 5223

Parameter	Result	PQL	Qual Units	DF	Date Analyzed
DIESEL RANGE ORGANICS	SI	V8015			Analyst: HR
T/R Hydrocarbons: C10-C28	ND	25	mg/Kg	1	6/1/98

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

1 of 1

P.O. BOX 2606 • FARMINGTON, NM 87499



Well Name:

Well Legals:

Pit Type:

Horizontal Distance to Surface Water:

Groundwater Depth:

Johnson Com B #1E Unit I, Sec 21, T27N, R10W Separator Less than 200 feet Greater than 100 feet

RISK ANALYSIS

PNM requests closure of their former pit on the Johnson Com B #1E well site using a limited risk analysis based on the following conditions:

- 1. Groundwater is estimated to be at a depth of 240 feet based upon the elevation of the site and the elevation of the nearest "listed" or "named" wash (East Fork Canyon). (Reference: topographic map.)
- 2. PNM excavated 94 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.
- 3. Sandstone was encountered at 5 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 Johnson Com B #1E well site poses minimal threat to groundwater, human health and the environment based upon our past experience in excavating over 800 pits.