

3R - 318

REPORTS

DATE:

1999

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

RECEIVED

April 5, 1999

APR 07 1999

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

ENVIRONMENTAL BUREAU
OIL CONSERVATION DIVISION



RE: 1999 SAN JUAN BASIN ANNUAL GROUNDWATER REPORT

Dear Bill:

PNM is pleased to submit the 1999 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.

Blanco Wash Drip	Mangum 1E
Davis 1	McClanahan 22
Dogie East Pit	McClanahan A 2E
Dogie North Pit	McCoy Gas Com A1
Florance 124	Miles Federal 1E Drip
Florance 32A	O' Shea 1M
Florance 40	Patterson A Com A1
Florance 44	Pritchard 2
Florance M 47X	Randleman 1
Hampton 4M	Reid 16 Drip
Honolulu Drip	Turner 1A
Ice Canyon Drip	Wilmerding 1M
Jacques 2A	Zachry 18E
Jicarilla Contract 147-6	
Linda 1A	

Consistent with PNM's San Juan Basin Groundwater Management Plan, PNM will request closure of four of the above sites, the Florance 32A, Jacques 2A, Mangum 1E and the McClanahan A2E, with the submittal of the 1st Quarter 1999 Pit Closures Report. This request is based upon the analytical data collected over the last two years at each of the sites. BTEX concentrations have been consistently below WQCC standards for four consecutive quarters.

Upon approval of the groundwater closure report, PNM will plug and abandon all of the groundwater monitoring wells at each of the locations. The concrete pad and metal vault surrounding each well will be removed. The well casing will be cut to ground surface and each well will be plugged to the surface

Bill Olson
04/05/99
Page 2

with cement containing 5% bentonite. If you have any questions regarding the contents of the report, please contact me at (505) 241-2974.

Sincerely,

A handwritten signature in cursive script, appearing to read "Maureen Gannon", with a long horizontal flourish extending to the right.

Maureen Gannon
Project Manager

Enclosure

cc: Colin Adams, Esq.
Ingrid Deklau, WFS
Denny Foust, OCD-Aztec Office
Ron Johnson
Mark Sikelianos
Bill VonDrehle, WFS



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APR 07 1999

ENVIRONMENTAL BUREAU
OIL CONSERVATION DIVISION

Annual

Groundwater Report

1999

Volume II

***Unlined Surface Impoundments
San Juan Basin***



Groundwater Site Summary Report

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

Quarter/Year: 2nd/98, 3rd/98, 4th/98 & 1st/99

Operator: Amoco
Sec: 27 Twn: 29N Rng: 9 W Unit: M
Canyon: Largo

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

Topo Map: previously submitted

Well Completion Diagram: previously submitted

Site Map with Groundwater Analysis: Figure 1

Groundwater Contour Map: Figure 2a (April 1998), Figure 2b (July 1998), Figure 2c (November 1998) and Figure 2d (February 1999)

Hydrograph: Figure 3

Full Suite- Groundwater Sampling: previously submitted

Analytical Results: attached

Site Hydrology:

The Florance 124 site lies in the alluvial valley floor of Largo Canyon, about three miles from its mouth with the San Juan River. The valley floor is more than one-half mile wide near the site, and Largo Canyon flows northwest towards the San Juan. The site lies at about 5607 feet above mean sea level, and lies on the north side of the wash. Materials beneath the site are sands, varying in size from coarse to fine. Some silt was encountered, but little clay.

Groundwater is shallow at the site, and has ranged from 10 to 11 feet below land surface. The flow direction is predominantly westward (Figure(s) 2a, 2b, & 2c). Water level measurements taken during the November 1999, sampling event were misplaced, therefore a groundwater contour map is not available for this quarter. This pattern is consistent with the hydrologic setting, and perpendicular to the axis of flow in Largo Canyon. The observed groundwater gradients are typically low, on the order of 0.001. Hydrographs show seasonal fluctuations of about one-half foot.

Activities for Previous Year:

On April 28, July 31, November 4, 1998 and on January 21, 1999, PNM performed quarterly sampling of groundwater monitoring wells at the site. PNM measured water levels and conducted groundwater sampling in wells for chemical analyses of benzene, toluene, ethylbenzene, and xylenes (BTEX). Sampling was performed in strict compliance with EPA protocol. In all instances, PNM delivered the samples to OnSite Technologies, Farmington, New Mexico. The samples were analyzed using EPA Method 8020 for BTEX.

On March 2, 1999, PNM performed secondary soil remediation west of the former dehydrator pit (Figure 1). Approximately 660 cubic yard of contaminated soil were removed from the excavation and landfarmed on location.

Results:

Figure 1 provides a site map showing benzene, toluene, ethylbenzene and xylenes (BTEX) and a sample portion of total dissolved solids (TDS) analytical data for each monitoring well since groundwater contamination was discovered.

MW-1, -3 & -4 show BTEX levels below laboratory detection limits for at least four consecutive quarters. In MW-2, the source well, benzene concentrations have fluctuated for the past year between 1 and 37 ppb. All other BTEX parameters are below WQCC standards.

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

Further Action:

PNM will continue to monitor the groundwater gradient and perform quarterly groundwater sampling at the Florance 124 to determine the effectiveness of the secondary remediation.

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.
Florance 124: Site Map with Analytical Results
(concentrations in ppb)

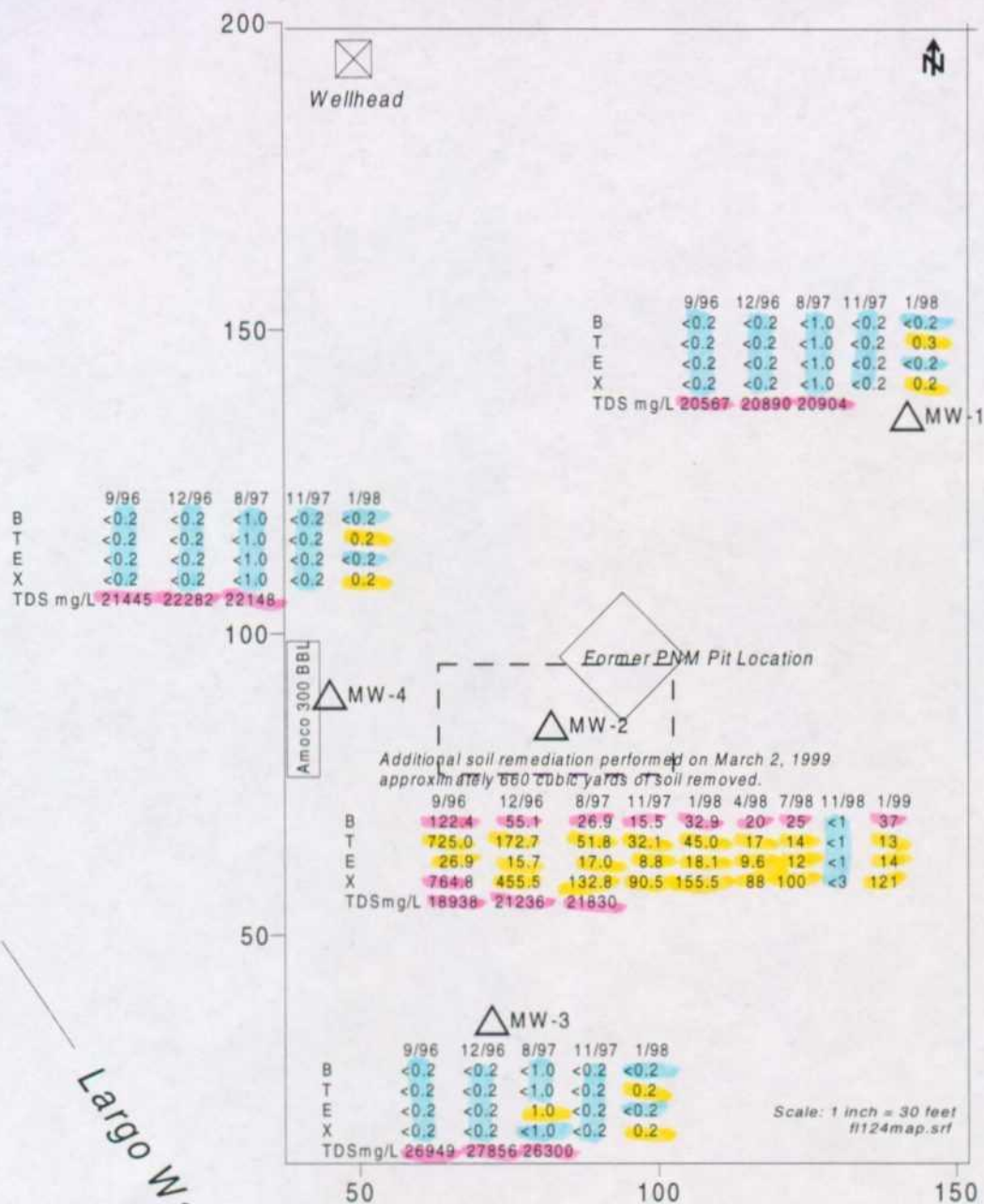
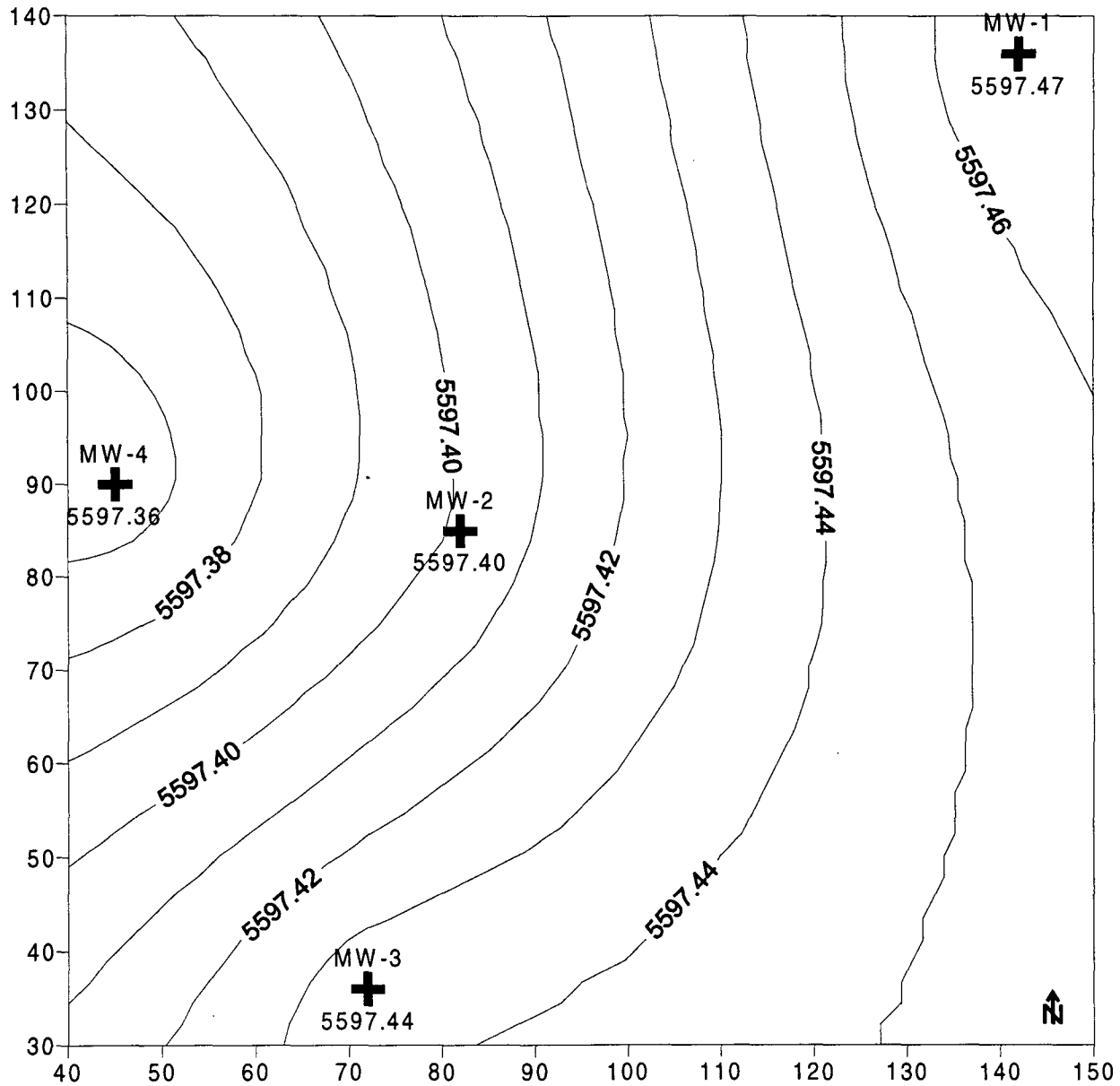


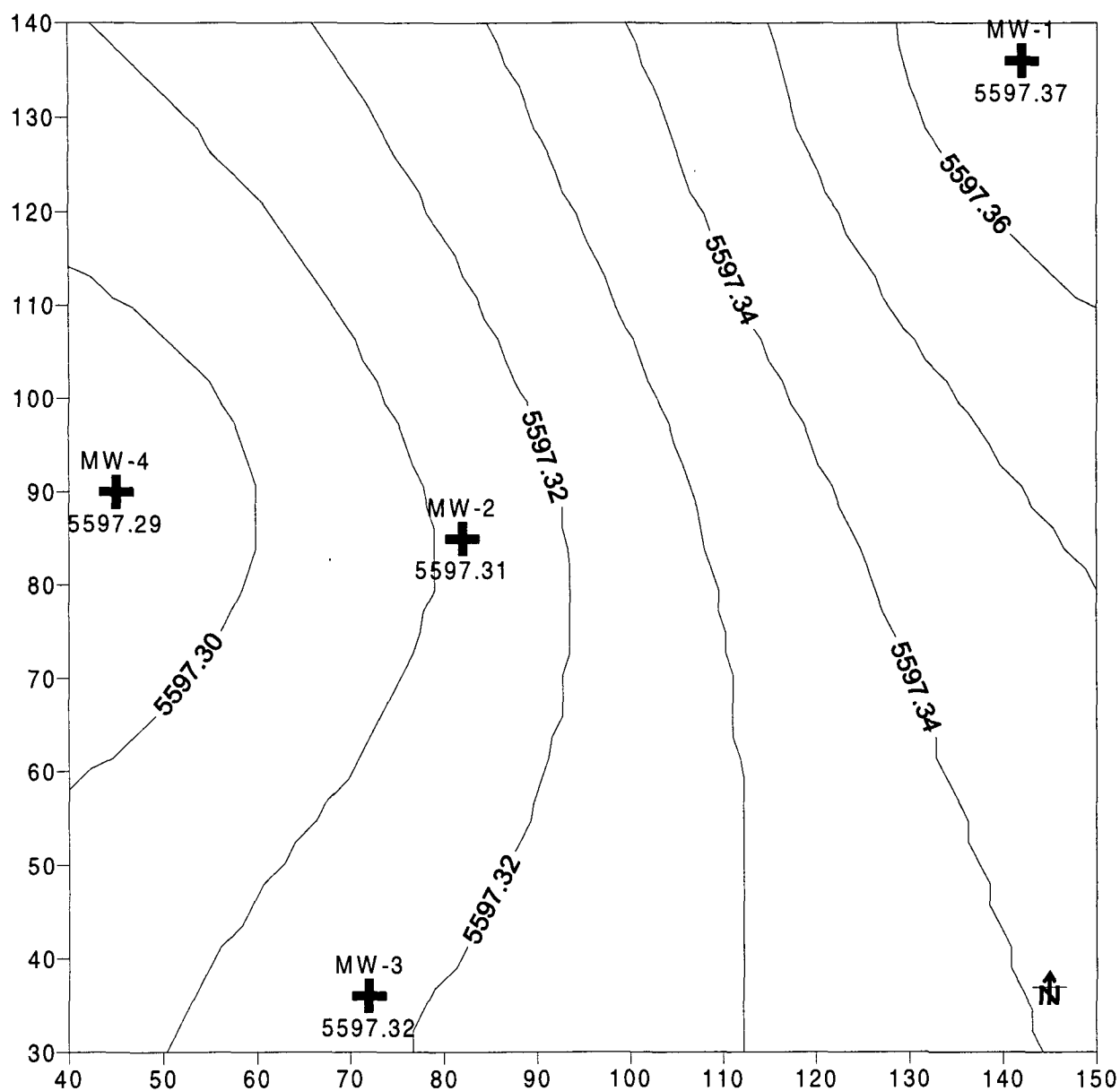
Figure 2a.
Florance 124 Groundwater Contour Map
(April 28, 1998)



surfer/flo124/f12442898.srf

SCALE IN FEET
(X-axis = Easting, Y-axis = Northing)

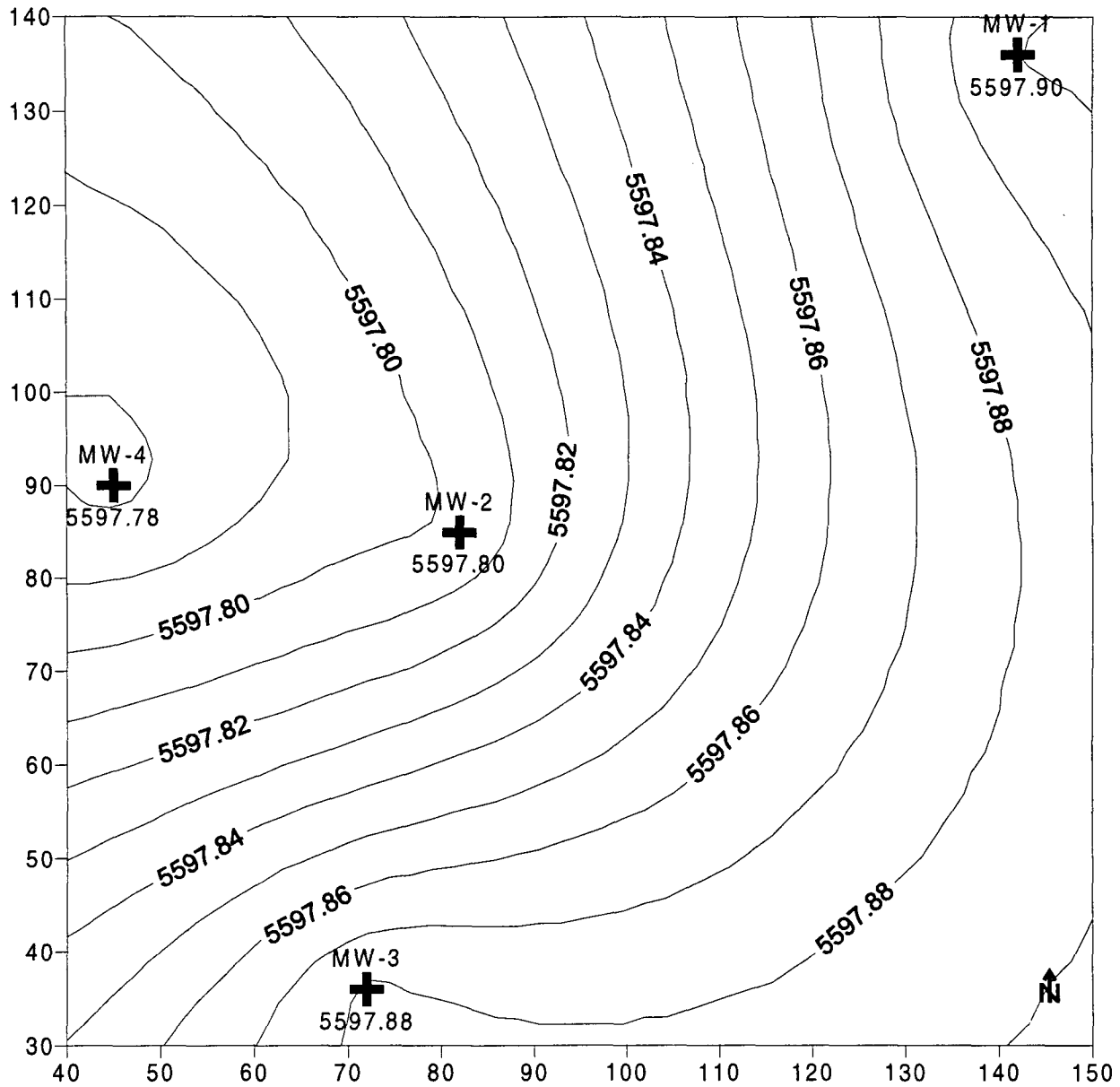
Figure 2b.
Florance 124 Groundwater Contour Map
(July 31, 1998)



surfer/flo124/f12473198.srf

SCALE IN FEET
(X-axis = Easting, Y-axis = Northing)

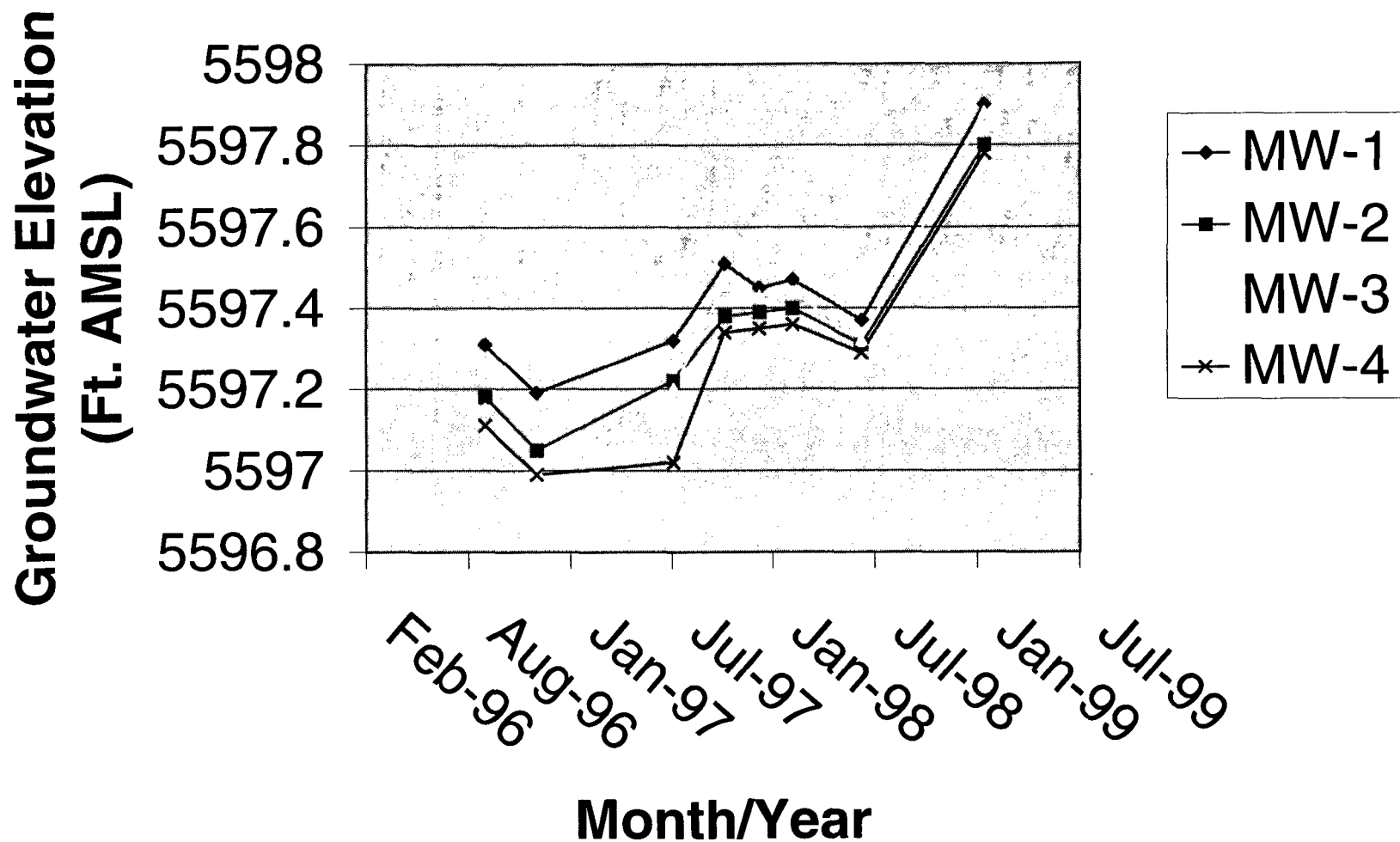
Figure 2c.
Florance 124 Groundwater Contour Map
(February 11, 1999)



surfer/flo124/f112421199.srf

SCALE IN FEET
(X-axis = Easting, Y-axis = Northing)

Figure 3. Florance 124 Hydrograph



OFF: (505) 325-5667

ON SITE
TECHNOLOGIES, LTD.

LAB: (505) 325-1556

May 11, 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

2nd Quarter 98

RE: Florance 124

Order No.: 9804053

Dear Maureen Gannon,

On Site Technologies, LTD. received 1 sample on 4/29/98 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

OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 11-May-98

CLIENT: PNM - Public Service Company of NM
Project: Florance 124
Lab Order: 9804053

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.

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 11-May-98

Client:	PNM - Public Service Company of NM	Client Sample Info:	Florance 124
Work Order:	9804053	Client Sample ID:	9804281200; MW-2
Lab ID:	9804053-01A	Matrix:	AQUEOUS
Project:	Florance 124	Collection Date:	4/28/98 12:00:00 PM
		COC Record:	7248

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
BTEX		SW8020A				Analyst: DC
Benzene	20	0.5		µg/L	1	5/7/98
Toluene	17	0.5		µg/L	1	5/7/98
Ethylbenzene	9.6	0.5		µg/L	1	5/7/98
m,p-Xylene	66	1		µg/L	1	5/7/98
o-Xylene	22	0.5		µg/L	1	5/7/98

Qualifiers:

PQL - Practical Quantitation Limit

S - Spike Recovery outside accepted recovery limits

ND - Not Detected at Practical Quantitation Limit

R - RPD outside accepted recovery limits

J - Analyte detected below Practical Quantitation Limit

E - Value above quantitation range

B - Analyte detected in the associated Method Blank

Surr: - Surrogate

1 of 1

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT

On Site Technologies, LTD.

Date: 11-May-98

CLIENT: PNM - Public Service Company of NM

Work Order: 9804053

Project: Florance 124

QC SUMMARY REPORT

Method Blank

Sample ID: MB1	Batch ID: GC-1_980507	Test Code: SW8020A	Units: µg/L	Analysis Date 5/7/98				Prep Date:			
Client ID:	9804053	Run ID:	GC-1_980507A	SeqNo: 1678							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	.0604	0.5									J
Ethylbenzene	.0824	0.5									J
m,p-Xylene	.2996	1									J
Methyl tert-Butyl Ether	.0751	1									J
o-Xylene	.1208	0.5									J
Toluene	.173	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: 11-May-98

CLIENT: PNM - Public Service Company of NM

Work Order: 9804053

Project: Florance 124

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: 9804054-01AMS		Batch ID: GC-1_980507		Test Code: SW8020A		Units: µg/L		Analysis Date 5/7/98		Prep Date:	
Client ID:		9804053		Run ID: GC-1_980507A				SeqNo: 1679			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	8323	50	4000	3999	108.1%	56	128				
Ethylbenzene	5411	50	4000	995.8	110.4%	78	107				S
m,p-Xylene	28750	100	8000	14760	174.9%	67	118				S
Methyl tert-Butyl Ether	3732	100	4000	18.23	92.9%	70	130				S
o-Xylene	9129	50	4000	3818	132.8%	78	107				S
Toluene	18610	50	4000	12990	140.7%	74	116				S

CONFIRMED
LCS
5/11/98
JRS

Sample ID: 9804054-01AMSD		Batch ID: GC-1_980507		Test Code: SW8020A		Units: µg/L		Analysis Date 5/7/98			Prep Date:	
Client ID:		9804053		Run ID: GC-1_980507A				SeqNo: 1680				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Benzene	7975	50	4000	3999	99.4%	56	128	8323	4.3%	12		
Ethylbenzene	5198	50	4000	995.8	105.1%	78	107	5411	4.0%	11		
m,p-Xylene	27560	100	8000	14760	160.1%	67	118	28750	4.2%	10	S	
Methyl tert-Butyl Ether	3664	100	4000	18.23	91.1%	70	130	3732	1.9%	15		
o-Xylene	8811	50	4000	3818	124.8%	78	107	9129	3.5%	14	S	
Toluene	17820	50	4000	12990	120.7%	74	116	18610	4.4%	14	S	

CONFIRMED
LCS
5/11/98
JRS

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: 11-May-98

CLIENT: PNM - Public Service Company of NM

Work Order: 9804053

Project: Florance 124

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: LCS WATER	Batch ID: GC-1_980507	Test Code: SW8020A	Units: µg/L			Analysis Date 5/7/98			Prep Date:		
Client ID:	9804053	Run ID:	GC-1_980507A			SeqNo:	1677				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	42.28	0.5	40	0.0604	105.6%	56	128				
Ethylbenzene	42.69	0.5	40	0.0824	106.5%	78	107				
m,p-Xylene	82.27	1	80	0.2996	102.5%	67	118				
Methyl tert-Butyl Ether	38.02	1	40	0.0751	94.9%	70	130				
o-Xylene	42.5	0.5	40	0.1208	105.9%	78	107				
Toluene	42.21	0.5	40	0.173	105.1%	74	116				

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: 11-May-98

CLIENT: PNM - Public Service Company of NM

Work Order: 9804053

Project: Florance 124

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV1 QC0529/30	Batch ID: GC-1_980507	Test Code: SW8020A	Units: µg/L			Analysis Date 5/7/98			Prep Date:		
Client ID:	9804053	Run ID:	GC-1_980507A			SeqNo:	1672				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	21.26	0.5	20	0	106.3%	85	115				
Ethylbenzene	21.65	0.5	20	0	108.3%	85	115				
m,p-Xylene	41.55	1	40	0	103.9%	85	115				
Methyl tert-Butyl Ether	19.41	1	20	0	97.0%	85	115				
o-Xylene	21.46	0.5	20	0	107.3%	85	115				
Toluene	21.37	0.5	20	0	106.8%	85	115				
1,4-Difluorobenzene	92.8	0	100	0	92.8%	70	130				
4-Bromochlorobenzene	89.27	0	100	0	89.3%	70	130				
Fluorobenzene	92.92	0	100	0	92.9%	70	130				

Sample ID: CCV2 QC0529/30	Batch ID: GC-1_980507	Test Code: SW8020A	Units: µg/L			Analysis Date 5/7/98			Prep Date:		
Client ID:	9804053	Run ID:	GC-1_980507A			SeqNo:	1673				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.82	0.5	20	0	104.1%	85	115				
Ethylbenzene	21.2	0.5	20	0	106.0%	85	115				
m,p-Xylene	40.61	1	40	0	101.5%	85	115				
Methyl tert-Butyl Ether	18.49	1	20	0	92.4%	85	115				
o-Xylene	21.2	0.5	20	0	106.0%	85	115				
Toluene	20.97	0.5	20	0	104.9%	85	115				
1,4-Difluorobenzene	92.53	0	100	0	92.5%	70	130				
4-Bromochlorobenzene	90.18	0	100	0	90.2%	70	130				
Fluorobenzene	92.97	0	100	0	93.0%	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: 9804053
Project: Florance 124

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV3 QC0529/30		Batch ID: GC-1_980507		Test Code: SW8020A		Units: µg/L		Analysis Date 5/7/98		Prep Date:	
Client ID: 9804053		Run ID: GC-1_980507A				SeqNo: 1674					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	21.24	0.5	20	0	106.2%	85	115				
Ethylbenzene	21.5	0.5	20	0	107.5%	85	115				
m,p-Xylene	41.01	1	40	0	102.5%	85	115				
Methyl tert-Butyl Ether	17.96	1	20	0	89.8%	85	115				
o-Xylene	22.72	0.5	20	0	113.6%	85	115				
Toluene	21.47	0.5	20	0	107.3%	85	115				
1,4-Difluorobenzene	92.47	0	100	0	92.5%	70	130				
4-Bromochlorobenzene	88.18	0	100	0	88.2%	70	130				
Fluorobenzene	92.84	0	100	0	92.8%	70	130				

Sample ID: CCV4 QC0529/30		Batch ID: GC-1_980507		Test Code: SW8020A		Units: µg/L		Analysis Date 5/7/98		Prep Date:	
Client ID:		9804053		Run ID: GC-1_980507A		SeqNo: 1675					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.82	0.5	20	0	104.1%	85	115				
Ethylbenzene	21.86	0.5	20	0	109.3%	85	115				
m,p-Xylene	41.02	1	40	0	102.6%	85	115				
Methyl tert-Butyl Ether	18.32	1	20	0	91.6%	85	115				
o-Xylene	21.68	0.5	20	0	108.4%	85	115				
Toluene	21.03	0.5	20	0	105.1%	85	115				
1,4-Difluorobenzene	92.66	0	100	0	92.7%	70	130				
4-Bromochlorobenzene	88.98	0	100	0	89.0%	70	130				
Fluorobenzene	92.65	0	100	0	92.6%	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: 9804053
Project: Florance 124

QC SUMMARY REPORT
Continuing Calibration Verification Standard

Sample ID: CCV5 QC0529/30	Batch ID: GC-1_980507	Test Code: SW8020A	Units: µg/L	Analysis Date 5/7/98				Prep Date:			
Client ID:	9804053	Run ID:	GC-1_980507A		SeqNo:		1676				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.54	0.5	20	0	102.7%	85	115				
Ethylbenzene	20.93	0.5	20	0	104.6%	85	115				
m,p-Xylene	40.5	1	40	0	101.2%	85	115				
Methyl tert-Butyl Ether	17.55	1	20	0	87.8%	85	115				
o-Xylene	20.6	0.5	20	0	103.0%	85	115				
Toluene	21.34	0.5	20	0	106.7%	85	115				
1,4-Difluorobenzene	91.93	0	100	0	91.9%	70	130				
4-Bromochlorobenzene	88.69	0	100	0	88.7%	70	130				
Fluorobenzene	92.03	0	100	0	92.0%	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: 9804053
Project: Florance 124
Test No: SW8020A

QC SUMMARY REPORT SURROGATE RECOVERIES

BTEX

Sample ID	14FBZ	4BCBZ	FLBZ				
9804051-01A	89.6	85	90.3				
9804051-02A	89.5	84.7	89.6				
9804052-01A	90.3	88	91.7				
9804053-01A	78	80	80.4				
9804054-01A	91.5	89.1	92.8				
9804054-01AMS	91.5	91.3	93.3				
9804054-01AMSD	90	89.2	91.1				
9804055-01A	81.8	77.1	87.9				
9804055-02A	85.9	83.4	88.5				
9804056-01A	85.8	85.3	86.6				
9804057-01A	93.4	88.7	93.7				
9804057-02A	90.2	88.6	91.3				
9804057-03A	91.2	88.6	91.7				
9805003-01A	93.1	88.8	93.5				
9805003-02A	90.7	88.8	91.6				
CCV1 QC0529/30	92.8	89.3	92.9				
CCV2 QC0529/30	92.5	90.2	93				
CCV3 QC0529/30	92.5	88.2	92.8				
CCV4 QC0529/30	92.7	89	92.6				
CCV5 QC0529/30	91.9	88.7	92				
LCS WATER	92.5	89.2	92.5				
MB1	93.1	86.4	93.6				

Acronym	Surrogate	QC Limits
14FBZ	= 1,4-Difluorobenzene	70-130
4BCBZ	= 4-Bromochlorobenzene	70-130
FLBZ	= Fluorobenzene	70-130

* Surrogate recovery outside acceptance limits



CHAIN OF CUSTODY RECORD

Date: 4/29/98

Page: 1 of 1

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

Purchase Order No.:		Job No.		REPORT RESULTS TO	Name Maureen Gannon		Title					
SEND INVOICE TO	Name Denver Bearden				Company PNM Gas Services							
	Company PNM Gas Services		Dept. 324-3763		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: Florange 124				Number of Containers	ANALYSIS REQUESTED							
Sampler: M.S.					8/16/98							
SAMPLE IDENTIFICATION		SAMPLE							MATRIX		PRES.	
		DATE	TIME									
9804231200 MW-2									A20 HCL		2	
Relinquished by: <i>[Signature]</i>		Date/Time 4/29/98 1345		Received by: <i>[Signature]</i>		Date/Time 4/29/98 1345						
Relinquished by:		Date/Time		Received by:		Date/Time						
Relinquished by:		Date/Time		Received by:		Date/Time						
Method of Shipment: Hand Delivered				Rush		24-48 Hours						
Authorized by: <i>[Signature]</i> Date 4/29/98						10 Working Days						
(Client Signature Must Accompany Request)						Special Instructions:						
						Results to be sent to both parties.						

OFF: (505) 325-5667



LAB: (505) 325-1556

August 04, 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

3rd Quarter 98

RE: Florance 124

Order No.: 9808001

Dear Maureen Gannon,

On Site Technologies, LTD. received 2 samples on 7/31/98 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,

A handwritten signature in dark ink, appearing to read "D Cox", written in a cursive style.

David Cox

OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 04-Aug-98

CLIENT: PNM - Public Service Company of NM
Project: Florance 124
Lab Order: 9808001

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.

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 05-Aug-98

Client:	PNM - Public Service Company of NM	Client Sample Info:	Florance 124
Work Order:	9808001	Client Sample ID:	9807311200; MW-2
Lab ID:	9808001-01A	Matrix:	SOIL
Project:	Florance 124	Collection Date:	7/31/98 12:00:00 PM
		COC Record:	7282

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
BTEX		SW8020A				Analyst: HR
Benzene	25	0.5		µg/L	1	8/4/98
Toluene	14	0.5		µg/L	1	8/4/98
Ethylbenzene	12	0.5		µg/L	1	8/4/98
m,p-Xylene	79	1		µg/L	1	8/4/98
o-Xylene	21	0.5		µg/L	1	8/4/98

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

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 05-Aug-98

Client: PNM - Public Service Company of NM
Work Order: 9808001
Lab ID: 9808001-02A **Matrix:** SOIL
Project: Florance 124

Client Sample Info: Florance 124
Client Sample ID: 9807311215; MW-5
Collection Date: 7/31/98 12:15:00 PM
COC Record: 7282

*Duplicate
of
MW-2*

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
BTEX		SW8020A				Analyst: HR
Benzene	26	0.5		µg/L	1	8/4/98
Toluene	13	0.5		µg/L	1	8/4/98
Ethylbenzene	11	0.5		µg/L	1	8/4/98
m,p-Xylene	68	1		µg/L	1	8/4/98
o-Xylene	19	0.5		µg/L	1	8/4/98

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

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

On Site Technologies, LTD.

Date: 04-Aug-98

CLIENT: PNM - Public Service Company of NM

Work Order: 9808001

Project: Florance 124

QC SUMMARY REPORT

Method Blank

Sample ID: MB1	Batch ID: GC-1_980803	Test Code: SW8020A	Units: µg/L	Analysis Date 8/3/98				Prep Date:			
Client ID:	9808001	Run ID:	GC-1_980803A	SeqNo: 5288							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	.1526	0.5									J
Ethylbenzene	ND	0.5									
m,p-Xylene	ND	1									
Methyl tert-Butyl Ether	ND	1									
o-Xylene	ND	0.5									
Toluene	.0977	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: 04-Aug-98

CLIENT: PNM - Public Service Company of NM

Work Order: 9808001

Project: Florance 124

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: 9807072-03AMS	Batch ID: GC-1_980803	Test Code: SW8020A	Units: µg/L	Analysis Date: 8/3/98	Prep Date:						
Client ID:	9808001	Run ID: GC-1_980803A		SeqNo: 5289							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	888.6	10	800	247.5	80.1%	56	128				
Ethylbenzene	730.2	10	800	11.4	89.9%	78	107				
m,p-Xylene	1430	20	1600	70.46	85.0%	67	118				
Methyl tert-Butyl Ether	579.6	20	800	25.16	69.3%	70	130				S
o-Xylene	691.1	10	800	1.312	86.2%	78	107				
Toluene	707.4	10	800	2.416	88.1%	74	116				
Sample ID: 9807072-03AMSD	Batch ID: GC-1_980803	Test Code: SW8020A	Units: µg/L	Analysis Date: 8/3/98	Prep Date:						
Client ID:	9808001	Run ID: GC-1_980803A		SeqNo: 5290							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	890.3	10	800	247.5	80.3%	56	128	888.6	0.2%	12	
Ethylbenzene	729.1	10	800	11.4	89.7%	78	107	730.2	0.2%	11	
m,p-Xylene	1428	20	1600	70.46	84.8%	67	118	1430	0.1%	10	
Methyl tert-Butyl Ether	566.2	20	800	25.16	67.6%	70	130	579.6	2.3%	15	S
o-Xylene	695.9	10	800	1.312	86.8%	78	107	691.1	0.7%	14	
Toluene	705.4	10	800	2.416	87.9%	74	116	707.4	0.3%	14	

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: 04-Aug-98

CLIENT: PNM - Public Service Company of NM

Work Order: 9808001

Project: Florance 124

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: LCS WATER	Batch ID: GC-1_980803	Test Code: SW8020A	Units: µg/L			Analysis Date 8/3/98			Prep Date:		
Client ID:	9808001	Run ID:	GC-1_980803A			SeqNo:	5287				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	36.2	0.5	40	0.1526	90.1%	56	128				
Ethylbenzene	38.02	0.5	40	0	95.1%	78	107				
m,p-Xylene	71.84	1	80	0	89.8%	67	118				
Methyl tert-Butyl Ether	42.38	1	40	0	106.0%	70	130				
o-Xylene	37.09	0.5	40	0	92.7%	78	107				
Toluene	36.51	0.5	40	0.0977	91.0%	74	116				

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: 04-Aug-98

CLIENT: PNM - Public Service Company of NM

Work Order: 9808001

Project: Florance 124

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV1 QC0606/07	Batch ID: GC-1_980803	Test Code: SW8020A	Units: µg/L	Analysis Date 8/3/98				Prep Date:			
Client ID:	9808001	Run ID:	GC-1_980803A	SeqNo: 5284							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	19.35	0.5	20	0	96.7%	85	115				
Ethylbenzene	19.84	0.5	20	0	99.2%	85	115				
m,p-Xylene	37.76	1	40	0	94.4%	85	115				
Methyl tert-Butyl Ether	21.85	1	20	0	109.2%	85	115				
o-Xylene	19.76	0.5	20	0	98.8%	85	115				
Toluene	19.52	0.5	20	0	97.6%	85	115				
1,4-Difluorobenzene	86.68	0	100	0	86.7%	70	130				
4-Bromochlorobenzene	91.93	0	100	0	91.9%	70	130				
Fluorobenzene	82.78	0	100	0	82.8%	70	130				

Sample ID: CCV2 QC0606/07	Batch ID: GC-1_980803	Test Code: SW8020A	Units: µg/L	Analysis Date 8/3/98				Prep Date:			
Client ID:	9808001	Run ID:	GC-1_980803A	SeqNo: 5285							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	18.03	0.5	20	0	90.1%	85	115				
Ethylbenzene	18.58	0.5	20	0	92.9%	85	115				
m,p-Xylene	35.3	1	40	0	88.3%	85	115				
Methyl tert-Butyl Ether	20.05	1	20	0	100.3%	85	115				
o-Xylene	18.44	0.5	20	0	92.2%	85	115				
Toluene	18.33	0.5	20	0	91.7%	85	115				
1,4-Difluorobenzene	86.42	0	100	0	86.4%	70	130				
4-Bromochlorobenzene	87.34	0	100	0	87.3%	70	130				
Fluorobenzene	82.48	0	100	0	82.5%	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: 9808001
Project: Florance 124

QC SUMMARY REPORT
Continuing Calibration Verification Standard

Sample ID: CCV3 QC0606/07		Batch ID: GC-1_980803		Test Code: SW8020A		Units: µg/L		Analysis Date 8/3/98		Prep Date:	
Client ID:		9808001		Run ID: GC-1_980803A		SeqNo: 5286					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	18.08	0.5	20	0	90.4%	85	115				
Ethylbenzene	18.86	0.5	20	0	94.3%	85	115				
<i>m,p</i> -Xylene	38.12	1	40	0	95.3%	85	115				
Methyl tert-Butyl Ether	18.46	1	20	0	92.3%	85	115				
o-Xylene	19.47	0.5	20	0	97.3%	85	115				
Toluene	18.92	0.5	20	0	94.6%	85	115				
1,4-Difluorobenzene	86.53	0	100	0	86.5%	70	130				
4-Bromochlorobenzene	92.38	0	100	0	92.4%	70	130				
Fluorobenzene	82.47	0	100	0	82.5%	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: 04-Aug-98

CLIENT: PNM - Public Service Company of NM
Work Order: 9808001
Project: Florance 124
Test No: SW8020A

QC SUMMARY REPORT SURROGATE RECOVERIES

BTEX

Sample ID	14FBZ	4BCBZ	FLBZ				
9807072-01A	87.8	94	83.6				
9807072-02A	74.6	82.5	72.8				
9807072-03A	83.6	62.2 *	79.4				
9807072-03AMS	82.6	63.1 *	79				
9807072-03AMSD	83.3	66.1 *	79				
9807072-04A	82.5	62.2 *	83.5				
9807072-05A	85	90	81.5				
9807072-06A	82.7	70.2	79.6				
9807072-07A	85	82.8	81.8				
9807072-08A	84.3	79.3	86.1				
9807072-09A	86.8	84.8	83.3				
9807072-10A	84.4	81.7	80.7				
9807077-01A	83.9	68.8 *	79.3				
9807077-02A	85.8	83.3	82.2				
9807077-03A	85.7	85.6	82.6				
9807078-01A	85.4	84.4	82.6				
9808001-01A	74.4	73.7	85				
9808001-02A	76.6	78.8	82.7				
CCV1 QC0606/07	86.7	91.9	82.8				
CCV2 QC0606/07	86.4	87.3	82.5				
CCV3 QC0606/07	86.5	92.4	82.5				
LCS WATER	86	94	82.3				
MB1	86.8	87.8	83.4				

Acronym	Surrogate	QC Limits
14FBZ	= 1,4-Difluorobenzene	70-130
4BCBZ	= 4-Bromochlorobenzene	70-130
FLBZ	= Fluorobenzene	70-130

* Surrogate recovery outside acceptance limits



CHAIN OF CUSTODY RECORD

Date: 7/31/98

Page: 1 of 1

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

Purchase Order No.:		Job No.		REPORT RESULTS TO	Name Maureen Gannon		Title																				
SEND INVOICE TO	Name Denver Bearden				Company PNM Gas Services																						
	Company PNM Gas Services		Dept. 324-3763		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: F10ance 124				Number of Containers	ANALYSIS REQUESTED																						
Sampler: Mark S. Kelianos					BTEX 8020																						
SAMPLE IDENTIFICATION		SAMPLE											MATRIX	PRES.													
		DATE	TIME																								
9807311200													H₂O	HCL	2	X											
9807311215													H₂O	HCL	2	X											
Relinquished by:				Date/Time 7/31/98 1245		Received by:				Date/Time 7/31/98 1245																	
Relinquished by:				Date/Time		Received by:				Date/Time																	
Relinquished by:				Date/Time		Received by:				Date/Time																	
Method of Shipment:				Rush		24-48 Hours		10 Working Days		Special Instructions:																	
Authorized by:				Date 7/31/98						Results to be sent to both parties.																	
(Client Signature Must Accompany Request)																											

OFF: (505) 325-5667



LAB: (505) 325-1556

November 06, 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

4th Quarter 1998

RE: Florance 124

Order No.: 9811014

Dear Maureen Gannon,

On Site Technologies, LTD. received 2 samples on 11/4/98 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,

A handwritten signature in black ink, appearing to read "David Cox", with a stylized flourish at the end.

David Cox

OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 06-Nov-98

CLIENT: PNM - Public Service Company of NM
Project: Florance 124
Lab Order: 9811014

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.

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 06-Nov-98

Client:	PNM - Public Service Company of NM	Client Sample Info:	Florance 124
Work Order:	9811014	Client Sample ID:	9811041400; MW-2
Lab ID:	9811014-01A	Matrix:	AQUEOUS
Project:	Florance 124	Collection Date:	11/4/98 2:00:00 PM
		COC Record:	7517

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
BTEX		SW8020A				Analyst: DC
Benzene	ND	1		µg/L	1	11/4/98
Toluene	ND	1		µg/L	1	11/4/98
Ethylbenzene	ND	1		µg/L	1	11/4/98
m,p-Xylene	ND	2		µg/L	1	11/4/98
o-Xylene	ND	1		µg/L	1	11/4/98

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

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

1 of 1

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Duplicate MW-2

Date: 06-Nov-98

Client:	PNM - Public Service Company of NM	Client Sample Info:	Florance 124
Work Order:	9811014	Client Sample ID:	9811041430; MW-5
Lab ID:	9811014-02A	Matrix:	AQUEOUS
Project:	Florance 124	Collection Date:	11/4/98 2:30:00 PM
		COC Record:	7517

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
BTEX		SW8020A				Analyst: DC
Benzene	ND	1		µg/L	1	11/4/98
Toluene	ND	1		µg/L	1	11/4/98
Ethylbenzene	ND	1		µg/L	1	11/4/98
m,p-Xylene	ND	2		µg/L	1	11/4/98
o-Xylene	ND	1		µg/L	1	11/4/98

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

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

1 of 1

On Site Technologies, LTD.

Date: 06-Nov-98

CLIENT: PNM - Public Service Company of NM

Work Order: 9811014

Project: Florance 124

QC SUMMARY REPORT

Method Blank

Sample ID: MB1		Batch ID: GC-1_981104		Test Code: SW8020A		Units: µg/L		Analysis Date 11/4/98		Prep Date:	
Client ID:		9811014		Run ID: GC-1_981104A				SeqNo: 8462			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	1									
Ethylbenzene	ND	1									
m,p-Xylene	.1915	2									J
Methyl tert-Butyl Ether	ND	1									
o-Xylene	ND	1									
Toluene	.1132	1									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: 06-Nov-98

CLIENT: PNM - Public Service Company of NM

Work Order: 9811014

Project: Florance 124

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: 9810083-01AMS		Batch ID: GC-1_981104		Test Code: SW8020A		Units: µg/L		Analysis Date 11/4/98		Prep Date:	
Client ID: 9811014		Run ID: GC-1_981104A		SeqNo: 8463							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	557.3	10	400	174.9	95.6%	56	128				
Ethylbenzene	495.2	10	400	103.2	98.0%	78	107				
m,p-Xylene	1867	20	800	1118	93.6%	67	118				
Methyl tert-Butyl Ether	414	10	400	2.82	102.8%	70	130				
o-Xylene	744.5	10	400	345.3	99.8%	78	107				
Toluene	1168	10	400	794.7	93.3%	74	116				

Sample ID: 9810083-01AMSD		Batch ID: GC-1_981104		Test Code: SW8020A		Units: µg/L		Analysis Date 11/4/98		Prep Date:	
Client ID: 9811014		Run ID: GC-1_981104A		SeqNo: 8464							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	540.5	10	400	174.9	91.4%	56	128	557.3	3.1%	12	
Ethylbenzene	480	10	400	103.2	94.2%	78	107	495.2	3.1%	11	
m,p-Xylene	1809	20	800	1118	86.4%	67	118	1867	3.1%	10	
Methyl tert-Butyl Ether	409.9	10	400	2.82	101.8%	70	130	414	1.0%	15	
o-Xylene	726	10	400	345.3	95.2%	78	107	744.5	2.5%	14	
Toluene	1132	10	400	794.7	84.4%	74	116	1168	3.1%	14	

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: 06-Nov-98

CLIENT: PNM - Public Service Company of NM
Work Order: 9811014
Project: Florance 124

QC SUMMARY REPORT
Laboratory Control Spike - generic

Sample ID: LCS WATER	Batch ID: GC-1_981104	Test Code: SW8020A	Units: µg/L			Analysis Date 11/4/98			Prep Date:		
Client ID:	9811014	Run ID:	GC-1_981104A			SeqNo:	8461				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	39.08	1	40	0	97.7%	56	128				
Ethylbenzene	39.35	1	40	0	98.4%	78	107				
m,p-Xylene	77.64	2	80	0.1915	96.8%	67	118				
Methyl tert-Butyl Ether	39.46	1	40	0	98.6%	70	130				
o-Xylene	39.78	1	40	0	99.5%	78	107				
Toluene	39.28	1	40	0.1132	97.9%	74	116				

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: 06-Nov-98

CLIENT: PNM - Public Service Company of NM

Work Order: 9811014

Project: Florance 124

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV1 QC0606/07		Batch ID: GC-1_981104		Test Code: SW8020A		Units: µg/L		Analysis Date 11/4/98		Prep Date:	
Client ID:		9811014		Run ID: GC-1_981104A				SeqNo: 8459			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	21.15	1	20	0	105.7%	85	115				
Ethylbenzene	21.33	1	20	0	106.7%	85	115				
m,p-Xylene	42	2	40	0	105.0%	85	115				
Methyl tert-Butyl Ether	20.99	1	20	0	105.0%	85	115				
o-Xylene	21.54	1	20	0	107.7%	85	115				
Toluene	21.27	1	20	0	106.3%	85	115				
1,4-Difluorobenzene	89.74	0	100	0	89.7%	70	130				
4-Bromochlorobenzene	102.7	0	100	0	102.7%	70	130				
Fluorobenzene	87.6	0	100	0	87.6%	70	130				

Sample ID: CCV2 QC0606/07		Batch ID: GC-1_981104		Test Code: SW8020A		Units: µg/L		Analysis Date 11/4/98		Prep Date:	
Client ID:		9811014		Run ID: GC-1_981104A				SeqNo: 8460			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.8	1	20	0	104.0%	85	115				
Ethylbenzene	20.93	1	20	0	104.6%	85	115				
m,p-Xylene	41.08	2	40	0	102.7%	85	115				
Methyl tert-Butyl Ether	21.31	1	20	0	106.5%	85	115				
o-Xylene	21.31	1	20	0	106.6%	85	115				
Toluene	20.99	1	20	0	105.0%	85	115				
1,4-Difluorobenzene	89.25	0	100	0	89.2%	70	130				
4-Bromochlorobenzene	102.4	0	100	0	102.4%	70	130				
Fluorobenzene	87.7	0	100	0	87.7%	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: 06-Nov-98

CLIENT: PNM - Public Service Company of NM

Work Order: 9811014

Project: Florance 124

Test No: SW8020A

QC SUMMARY REPORT SURROGATE RECOVERIES

BTEX

Sample ID	14FBZ	4BCBZ	FLBZ				
9810083-01A	90.1	103	88.1				
9810083-01AMS	90.2	103	87.8				
9810083-01AMSD	89.9	103	87.6				
9810094-01A	90	102	88				
9810094-02A	89.8	103	87.9				
9811008-01A	89.1	99.6	96.9				
9811012-01A	82.6	97.4	82.6				
9811012-02A	82.4	96.4	82				
9811013-01A	88	102	85.6				
9811014-01A	89.7	104	88				
9811014-02A	89.8	104	88				
CCV1 QC0606/07	89.7	103	87.6				
CCV2 QC0606/07	89.2	102	87.7				
LCS WATER	89	102	87.6				
MB1	90.2	103	88				

Acronym	Surrogate	QC Limits
14FBZ	= 1,4-Difluorobenzene	70-130
4BCBZ	= 4-Bromochlorobenzene	70-130
FLBZ	= Fluorobenzene	70-130

* Surrogate recovery outside acceptance limits

OFF: (505) 325-5667



LAB: (505) 325-1556

February 10, 1999

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

Received
Feb 19 1999

15+ Q+R 1999

RE: Florance 124

Order No.: 9901017

Dear Maureen Gannon,

On Site Technologies, LTD. received 2 samples on 1/21/99 for the analyses presented in the following report.

The Samples were analyzed for the following tests:
BTEX (SW8021B)

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,

A handwritten signature in dark ink, appearing to be "D Cox", written in a cursive style.

David Cox

OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 10-Feb-99

CLIENT: PNM - Public Service Company of NM

Project: Florance 124

Lab Order: 9901017

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.

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 10-Feb-99

Client:	PNM - Public Service Company of NM	Client Sample Info:	Florance 124
Work Order:	9901017	Client Sample ID:	9901211530; MW 2
Lab ID:	9901017-01A	Matrix:	AQUEOUS
Project:	Florance 124	Collection Date:	1/21/99 3:30:00 PM
		COC Record:	7471

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
BTEX		SW8021B				Analyst: HR
Benzene	37	0.5		µg/L	1	2/1/99
Toluene	13	0.5		µg/L	1	2/1/99
Ethylbenzene	14	0.5		µg/L	1	2/1/99
m,p-Xylene	99	1		µg/L	1	2/1/99
o-Xylene	31	0.5		µg/L	1	2/1/99

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

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 10-Feb-99

Client: PNM - Public Service Company of NM
Work Order: 9901017
Lab ID: 9901017-02A
Project: Florance 124

Client Sample Info: Florance 124
Client Sample ID: 9901211600; MW 5
Collection Date: 1/21/99 4:00:00 PM
COC Record: 7471

Duplicate
of
MW-2

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
BTEX		SW8021B				Analyst: HR
Benzene	33	0.5		µg/L	1	2/1/99
Toluene	12	0.5		µg/L	1	2/1/99
Ethylbenzene	12	0.5		µg/L	1	2/1/99
m,p-Xylene	88	1		µg/L	1	2/1/99
o-Xylene	29	0.5		µg/L	1	2/1/99

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

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

On Site Technologies, LTD.

Date: 10-Feb-99

CLIENT: PNM - Public Service Company of NM

Work Order: 9901017

Project: Florance 124

QC SUMMARY REPORT

Method Blank

Sample ID: MB1	Batch ID: GC-1_990201	Test Code: SW8021B	Units: µg/L	Analysis Date 2/1/99	Prep Date:						
Client ID:	9901017	Run ID: GC-1_990201A		SeqNo: 10591							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	.1	0.5									J
Ethylbenzene	.1056	0.5									J
m,p-Xylene	.217	1									J
Methyl tert-Butyl Ether	ND	1									
o-Xylene	.1598	0.5									J
Toluene	ND	0.5									

Sample ID: MB1	Batch ID: GC-1_990204	Test Code: SW8021B	Units: µg/L	Analysis Date 2/4/99	Prep Date:						
Client ID:	9901017	Run ID: GC-1_990204A		SeqNo: 10701							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	.1329	0.5									J
Ethylbenzene	.0442	0.5									J
m,p-Xylene	.133	1									J
Methyl tert-Butyl Ether	ND	1									
o-Xylene	.047	0.5									J
Toluene	.1286	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: 10-Feb-99

CLIENT: PNM - Public Service Company of NM

Work Order: 9901017

Project: Florance 124

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: 9901030-03AMS	Batch ID: GC-1_990201	Test Code: SW8021B	Units: µg/L			Analysis Date 2/1/99			Prep Date:		
Client ID:	9901017	Run ID:	GC-1_990201A			SeqNo:		10592			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	10480	50	4000	6460	100.6%	73	115				
Ethylbenzene	4644	50	4000	664.3	99.5%	74	117				
m,p-Xylene	13420	100	8000	5415	100.1%	76	112				
Methyl tert-Butyl Ether	3802	100	4000	65.51	93.4%	62	122				
o-Xylene	5266	50	4000	1321	98.6%	83	112				
Toluene	12890	50	4000	8934	98.9%	71	120				

Sample ID: 9901030-03AMSD	Batch ID: GC-1_990201	Test Code: SW8021B	Units: µg/L	Analysis Date 2/1/99				Prep Date:			
Client ID:	9901017	Run ID:	GC-1_990201A	SeqNo: 10593							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	10660	50	4000	6460	105.2%	73	115	10480	1.7%	8	
Ethylbenzene	4708	50	4000	664.3	101.1%	74	117	4644	1.4%	9	
m,p-Xylene	13620	100	8000	5415	102.6%	76	112	13420	1.5%	9	
Methyl tert-Butyl Ether	3734	100	4000	65.51	91.7%	62	122	3802	1.8%	7	
o-Xylene	5317	50	4000	1321	99.9%	83	112	5266	1.0%	9	
Toluene	13100	50	4000	8934	104.3%	71	120	12890	1.7%	9	

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: 9901017
Project: Florance 124

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: 9901017-01AMS	Batch ID: GC-1_990204	Test Code: SW8021B	Units: µg/L	Analysis Date 2/4/99					Prep Date:		
Client ID: 9901211530; MW	9901017	Run ID: GC-1_990204A				SeqNo: 10702					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	90.18	2.5	200	37.09	26.5%	73	115				S ✓
Ethylbenzene	191.5	2.5	200	14.15	88.7%	74	117				L ✓
m,p-Xylene	435.1	5	400	98.74	84.1%	76	112				S ✓
Methyl tert-Butyl Ether	100.9	5	200	3.314	48.8%	62	122				S ✓
o-Xylene	204.9	2.5	200	31.49	86.7%	83	112				S ✓
Toluene	213.4	2.5	200	13.04	100.2%	71	120				S ✓

Sample ID: 9901017-01AMSD	Batch ID: GC-1_990204	Test Code: SW8021B	Units: µg/L	Analysis Date 2/4/99					Prep Date:		
Client ID: 9901211530; MW	9901017	Run ID: GC-1_990204A		SeqNo: 10703							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	93.15	2.5	200	37.09	28.0%	73	115	90.18	3.2%	8	S ✓
Ethylbenzene	197.8	2.5	200	14.15	91.8%	74	117	191.5	3.2%	9	S ✓
m,p-Xylene	449.7	5	400	98.74	87.7%	76	112	435.1	3.3%	9	
Methyl tert-Butyl Ether	100.7	5	200	3.314	48.7%	62	122	100.9	0.2%	7	
o-Xylene	211.1	2.5	200	31.49	89.8%	83	112	204.9	3.0%	9	
Toluene	213.1	2.5	200	13.04	100.0%	71	120	213.4	0.1%	9	

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: 10-Feb-99

CLIENT: PNM - Public Service Company of NM

Work Order: 9901017

Project: Florance 124

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: LCS WATER	Batch ID: GC-1_990201	Test Code: SW8021B	Units: µg/L			Analysis Date 2/1/99			Prep Date:		
Client ID:	9901017	Run ID:	GC-1_990201A			SeqNo:	10590				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	41.19	0.5	40	0.1	102.7%	84	110				
Ethylbenzene	41.35	0.5	40	0.1	103.1%	86	113				
m,p-Xylene	81.06	1	80	0.2	101.1%	81	114				
Methyl tert-Butyl Ether	40.88	1	40	0	102.2%	69	129				
o-Xylene	40.85	0.5	40	0.2	101.6%	86	112				
Toluene	40.6	0.5	40	0	101.5%	85	111				

Sample ID: LCS WATER	Batch ID: GC-1_990204	Test Code: SW8021B	Units: µg/L			Analysis Date 2/4/99			Prep Date:		
Client ID:	9901017	Run ID:	GC-1_990204A			SeqNo:	10700				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	42.54	0.5	40	0.1329	106.0%	84	110				
Ethylbenzene	42.79	0.5	40	0.0442	106.9%	86	113				
m,p-Xylene	83.34	1	80	0.133	104.0%	81	114				
Methyl tert-Butyl Ether	38.28	1	40	0	95.7%	69	129				
o-Xylene	41.98	0.5	40	0.047	104.8%	86	112				
Toluene	41.92	0.5	40	0.1286	104.5%	85	111				

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: 10-Feb-99

CLIENT: PNM - Public Service Company of NM

Work Order: 9901017

Project: Florance 124

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV1 QC0606/07	Batch ID: GC-1_990201	Test Code: SW8021B	Units: µg/L	Analysis Date 2/1/99				Prep Date:			
Client ID:	9901017	Run ID:	GC-1_990201A	SeqNo: 10587							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	21.47	0.5	20	0	107.4%	85	115				
Ethylbenzene	21.23	0.5	20	0	106.2%	85	115				
m,p-Xylene	40.86	1	40	0	102.2%	85	115				
Methyl tert-Butyl Ether	21.25	1	20	0	106.2%	85	115				
o-Xylene	20.82	0.5	20	0	104.1%	85	115				
Toluene	20.88	0.5	20	0	104.4%	85	115				
1,4-Difluorobenzene	97.35	0	100	0	97.3%	90	102				
4-Bromochlorobenzene	98.2	0	100	0	98.2%	93	102				
Fluorobenzene	96.44	0	100	0	96.4%	84	103				

Sample ID: CCV2 QC0606/07	Batch ID: GC-1_990201	Test Code: SW8021B	Units: µg/L			Analysis Date 2/1/99			Prep Date:		
Client ID:	9901017	Run ID:	GC-1_990201A			SeqNo:	10588				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.2	0.5	20	0	101.0%	85	115				
Ethylbenzene	19.81	0.5	20	0	99.1%	85	115				
m,p-Xylene	37.96	1	40	0	94.9%	85	115				
Methyl tert-Butyl Ether	19.04	1	20	0	95.2%	85	115				
o-Xylene	19.7	0.5	20	0	98.5%	85	115				
Toluene	19.57	0.5	20	0	97.9%	85	115				
1,4-Difluorobenzene	96.88	0	100	0	96.9%	90	102				
4-Bromochlorobenzene	99.09	0	100	0	99.1%	93	102				
Fluorobenzene	96.51	0	100	0	96.5%	84	103				

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: 9901017
Project: Florance 124

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV3 QC0606/07		Batch ID: GC-1_990201		Test Code: SW8021B		Units: µg/L		Analysis Date 2/1/99			Prep Date:	
Client ID:		9901017		Run ID:		GC-1_990201A		SeqNo:		10589		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Benzene	41.68	0.5	40	0	104.2%	85	115					
Ethylbenzene	40.55	0.5	40	0	101.4%	85	115					
m,p-Xylene	79.37	1	80	0	99.2%	85	115					
Methyl tert-Butyl Ether	38.63	1	40	0	96.6%	85	115					
o-Xylene	40.14	0.5	40	0	100.3%	85	115					
Toluene	40.41	0.5	40	0	101.0%	85	115					
1,4-Difluorobenzene	97.11	0	100	0	97.1%	90	102					
4-Bromochlorobenzene	97.98	0	100	0	98.0%	93	102					
Fluorobenzene	96.64	0	100	0	96.6%	84	103					

Sample ID: CCV1 QC0606/07		Batch ID: GC-1_990204		Test Code: SW8021B		Units: µg/L		Analysis Date 2/4/99			Prep Date:	
Client ID:		9901017		Run ID:		GC-1_990204A		SeqNo:		10698		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Benzene	22.06	0.5	20	0	110.3%	85	115					
Ethylbenzene	21.56	0.5	20	0	107.8%	85	115					
m,p-Xylene	41.34	1	40	0	103.3%	85	115					
Methyl tert-Butyl Ether	19.46	1	20	0	97.3%	85	115					
o-Xylene	21.04	0.5	20	0	105.2%	85	115					
Toluene	21.05	0.5	20	0	105.2%	85	115					
1,4-Difluorobenzene	96.84	0	100	0	96.8%	90	102					
4-Bromochlorobenzene	99.27	0	100	0	99.3%	93	102					
Fluorobenzene	96.3	0	100	0	96.3%	84	103					

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: 9901017
Project: Florance 124

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV2 QC0606/07		Batch ID: GC-1_990204		Test Code: SW8021B		Units: µg/L		Analysis Date 2/4/99		Prep Date:	
Client ID:		9901017		Run ID: GC-1_990204A		SeqNo: 10699					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.49	0.5	20	0	102.5%	85	115				
Ethylbenzene	20.42	0.5	20	0	102.1%	85	115				
m,p-Xylene	39.06	1	40	0	97.7%	85	115				
Methyl tert-Butyl Ether	20.22	1	20	0	101.1%	85	115				
o-Xylene	19.98	0.5	20	0	99.9%	85	115				
Toluene	20.01	0.5	20	0	100.1%	85	115				
1,4-Difluorobenzene	96.33	0	100	0	96.3%	90	102				
4-Bromochlorobenzene	98.99	0	100	0	99.0%	93	102				
Fluorobenzene	95.45	0	100	0	95.5%	84	103				

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: 9901017
Project: Florance 124
Test No: SW8021B

QC SUMMARY REPORT SURROGATE RECOVERIES

BTEX

Sample ID	14FBZ	4BCBZ	FLBZ
9901015-01A	92.5	94.3	93.5
9901015-02A	92	92.5 *	92.7
9901016-01A	93.5	95.9	92.7
9901016-02A	97.2	98.9	96.2
9901016-03A	89.8 *	94	89.3
9901016-04A	94.1	97.2	93.6
9901017-01A	84.2 *	81.7 *	87.3
9901017-01AMS	36.8 *	93.9	37.2 *
9901017-01AMSD	36.9 *	93.8	37.4 *
9901017-02A	83.4 *	83.2 *	86
9901024-01A	97.4	96.5	96.3
9901024-02A	97.2	97.5	96.5
9901024-05A	97.2	95.6	96.1
9901030-01A	96.2	97.4	96
9901030-02A	97	98.7	96.3
9901030-03A	94.8	98.5	95.2
9901030-03AMS	94.7	98.8	94.9
9901030-03AMSD	94.6	98.4	94.9
9901030-04A	92.5	97.2	93.2
9901030-05A	96.4	97.2	95.9
9901030-06A	96.4	98	95.9
9902002-08A	96.6	98.8	95.3
9902002-09A	96.6	98.6	95.8
9902003-01A	96.1	98.1	97.5
9902003-02A	96.8	99.1	95.9
9902008-02A	96.8	99.1	96.1
CCV1 QC0606/07	96.8	99.3	96.3

Acronym**Surrogate****QC Limits**

14FBZ

= 1,4-Difluorobenzene

90-102

4BCBZ

= 4-Bromochlorobenzene

93-102

FLBZ

= Fluorobenzene

84-103

* Surrogate recovery outside acceptance limits

CLIENT: PNM - Public Service Company of NM
Work Order: 9901017
Project: Florance 124
Test No: SW8021B

**QC SUMMARY REPORT
SURROGATE RECOVERIES**

BTEX

Sample ID	14FBZ	4BCBZ	FLBZ				
CCV2 QC0606/07	96.3	99	95.4				
CCV3 QC0606/07	97.1	98	96.6				
LCS WATER	96.4	99.8	95				
MB1	97	98.8	95.8				

Acronym	Surrogate	QC Limits
14FBZ	= 1,4-Difluorobenzene	90-102
4BCBZ	= 4-Bromochlorobenzene	93-102
FLBZ	= Fluorobenzene	84-103

* Surrogate recovery outside acceptance limits

