

3R - 330

REPORTS

DATE:

1998

Public Service Company
of New Mexico
Alvarado Square MS 0408
Albuquerque, NM 87158

April 2, 1998

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

RECEIVED
APR 03 1998
Bureau
Oil Conservation Division



RE: 1998 SAN JUAN BASIN ANNUAL GROUNDWATER REPORT

Dear Bill:

PNM is pleased to submit the 1998 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
Dogie Compressor Station East Pit
Dogie Compressor Station North Pit
Florance 32A
Florance Z 40 M
Florance 44
Florance 47X
Florance 124
Hampton 4M
Honolulu Loop Line Drip
Ice Canyon Drip
Jacques 2A
Mangum 1E
McClanahan 22
McClanahan A2E
McCoy Gas Com A1
Miles Federal 1E
Miles Federal 1E Drip
Randleman 1
Reid 16 Drip
Sammons 2
Turner 1A
Turner 3
Zachry 18E

PNM 1998 Groundwater Report

PNM plans to request closure of two of the above sites, the Cozzens B1 and the Sammons 2, in our April 30, 1998 filing of the San Juan Pit Closure Reports to the OCD Santa Fe office. 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: Ingrid Deklau, WFS
Denny Foust, OCD-Aztec Office
Bill VonDrehle, WFS

PNM 1998 Groundwater Report

bcc: Colin Adams (w/o analytical results)
Kathy Juckes
Ron Johnson (w/o analytical results)
Mark Sikelianos

Groundwater Site Summary Report

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

Quarter/Year: 2nd/97, 3rd/97, 4th/97 & 1st/98

Operator: Burlington Resources
Sec: 23 **Twn:** 28 **Rng:** 10 **Unit:** 0
Canyon: Armenta

Vulnerable Class: Original
OCD Ranking: 30
Lead Agency: NMOCD

Topo Map: previously submitted

Well Completion Diagram: previously submitted

Site Map with Analytical Results: Figure 1

Groundwater Contour Map: Figure 2 (June 1997), Figure 3 (September 1997), Figure 4 (December 1997 & Figure 5 (March 1998)

Hydrograph: Figure 6

Analytical Results: attached

Activities for Previous Year:

PNM performed groundwater monitoring at the site on June 18, September 25 and December 17, 1997 and again on March 10, 1998. Water level measurements were taken in each of the four monitoring wells. PNM conducted groundwater sampling in each well for chemical analyses of benzene, toluene, ethylbenzene, and xylenes (BTEX). All sampling was conducted in strict compliance with EPA protocol. PNM delivered the samples to OnSite Technologies, Farmington, New Mexico. The samples were analyzed for BTEX using EPA Method 8020.

Results:

Figure 1 presents the site map with analytical results to date. MW-1 and MW-3 have shown BTEX concentrations to be non-detectable or below WQCC standards since monitoring began. MW-4 is showing good attenuation of all BTEX constituents over time. MW-2, the source well, continues to exhibit high BTEX concentrations which is probably an indication of remaining hydrocarbon-contaminated soil.

Figure(s) 3, 4 and 5 provide groundwater contour maps for September and December 1997 and February 1998, respectively. In general, groundwater flow is in a northwesterly direction beneath the site. During the December event, the gradient appeared to be in the northeast direction and may be an anomaly. Figure 6 is the hydrograph for the site. In general, water levels have increased over the course of monitoring. MW-4 experienced a sharp decrease between the March and June 1997 sampling events but has followed the trend of other wells since that time.

Future Actions:

PNM will continue to monitor groundwater gradient and perform quarterly sampling at the Miles Federal 1E well site. In addition, we are also considering additional source removal at this site.

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. McClanahan A2E Site Map with Analytical Results
(Concentrations in ppb)

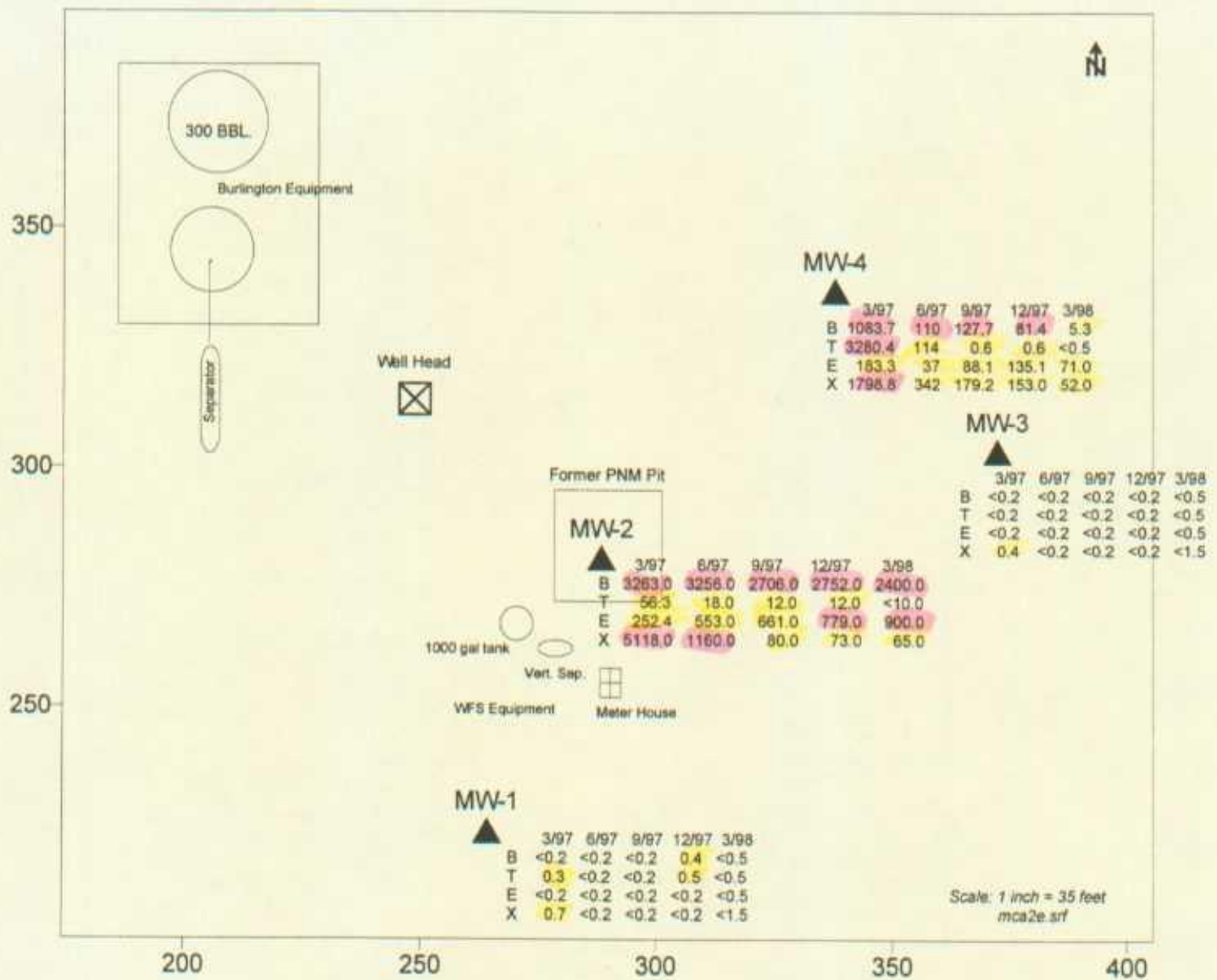


Figure 2. McClanahan A2E Groundwater Contour Map (June, 1997)

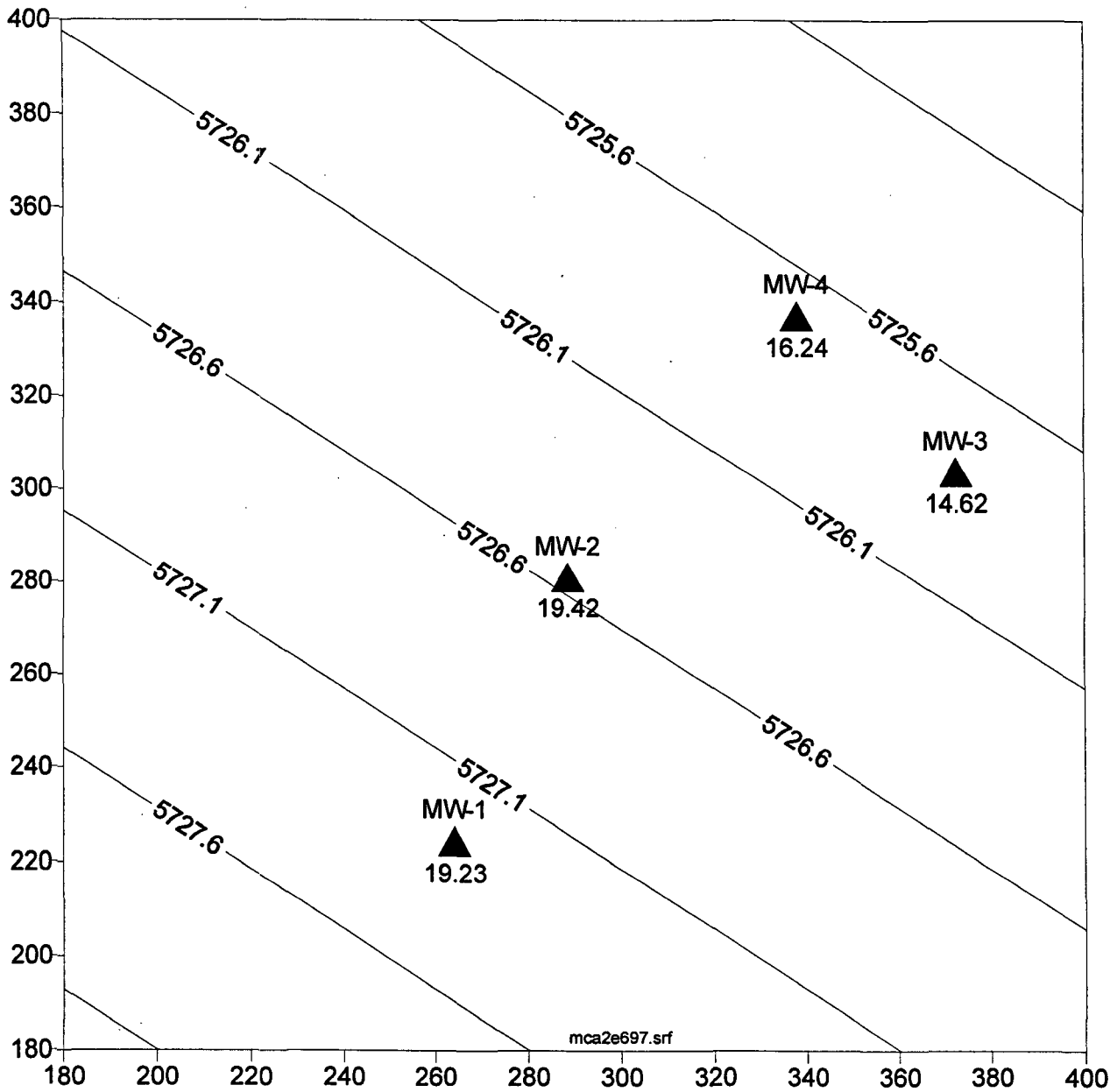


Figure 3. McClanahan A2E Groundwater Contour Map (September 25, 1997)

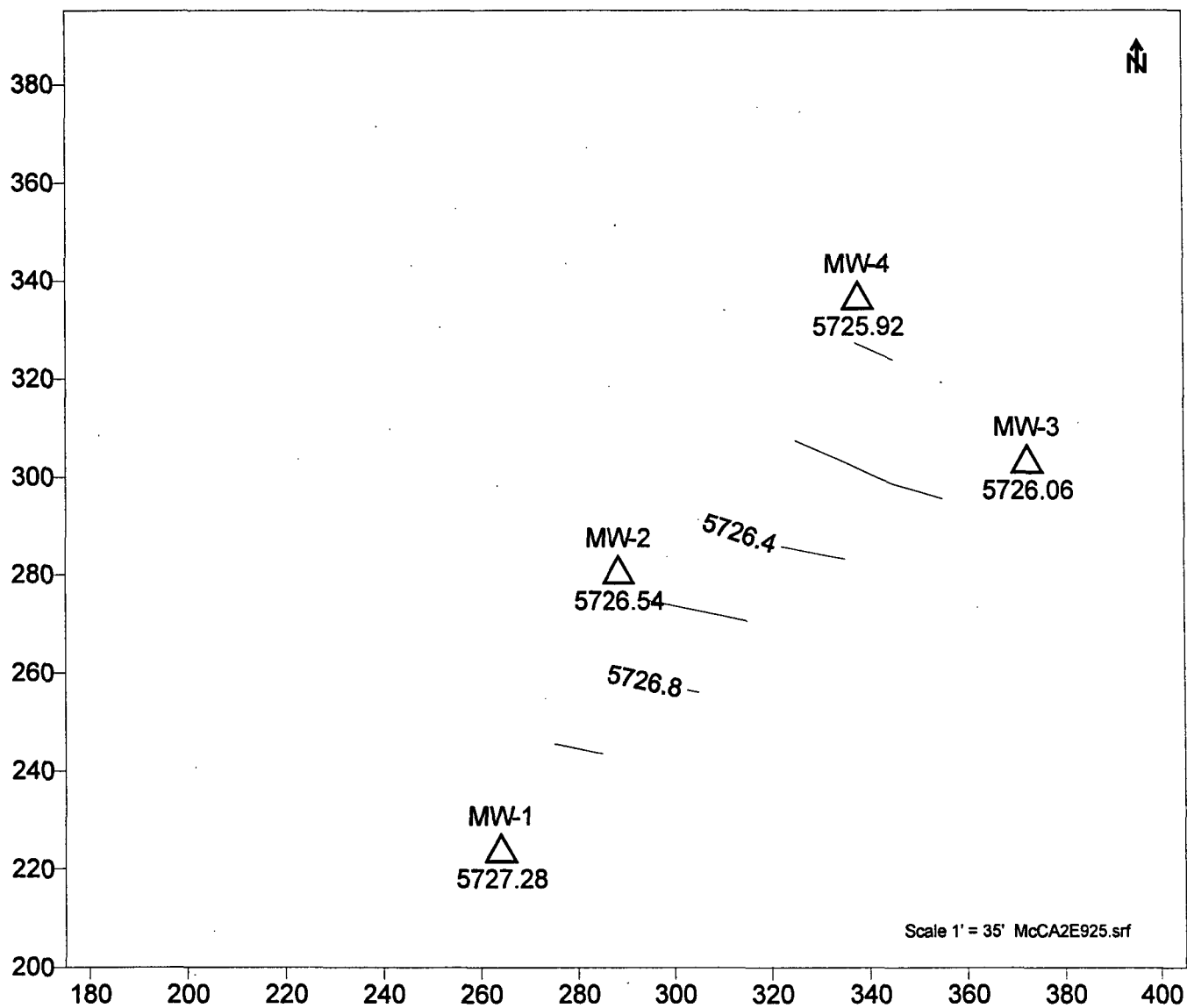


Figure 4. McClanahan A2E Groundwater Contour Map (December 17, 1997)

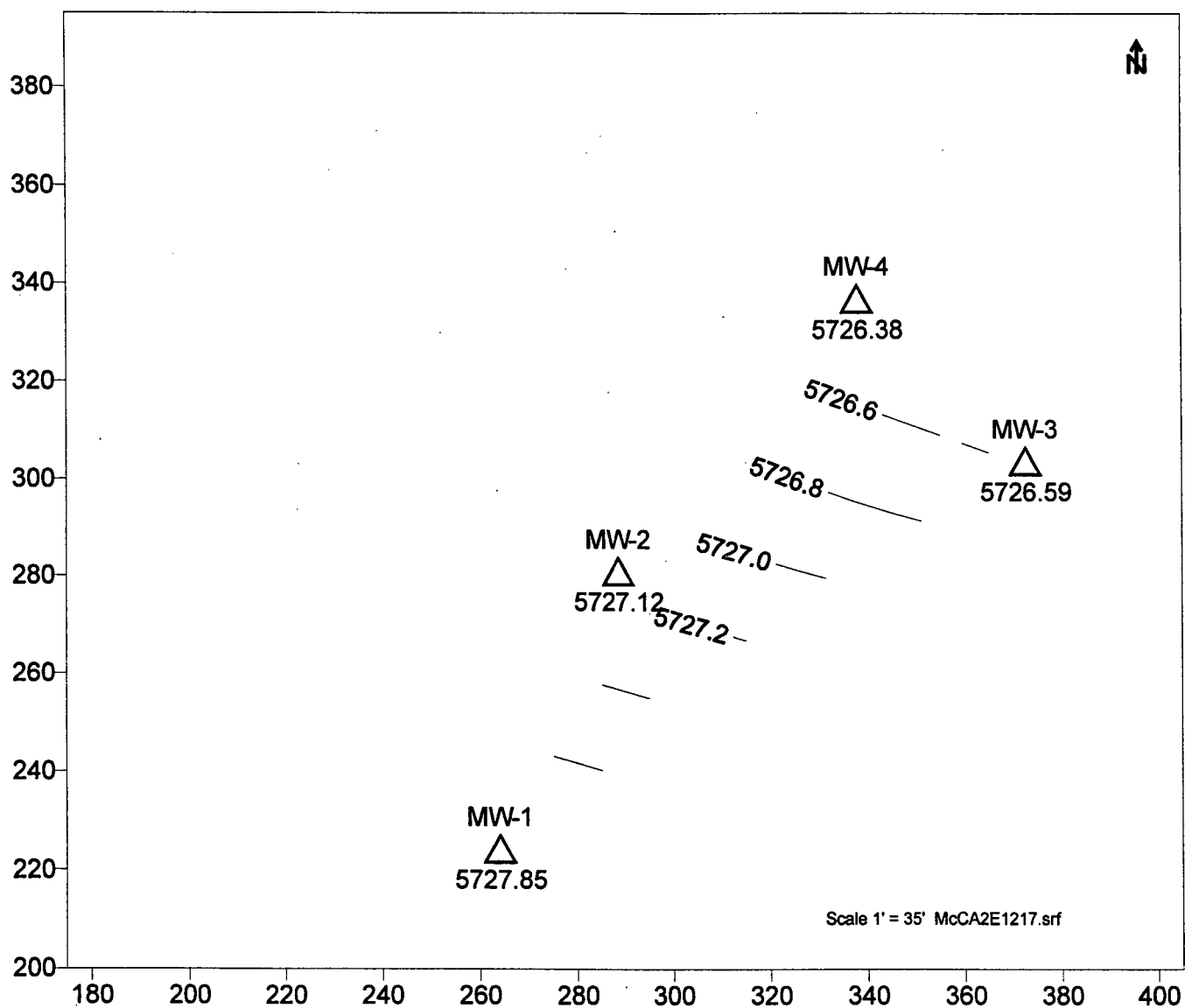


Figure 5. McClanahan A2E Groundwater Contour Map (March 10, 1998)

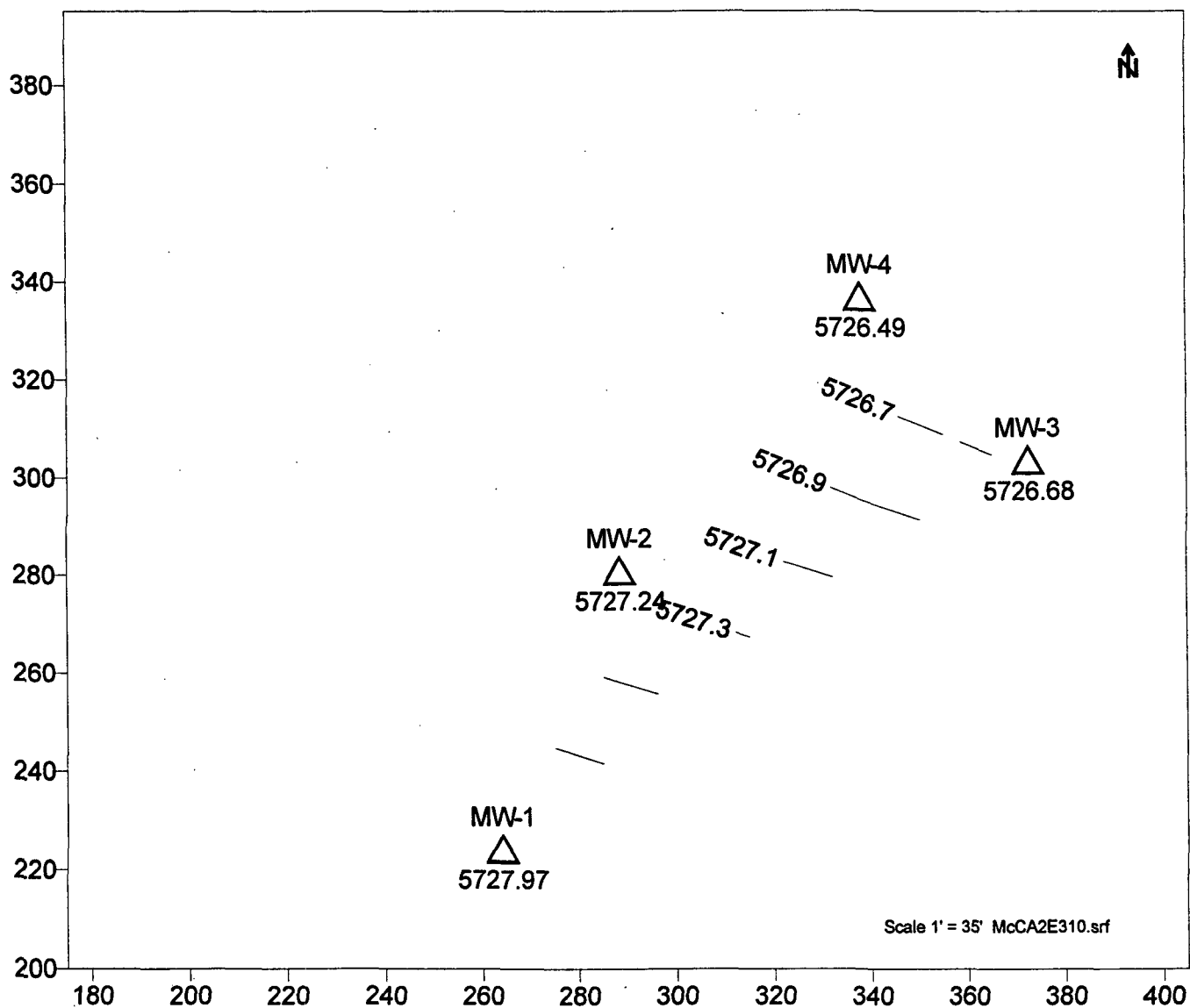
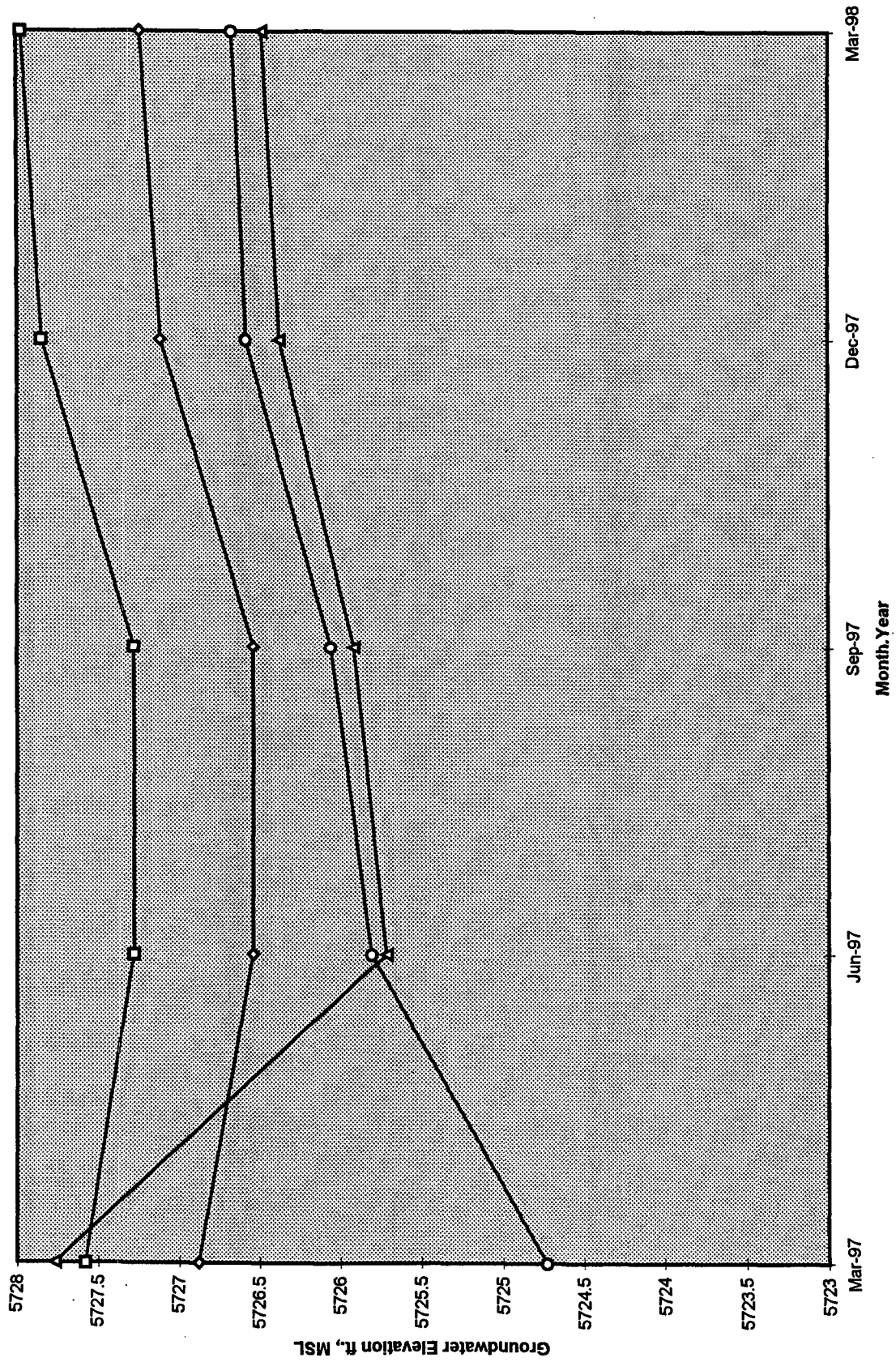


Figure 6. McCianahan A2E Hydrograph
(Water Level vs. Time)



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: *26-Jun-97*
COC No.: *5564*
Sample No.: *15010*
Job No.: *2-1000*

Project Name: *PNM Gas Services - McClanahan A2E*
Project Location: *9706181330; MW-1*
Sampled by: *MG/MS* Date: *18-Jun-97* Time: *13:30*
Analyzed by: *DC* Date: *24-Jun-97*
Sample Matrix: *Liquid*

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Benzene</i>	ND	ug/L	0.2	ug/L
<i>Toluene</i>	ND	ug/L	0.2	ug/L
<i>Ethylbenzene</i>	ND	ug/L	0.2	ug/L
<i>m,p-Xylene</i>	ND	ug/L	0.2	ug/L
<i>o-Xylene</i>	ND	ug/L	0.2	ug/L
<i>TOTAL</i>	ND	ug/L		

ND - Not Detected at Limit of Quantitation

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

Approved By: *[Signature]*
Date: *6/26/97*

P.O. BOX 2606 • FARMINGTON, NM 87499

TECHNOLOGY BLENDING, INC. 4701 NORTH HILL AVE. FARMINGTON, NM 87401

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: *26-Jun-97*
COC No.: *5564*
Sample No.: *15011*
Job No.: *2-1000*

Project Name: *PNM Gas Services - McClanahan A2E*
Project Location: *9706181400; MW-2*
Sampled by: *MG/MS* Date: *18-Jun-97* Time: *14:00*
Analyzed by: *DC* Date: *25-Jun-97*
Sample Matrix: *Liquid*

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Benzene</i>	<i>3256</i>	<i>ug/L</i>	<i>10</i>	<i>ug/L</i>
<i>Toluene</i>	<i>18</i>	<i>ug/L</i>	<i>4</i>	<i>ug/L</i>
<i>Ethylbenzene</i>	<i>553</i>	<i>ug/L</i>	<i>4</i>	<i>ug/L</i>
<i>m,p-Xylene</i>	<i>1155</i>	<i>ug/L</i>	<i>4</i>	<i>ug/L</i>
<i>o-Xylene</i>	<i>5</i>	<i>ug/L</i>	<i>4</i>	<i>ug/L</i>
<i>TOTAL</i>	<i>4987</i>	<i>ug/L</i>		

3-11-97
3263
610.5
2824
5104.5
10.5

ND - Not Detected at Limit of Quantitation

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

Approved By: *DC*
Date: *6/26/97*

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LAB: (505) 325-1556

ANALYTICAL REPORT

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

Date: *26-Jun-97*
COC No.: *5564*
Sample No.: *15012*
Job No.: *2-1000*

Project Name: *PNM Gas Services - McClanahan A2E*
Project Location: *9706181430; MW-3*
Sampled by: *MG/MS* Date: *18-Jun-97* Time: *14:30*
Analyzed by: *DC* Date: *24-Jun-97*
Sample Matrix: *Liquid*

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Benzene</i>	ND	ug/L	0.2	ug/L
<i>Toluene</i>	ND	ug/L	0.2	ug/L
<i>Ethylbenzene</i>	ND	ug/L	0.2	ug/L
<i>m,p-Xylene</i>	ND	ug/L	0.2	ug/L
<i>o-Xylene</i>	ND	ug/L	0.2	ug/L
<i>TOTAL</i>	ND	ug/L		

ND - Not Detected at Limit of Quantitation

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

Approved By: *[Signature]*
Date: *6/26/97*

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- TECHNICAL BY BLENDING INDUSTRIES - FARMINGTON, NM

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: *26-Jun-97*
COC No.: *5564*
Sample No.: *15013*
Job No.: *2-1000*

Project Name: *PNM Gas Services - McClanahan A2E*
Project Location: *9706181500; MW-4*
Sampled by: *MG/MS* Date: *18-Jun-97* Time: *15:00*
Analyzed by: *DC* Date: *24-Jun-97*
Sample Matrix: *Liquid*

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Benzene</i>	<i>110</i>	<i>ug/L</i>	<i>4</i>	<i>ug/L</i>
<i>Toluene</i>	<i>114</i>	<i>ug/L</i>	<i>4</i>	<i>ug/L</i>
<i>Ethylbenzene</i>	<i>37</i>	<i>ug/L</i>	<i>4</i>	<i>ug/L</i>
<i>m,p-Xylene</i>	<i>275</i>	<i>ug/L</i>	<i>4</i>	<i>ug/L</i>
<i>o-Xylene</i>	<i>67</i>	<i>ug/L</i>	<i>4</i>	<i>ug/L</i>
<i>TOTAL</i>	<i>603</i>	<i>ug/L</i>		

ND - Not Detected at Limit of Quantitation

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

Approved By: *DAK*
Dcte: *6/26/97*

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

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: *26-Jun-97*
COC No.: *5564*
Sample No.: *15014*
Job No.: *2-1000*

Project Name: *PNM Gas Services - McClanahan A2E*
Project Location: *9706181530; MW-5*
Sampled by: *MG/MS* Date: *18-Jun-97* Time: *15:30*
Analyzed by: *DC* Date: *24-Jun-97*
Sample Matrix: *Liquid*

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Benzene</i>	<i>117</i>	<i>ug/L</i>	<i>4</i>	<i>ug/L</i>
<i>Toluene</i>	<i>120</i>	<i>ug/L</i>	<i>4</i>	<i>ug/L</i>
<i>Ethylbenzene</i>	<i>40</i>	<i>ug/L</i>	<i>4</i>	<i>ug/L</i>
<i>m,p-Xylene</i>	<i>300</i>	<i>ug/L</i>	<i>4</i>	<i>ug/L</i>
<i>o-Xylene</i>	<i>72</i>	<i>ug/L</i>	<i>4</i>	<i>ug/L</i>
<i>TOTAL</i>	<i>649</i>	<i>ug/L</i>		

ND - Not Detected at Limit of Quantitation

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

Approved By: *[Signature]*
Date: *6/26/97*

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- TECHNOLOGY BLENDING COMPANY WITH THE ENVIRONMENT

OFF: (505) 325-5667



LAB: (505) 325-1556

QUALITY ASSURANCE REPORT for EPA Method 8020

Date Analyzed: 25-Jun-97

Internal QC No.: 0527-STD

Surrogate QC No.: 0528-STD

Reference Standard QC No.: 0529/30-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	18.9	5	15%
Toluene	ppb	20.0	19.6	2	15%
Ethylbenzene	ppb	20.0	19.9	0	15%
m,p-Xylene	ppb	40.0	38.6	4	15%
o-Xylene	ppb	20.0	19.8	1	15%

Matrix Spike

Parameter	1 - Percent Recovered	2 - Percent Recovered	Limit	%RSD	Limit
Benzene	93	79	(39-150)	4	20%
Toluene	98	92	(46-148)	4	20%
Ethylbenzene	95	88	(32-160)	4	20%
m,p-Xylene	94	87	(35-145)	4	20%
o-Xylene	98	92	(35-145)	4	20%

Surrogate Recoveries

Laboratory Identification	S1 Percent Recovered	S2 Percent Recovered	Laboratory Identification	S1 Percent Recovered	S2 Percent Recovered
Limit Percent Recovered	(70-130)		Limit Percent Recovered	(70-130)	
15010-5564	96				
15012-5564	95				
15013-5564	95				
15014-5564	95				
15011-5564	94				
				6/27/97	6/26/97

S1: Fluorobenzene

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -



RECEIVED JUL 11 1997

July 8, 1997

Mr. David Cox
ON SITE TECHNOLOGIES
612 East Murray
Farmington, NM 87401

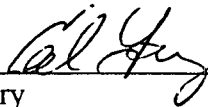
The following report contains analytical results for samples received at Southern Petroleum Laboratories (SPL) on June 20, 1997. The samples were assigned to Certificate of Analysis No(s).9706A11 and analyzed for the parameters specified on the chain of custody.

There were no analytical problems encountered with this group of samples and all quality control data was within acceptance limits.

If you have any questions or comments pertaining to this data report, please do not hesitate to contact me. Please reference the above Certificate of Analysis Number during any inquiries.

Again, SPL is pleased to be of service to you. We anticipate working with you in fulfilling all your current and future analytical needs.

Southern Petroleum Laboratories



Ed Fry
Project Manager



RECEIVED IN 11457

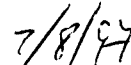
Southern Petroleum Laboratories, Inc.

Certificate of Analysis Number: 97-06-A11

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.



LABORATORIES Certificate of Analysis No. H9-9706A11-01

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

P.O.#
5564
07/06/97

PROJECT: ~~Reid 16 Drip~~
SITE: Farmington, NM
SAMPLED BY: On Site Technologies
SAMPLE ID: McClanahan A2E MW 2
9706181400 (02)

PROJECT NO: PNM1002
MATRIX: WATER
DATE SAMPLED: 06/18/97 14:00:00
DATE RECEIVED: 06/20/97

ANALYTICAL DATA

PARAMETER	RESULTS	PQL*	UNITS
Naphthalene	73	50.0	ug/L
Acenaphthylene	ND	50.0	ug/L
Acenaphthene	ND	150.0	ug/L
Fluorene	ND	150.0	ug/L
Phenanthrene	ND	50.0	ug/L
Anthracene	ND	50.0	ug/L
Fluoranthene	ND	50.0	ug/L
Pyrene	ND	50.0	ug/L
Chrysene	ND	50.0	ug/L
Benzo (a) anthracene	ND	50.0	ug/L
Benzo (b) fluoranthene	ND	50.0	ug/L
Benzo (k) fluoranthene	ND	50.0	ug/L
Benzo (a) pyrene	ND	50.0	ug/L
Dibenzo (a,h) anthracene	ND	50.0	ug/L
Benzo (g,h,i) perylene	ND	50.0	ug/L
Indeno (1,2,3-cd) pyrene	ND	50.0	ug/L
1-Methylnaphthalene	ND	100.0	ug/L
2-Methylnaphthalene	130	100.0	ug/L

SURROGATES	AMOUNT SPIKED	% RECOVERY	LOWER LIMIT	UPPER LIMIT
1-Fluoronaphthalene	0.20 ug/L	D	50	150
Phenanthrene d-10	0.20 ug/L	D	50	150

ANALYZED BY: KA DATE/TIME: 07/03/97 23:32:58
EXTRACTED BY: VM DATE/TIME: 06/22/97 13:00:00
METHOD: 8310 Polynuclear Aromatic Hydrocarbons
NOTES: * - Practical Quantitation Limit ND - Not Detected
 NA - Not Analyzed
 D - Diluted, control limits not applicable.

COMMENTS:

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

8880 INTERCHANGE DR.
HOUSTON, TX 77054
(713) 660-0901

500 AMBASSADOR CAFFERY PKWY.
SCOTT, LA 70583-8544
(318) 237-4SPL

459 HUGHES DRIVE
TRAVERSE CITY, MI 49684
(616) 947-5777

1511 E. ORANGETHORPE AVE.
FULLERTON, CA 92631
(714) 447-6868

**LABORATORIES** Certificate of Analysis No. H9-9706A11-02

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

P.O.#
5564
07/08/97

PROJECT: ~~Reid 16 Drip~~ (a)
SITE: Farmington, NM
SAMPLED BY: On Site Technologies
SAMPLE ID: McClanahan A2E MW 4
9706181500 (a)

PROJECT NO: PNM1002
MATRIX: WATER
DATE SAMPLED: 06/18/97 15:00:00
DATE RECEIVED: 06/20/97

ANALYTICAL DATA

PARAMETER	RESULTS	PQL*	UNITS
Naphthalene	2	0.5	ug/L
Acenaphthylene	ND	0.5	ug/L
Acenaphthene	ND	1.5	ug/L
Fluorene	ND	1.5	ug/L
Phenanthrene	ND	0.5	ug/L
Anthracene	ND	0.5	ug/L
Fluoranthene	ND	0.5	ug/L
Pyrene	ND	0.5	ug/L
Chrysene	ND	0.5	ug/L
Benzo (a) anthracene	ND	0.5	ug/L
Benzo (b) fluoranthene	ND	0.5	ug/L
Benzo (k) fluoranthene	ND	0.5	ug/L
Benzo (a) pyrene	ND	0.5	ug/L
Dibenzo (a,h) anthracene	ND	0.5	ug/L
Benzo (g,h,i) perylene	ND	0.5	ug/L
Indeno (1,2,3-cd) pyrene	ND	0.5	ug/L
1-Methylnaphthalene	ND	1.0	ug/L
2-Methylnaphthalene	ND	1.0	ug/L

SURROGATES	AMOUNT SPIKED	% RECOVERY	LOWER LIMIT	UPPER LIMIT
1-Fluoronaphthalene	0.20 ug/L	32 «	50	150
Phenanthrene d-10	0.20 ug/L	78	50	150

ANALYZED BY: KA DATE/TIME: 07/05/97 11:07:24
EXTRACTED BY: VM DATE/TIME: 06/22/97 13:00:00
METHOD: 8310 Polynuclear Aromatic Hydrocarbons
NOTES: * - Practical Quantitation Limit ND - Not Detected
 NA - Not Analyzed
 « - Recovery outside of control limits.

COMMENTS:

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

8880 INTERCHANGE DR.
HOUSTON, TX 77054
(713) 660-0901

500 AMBASSADOR CAFFERY PKWY.
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459 HUGHES DRIVE
TRAVERSE CITY, MI 49684
(616) 947-5777

1511 E. ORANGETHORPE AVE.
FULLERTON, CA 92631
(714) 447-6868

QUALITY CONTROL
DOCUMENTATION



** SPL BATCH QUALITY CONTROL REPORT **
Method 8310 ***

PAGE

LABORATORIES

Batch Id: 2970628111824

Units: ug/L

BLANK SPIKES

SPIKE COMPOUNDS	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	0.5	0.327	65.4	0.363	72.6	10.4	30	33 - 122
ACENAPHTHYLENE	ND	0.5	0.354	70.8	0.379	75.8	6.82	30	42 - 138
ACENAPHTHENE	ND	0.5	0.243	48.6	0.254	50.8	4.43	30	25 - 123
FLUORENE	ND	0.5	0.351	70.2	0.378	75.6	7.41	30	19 - 142
PHENANTHRENE	ND	0.5	0.289	57.8	0.325	65.0	11.7	30	40 - 121
ANTHRACENE	ND	0.5	0.246	49.2	0.275	55.0	11.1	30	32 - 121
FLUORANTHENE	ND	0.5	0.327	65.4	0.360	72.0	9.61	30	51 - 115
PYRENE	ND	0.5	0.385	77.0	0.394	78.8	2.31	30	45 - 117
CHRYSENE	ND	0.5	0.456	91.2	0.497	99.4	8.60	30	44 - 122
BENZO (A) ANTHRACENE	ND	0.5	0.320	64.0	0.343	68.6	6.94	30	57 - 118
BENZO (B) FLUORANTHENE	ND	0.5	0.353	70.6	0.387	77.4	9.19	30	62 - 121
BENZO (K) FLUORANTHENE	ND	0.5	0.376	75.2	0.407	81.4	7.92	30	63 - 117
BENZO (A) PYRENE	ND	0.5	0.312	62.4	0.258	51.6	18.9	30	42 - 120
DIBENZO (A,H) ANTHRACENE	ND	0.5	0.361	72.2	0.389	77.8	7.47	30	53 - 118
BENZO (G,H,I) PERYLENE	ND	0.5	0.328	65.6	0.355	71.0	7.91	30	51 - 116
INDENO (1,2,3-CD) PYRENE	ND	0.5	0.371	74.2	0.400	80.0	7.52	30	60 - 116

Analyst: KA

Sequence Date: 06/28/97

Method Blank File ID:

Sample File ID: *

Blank Spike File ID: 020-2001.D

Matrix Spike File ID:

Matrix Spike Duplicate File ID:

* = Values Outside QC Range. * = Data outside Method Specification limits.

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

ND = Not Detected/Below Detection Limit

% Recovery = [(<1> - <2>) / <3>] x 100

Relative Percent Difference = |(<4> - <5> | / [(<4> + <5>) x 0.5] x 100

(**) = Source: SPL Temporary Limits

SAMPLES IN BATCH(SPL ID):

9706918-07B 9706918-08B 9706921-01B 9706921-02B
9706921-04B 9706921-05B 9706934-01B 9706A11-01A
9706A07-03B 9706A07-04B 9706A07-05B 9706A11-02A
9706A07-01B 9706A07-02B 9706934-02B 9706918-02B
9706918-03B 9706918-01B 9706918-04B 9706918-05B
9706918-06B

CHAIN OF CUSTODY
AND
SAMPLE RECEIPT CHECKLIST

ON SITE

CHAIN OF CUSTODY RECORD

47006H11

6436

TECHNOLOGIES, LTD.

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

Date: 6/19/97

Page 1 of 1

Purchase Order No.: 5564		Job No. PNM1002	
Name ACCOUNTS REC.		Dept.	
Company		Address	
City, State, Zip		Telephone No. 505-325-2432	
SEND INVOICE TO		Title	
Name DAVID COX		Company ON SITE	
Mailing Address 612 E. MURRAY		City, State, Zip FARMINGTON, NM 87401	
City, State, Zip		Telephone No. 505-325-2432	
Telefax No. 325-6252		ANALYSIS REQUESTED	
Sampling Location: McCLANAHAN A2E		Number of Containers	
Sampler: MS/MS		LAB ID	
SAMPLE IDENTIFICATION		DATE TIME MATRIX PRES.	
McCLANAHAN A2E 9706181400 MW2 6/18/97 1400 H2O car 1		15011-5564	
McCLANAHAN A2E 9706181500 MW4 6/18/97 1500 1 1		15013-5564	
Relinquished by: Jack		Received by: Alvaro Salas	
Date/Time 6/19/97 1535		Date/Time 4/30/97 1100	
Relinquished by:		Received by:	
Date/Time		Date/Time	
Relinquished by:		Received by:	
Date/Time		Date/Time	
Method of Shipment:		Rush	
Authorized by: Jack		24-48 Hours	
(Client Signature Must Accompany Request)		10 Working Days	
Date 6/19/97		Special Instructions:	

Distribution: White - On Site

Yellow - Lab

Pink - Sampler

Goldenrod - Client

WPS 12665 0110002843

SPL Houston Environmental Laboratory

Sample Login Checklist

Date: 6/20/97	Time: 1100
---------------	------------

SPL Sample ID: A706A11

		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:	4° C	
10	Method of sample delivery to SPL:	SPL Delivery	
		Client Delivery	
		FedEx Delivery (airbill #)	
		Other: UPS #1Z66E58501 10002843	
11	Method of sample disposal:	SPL Disposal	✓
		HOLD	
		Return to Client	

Name: Alene Salas	Date: 6/20/97
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TECHNOLOGIES, LTD.

ON SITE

Distribution: White – On Site	Yellow – LAB	Pink – Sampler	Goldenrod – Client
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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: *1-Oct-97*
COC No.: *5842*
Sample No.: *16367*
Job No.: *2-1000*

Project Name: *PNM Gas Services - McClanahan A2E*
Project Location: *9709250930; MW-1*
Sampled by: *MS/MG* Date: *25-Sep-97* Time: *9:30*
Analyzed by: *DC* Date: *30-Sep-97*
Sample Matrix: *Liquid*

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Benzene</i>	ND	ug/L	0.2	ug/L
<i>Toluene</i>	ND	ug/L	0.2	ug/L
<i>Ethylbenzene</i>	ND	ug/L	0.2	ug/L
<i>m,p-Xylene</i>	ND	ug/L	0.2	ug/L
<i>o-Xylene</i>	ND	ug/L	0.2	ug/L
<i>TOTAL</i>	ND	ug/L		

ND - Not Detected at Limit of Quantitation

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

Approved By: *[Signature]*
Date: *10/1/97*

P.O. BOX 2606 • FARMINGTON, NM 87499

PROVIDING THE OIL & GAS INDUSTRY WITH THE BEST SERVICE

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: *1-Oct-97*
COC No.: *5842*
Sample No.: *16368*
Job No.: *2-1000*

Project Name: *PNM Gas Services - McClanahan A2E*
Project Location: *9709251000; MW-2*
Sampled by: *MS/MG* Date: *25-Sep-97* Time: *10:00*
Analyzed by: *DC* Date: *30-Sep-97*
Sample Matrix: *Liquid*

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Benzene</i>	<i>2706</i>	<i>ug/L</i>	<i>4</i>	<i>ug/L</i>
<i>Toluene</i>	<i>12</i>	<i>ug/L</i>	<i>4</i>	<i>ug/L</i>
<i>Ethylbenzene</i>	<i>661</i>	<i>ug/L</i>	<i>4</i>	<i>ug/L</i>
<i>m,p-Xylene</i>	<i>76</i>	<i>ug/L</i>	<i>4</i>	<i>ug/L</i>
<i>o-Xylene</i>	<i>4</i>	<i>ug/L</i>	<i>4</i>	<i>ug/L</i>
<i>TOTAL</i>	<i>3459</i>	<i>ug/L</i>		

ND - Not Detected at Limit of Quantitation

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

Approved By: *DAF*
Date: *10/1/97*

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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: *1-Oct-97*
COC No.: *5842*
Sample No.: *16369*
Job No.: *2-1000*

Project Name: *PNM Gas Services - McClanahan A2E*
Project Location: *9709251030; MW-3*
Sampled by: *MS/MG* Date: *25-Sep-97* Time: *10:30*
Analyzed by: *DC* Date: *30-Sep-97*
Sample Matrix: *Liquid*

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Benzene</i>	ND	ug/L	0.2	ug/L
<i>Toluene</i>	ND	ug/L	0.2	ug/L
<i>Ethylbenzene</i>	ND	ug/L	0.2	ug/L
<i>m,p-Xylene</i>	ND	ug/L	0.2	ug/L
<i>o-Xylene</i>	ND	ug/L	0.2	ug/L
<i>TOTAL</i>	ND	ug/L		

ND - Not Detected at Limit of Quantitation

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

Approved By: *[Signature]*
Date: *10/1/97*

P.O. BOX 2606 • FARMINGTON, NM 87499

- SERVING THE BLENDING INDUSTRY WITH THE ENVIRONMENT -

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: *1-Oct-97*
COC No.: *5842*
Sample No.: *16370*
Job No.: *2-1000*

Project Name: *PNM Gas Services - McClanahan A2E*
Project Location: *9709251100; MW-4*
Sampled by: *MS/MG* Date: *25-Sep-97* Time: *11:00*
Analyzed by: *DC* Date: *30-Sep-97*
Sample Matrix: *Liquid*

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Benzene</i>	<i>127.7</i>	<i>ug/L</i>	<i>0.2</i>	<i>ug/L</i>
<i>Toluene</i>	<i>0.6</i>	<i>ug/L</i>	<i>0.2</i>	<i>ug/L</i>
<i>Ethylbenzene</i>	<i>88.1</i>	<i>ug/L</i>	<i>0.2</i>	<i>ug/L</i>
<i>m,p-Xylene</i>	<i>178.4</i>	<i>ug/L</i>	<i>0.2</i>	<i>ug/L</i>
<i>o-Xylene</i>	<i>0.8</i>	<i>ug/L</i>	<i>0.2</i>	<i>ug/L</i>
<i>TOTAL</i>	<i>395.5</i>	<i>ug/L</i>		

ND - Not Detected at Limit of Quantitation

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

Approved By: *DC*
Date: *10/1/97*

P.O. BOX 2606 • FARMINGTON, NM 87499

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: *1-Oct-97*
COC No.: *5842*
Sample No.: *16371*
Job No.: *2-1000*

Project Name: *PNM Gas Services - McClanahan A2E*
Project Location: *9709251130; MW-5*
Sampled by: *MS/MG* Date: *25-Sep-97* Time: *11:30*
Analyzed by: *DC* Date: *30-Sep-97*
Sample Matrix: *Liquid*

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Benzene</i>	ND	ug/L	0.2	ug/L
<i>Toluene</i>	ND	ug/L	0.2	ug/L
<i>Ethylbenzene</i>	ND	ug/L	0.2	ug/L
<i>m,p-Xylene</i>	ND	ug/L	0.2	ug/L
<i>o-Xylene</i>	ND	ug/L	0.2	ug/L
<i>TOTAL</i>	ND	ug/L		

ND - Not Detected at Limit of Quantitation

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

Approved By: *[Signature]*
Date: *10/1/97*

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667



LAB: (505) 325-1556

QUALITY ASSURANCE REPORT

for EPA Method 8020

Date Analyzed: 30-Sep-97

Internal QC No.: 0527-STD

Surrogate QC No.: 0528-STD

Reference Standard QC No.: 0529/30-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	RPD	Limit
Benzene	ppb	20.0	18.9	6	15%
Toluene	ppb	20.0	20.1	0	15%
Ethylbenzene	ppb	20.0	20.1	0	15%
m,p-Xylene	ppb	40.0	39.1	2	15%
o-Xylene	ppb	20.0	20.2	1	15%

Matrix Spike

Parameter	1 - Percent Recovered	2 - Percent Recovered	Limit	RPD	Limit
Benzene	97	92	(39-150)	4	20%
Toluene	101	97	(46-148)	3	20%
Ethylbenzene	99	96	(32-160)	3	20%
m,p-Xylene	100	95	(35-145)	3	20%
o-Xylene	98	95	(35-145)	3	20%

Surrogate Recoveries

Laboratory Identification	S1 Percent Recovered	S2 Percent Recovered	Laboratory Identification	S1 Percent Recovered	S2 Percent Recovered
Limit Percent Recovered	(70-130)		Limit Percent Recovered	(70-130)	
16367-5842	96				
16368-5842	93				
16369-5842	95				
16370-5842	96				
16371-5842	95				
				218 10/10/97	(100) 10/1/97

S1: Fluorobenzene

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- TECHNOLOGICAL BLENDING INDUSTRY WITH THE ENVIRONMENT



CHAIN OF CUSTODY RECORD

842

Page 1 of 1

Date: 9/25/97

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

Purchase Order No.:		Job No.		Name: Maureen Gannon		Title:	
SEND INVOICE TO		Name: Denver Bearden		Company: PNM Gas Services			
		Company: PNM Gas Services		Mailing Address: Alverado Square, Mail Stop 0408			
		Address: 603 W. Elm Street		City, State, Zip: Albuquerque, NM 87158			
		City, State, Zip: Farmington, NM 87401		Telephone No.: 505-848-2974		Telefax No.:	
Sampling Location: Mcclanahan A2E				ANALYSIS REQUESTED			
Sampler: M.S. M.G.							
SAMPLE IDENTIFICATION		SAMPLE DATE		MATRIX		PRES.	
9709250720 ug MW-1		9/25		H2O		HCL	
9709250720 ug MW-2		9/25		↓		↓	
9709250720 ug MW-3		9/25		↓		↓	
9709251100 MW-4		9/25		↓		↓	
9709251130 MW-5		9/25		↓		↓	
Relinquished by: [Signature]				Date/Time: 9-26-97 1410		Received by: [Signature]	
Relinquished by:				Date/Time:		Date/Time:	
Relinquished by:				Date/Time:		Date/Time:	
Method of Shipment:				Rush		24-48 Hours	
Authorized by: [Signature]				Date: 9/26/97		10 Working Days	
						Special Instructions: Results to be sent to both parties.	

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: *30-Dec-97*
COC No.: *7146*
Sample No.: *17160*
Job No.: *2-1000*

Project Name: *PNM Gas Services - McClanahan A-2E*

Project Location: *9712171137; MW-1*

Sampled by: *RD* Date: *17-Dec-97* Time: *11:37*

Analyzed by: *DC* Date: *25-Dec-97*

Sample Matrix: *Liquid*

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Benzene</i>	<i>0.4</i>	<i>ug/L</i>	<i>0.2</i>	<i>ug/L</i>
<i>Toluene</i>	<i>0.5</i>	<i>ug/L</i>	<i>0.2</i>	<i>ug/L</i>
<i>Ethylbenzene</i>	<i>ND</i>	<i>ug/L</i>	<i>0.2</i>	<i>ug/L</i>
<i>m,p-Xylene</i>	<i>ND</i>	<i>ug/L</i>	<i>0.2</i>	<i>ug/L</i>
<i>o-Xylene</i>	<i>ND</i>	<i>ug/L</i>	<i>0.2</i>	<i>ug/L</i>
<i>TOTAL</i>	<i>0.8</i>	<i>ug/L</i>		

ND - Not Detected at Limit of Quantitation

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

Approved By: *[Signature]*
Date: *12/30/97*

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

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: *30-Dec-97*
COC No.: *7146*
Sample No.: *17161*
Job No.: *2-1000*

Project Name: *PNM Gas Services - McClanahan A-2E*
Project Location: *9712171019; MW-2*
Sampled by: *RD* Date: *17-Dec-97* Time: *10:19*
Analyzed by: *DC* Date: *25-Dec-97*
Sample Matrix: *Liquid*

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Benzene</i>	<i>2752</i>	<i>ug/L</i>	<i>4</i>	<i>ug/L</i>
<i>Toluene</i>	<i>12</i>	<i>ug/L</i>	<i>4</i>	<i>ug/L</i>
<i>Ethylbenzene</i>	<i>779</i>	<i>ug/L</i>	<i>4</i>	<i>ug/L</i>
<i>m,p-Xylene</i>	<i>69</i>	<i>ug/L</i>	<i>4</i>	<i>ug/L</i>
<i>o-Xylene</i>	<i>4</i>	<i>ug/L</i>	<i>4</i>	<i>ug/L</i>
<i>TOTAL</i>	<i>3617</i>	<i>ug/L</i>		

ND - Not Detected at Limit of Quantitation

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

Approved By: *[Signature]*
Date: *12/30/97*

P.O. BOX 2606 • FARMINGTON, NM 87499

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: *30-Dec-97*
COC No.: *7146*
Sample No.: *17162*
Job No.: *2-1000*

Project Name: *PNM Gas Services - McClanahan A-2E*

Project Location: *9712171118; MW-3*

Sampled by: *RD* Date: *17-Dec-97* Time: *11:18*

Analyzed by: *DC* Date: *25-Dec-97*

Sample Matrix: *Liquid*

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Benzene</i>	ND	ug/L	0.2	ug/L
<i>Toluene</i>	ND	ug/L	0.2	ug/L
<i>Ethylbenzene</i>	ND	ug/L	0.2	ug/L
<i>m,p-Xylene</i>	ND	ug/L	0.2	ug/L
<i>o-Xylene</i>	ND	ug/L	0.2	ug/L
<i>TOTAL</i>	ND	ug/L		

ND - Not Detected at Limit of Quantitation

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

Approved By: *[Signature]*
Date: *12/30/97*

P.O. BOX 2606 • FARMINGTON, NM 87499

- TRADITIONALLY BLENDING INDUSTRY WITH THE ENVIRONMENT

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: *30-Dec-97*
COC No.: *7146*
Sample No.: *17163*
Job No.: *2-1000*

Project Name: *PNM Gas Services - McClanahan A-2E*

Project Location: *9712171200; MW-4*

Sampled by: *RD* Date: *17-Dec-97* Time: *12:00*

Analyzed by: *DC* Date: *25-Dec-97*

Sample Matrix: *Liquid*

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Benzene</i>	<i>81.4</i>	<i>ug/L</i>	<i>0.2</i>	<i>ug/L</i>
<i>Toluene</i>	<i>0.6</i>	<i>ug/L</i>	<i>0.2</i>	<i>ug/L</i>
<i>Ethylbenzene</i>	<i>135.1</i>	<i>ug/L</i>	<i>0.2</i>	<i>ug/L</i>
<i>m,p-Xylene</i>	<i>151.6</i>	<i>ug/L</i>	<i>0.2</i>	<i>ug/L</i>
<i>o-Xylene</i>	<i>1.4</i>	<i>ug/L</i>	<i>0.2</i>	<i>ug/L</i>
<i>TOTAL</i>	<i>370.1</i>	<i>ug/L</i>		

ND - Not Detected at Limit of Quantitation

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

Approved By: *Tag*
Date: *12/30/97*

P.O. BOX 2606 • FARMINGTON, NM 87499

TECHNOLOGY & ENVIRONMENTAL SERVICES, INC.

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: *30-Dec-97*
COC No.: *7146*
Sample No.: *17164*
Job No.: *2-1000*

Project Name: *PNM Gas Services - McClanahan A-2E*

Project Location: *9712171220; MW-5*

Sampled by: *RD* Date: *17-Dec-97* Time: *12:20*

Analyzed by: *DC* Date: *25-Dec-97*

Sample Matrix: *Liquid*

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Benzene</i>	ND	ug/L	0.2	ug/L
<i>Toluene</i>	ND	ug/L	0.2	ug/L
<i>Ethylbenzene</i>	ND	ug/L	0.2	ug/L
<i>m,p-Xylene</i>	ND	ug/L	0.2	ug/L
<i>o-Xylene</i>	ND	ug/L	0.2	ug/L
<i>TOTAL</i>	ND	ug/L		

ND - Not Detected at Limit of Quantitation

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

Approved By: *[Signature]*
Date: *12/30/97*

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNICAL BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667



LAB: (505) 325-1556

QUALITY ASSURANCE REPORT

for EPA Method 8020

Date Analyzed: 25-Dec-97

Internal QC No.: 0559-STD

Surrogate QC No.: 0567-STD

Reference Standard QC No.: 0529/30-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	RPD	Limit
Benzene	ppb	20.0	19.3	4	15%
Toluene	ppb	20.0	19.7	1	15%
Ethylbenzene	ppb	20.0	19.9	1	15%
m,p-Xylene	ppb	40.0	38.2	5	15%
o-Xylene	ppb	20.0	19.6	2	15%

Matrix Spike

Parameter	1 - Percent Recovered	2 - Percent Recovered	Limit	RPD	Limit
Benzene	77	91	(39-150)	3	20%
Toluene	94	97	(46-148)	3	20%
Ethylbenzene	87	93	(32-160)	3	20%
m,p-Xylene	91	94	(35-145)	3	20%
o-Xylene	92	95	(35-145)	3	20%

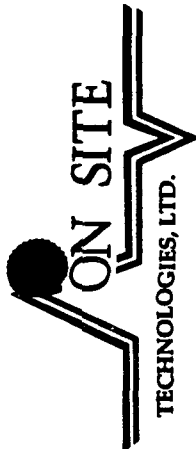
Surrogate Recoveries

Laboratory Identification	S1 Percent Recovered	S2 Percent Recovered	Laboratory Identification	S1 Percent Recovered	S2 Percent Recovered
Limit Percent Recovered	(70-130)		Limit Percent Recovered	(70-130)	
17160-7146	94				
17161-7146	93				
17162-7146	94				
17163-7146	92				
17164-7146	94				
				241C 12/31/97	(m) 12/30/97

S1: Fluorobenzene

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -



CHAIN OF CUSTODY RECORD

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

Purchase Order No.:		Job No.	
Name: Denver Bearden		Name: Maureen Gannon	
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:		Telephone No.: 505-848-2974	
Telefax No.:		Telefax No.:	
SEND INVOICE TO		RESULTS TO	
McClanahan A-2E		Containers	
Sampler: R. Dedrick		Number of	
SAMPLE IDENTIFICATION		LAB ID	
DATE	TIME	MATRIX	PRES.
9712171137	1137	H ₂ O	HCl
9712171219	1219	H ₂ O	HCl
9712171118	1118	H ₂ O	HCl
9712171200	1200	H ₂ O	HCl
9712171220	1220	H ₂ O	HCl
Relinquished by: Ronald A. Dedrick		Received by: [Signature]	
Date/Time: 12/18/97 0953		Date/Time: 12/18/97 0953	
Relinquished by:		Received by:	
Date/Time:		Date/Time:	
Relinquished by:		Received by:	
Date/Time:		Date/Time:	
Method of Shipment:		10 Working Days	
Authorized by: Ronald A. Dedrick		Special Instructions:	
Date: 12-18-97		Results to be sent to both parties.	
(Client Signature Must Accompany Request)			

ON SITE

OFF: (505) 325-5667

LAB: (505) 325-1556

TECHNOLOGIES, LTD.

March 25, 1998

Maureen Gannon
PNM - Public Service Company of NM
Alvarado Square Mail Stop 0408
Albuquerque, NM 87158
TEL: (505) 241-2974
FAX (505) 241-2340

RE: McClanahan A-2E

Order No.: 9803033

Dear Maureen Gannon,

On Site Technologies, LTD. received 5 samples on 3/10/98 for the analyses presented in the following report.

The Samples were analyzed for the following tests:

BTEX (SW8020A)

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,



David Cox

ON SITE

OFF: (505) 325-5667

LAB: (505) 325-1556

TECHNOLOGIES, LTD.

Date: 25-Mar-98

CLIENT: PNM - Public Service Company of NM
Project: McClanahan A-2E
Lab Order: 9803033

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.

ON SITE

OFF: (505) 325-5667

LAB: (505) 325-1556

TECHNOLOGIES, LTD.

ANALYTICAL REPORT

Date: 25-Mar-98

Client:	PNM - Public Service Company of NM	Client Sample Info:	McClanahan A-2E
Work Order:	9803033	Client Sample ID:	9803101140; MW-1
Lab ID:	9803033-01A	Matrix:	AQUEOUS
Project:	McClanahan A-2E	Collection Date:	3/10/98 11:40:00 AM
		COC#:	7185

Parameter	Result	Limit	Qual	Units	DF	Date Analyzed
BTEX		SW8020A		Analyst: DC		
Benzene	ND	0.5		µg/L	1	3/19/98
Toluene	ND	0.5		µg/L	1	3/19/98
Ethylbenzene	ND	0.5		µg/L	1	3/19/98
m,p-Xylene	ND	1		µg/L	1	3/19/98
o-Xylene	ND	0.5		µg/L	1	3/19/98
Surr: Fluorobenzene	92.4	70-130		%REC	1	3/19/98
Surr: 1,4-Difluorobenzene	92.9	70-130		%REC	1	3/19/98
Surr: 4-Bromochlorobenzene	89.6	70-130		%REC	1	3/19/98

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

ON SITE

OFF: (505) 325-5667

LAB: (505) 325-1556

TECHNOLOGIES, LTD.

ANALYTICAL REPORT

Date: 25-Mar-98

Client:	PNM - Public Service Company of NM	Client Sample Info:	McClanahan A-2E
Work Order:	9803033	Client Sample ID:	9803101200; MW-2
Lab ID:	9803033-02A	Matrix:	AQUEOUS
Project:	McClanahan A-2E	Collection Date:	3/10/98 12:00:00 PM
		COC#:	7185

Parameter	Result	Limit	Qual	Units	DF	Date Analyzed
BTEX		SW8020A				Analyst: DC
Benzene	2400	10		µg/L	20	3/18/98
Toluene	ND	10		µg/L	20	3/18/98
Ethylbenzene	900	10		µg/L	20	3/18/98
m,p-Xylene	53	20		µg/L	20	3/18/98
o-Xylene	12	10		µg/L	20	3/18/98
Surr: Fluorobenzene	91.9	70-130		%REC	20	3/18/98
Surr: 1,4-Difluorobenzene	91.9	70-130		%REC	20	3/18/98
Surr: 4-Bromochlorobenzene	90.3	70-130		%REC	20	3/18/98

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

ON SITE

OFF: (505) 325-5667

LAB: (505) 325-1556

TECHNOLOGIES, LTD.

ANALYTICAL REPORT

Date: 25-Mar-98

Client:	PNM - Public Service Company of NM	Client Sample Info:	McClanahan A-2E
Work Order:	9803033	Client Sample ID:	9803101215; MW-3
Lab ID:	9803033-03A	Matrix:	AQUEOUS
Project:	McClanahan A-2E	Collection Date:	3/10/98 12:15:00 PM
		COC#:	7185

Parameter	Result	Limit	Qual	Units	DF	Date Analyzed
BTEX		SW8020A		Analyst: DC		
Benzene	ND	0.5		µg/L	1	3/18/98
Toluene	ND	0.5		µg/L	1	3/18/98
Ethylbenzene	ND	0.5		µg/L	1	3/18/98
m,p-Xylene	ND	1		µg/L	1	3/18/98
o-Xylene	ND	0.5		µg/L	1	3/18/98
Surr: Fluorobenzene	92.5	70-130		%REC	1	3/18/98
Surr: 1,4-Difluorobenzene	93.3	70-130		%REC	1	3/18/98
Surr: 4-Bromochlorobenzene	89.6	70-130		%REC	1	3/18/98

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

1 of 1

ON SITE

OFF: (505) 325-5667

LAB: (505) 325-1556

TECHNOLOGIES, LTD.

ANALYTICAL REPORT

Date: 25-Mar-98

Client:	PNM - Public Service Company of NM	Client Sample Info:	McClanahan A-2E
Work Order:	9803033	Client Sample ID:	9803101230; MW-4
Lab ID:	9803033-04A	Matrix:	AQUEOUS
Project:	McClanahan A-2E	Collection Date:	3/10/98 12:30:00 PM
		COC#:	7185

Parameter	Result	Limit	Qual	Units	DF	Date Analyzed
BTEX		SW8020A				Analyst: DC
Benzene	5.3	0.5		µg/L	1	3/18/98
Toluene	ND	0.5		µg/L	1	3/18/98
Ethylbenzene	71	0.5		µg/L	1	3/18/98
m,p-Xylene	52	1		µg/L	1	3/18/98
o-Xylene	ND	0.5		µg/L	1	3/18/98
Surr: Fluorobenzene	94.4	70-130		%REC	1	3/18/98
Surr: 1,4-Difluorobenzene	94.7	70-130		%REC	1	3/18/98
Surr: 4-Bromochlorobenzene	92.1	70-130		%REC	1	3/18/98

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

1 of 1

ON SITE

OFF: (505) 325-5667

LAB: (505) 325-1556

TECHNOLOGIES, LTD.

ANALYTICAL REPORT

Date: 25-Mar-98

Client:	PNM - Public Service Company of NM	Client Sample Info:	McClanahan A-2E
Work Order:	9803033	Client Sample ID:	9803101245; MW-5
Lab ID:	9803033-05A	Matrix:	AQUEOUS
		Collection Date:	3/10/98 12:45:00 PM
Project:	McClanahan A-2E	COC#:	7185

Parameter	Result	Limit	Qual	Units	DF	Date Analyzed
BTEX		SW8020A		Analyst: DC		
Benzene	5.6	0.5		µg/L	1	3/18/98
Toluene	ND	0.5		µg/L	1	3/18/98
Ethylbenzene	78	0.5		µg/L	1	3/18/98
m,p-Xylene	52	1		µg/L	1	3/18/98
o-Xylene	ND	0.5		µg/L	1	3/18/98
Surr: Fluorobenzene	94.0	70-130		%REC	1	3/18/98
Surr: 1,4-Difluorobenzene	94.8	70-130		%REC	1	3/18/98
Surr: 4-Bromochlorobenzene	92.2	70-130		%REC	1	3/18/98

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

On Site Technologies, LTD.

Date: 25-Mar-98

CLIENT: PNM - Public Service Company of NM
Work Order: 9803033
Project: McClanahan A-2E

QC SUMMARY REPORT

Method Blank

Sample ID: MB1	Batch ID: GC-1_980318	Test Code: SW8020A	Units: µg/L	Analysis Date: 3/18/98				Prep Date:			
Client ID:	9803033	Run ID: GC-1_980318A		SeqNo: 67							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	.0822	0.5									J
Ethylbenzene	.1129	0.5									J
m,p-Xylene	.3057	1									J
o-Xylene	.1097	0.5									J
Toluene	.1684	0.5									J

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 25-Mar-98

CLIENT: PNM - Public Service Company of NM
Work Order: 9803033
Project: McClanahan A-2E

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: 9803032-04AMS		Batch ID: GC-1_980318		Test Code: SW8020A		Units: µg/L		Analysis Date: 3/18/98		Prep Date:	
Client ID:		9803033		Run ID:		GC-1_980318A		SeqNo: 68			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	940.2	10	800	99.31	105.1%	56	128				
Ethylbenzene	923	10	800	97.04	103.2%	78	107				
m,p-Xylene	2384	20	1600	756.9	101.7%	67	118				
o-Xylene	956.3	10	800	127.2	103.6%	78	107				
Toluene	935.7	10	800	109	103.3%	74	116				

Sample ID: 9803032-04AMSD		Batch ID: GC-1_980318		Test Code: SW8020A		Units: µg/L		Analysis Date: 3/18/98		Prep Date:	
Client ID:		9803033		Run ID:		GC-1_980318A		SeqNo: 69			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	904.3	10	800	99.31	100.6%	56	128	940.2	3.9%	15	
Ethylbenzene	890.2	10	800	97.04	99.1%	78	107	923	3.6%	15	
m,p-Xylene	2301	20	1600	756.9	96.5%	67	118	2384	3.6%	15	
o-Xylene	925.2	10	800	127.2	99.7%	78	107	956.3	3.3%	15	
Toluene	903.1	10	800	109	99.3%	74	116	935.7	3.6%	15	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 25-Mar-98

CLIENT: PNM - Public Service Company of NM
 Work Order: 9803033
 Project: McClanahan A-2E

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: LCS WATER		Batch ID: GC-1_980318	Test Code: SW8020A	Units: µg/L	Analysis Date: 3/18/98		Prep Date:	
Client ID: 9803033		Run ID: GC-1_980318A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit
Analyte	Result							
Benzene	42.86		0.5	40	0.0822	107.0%	39	150
Ethylbenzene	43.87		0.5	40	0.1129	109.4%	32	160
m,p-Xylene	83.96		1	80	0.3057	104.6%	35	145
o-Xylene	42.89		0.5	40	0.1097	107.0%	35	145
Toluene	42.54		0.5	40	0.1684	105.9%	46	148

Qualifiers:

ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 25-Mar-98

CLIENT: PNM - Public Service Company of NM

Work Order: 9803033

Project: McClanahan A-2E

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID:	CCV1	QC0529/30	Batch ID:	GC-1_980318	Test Code:	SW8020A	Units:	µg/L	Analysis Date:	3/18/98	Prep Date:
Client ID:	9803033		Run ID:	GC-1_980318A					SeqNo:	63	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	21.39	0.5	20	0	106.9%	85	115				
Ethylbenzene	22.04	0.5	20	0	110.2%	85	115				
m,p-Xylene	41.93	1	40	0	104.8%	85	115				
o-Xylene	21.58	0.5	20	0	107.9%	85	115				
Toluene	21.22	0.5	20	0	106.1%	85	115				
1,4-Difluorobenzene	93.58	0	100	0	93.6%	70	130				
4-Bromochlorobenzene	90.62	0	100	0	90.6%	70	130				
Fluorobenzene	92.53	0	100	0	92.5%	70	130				

Sample ID:	CCV2	QC0529/30	Batch ID:	GC-1_980318	Test Code:	SW8020A	Units:	µg/L	Analysis Date:	3/18/98	Prep Date:
Client ID:	9803033		Run ID:	GC-1_980318A					SeqNo:	64	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	21.34	0.5	20	0	106.7%	85	115				
Ethylbenzene	21.91	0.5	20	0	109.6%	85	115				
m,p-Xylene	41.5	1	40	0	103.8%	85	115				
o-Xylene	21.36	0.5	20	0	106.8%	85	115				
Toluene	21.11	0.5	20	0	105.6%	85	115				
1,4-Difluorobenzene	93.14	0	100	0	93.1%	70	130				
4-Bromochlorobenzene	90.04	0	100	0	90.0%	70	130				
Fluorobenzene	92.38	0	100	0	92.4%	70	130				

Qualifiers:

NID - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: PNM - Public Service Company of NM
Work Order: 9803033
Project: McClanahan A-2E

QC SUMMARY REPORT
Continuing Calibration Verification Standard

Sample ID: CCV3 QC0529/30		Batch ID: GC-1_980318		Test Code: SW8020A		Units: µg/L		Analysis Date: 3/18/98		Prep Date:	
Client ID: 9803033		Run ID: GC-1_980318A						SeqNo: 65			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.7	0.5	20	0	103.5%	85	115				
Ethylbenzene	21.21	0.5	20	0	106.1%	85	115				
m,p-Xylene	40.18	1	40	0	100.4%	85	115				
o-Xylene	20.82	0.5	20	0	104.1%	85	115				
Toluene	20.52	0.5	20	0	102.6%	85	115				
1,4-Difluorobenzene	93.39	0	100	0	93.4%	70	130				
4-Bromochlorobenzene	88.96	0	100	0	89.0%	70	130				
Fluorobenzene	92.26	0	100	0	92.3%	70	130				

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 25-Mar-98

CLIENT: PNM - Public Service Company of NM
Work Order: 9803033
Project: McClanahan A-2E

QC SUMMARY REPORT

Method Blank

Sample ID: MB1	Batch ID: GC-1_980319	Test Code: SW8020A	Units: µg/L	Analysis Date: 3/19/98	Prep Date:
Client ID: 9803033	Run ID: GC-1_980319A			SeqNo: 93	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Benzene	.1309	0.5			J
Ethylbenzene	.1039	0.5			J
m,p-Xylene	.2979	1			J
o-Xylene	.1068	0.5			J
Toluene	.1636	0.5			J

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 25-Mar-98

CLIENT: PNM - Public Service Company of NM
 Work Order: 9803033
 Project: McClanahan A-2E

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: 9803032-06AMS		Batch ID: GC-1_980319		Test Code: SW8020A		Units: µg/L		Analysis Date: 3/19/98		Prep Date:	
Client ID: 9803033		Run ID: 9803033		GC-1_980319A				SeqNo: 94			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	942.9	10	800	105.3	104.7%	56	128				
Ethylbenzene	921.7	10	800	92.88	103.6%	78	107				
m,p-Xylene	2403	20	1600	765.4	102.4%	67	118				
o-Xylene	957.2	10	800	124	104.2%	78	107				
Toluene	937.4	10	800	108.7	103.6%	74	116				

Sample ID: 9803032-06AMSD		Batch ID: GC-1_980319		Test Code: SW8020A		Units: µg/L		Analysis Date: 3/19/98			Prep Date:	
Client ID:		9803033		Run ID:		GC-1_980319A		SeqNo: 95				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Benzene	891.1	10	800	105.3	98.2%	56	128	942.9	5.6%	15		
Ethylbenzene	893.1	10	800	92.88	100.0%	78	107	921.7	3.2%	15		
m,p-Xylene	2296	20	1600	765.4	95.7%	67	118	2403	4.6%	15		
o-Xylene	907.8	10	800	124	98.0%	78	107	957.2	5.3%	15		
Toluene	886.7	10	800	108.7	97.2%	74	116	937.4	5.6%	15		

Qualifiers:

ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 25-Mar-98

CLIENT: PNM - Public Service Company of NM

Work Order: 9803033

Project: McClanahan A-2E

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: LCS WATER		Batch ID: GC-1_980319	Test Code: SW8020A	Units: µg/L	Analysis Date: 3/19/98			Prep Date:			
Client ID:		9803033	Run ID: GC-1_980319A			SeqNo: 92					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	41.51	0.5	40	0.1309	103.4%	39	150				
Ethylbenzene	42.39	0.5	40	0.1039	105.7%	32	160				
m,p-Xylene	80.93	1	80	0.2979	100.8%	35	145				
o-Xylene	41.37	0.5	40	0.1068	103.2%	35	145				
Toluene	41.16	0.5	40	0.1636	102.5%	46	148				

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 25-Mar-98

CLIENT: PNM - Public Service Company of NM

Work Order: 9803033

Project: McClanahan A-2E

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV1 QC0529/30		Batch ID: GC-1_980319	Test Code: SW8020A	Units: µg/L	Analysis Date: 3/19/98		Prep Date:				
Client ID:	Run ID:	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte	Result										
Benzene	20.65	0.5	20	0	103.3%	85	115				
Ethylbenzene	20.65	0.5	20	0	103.2%	85	115				
m,p-Xylene	39.56	1	40	0	98.9%	85	115				
o-Xylene	20.62	0.5	20	0	103.1%	85	115				
Toluene	20.4	0.5	20	0	102.0%	85	115				
1,4-Difluorobenzene	93.88	0	100	0	93.9%	70	130				
4-Bromochlorobenzene	90.08	0	100	0	90.1%	70	130				
Fluorobenzene	92.88	0	100	0	92.9%	70	130				

Sample ID: CCV2 QC0529/30		Batch ID: GC-1_980319	Test Code: SW8020A	Units: µg/L	Analysis Date: 3/19/98		Prep Date:			
Client ID: 9803033		Run ID: GC-1_980319A	PQL	SPK value	SPK Ref Val	%REC	SeqNo: 88	%RPD	RPDLimit	Qual
Analyte	Result						LowLimit	HighLimit	RPD Ref Val	
Benzene	21.63		0.5	20	0	108.2%	85	115		
Ethylbenzene	22.12		0.5	20	0	110.6%	85	115		
m,p-Xylene	41.81		1	40	0	104.5%	85	115		
o-Xylene	21.67		0.5	20	0	108.3%	85	115		
Toluene	21.33		0.5	20	0	106.6%	85	115		
1,4-Difluorobenzene	94.01		0	100	0	94.0%	70	130		
4-Bromochlorobenzene	91.89		0	100	0	91.9%	70	130		
Fluorobenzene	92.94		0	100	0	92.9%	70	130		

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: PNM - Public Service Company of NM
Work Order: 9803033
Project: McClanahan A-2E

QC SUMMARY REPORT
 Continuing Calibration Verification Standard

Sample ID: CCV3 QC0529/30		Batch ID: GC-1_980319	Test Code: SW8020A	Units: µg/L		Analysis Date: 3/19/98		Prep Date:	
Client ID: 9803033		Run ID: GC-1_980319A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	SeqNo: 89
Analyte	Result								
Benzene	20.44		0.5	20	0	102.2%	85	115	
Ethylbenzene	20.82		0.5	20	0	104.1%	85	115	
m,p-Xylene	39.42		1	40	0	98.6%	85	115	
o-Xylene	20.48		0.5	20	0	102.4%	85	115	
Toluene	20.22		0.5	20	0	101.1%	85	115	
1,4-Difluorobenzene	93.73		0	100	0	93.7%	70	130	
4-Bromochlorobenzene	89.69		0	100	0	89.7%	70	130	
Fluorobenzene	92.81		0	100	0	92.8%	70	130	

Sample ID: CCV4 QC0529/30		Batch ID: GC-1_980319	Test Code: SW8020A	Units: µg/L		Analysis Date: 3/19/98		Prep Date:	
Client ID: 9803033		Run ID: GC-1_980319A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	SeqNo: 90
Analyte	Result								
Benzene	20.52		0.5	20	0	102.6%	85	115	
Ethylbenzene	23.27		0.5	20	0	116.4%	85	115	
m,p-Xylene	42.37		1	40	0	105.9%	85	115	
o-Xylene	22.3		0.5	20	0	111.5%	85	115	
Toluene	20.38		0.5	20	0	101.9%	85	115	
1,4-Difluorobenzene	93.65		0	100	0	93.7%	70	130	
4-Bromochlorobenzene	90.57		0	100	0	90.6%	70	130	
Fluorobenzene	92.76		0	100	0	92.8%	70	130	

S ✓ 100
 COR 100%
 W/ 100%
 3/19/98

CLIENT: PNM - Public Service Company of NM

Work Order: 9803033

Project: McClanahan A-2E

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV5 QC0529/30		Batch ID: GC-1_980319		Test Code: SW8020A		Units: µg/L		Analysis Date: 3/19/98		Prep Date:	
Client ID:		9803033		Run ID: GC-1_980319A				SeqNo: 91			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	21.33	0.5	20	0	106.6%	85	115				
Ethylbenzene	21.29	0.5	20	0	106.5%	85	115				
m,p-Xylene	40.57	1	40	0	101.4%	85	115				
o-Xylene	21.49	0.5	20	0	107.4%	85	115				
Toluene	21.12	0.5	20	0	105.6%	85	115				
1,4-Difluorobenzene	93.61	0	100	0	93.6%	70	130				
4-Bromochlorobenzene	87.33	0	100	0	87.3%	70	130				
Fluorobenzene	92.92	0	100	0	92.9%	70	130				

Qualifiers:

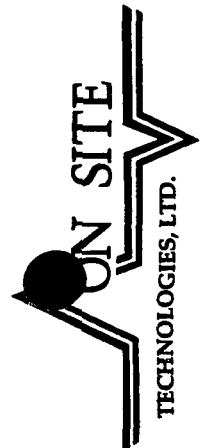
ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank



CHAIN OF CUSTODY RECORD

7945

Page: 1 of 1

Date: 4/14/93

612 E. Murphy Dr. • 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	
Telephone No.:		Telephone No.:	
Telefax No.:		Telefax No.:	
Sampling Location:		ANALYSIS REQUESTED	
Sample: <i>17503101140</i>		Containers	
Sampler: <i>Qadrick</i>		LAB ID	
SAMPLE IDENTIFICATION			
DATE	TIME	MATRIX	PRES.
4/14/93	14:00	17503101140	17503101140
4/14/93	14:02	17503101200	17503101200
4/14/93	14:03	17503101215	17503101215
4/14/93	14:04	17503101230	17503101230
4/14/93	14:05	17503101245	17503101245
Relinquished by: <i>Stanley W. Bearden</i>		Received by: <i>11</i>	
Date/Time		Date/Time	
Relinquished by:		Received by:	
Date/Time		Date/Time	
Relinquished by:		Received by:	
Date/Time		Date/Time	
Method of Shipment:		Rush	
		24-48 Hours	
		10 Working Days	
		Special Instructions:	
Authorized by: <i>Stanley W. Bearden</i>		Results to be sent to both parties.	
Date: <i>4/14/93</i>			
(Client Signature Must Accompany Request)			

Distribution: White - On Site Yellow - LAB Pink - Sampler Goldenrod - Client