

3R - 343

REPORTS

DATE:

1997



April 15, 1997

Mr. William Olson
Hydrogeologist
Oil Conservation Division
2040 So. Pacheco
Santa Fe, New Mexico 87505



RE: 1997 SAN JUAN BASIN ANNUAL GROUNDWATER REPORT

Dear Bill:

PNM is pleased to submit the 1997 Annual Groundwater Report on Unlined Surface Impoundments in the San Juan Basin. Pursuant to PNM's Groundwater Management Program for Unlined Surface Impoundment Closures, the report details the ongoing investigation/remedial activities at unlined surface impoundments having groundwater contamination as identified by PNM. A list of groundwater sites reported in this document is provided below.

Cozzens B1
Florance 32A
Florance 40
Florance 44
Florance 47X
Florance 124
Hampton 4M
Honolulu Loop-Line Drip
Jacques 2A
Kaufmann 1
Mangum 1E
McClanahan A2E
McClanahan 22
McCoy A1A
Reid 16 Drip
~~Templeton 1E~~
Zachry 18E

RECEIVED

APR 16 1997

Environmental Bureau
Oil Conservation Division

PNM plans to request closure of two of the above sites, the Florance 124 and the Templeton 1E, in our April 30, 1997 filing of the San Juan Pit Closure Reports to the OCD Santa Fe office. We did not report on our newest groundwater site, the Sammons 2, since this was discovered in the second quarter of 1997. If you have any questions regarding the contents of the report, please contact me at (505) 241-2974.

Sincerely,

Maureen Gannon
Project Manager

Attachment

cc: Denver Bearden, PNMGS
Denny Foust, OCD-Aztec Office
Robin Prisk, WFS

PNM 1997 San Juan Basin Groundwater Report
April 15, 1997

Prepared for:

**New Mexico Oil Conservation Division
2040 South Pacheco
Santa Fe, New Mexico 87505**

Prepared by:

**Public Service Company of New Mexico
Environmental Services Department
Alvarado Square - MS 0408
Albuquerque, New Mexico 87158**

PNMGS Well Site: Templeton 1E

Groundwater Site Summary Report

Copies: WFS(1)
Operator (1)
NMOCD District Office (1)
NMOCD Santa Fe (1)

Quarter/Year: 4/96 & 1/97

Operator: Snyder

Sec: 27 Twn: 31 Rng: 13 Unit: B

Canyon: La Plata

Vulnerable Class: Original

OCD Ranking: 30

Lead Agency: NMOCD

Topo Map: previously submitted

Well Completion Diagram: previously submitted

Site Map with Analysis: Figure 1

Groundwater Contour Map: Figure 2 (December 1996)

Groundwater Contour Map: Figure 3 (March 1997)

Hydrograph: Figure 4

Analytical Results: attached

Activities for Previous Two Quarters (Oct. - Dec. 1996 & Jan. - Mar. 1997):

On December 11, 1996 and again on March 3, 1997, PNM performed water level measurements and quarterly sampling of groundwater in all monitoring wells at the Templeton 1E. Samples were collected in each well for chemical analysis of benzene, toluene, ethylbenzene, and xylenes (BTEX) using EPA method 8020. In all instances, PNM adhered to EPA protocol when collecting and transporting the samples. Groundwater samples were delivered to OnSite Technologies, Farmington, New Mexico.

Results:

Figure 1 provides a map showing BTEX analytical data for each monitoring well since groundwater contamination was discovered at the site. For the previous four consecutive quarters, BTEX concentrations have been non-detectable or below Water Quality Control Commission (WQCC) standards.

Figures 2 and 3 provide groundwater contour maps of the site for the fourth quarter 1996 and the first quarter 1997, respectively. The groundwater flows in a southeastern direction beneath the site. Figure 4 presents a groundwater hydrograph of the site since monitoring began. Water levels have risen over the last two quarters due to increased precipitation in the region.

Further Action:

Consistent with PNM's San Juan Basin Groundwater Management Plan, we will request closure of the Templeton 1E in our April 30, 1997 filing of the San Juan Pit Closure Reports to the OCD Santa Fe office. This request is based upon the analytical data collected over the last year at the site. BTEX concentrations have been consistently below WQCC standards for four consecutive quarters.

Public Service Company of New Mexico - Gas Services

Environmental Services Division - Alvarado Square, MS-0408
Albuquerque, NM 87158

Contact: Maureen Gannon

Telephone: 505-241-2974

Figure 1. Templeton 1E Site Map With Analytical Results
(Concentrations in ppb)

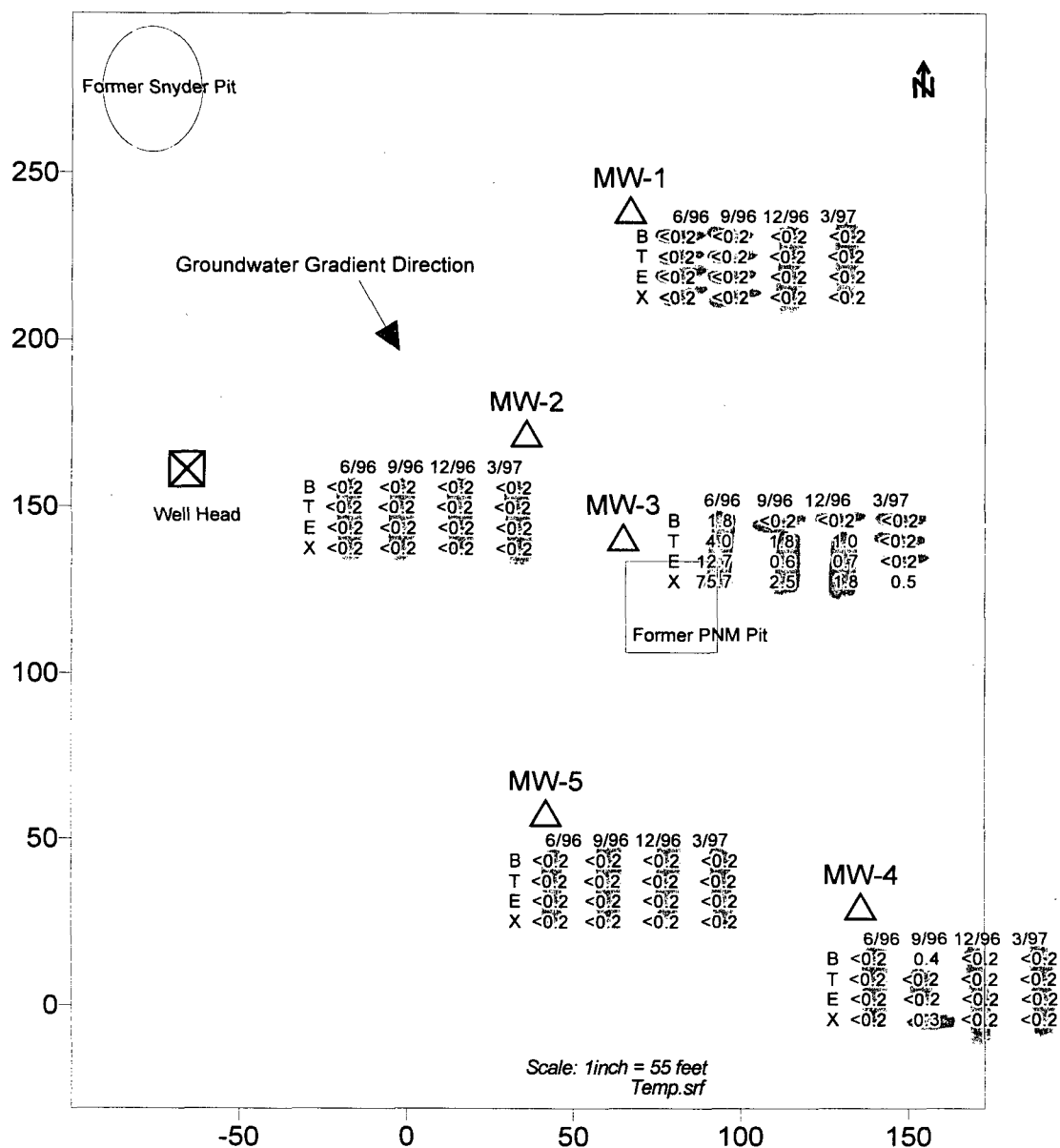


Figure 2. Templeton 1E Groundwater Contour Map (December 1996)

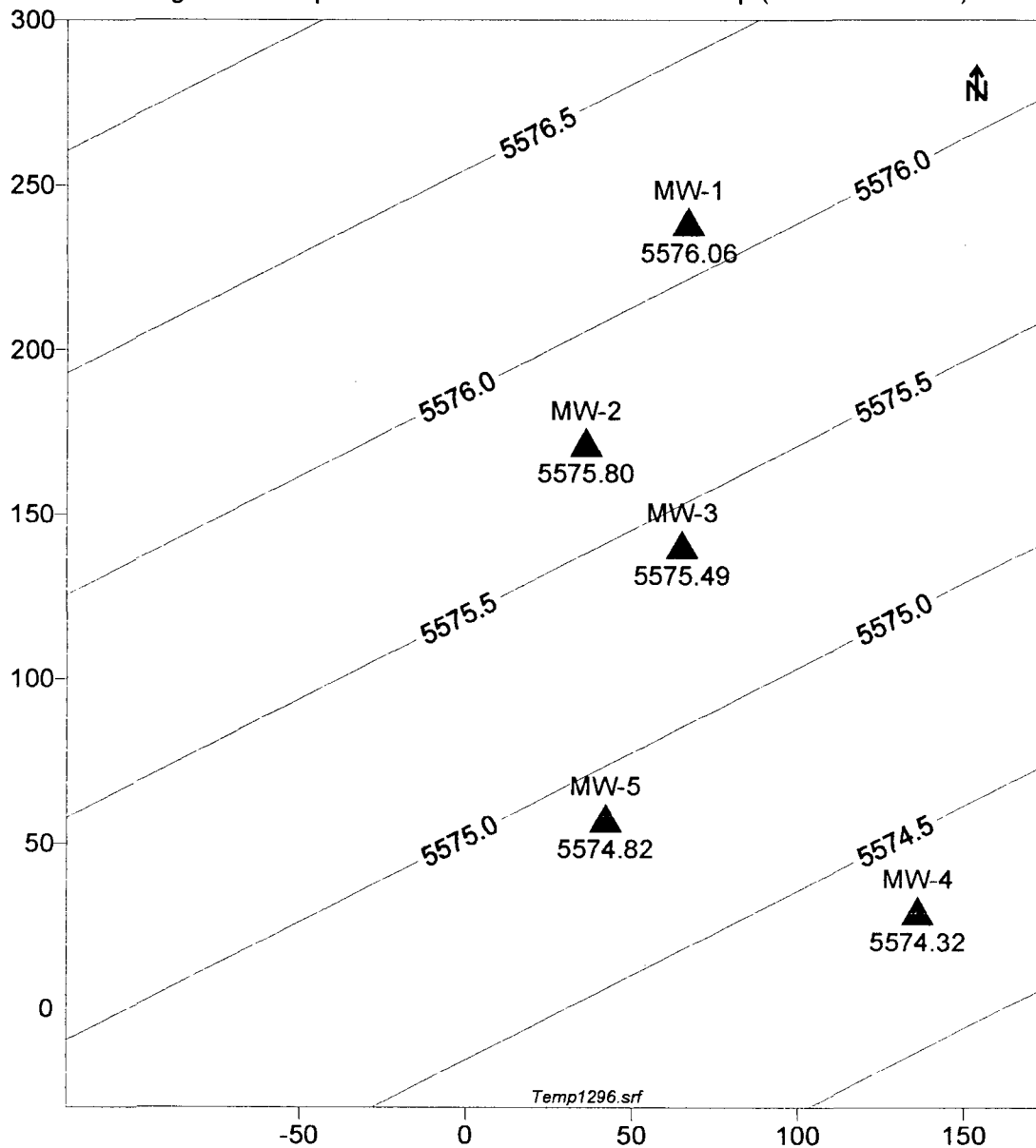


Figure 3. Templeton 1E Groundwater Contour Map (March 1997)

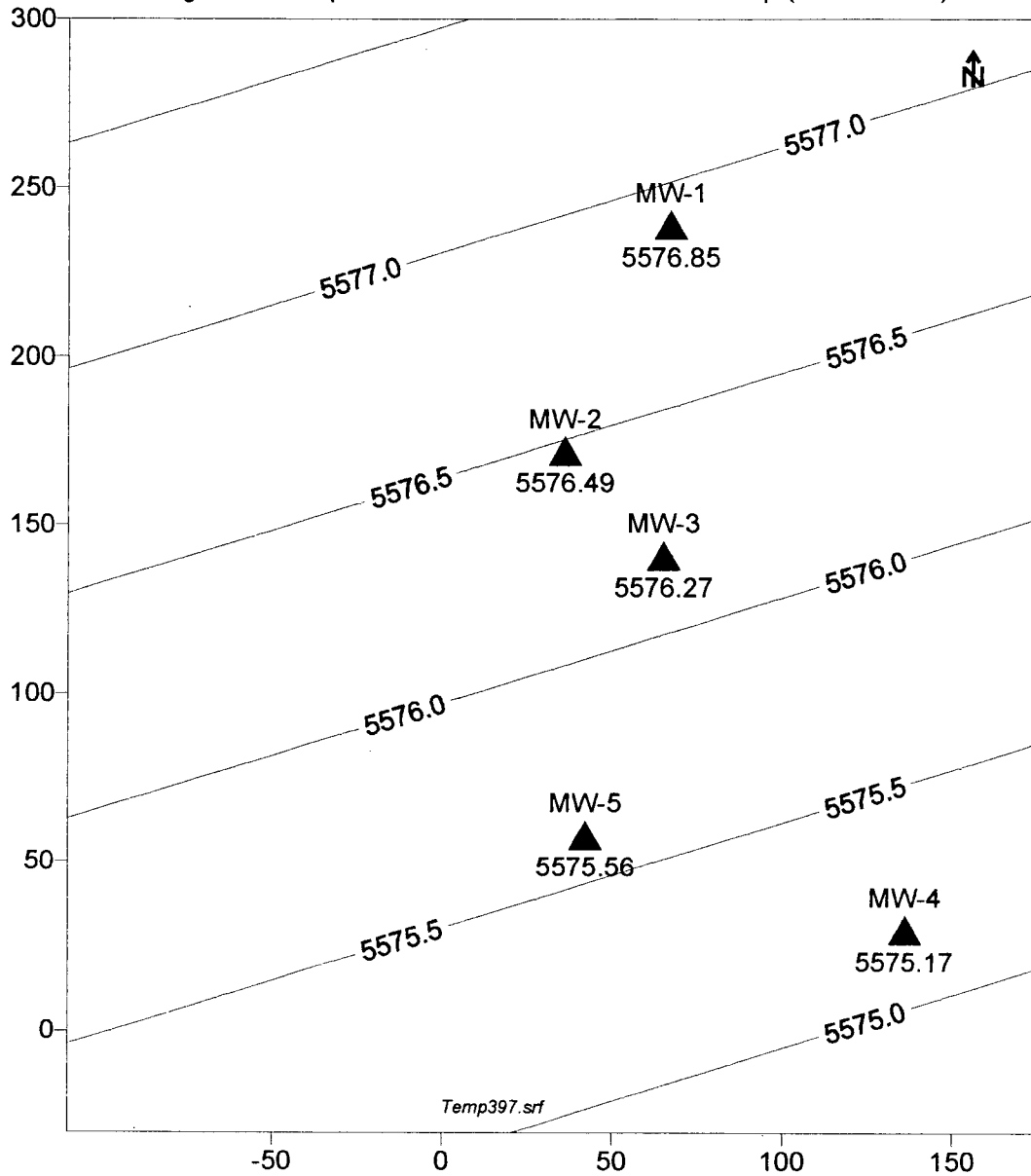
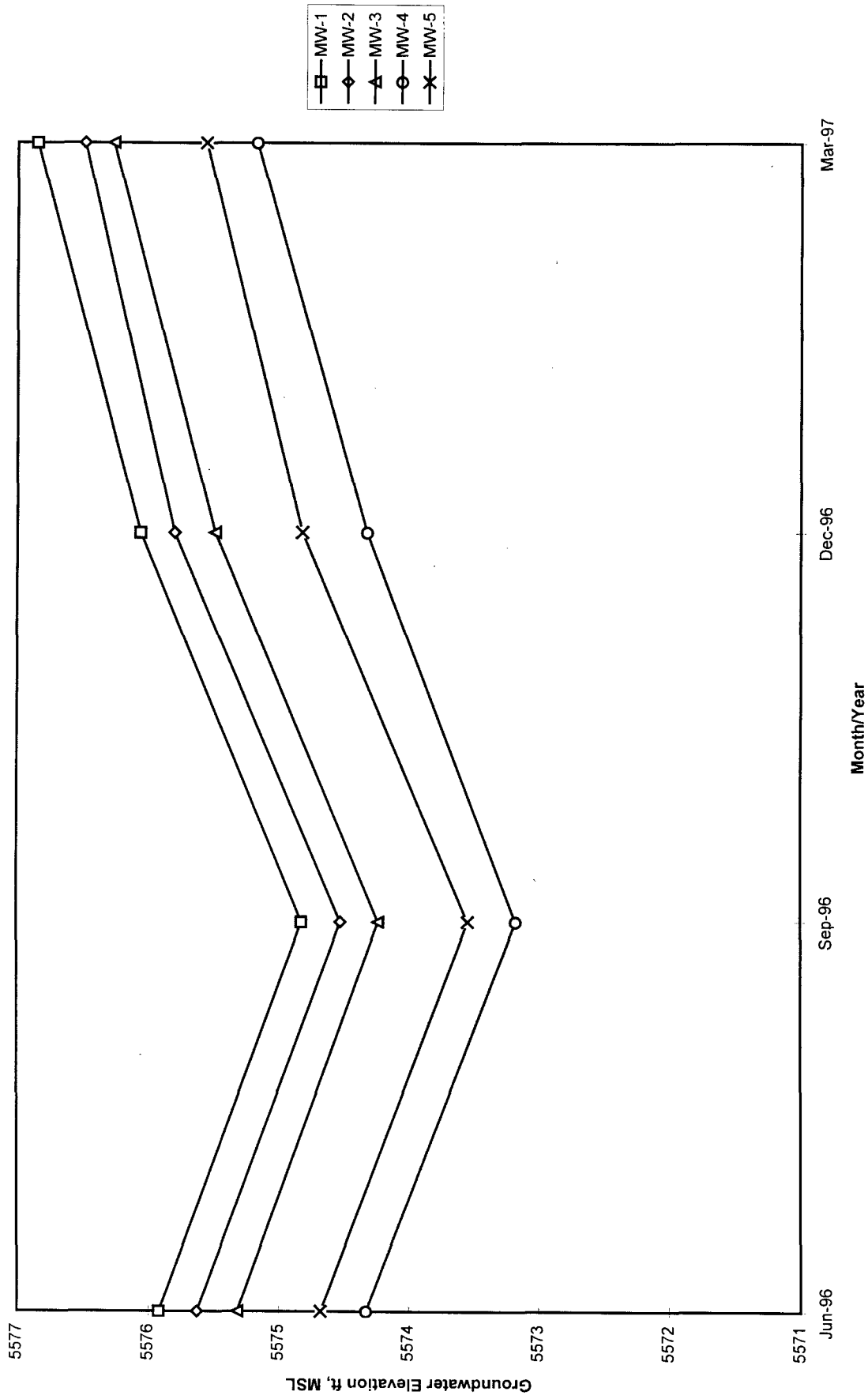


Figure 4. Templeton 1E Hydrograph
(Time vs. Water Level)



OFF: (505) 325-5667



LAB: (505) 325-1556

AROMATIC VOLATILE ORGANICS

Attn: *Denver Bearden*
Company: *PNM Gas Services*
Address: *603 W. Elm*
City, State: *Farmington, NM 87401*

Date: *16-Dec-96*
COC No.: *5707*
Sample No.: *13144*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Templeton 1E*
Project Location: *9612111000: MW-1*
Sampled by: *MS/RD*
Analyzed by: *DC*
Sample Matrix: *Water*

Date: *11-Dec-96* Time: *10:00*
Date: *16-Dec-96*

Laboratory Analysis

<i>Parameter</i>	<i>Result</i>	<i>Unit of Measure</i>	<i>Detection Limit</i>	<i>Unit of Measure</i>
<i>Benzene</i>	<i><0.2</i>	<i>ug/L</i>	<i>0.2</i>	<i>ug/L</i>
<i>Toluene</i>	<i><0.2</i>	<i>ug/L</i>	<i>0.2</i>	<i>ug/L</i>
<i>Ethylbenzene</i>	<i><0.2</i>	<i>ug/L</i>	<i>0.2</i>	<i>ug/L</i>
<i>m,p-Xylene</i>	<i><0.2</i>	<i>ug/L</i>	<i>0.2</i>	<i>ug/L</i>
<i>o-Xylene</i>	<i><0.2</i>	<i>ug/L</i>	<i>0.2</i>	<i>ug/L</i>
<i>TOTAL</i>	<i><0.2</i>	<i>ug/L</i>		

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: *DC*
Date: *12/16/96*

OFF: (505) 325-5667



LAB: (505) 325-1556

AROMATIC VOLATILE ORGANICS

Attn: *Denver Bearden*
Company: *PNM Gas Services*
Address: *603 W. Elm*
City, State: *Farmington, NM 87401*

Date: *16-Dec-96*
COC No.: *5707*
Sample No.: *13145*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Templeton 1E*
Project Location: *9612111030; MW-2*
Sampled by: *MS/RD*
Analyzed by: *DC*
Sample Matrix: *Water*

Date: *11-Dec-96* Time: *10:30*
Date: *16-Dec-96*

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
<i>Benzene</i>	<i><0.2</i>	<i>ug/L</i>	<i>0.2</i>	<i>ug/L</i>
<i>Toluene</i>	<i><0.2</i>	<i>ug/L</i>	<i>0.2</i>	<i>ug/L</i>
<i>Ethylbenzene</i>	<i><0.2</i>	<i>ug/L</i>	<i>0.2</i>	<i>ug/L</i>
<i>m,p-Xylene</i>	<i><0.2</i>	<i>ug/L</i>	<i>0.2</i>	<i>ug/L</i>
<i>o-Xylene</i>	<i><0.2</i>	<i>ug/L</i>	<i>0.2</i>	<i>ug/L</i>
<i>TOTAL</i>		<i><0.2</i>		<i>ug/L</i>

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: *DC*
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OFF: (505) 325-5667



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AROMATIC VOLATILE ORGANICS

Attn: *Denver Bearden*
Company: *PNM Gas Services*
Address: *603 W. Elm*
City, State: *Farmington, NM 87401*

Date: *16-Dec-96*
COC No.: *5707*
Sample No.: *13146*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Templeton 1E*
Project Location: *9612111045; MW-3*
Sampled by: *MS/RD*
Analyzed by: *DC*
Sample Matrix: *Water*

Date: *11-Dec-96* Time: *10:45*
Date: *16-Dec-96*

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
<i>Benzene</i>	<i><0.2</i>	<i>ug/L</i>	<i>0.2</i>	<i>ug/L</i>
<i>Toluene</i>	<i>1.0</i>	<i>ug/L</i>	<i>0.2</i>	<i>ug/L</i>
<i>Ethylbenzene</i>	<i>0.7</i>	<i>ug/L</i>	<i>0.2</i>	<i>ug/L</i>
<i>m,p-Xylene</i>	<i>1.6</i>	<i>ug/L</i>	<i>0.2</i>	<i>ug/L</i>
<i>o-Xylene</i>	<i><0.2</i>	<i>ug/L</i>	<i>0.2</i>	<i>ug/L</i>
<i>TOTAL</i>		<i>3.3</i>		<i>ug/L</i>

Method - *SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography*

Approved by: *[Signature]*
Date: *12/16/96*

OFF: (505) 325-5667



LAB: (505) 325-1556

AROMATIC VOLATILE ORGANICS

Attn: *Denver Bearden*
Company: *PNM Gas Services*
Address: *603 W. Elm*
City, State: *Farmington, NM 87401*

Date: 16-Dec-96
COC No.: 5707
Sample No.: 13147
Job No.: 2-1000

Project Name: *PNM Gas Services - Templeton 1E*
Project Location: *9612111100; MW-4*
Sampled by: *MS/RD*
Analyzed by: *DC*
Sample Matrix: *Water*

Date: 11-Dec-96 Time: 11:00
Date: 16-Dec-96

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
<i>Benzene</i>	<0.2	ug/L	0.2	ug/L
<i>Toluene</i>	<0.2	ug/L	0.2	ug/L
<i>Ethylbenzene</i>	<0.2	ug/L	0.2	ug/L
<i>m,p-Xylene</i>	<0.2	ug/L	0.2	ug/L
<i>o-Xylene</i>	<0.2	ug/L	0.2	ug/L
<i>TOTAL</i>		<0.2		ug/L

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: *[Signature]*
Date: 12/16/96

OFF: (505) 325-5667



LAB: (505) 325-1556

AROMATIC VOLATILE ORGANICS

Attn: *Denver Bearden*
Company: *PNM Gas Services*
Address: *603 W. Elm*
City, State: *Farmington, NM 87401*

Date: *16-Dec-96*
COC No.: *5707*
Sample No.: *13148*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Templeton 1E*
Project Location: *9612111115; MW-5*
Sampled by: *MS/RD*
Analyzed by: *DC*
Sample Matrix: *Water*

Date: *11-Dec-96* Time: *11:15*
Date: *16-Dec-96*

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
Benzene	<0.2	ug/L	0.2	ug/L
Toluene	<0.2	ug/L	0.2	ug/L
Ethylbenzene	<0.2	ug/L	0.2	ug/L
m,p-Xylene	<0.2	ug/L	0.2	ug/L
o-Xylene	<0.2	ug/L	0.2	ug/L
TOTAL		<0.2		ug/L

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: *[Signature]*
Date: *12/16/96*

OFF: (505) 325-5667



LAB: (505) 325-1556

AROMATIC VOLATILE ORGANICS

Attn: *Denver Bearden*
Company: *PNM Gas Services*
Address: *603 W. Elm*
City, State: *Farmington, NM 87401*

Date: *16-Dec-96*
COC No.: *5707*
Sample No.: *13149*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Templeton 1E*
Project Location: *9612111130; MW-6*
Sampled by: *MS/RD*
Analyzed by: *DC*
Sample Matrix: *Water*

Date: *11-Dec-96* Time: *11:30*
Date: *16-Dec-96*

Laboratory Analysis

<i>Parameter</i>	<i>Result</i>	<i>Unit of Measure</i>	<i>Detection Limit</i>	<i>Unit of Measure</i>
<i>Benzene</i>	<i><0.2</i>	<i>ug/L</i>	<i>0.2</i>	<i>ug/L</i>
<i>Toluene</i>	<i><0.2</i>	<i>ug/L</i>	<i>0.2</i>	<i>ug/L</i>
<i>Ethylbenzene</i>	<i><0.2</i>	<i>ug/L</i>	<i>0.2</i>	<i>ug/L</i>
<i>m,p-Xylene</i>	<i><0.2</i>	<i>ug/L</i>	<i>0.2</i>	<i>ug/L</i>
<i>o-Xylene</i>	<i><0.2</i>	<i>ug/L</i>	<i>0.2</i>	<i>ug/L</i>
<i>TOTAL</i>	<i><0.2</i>	<i>ug/L</i>		

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: *[Signature]*
Date: *12/16/96*

OFF: (505) 325-5667



LAB: (505) 325-1556

QUALITY ASSURANCE REPORT
for EPA Method 8020

Date Analyzed: 16-Dec-96

Internal QC No.: 0515-QC

Surrogate QC No.: 0516-QC

Reference Standard QC No.: 0417-QC

Method Blank

Parameter	Result	Unit of Measure
Average Amount of All Analytes In Blank	<0.2	ppb

Calibration Check

Parameter	Unit of Measure	True Value	Analyzed Value	% Diff	Limit
Benzene	ppb	20.0	19.4	3	15%
Toluene	ppb	20.0	20.0	0	15%
Ethylbenzene	ppb	20.0	20.3	2	15%
m,p-Xylene	ppb	40.0	39.9	0	15%
o-Xylene	ppb	20.0	19.9	0	15%

Matrix Spike

Parameter	1 - Percent Recovered	2 - Percent Recovered	Limit	%RSD	Limit
Benzene	92	97	(39-150)	4	20%
Toluene	97	101	(46-148)	2	20%
Ethylbenzene	100	102	(32-160)	2	20%
m,p-Xylene	97	100	(35-145)	2	20%
o-Xylene	98	100	(35-145)	2	20%

Surrogate Recoveries

Laboratory Identification	S1 Percent Recovered	S2 Percent Recovered
Limit Percent Recovered	(70-130)	
13144-5707	95	
13145-5707	94	
13146-5707	93	
13147-5707	94	
13148-5707	94	
13149-5707	94	

S1: Fluorobenzene



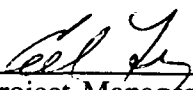
HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

RECEIVED JAN 2 1997

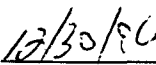
Southern Petroleum Laboratories, Inc.

Certificate of Analysis Number: 96-12-773

Approved for Release by:



Ed Fry, Project Manager



Date:

Greg Grandits
Laboratory Director

Idelis Williams
Quality Assurance Officer

The attached analytical data package may not be reproduced except in full without the express written approval of this laboratory.



HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

Certificate of Analysis No. H9-9612773-01

On Site Technologies
612 East Murray
Farmington, NM 87401
ATTN: David Cox

P.O.#
5707
12/30/96

PROJECT: ON Site Tech
SITE: Templeton IE
SAMPLED BY: On Site Tech
SAMPLE ID: Templeton IE MW-3

PROJECT NO: PNM1002
MATRIX: WATER
DATE SAMPLED: 12/11/96 10:45:00
DATE RECEIVED: 12/13/96

ANALYTICAL DATA

PARAMETER	RESULTS	PQL*	UNITS
Naphthalene	ND	0.09	ug/L
Acenaphthylene	ND	0.05	ug/L
Acenaphthene	ND	0.1	ug/L
Fluorene	ND	0.2	ug/L
Phenanthrene	ND	0.2	ug/L
Anthracene	ND	0.1	ug/L
Fluoranthene	ND	0.1	ug/L
Pyrene	ND	0.1	ug/L
Chrysene	ND	0.08	ug/L
Benzo (a) anthracene	ND	0.08	ug/L
Benzo (b) fluoranthene	ND	0.06	ug/L
Benzo (k) fluoranthene	ND	0.07	ug/L
Benzo (a) pyrene	ND	0.03	ug/L
Dibenzo (a,h) anthracene	ND	0.07	ug/L
Benzo (g,h,i) perylene	ND	0.1	ug/L
Indeno (1,2,3-cd) pyrene	ND	0.08	ug/L

SURROGATES	AMOUNT SPIKED	% RECOVERY	LOWER LIMIT	UPPER LIMIT
Biphenyl	2 ug/L	120	50	150
Coronene	0.25 ug/L	38 CI	50	150

ANALYZED BY: KA DATE/TIME: 12/18/96 15:35:37
EXTRACTED BY: JN DATE/TIME: 12/17/96 08:00:00
METHOD: 8310 Polynuclear Aromatic Hydrocarbons
NOTES: * - Practical Quantitation Limit ND - Not Detected
NA - Not Analyzed
CI - Coeluting Interference.

COMMENTS:

QUALITY ASSURANCE: These analyses are performed in accordance
with EPA guidelines for quality assurance.

***QUALITY CONTROL
DOCUMENTATION***



** SPL BATCH QUALITY CONTROL REPORT **
METHOD EPA 8310

PAGE

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

Matrix: Aqueous
Units: ug/L

Batch Id: 1961219015920

BLANK SPIKES

S P I K E C O M P O U N D S	Sample Results <2>	Spike Added <3>	Matrix Spike		Matrix Spike Duplicate		MS/MSD Relative % Difference	QC Limits(**) (Advisory)	
			Result	Recovery	Result	Recovery		RPD	Recovery Range
			<1>	<4>	<1>	<5>		Max.	
NAPHTHALENE	ND	0.50	0.43	86.0	0.55	110	24.5	30	1 - 122
ACENAPHTHYLENE	ND	0.50	0.45	90.0	0.48	96.0	6.45	30	1 - 124
ACENAPHTHENE	ND	0.5	0.44	88.0	0.51	102	14.7	30	1 - 124
FLUORENE	ND	0.5	0.48	96.0	0.56	112	15.4	30	1 - 142
PHENANTHRENE	ND	0.5	0.47	94.0	0.52	104	10.1	30	1 - 155
ANTHRACENE	ND	0.5	0.49	98.0	0.54	108	9.71	30	1 - 126
FLUORANTHENE	ND	0.5	0.49	98.0	0.54	108	9.71	30	14 - 123
PYRENE	ND	0.5	0.50	100	0.54	108	7.69	30	1 - 140
CHRYSENE	ND	0.50	0.50	100	0.55	110	9.52	30	1 - 199
BENZO (A) ANTHRACENE	ND	0.50	0.50	100	0.55	110	9.52	30	12 - 135
BENZO (B) FLUORANTHENE	ND	0.50	0.50	100	0.55	110	9.52	30	6 - 150
BENZO (K) FLUORANTHENE	ND	0.50	0.50	100	0.55	110	9.52	30	1 - 159
BENZO (A) PYRENE	ND	0.50	0.59	118	0.62	124	4.96	30	1 - 128
DIBENZO (A,H) ANTHRACENE	ND	0.50	0.47	94.0	0.52	104	10.1	30	1 - 110
BENZO (G,H,I) PERYLENE	ND	0.5	0.49	98.0	0.54	108	9.71	30	1 - 116
INDENO (1,2,3-CD) PYRENE	ND	0.50	0.48	96.0	0.54	108	11.8	30	1 - 116

Analyst: KA

Sequence Date: 12/18/96

Method Blank File ID:

Sample File ID:

Blank Spike File ID: 961218A\004-0101

Matrix Spike File ID:

Matrix Spike Duplicate File ID:

* = Values Outside QC Range

NC = Not Calculated (Sample exceeds spike by factor of 4 or more)

ND = Not Detected/Below Detection Limit

% Recovery = $[(<1> - <2>) / <3>] \times 100$

Relative Percent Difference = $[(<4> - <5>) / [(<4> + <5>) \times 0.5]] \times 100$

(**) = Source: SPL Temporary Limits

SAMPLES IN BATCH(SPL ID):

9612720-06B 9612720-08B 9612736-04C 9612773-01A
9612720-05B 9612720-07B 9612720-09B 9612720-10B
9612720-11B 9612736-01C 9612736-02C 9612736-03C
9612881-01A 9612720-01B 9612720-02B 9612720-03B
9612720-04B

CHAIN OF CUSTODY
AND
SAMPLE RECEIPT CHECKLIST

CHAIN OF CUSTODY RECORD

94-12-7115

62333

ON SITE

TECHNOLOGIES, LTD.

612 E. MURRAY
612 E. MURRAY • P. O. Box 2606 • Farmington NM 87499
LAB: (505) 325-5667 • FAX: (505) 325-6256

Date: 12/12/96

Page 1 of 1

Purchase Order No.: 5707		Job No. PUM1002	
Name ACCOUNTS PAYABLE		Company ON SITE TECH	
Address P.O. BOX 2606		City, State, Zip FARMINGTON, NM 87401	
SEND INVOICE TO		REPORT RESULTS TO	
Name DAVID COX		Title	
Company ON SITE TECH		Mailing Address 612 E MURRAY	
City, State, Zip FARMINGTON, NM 87401		Telephone No.	
Filing Location: TEMPLETON IE		ANALYSIS REQUESTED	
Sampler: MS		Number of Containers	
SAMPLE IDENTIFICATION		PAH 8310	
DATE TIME MATRIX PRES.		LAB ID	
TEMPLETON IE NWL-3		13146-5707	
9612111045		12/12/96 1500	
Relinquished by: [Signature]		Received by: [Signature]	
Relinquished by: [Signature]		Received by: [Signature]	
Relinquished by: [Signature]		Received by: [Signature]	
Method of Shipment: 12606 585019995 8600		Rush 24-48 Hours 10 Working Days Special Instructions:	
Authorized by: [Signature]		Date: [Signature]	
(Client Signature Must Accompany Request)		Date: [Signature]	

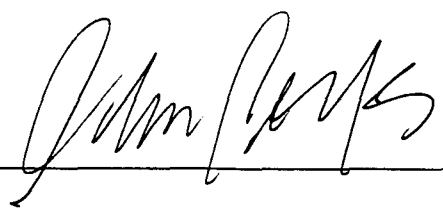
SPL Houston Environmental Laboratory

Sample Login Checklist

Date: 12/13/96	Time: 1610
-------------------	---------------

SPL Sample ID: 94-12-773

		Yes	No
1	Chain-of-Custody (COC) form is present.	✓	
2	COC is properly completed.	✓	
3	If no, Non-Conformance Worksheet has been completed.		
4	Custody seals are present on the shipping container.	✓	
5	If yes, custody seals are intact.	✓	
6	All samples are tagged or labeled.	✓	
7	If no, Non-Conformance Worksheet has been completed.		
8	Sample containers arrived intact	✓	
9	Temperature of samples upon arrival:	6° C	
10	Method of sample delivery to SPL:	SPL Delivery	
		Client Delivery	
		FedEx Delivery (airbill #)	
		Other: UPS	12 6658501 99958600
11	Method of sample disposal:	SPL Disposal	✓
		HOLD	
		Return to Client	

Name: 	Date: 12/13/96
--	-------------------

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

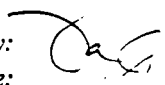
Attn: *Denver Bearden*
Company: *PNM Gas Services*
Address: *603 W. Elm*
City, State: *Farmington, NM 87401*

Date: *7-Mar-97*
COC No.: *5743*
Sample No.: *13779*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Templeton 1E*
Project Location: *9703031200; MW-1*
Sampled by: *MS* Date: *3-Mar-97* Time: *12:00*
Analyzed by: *DC* Date: *6-Mar-97*
Sample Matrix: *Liquid*

<i>Parameter</i>	<i>Result</i>	<i>Unit of Measure</i>	<i>Detection Limit</i>	<i>Unit of Measure</i>
<i>Benzene</i>	<i><0.2</i>	<i>ug/L</i>	<i>0.2</i>	<i>ug/L</i>
<i>Toluene</i>	<i><0.2</i>	<i>ug/L</i>	<i>0.2</i>	<i>ug/L</i>
<i>Ethylbenzene</i>	<i><0.2</i>	<i>ug/L</i>	<i>0.2</i>	<i>ug/L</i>
<i>m,p-Xylene</i>	<i><0.2</i>	<i>ug/L</i>	<i>0.2</i>	<i>ug/L</i>
<i>o-Xylene</i>	<i><0.2</i>	<i>ug/L</i>	<i>0.2</i>	<i>ug/L</i>
<i>TOTAL</i>	<i><0.2</i>	<i>ug/L</i>		

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved By: 

Date: *3.7.97*

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn: *Denver Bearden*
Company: *PNM Gas Services*
Address: *603 W. Elm*
City, State: *Farmington, NM 87401*

Date: *7-Mar-97*
COC No.: *5743*
Sample No.: *13780*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Templeton 1E*
Project Location: *9703031230; MW-2*
Sampled by: *MS*
Analyzed by: *DC*
Sample Matrix: *Liquid*

Date: *3-Mar-97* Time: *12:30*
Date: *6-Mar-97*

<i>Parameter</i>	<i>Result</i>	<i>Unit of Measure</i>	<i>Detection Limit</i>	<i>Unit of Measure</i>
<i>Benzene</i>	<i><0.2</i>	<i>ug/L</i>	<i>0.2</i>	<i>ug/L</i>
<i>Toluene</i>	<i><0.2</i>	<i>ug/L</i>	<i>0.2</i>	<i>ug/L</i>
<i>Ethylbenzene</i>	<i><0.2</i>	<i>ug/L</i>	<i>0.2</i>	<i>ug/L</i>
<i>m,p-Xylene</i>	<i><0.2</i>	<i>ug/L</i>	<i>0.2</i>	<i>ug/L</i>
<i>o-Xylene</i>	<i><0.2</i>	<i>ug/L</i>	<i>0.2</i>	<i>ug/L</i>
<i>TOTAL</i>	<i><0.2</i>	<i>ug/L</i>		

Method - *SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography*

Approved By: *[Signature]*
Date: *3/7/97*

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn: *Denver Bearden*
Company: *PNM Gas Services*
Address: *603 W. Elm*
City, State: *Farmington, NM 87401*

Date: *7-Mar-97*
COC No.: *5743*
Sample No.: *13781*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Templeton 1E*
Project Location: *9703031300; MW-3*
Sampled by: *MS*
Analyzed by: *DC*
Sample Matrix: *Liquid*

Date: *3-Mar-97* Time: *13:00*
Date: *6-Mar-97*

<i>Parameter</i>	<i>Result</i>	<i>Unit of Measure</i>	<i>Detection Limit</i>	<i>Unit of Measure</i>
<i>Benzene</i>	<i><0.2</i>	<i>ug/L</i>	<i>0.2</i>	<i>ug/L</i>
<i>Toluene</i>	<i><0.2</i>	<i>ug/L</i>	<i>0.2</i>	<i>ug/L</i>
<i>Ethylbenzene</i>	<i><0.2</i>	<i>ug/L</i>	<i>0.2</i>	<i>ug/L</i>
<i>m,p-Xylene</i>	<i>0.5</i>	<i>ug/L</i>	<i>0.2</i>	<i>ug/L</i>
<i>o-Xylene</i>	<i><0.2</i>	<i>ug/L</i>	<i>0.2</i>	<i>ug/L</i>
<i>TOTAL</i>	<i>0.5</i>	<i>ug/L</i>		

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved By: *[Signature]*

Date: *3/10/97*

OFF: (505) 325-5667

ON SITE
TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Attn: *Denver Bearden*
Company: *PNM Gas Services*
Address: *603 W. Elm*
City, State: *Farmington, NM 87401*

Date: *7-Mar-97*
COC No.: *5743*
Sample No.: *13782*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Templeton 1E*
Project Location: *9703031330; MW-4*
Sampled by: *MS* Date: *3-Mar-97* Time: *13:30*
Analyzed by: *DC* Date: *6-Mar-97*
Sample Matrix: *Liquid*

<i>Parameter</i>	<i>Result</i>	<i>Unit of Measure</i>	<i>Detection Limit</i>	<i>Unit of Measure</i>
<i>Benzene</i>	<i><0.2</i>	<i>ug/L</i>	<i>0.2</i>	<i>ug/L</i>
<i>Toluene</i>	<i><0.2</i>	<i>ug/L</i>	<i>0.2</i>	<i>ug/L</i>
<i>Ethylbenzene</i>	<i><0.2</i>	<i>ug/L</i>	<i>0.2</i>	<i>ug/L</i>
<i>m,p-Xylene</i>	<i><0.2</i>	<i>ug/L</i>	<i>0.2</i>	<i>ug/L</i>
<i>o-Xylene</i>	<i><0.2</i>	<i>ug/L</i>	<i>0.2</i>	<i>ug/L</i>
<i>TOTAL</i>	<i><0.2</i>	<i>ug/L</i>		

Method - *SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography*

Approved By: *TAC*

Date: *3-2-97*

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn: *Denver Bearden*
Company: *PNM Gas Services*
Address: *603 W. Elm*
City, State: *Farmington, NM 87401*

Date: *7-Mar-97*
COC No.: *5743*
Sample No.: *13783*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Templeton 1E*
Project Location: *9703031400; MW-5*
Sampled by: *MS* Date: *3-Mar-97* Time: *14:00*
Analyzed by: *DC* Date: *6-Mar-97*
Sample Matrix: *Liquid*

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
Benzene	<0.2	ug/L	0.2	ug/L
Toluene	<0.2	ug/L	0.2	ug/L
Ethylbenzene	<0.2	ug/L	0.2	ug/L
m,p-Xylene	<0.2	ug/L	0.2	ug/L
o-Xylene	<0.2	ug/L	0.2	ug/L
TOTAL	<0.2	ug/L		

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved By: *CAF*
Date: *3/7/97*

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn: *Denver Bearden*
Company: *PNM Gas Services*
Address: *603 W. Elm*
City, State: *Farmington, NM 87401*

Date: *7-Mar-97*
COC No.: *5743*
Sample No.: *13784*
Job No.: *2-1000*

Project Name: *PNM Gas Services - Templeton 1E*
Project Location: *9703031430; MW-6*
Sampled by: *MS* Date: *3-Mar-97* Time: *14:30*
Analyzed by: *DC* Date: *6-Mar-97*
Sample Matrix: *Liquid*

<i>Parameter</i>	<i>Result</i>	<i>Unit of Measure</i>	<i>Detection Limit</i>	<i>Unit of Measure</i>
<i>Benzene</i>	<i><0.2</i>	<i>ug/L</i>	<i>0.2</i>	<i>ug/L</i>
<i>Toluene</i>	<i><0.2</i>	<i>ug/L</i>	<i>0.2</i>	<i>ug/L</i>
<i>Ethylbenzene</i>	<i><0.2</i>	<i>ug/L</i>	<i>0.2</i>	<i>ug/L</i>
<i>m,p-Xylene</i>	<i>0.4</i>	<i>ug/L</i>	<i>0.2</i>	<i>ug/L</i>
<i>o-Xylene</i>	<i><0.2</i>	<i>ug/L</i>	<i>0.2</i>	<i>ug/L</i>
<i>TOTAL</i>	<i>0.4</i>	<i>ug/L</i>		

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved By: *DC*
Date: *3/10/97*

OFF: (505) 325-5667



LAB: (505) 325-1556

QUALITY ASSURANCE REPORT
for EPA Method 8020

Date Analyzed: 6-Mar-97

Internal QC No.: 0527-STD

Surrogate QC No.: 0528-STD

Reference Standard QC No.: 0417-QC

Method Blank

<i>Parameter</i>	<i>Result</i>	<i>Unit of Measure</i>
Average Amount of All Analytes In Blank	<0.2	ppb

Calibration Check

<i>Parameter</i>	<i>Unit of Measure</i>	<i>True Value</i>	<i>Analyzed Value</i>	<i>% Diff</i>	<i>Limit</i>
Benzene	ppb	20.0	18.9	5	15%
Toluene	ppb	20.0	21.0	5	15%
Ethylbenzene	ppb	20.0	20.6	3	15%
m,p-Xylene	ppb	40.0	39.6	1	15%
o-Xylene	ppb	20.0	20.4	2	15%

Matrix Spike

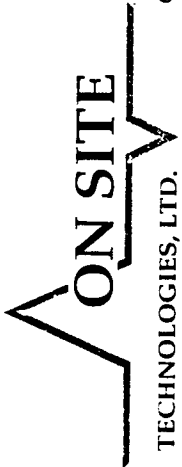
<i>Parameter</i>	<i>1 - Percent Recovered</i>	<i>2 - Percent Recovered</i>	<i>Limit</i>	<i>%RSD</i>	<i>Limit</i>
Benzene	91	90	(39-150)	1	20%
Toluene	97	95	(46-148)	1	20%
Ethylbenzene	100	98	(32-160)	1	20%
m,p-Xylene	96	94	(35-145)	1	20%
o-Xylene	98	97	(35-145)	1	20%

Surrogate Recoveries

<i>Laboratory Identification</i>	<i>S1 Percent Recovered</i>	<i>S2 Percent Recovered</i>	<i>Laboratory Identification</i>	<i>S1 Percent Recovered</i>	<i>S2 Percent Recovered</i>
Limit Percent Recovered	(70-130)		Limit Percent Recovered	(70-130)	
13779-5741	96				
13780-5743	96				
13781-5743	95				
13782-5743	96				
13783-5743	96				
13784-5743	95				

S1: Fluorobenzene

A small, handwritten mark consisting of the letters "OC" in a cursive style, enclosed within a circle.



CHAIN OF CUSTODY RECORD

5743

Date: 3/3/97

Page 1 of 1

657 W. Maple • P. O. Box 2606 • Farmington NM 87499
LAB: (505) 325-5667 • FAX: (505) 325-6256

Purchase Order No.:		Job No.	
Name: Denver Bearden		Title:	
Company: PNM Gas Services		Company: PNM Gas Services	
Address: 603 W. Elm Street		Mailing Address: Alverado Square, Mail Stop 0408	
City, State, Zip: Farmington, NM 87401		City, State, Zip: Albuquerque, NM 87158	
Sampling Location: Templeton IE		Telephone No.: 505-848-2974	
Telefax No.:		Telefax No.:	
INVOICE TO SEND		RESULTS TO REPORT	
Sampler: Mark Sikelianos		ANALYSIS REQUESTED	
SAMPLE IDENTIFICATION		Number of Containers	
DATE		DATE	
TIME		TIME	
MATRIX		PRES.	
9703031200 MW-1		3/3/97	
9703031230 MW-2		↓	
9703031300 MW-3		↓	
9703031330 MW-4		↓	
9703031400 MW-5		↓	
9703031430 MW-6		↓	
Relinquished by: [Signature]		Date/Time: 3/3/97 1430	
Relinquished by:		Date/Time:	
Relinquished by:		Date/Time:	
Method of Shipment:		Received by: Heidi Reese	
Authorized by: [Signature]		Date/Time: 3/3/97 1427	
(Client Signature Must Accompany Request)		Date/Time:	
Date: 3/3/97		Date/Time:	
Rush		Date/Time:	
24-48 Hours		Date/Time:	
10 Working Days		Date/Time:	
Special Instructions:		Date/Time:	
Results to be sent to both parties.		Date/Time:	