

3R - 316

REPORTS

DATE:

JAN. 27, 2000

Public Service Company
of New Mexico
603 W. Elm - P.O. Box 4750
Farmington, NM 87499
505 950-1997
Fax 505 325-7365

RECEIVED

FEB 01 2000

ENVIRONMENTAL BUREAU
OIL CONSERVATION DIVISION



January 27, 2000

Oil Conservation Division
Attention: Bill Olson
2040 South Pacheco
Santa Fe, NM 87505

Subject: OCD Closure Reports – 4th Reporting Quarter, 1999

Dear Mr. Olson:

PNM Environmental Services is submitting a closure report to the Oil Conservation Division one groundwater site, Florance #44. I have provided copies of the closure to Denny Foust for his information.

I have also enclosed copies of closures submitted to Denny Foust for his approval for the sites listed below:

- | | | |
|--------------------------------|------------------------------|------------------------------------|
| 1. Cole A #1E | 32. New Mexico Federal N #1E | 63. Summit #9 |
| 2. Culpepper Martin #4 Energen | 33. New Mexico Federal N #3E | 64. Summit Viles #5 |
| 3. Culpepper Martin #5 RH | 34. Newman #1E | 65. Taliaferro #2 |
| 4. East #5A | 35. Newman #1E Drip | 66. Taliaferro #3 |
| 5. EH Pipken #5E | 36. Nye Federal #1M | 67. Taliaferro #3E |
| 6. Elledge Federal #34-11 | 37. Oliver #3 | 68. Taliaferro #4 |
| 7. Grenier #14 | 38. P & R #1 Drip | 69. Taliaferro #4E |
| 8. Grenier #19 | 39. Payne #1 (PRI) | 70. Taliaferro #5M |
| 9. Grenier #1A | 40. Payne #4 | 71. Taliaferro #6 |
| 10. Grenier #23 | 41. Pritchard #4 | 72. Taliaferro #7 |
| 11. Grenier A #1A Dehy | 42. Pritchard #4A | 73. Thompson #10 |
| 12. Grenier A #7 | 43. R.P. Hargrave F #2 Drip | 74. Thompson #11 |
| 13. Grenier B #6 Drip | 44. Rawson #2 | 75. Thompson #12 |
| 14. Hanks #11E | 45. Reid #20 Dakota | 76. Thompson #2A |
| 15. Hanks #13 East | 46. Reid #20 Drip | 77. Thompson #3 |
| 16. Hanks #13 West | 47. Reid A #1M | 78. Thompson #5 |
| 17. Hanks #13E | 48. Reid A #2 | 79. Thompson #7 |
| 18. Hanks #14 | 49. Richardson #12A | 80. Thompson #7A Drip |
| 19. Lybrook Line Drip | 50. Richardson #2A | 81. Thompson #9 |
| 20. Mangum #4E | 51. Richardson #9E | 82. Thompson #9A |
| 21. McClanahan #20E | 52. Sadie West #1 | 83. Ute Indian A #2 Drip |
| 22. McCord #1E | 53. Sanchez #3A | 84. Ute Indian A #21 Drip |
| 23. McCord #4 | 54. Sanchez #3E | 85. Whitley #3 |
| 24. McCord #4E | 55. Senter #1M | 86. Whitley #5 |
| 25. McCord #5 | 56. Southern Union #1M | 87. Whitley #5 Drip |
| 26. McCord #5E | 57. Southern Union #1M Drip | 88. Whitley #7E |
| 27. McCord B #1 | 58. Starr #1M | 89. Whitley #8 |
| 28. McDaniel C #1 | 59. State A Gas Com #1 | 90. Whitley #9 |
| 29. McGrath C #1 | 60. Summit #6 | 91. Wright State Com #1E South Pit |
| 30. Montoya Gas Com #1 | 61. Summit #6E | |
| 31. Nance #1 | 62. Summit #6E Drip | |

If you have any questions, please call me at 324-3764.

Sincerely,

A handwritten signature in black ink that reads "Kathy Juckes". The signature is written in a cursive, flowing style. Below the signature, the name "Kathy Juckes" and the title "Staff Assistant" are printed in a standard, sans-serif font.

Kathy Juckes
Staff Assistant

cc: Denny Foust

District I
P.O. Box 1980, Hobbs, NM

District II
P.O. Drawer DD, Artesia, NM 88221

District III
1000 Rio Brazos Rd, Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

SUBMIT 1 COPY TO
APPROPRIATE
DISTRICT OFFICE
AND 1 COPY TO
SANTA FE OFFICE

OIL CONSERVATION DIVISION

2040 South Pacheco Street
Santa Fe, New Mexico 87505

PIT REMEDIATION AND CLOSURE REPORT

Operator:	PNM Gas Services (Amoco)		Telephone:	324-3764			
Address:	603 W. Elm Street Farmington, NM 87401						
Facility or Well Name:	Florance #44						
Location:	Unit	H	Sec	31	T 30N R 8W County San Juan		
Pit Type:	Separator	<input type="checkbox"/>	Dehydrator	<input checked="" type="checkbox"/>	Other _____		
Land Type:	BLM	<input checked="" type="checkbox"/>	State	<input type="checkbox"/>	Fee <input type="checkbox"/> Other _____		
Pit Location:	Pit dimensions:	length	20'	width	20'	depth	3'
(Attach diagram)	Reference:	wellhead	<input checked="" type="checkbox"/>	other	_____		
	Footage from reference:	96'					
	Direction from reference:	65	Degrees	<input checked="" type="checkbox"/> East	North	<input checked="" type="checkbox"/>	
				<input type="checkbox"/> West	South	<input type="checkbox"/>	
					of		
Depth to Ground Water:		Less than 50 feet	(20 points)				
		50 feet to 99 feet	(10 points)				
		Greater than 100 feet	(0 points)				20
(Vertical distance from contaminants to seasonal high water elevation of ground water)							
Wellhead Protection Area:		Yes	(20 points)				
		No	(0 points)				0
(Less than 200 feet from a private domestic water source, or, less than 1,000 feet from all other water sources)							
Distance to Surface Water:		Less than 200 feet	(20 points)				
		200 feet to 1,000 feet	(10 points)				
		Greater than 1,000 feet	(0 points)				0
(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)							
	RANKING SCORE (TOTAL POINTS):						20

Florance #44

Date Remediation Started: 05/13/1996

Date Completed: 05/17/1996

Remediation Method: Excavation X

Approx. Cubic Yard 582

(Check all appropriate sections)

Landfarmed X

Amount Landfarmed (cubic yds) 582

Other _____

Remediation Location: Onsite X - 120 cu yds

Offsite Florance 44E - 462 cu yds.

(i.e., landfarmed onsite, name and location of offsite facility)

Backfill Material Location: _____

General Description of Remedial Action:

Excavated contaminated soil to a pit size of 25' X 37' X 17' and landfarmed soil on location and on Florance 44E within bermed areas at a depth of 6" to 12". Soil was aerated by disking/plowing until soil met regulatory levels.

Ground Water Encountered: No Yes Depth 14'

Final Pit Closure Sampling:

Sample Location Composite - four side walls and center of pit bottom.

(if multiple samples, attach sample result and diagram of sample locations and depths.)

Sample depth 17'

Sample date 05/14/1996 Sample time 3:15:00 PM

Sample Results

Benzene (ppm) 0.0259

Total BTEX (ppm) 1.4807

Field headspace (ppm) _____

TPH (ppm) < 5.00 Method 8015A

Vertical Extent (ft) _____ Risk Analysis form attached Yes No

Ground Water Sample: Yes No

(If yes, see attached Groundwater Site Summary Report)

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND MY BELIEF

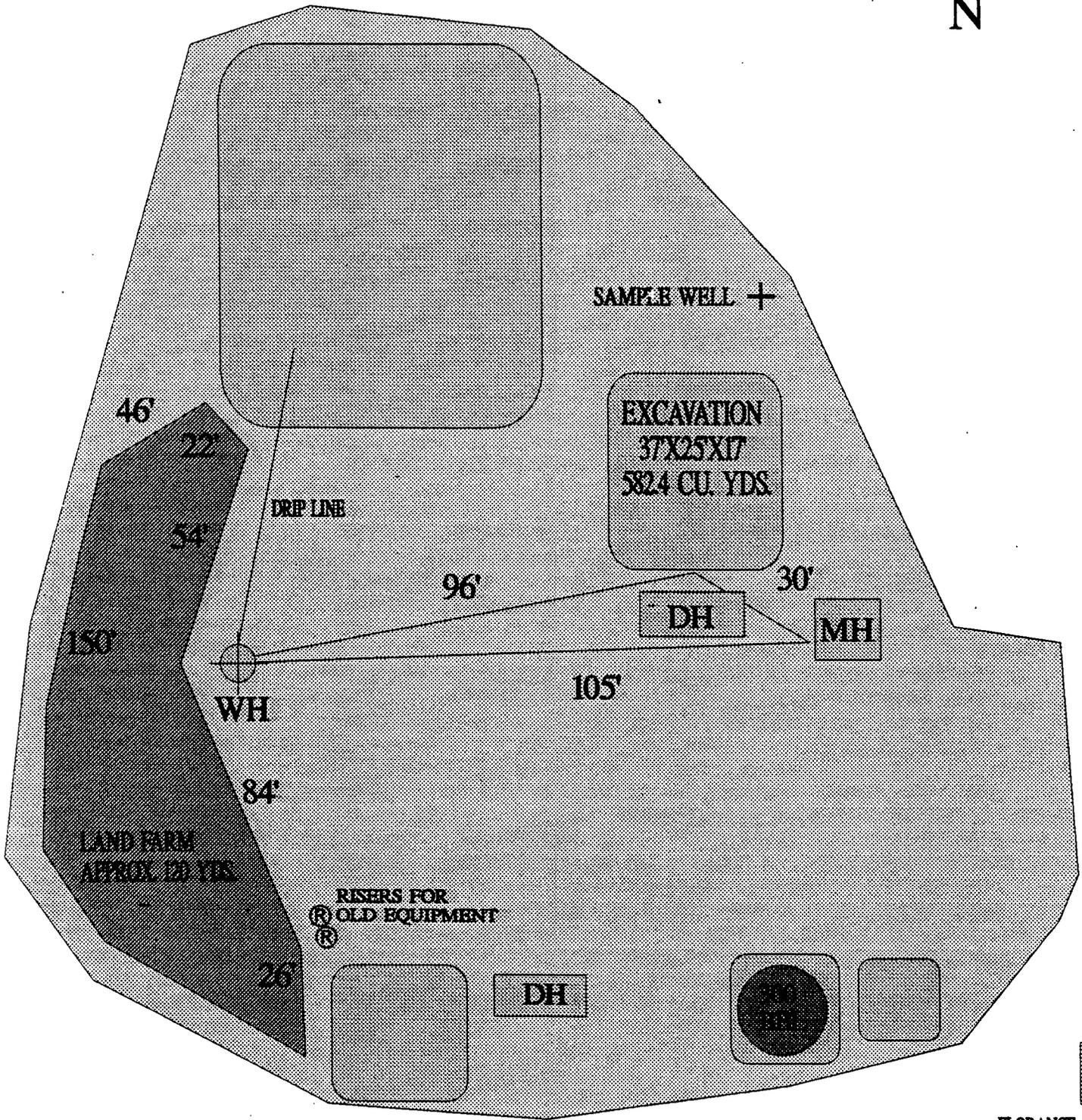
DATE January 24, 2000

SIGNATURE Maureen Gannon

PRINTED NAME Maureen Gannon
AND TITLE Project Manager

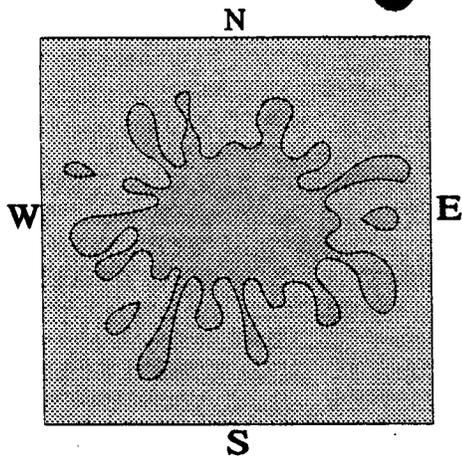
FLORANCE #44 EXCAVATION
05/17/96

N

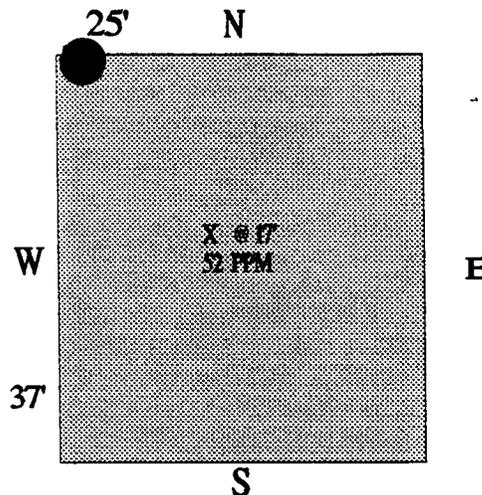


MH
FLORANCE #44A MH

20'X20'X3'

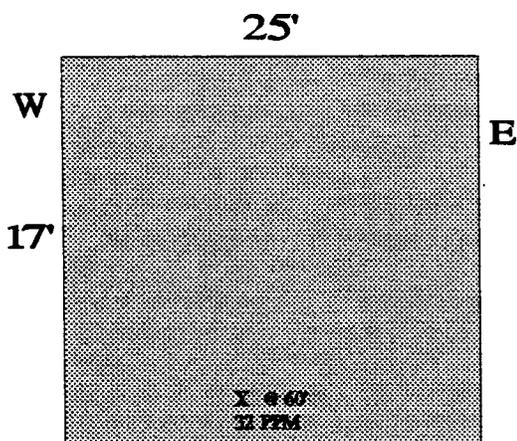


PIT AT START

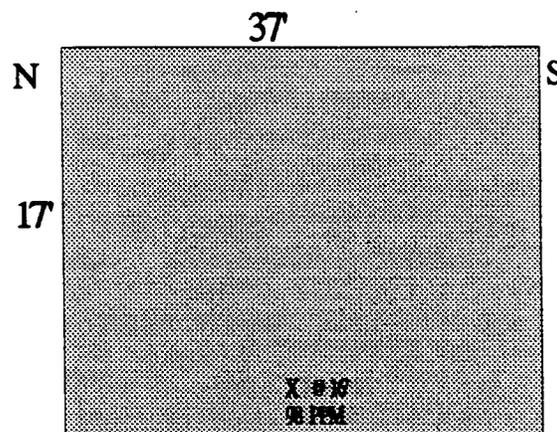


COMPOSITE SAMPLE TAKEN OF NORTH, SOUTH, EAST, & WEST WALLS OF EXCAVATION.

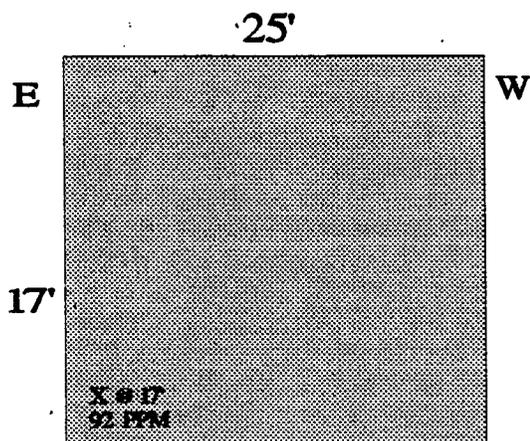
SAMPLE # 9605011515



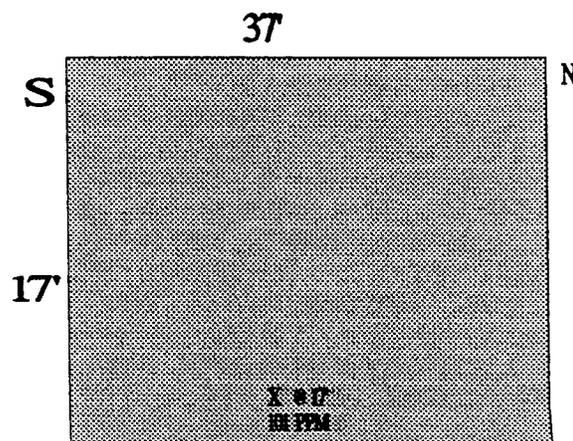
NORTH WALL



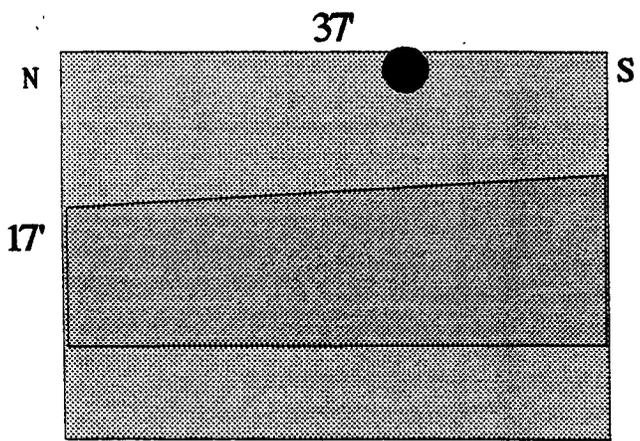
EAST WALL



SOUTH WALL

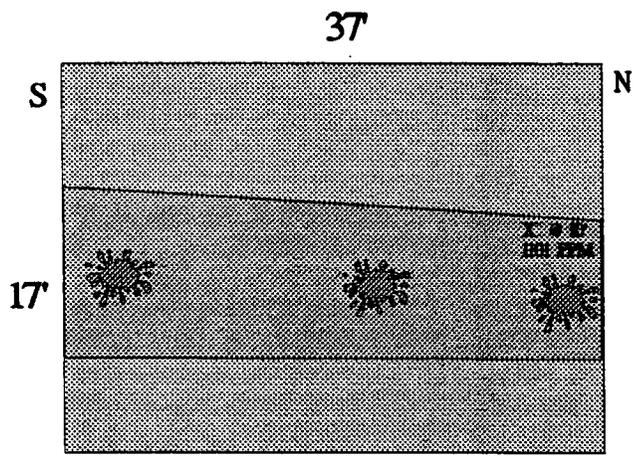


WEST WALL



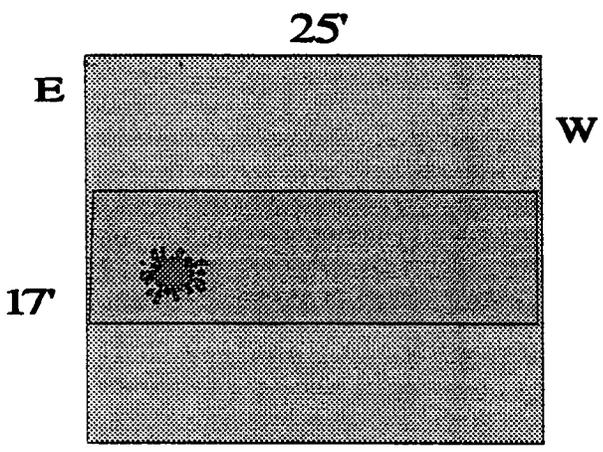
EAST WALL

EXCAVATION AT END
 PIT WATER SAMPLE 9605151010
 WELL H2O SAMPLE 9605151005
 WEST WALL SAMPLE 9605151630

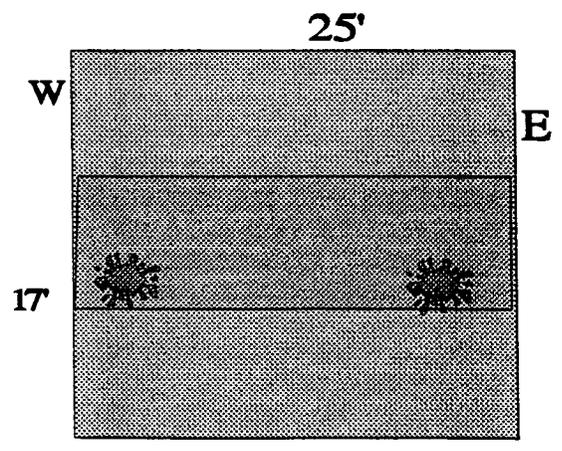


WEST WALL

 = WATER SEEPS
 = CONTAMINATION



SOUTH WALL



NORTH WALL



OFF: (505) 325-8786

LAB: (505) 325-5667

Diesel Range Organics

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

Date: *16-May-96*
 COC No.: *4624*
 Sample No. *10886*
 Job No. *2-1000*

Project Name: *PNM Gas Services - Florance 44*
 Project Location: *9605141515; Pit Excavation Composite Sample*
 Sampled by: *RH* Date: *14-May-96* Time: *15:15*
 Analyzed by: *HR* Date: *15-May-96*
 Sample Matrix: *Soil*

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
<i>Diesel Range Organics (C10 - C28)</i>	<i><5.0</i>	<i>mg/kg</i>	<i>5.0</i>	<i>mg/kg</i>

Quality Assurance Report

DRO QC No.: *0475-QC*

Calibration Check

Parameter	Method Blank	Unit of Measure	True Value	Analyzed Value	% Diff	Limit
<i>Diesel Range (C10 - C28)</i>	<i><5.0</i>	<i>ppm</i>	<i>2,000</i>	<i>1,816</i>	<i>9.2</i>	<i>15%</i>

Matrix Spike

Parameter	1 - Percent Recovered	2 - Percent Recovered	Limit	%RSD	Limit
<i>Diesel Range (C10-C28)</i>	<i>88</i>	<i>96</i>	<i>(70-130)</i>	<i>6</i>	<i>20%</i>

Method - SW-846 EPA Method 8015A mod. - Nonhalogenated Volatile Hydrocarbons by Gas Chromatography

Approved by: *Ja 4*
 Date: *5/16/96*

P. O. BOX 2606 • FARMINGTON, NM 87499

OFF: (505) 325-8786



LAB: (505) 325-5667

AROMATIC VOLATILE ORGANICS

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

Date: *16-May-96*
 COC No.: *4624*
 Sample No.: *10886*
 Job No.: *2-1000*

Project Name: *PNM Gas Services - Florance 44*
 Project Location: *9605141515; Pit Excavation Composite Sample*
 Sampled by: *RH* Date: *14-May-96* Time: *15:15*
 Analyzed by: *HR* Date: *15-May-96*
 Sample Matrix: *Soil*

Laboratory Analysis

<i>Component</i>	<i>Result</i>	<i>Unit of Measure</i>	<i>Detection Limit</i>	<i>Unit of Measure</i>
<i>Benzene</i>	<i>25.9</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>Toluene</i>	<i>167.0</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>Ethylbenzene</i>	<i>243.9</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>m,p-Xylene</i>	<i>777.4</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>o-Xylene</i>	<i>266.4</i>	<i>ug/kg</i>	<i>0.2</i>	<i>ug/kg</i>
<i>TOTAL</i>	<i>1480.7</i>	<i>ug/kg</i>		

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

Approved by: *Dall*
 Date: *5/16/96*

P. O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

FLORANCE #44
Amoco
Sec. 31-30N-09W

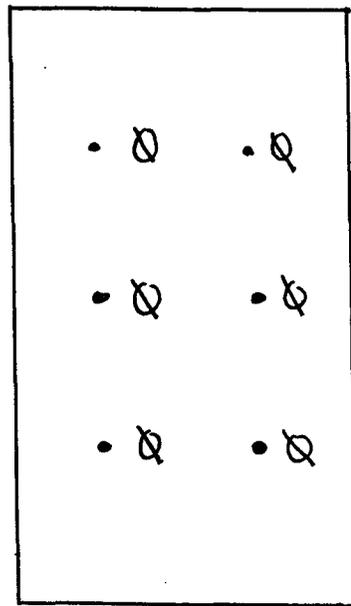
July 23, 1996

Land Farm: On Location
120 Yards

Composite Sample #: 9607231500

Soil Vapor Head-Space Reading = 3.8 ppm (PID)

Sample depths between 2" and 12"



OFF: (505) 325-5667



LAB: (505) 325-1556

Diesel Range Organics

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

Date: *25-Jul-96*
 COC No.: *4916*
 Sample No. *11580*
 Job No. *2-1000*

Project Name: *PNM Gas Services - Florance #44 Landfarm*
 Project Location: *9607231500; 6pt. Composite, 2" - 12" depth*
 Sampled by: *GC* Date: *23-Jul-96* Time: *15:00*
 Analyzed by: *HR* Date: *25-Jul-96*
 Sample Matrix: *Soil*

Laboratory Analysis

<i>Parameter</i>	<i>Result</i>	<i>Unit of Measure</i>	<i>Detection Limit</i>	<i>Unit of Measure</i>
<i>Diesel Range Organics (C10 - C28)</i>	<i><5.0</i>	<i>mg/kg</i>	<i>5.0</i>	<i>mg/kg</i>

Quality Assurance Report

DRO QC No.: 0479-QC

Calibration Check

<i>Parameter</i>	<i>Method Blank</i>	<i>Unit of Measure</i>	<i>True Value</i>	<i>Analyzed Value</i>	<i>% Diff</i>	<i>Limit</i>
<i>Diesel Range (C10 - C28)</i>	<i><5.0</i>	<i>ppm</i>	<i>2,000</i>	<i>1,931</i>	<i>3.4</i>	<i>15%</i>

Matrix Spike

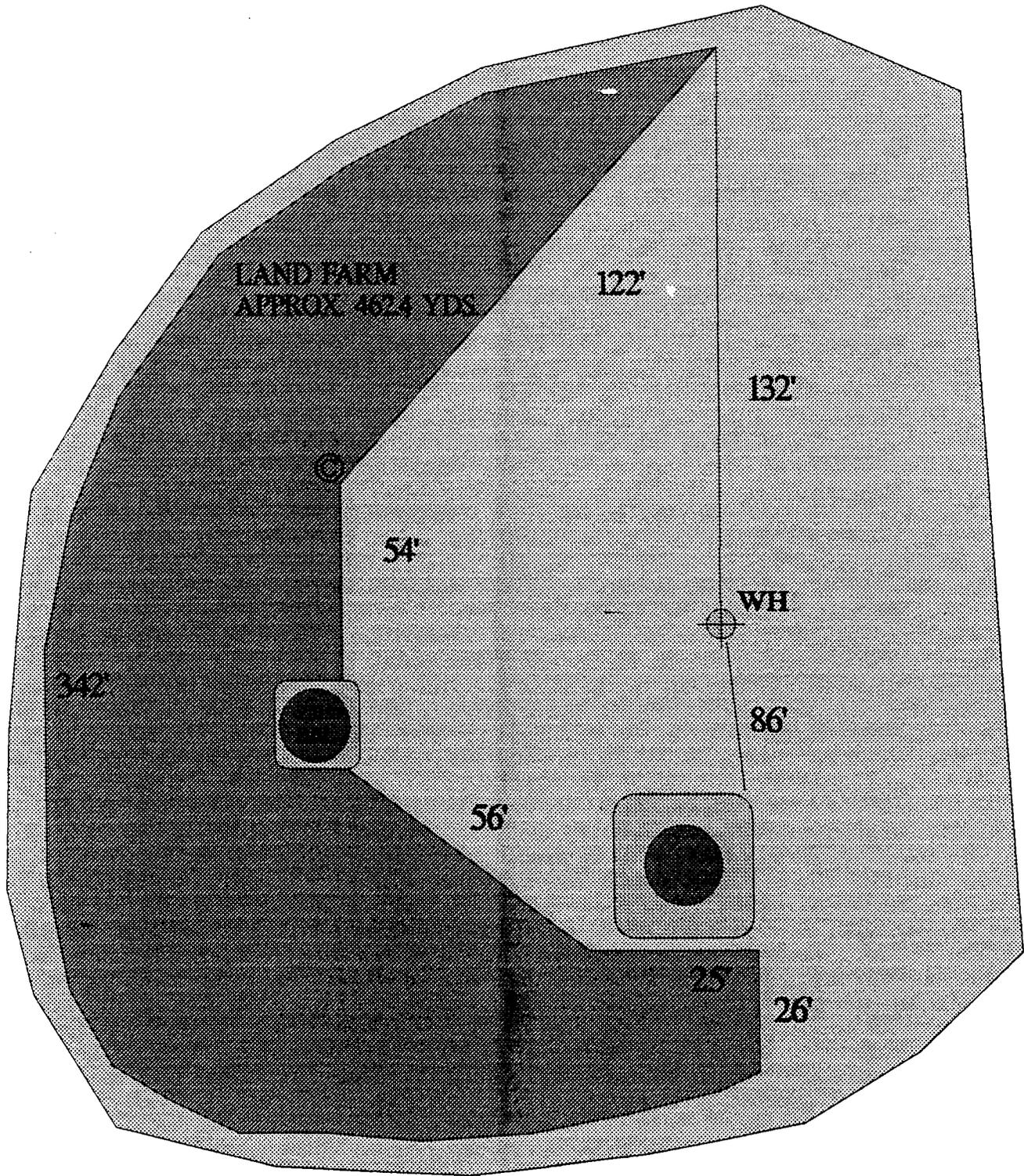
<i>Parameter</i>	<i>1- Percent Recovered</i>	<i>2 - Percent Recovered</i>	<i>Limit</i>	<i>%RSD</i>	<i>Limit</i>
<i>Diesel Range (C10-C28)</i>	<i>111</i>	<i>121</i>	<i>(70-130)</i>	<i>6</i>	<i>20%</i>

Method - SW-846 EPA Method 8015A mod. - Nonhalogenated Volatile Hydrocarbons by Gas Chromatography

Approved by: *JAC*
 Date: *7/25/96*

P.O. BOX 2606 • FARMINGTON, NM 87499

FLORANCE #44 LANDFARM
ON FLORANCE #44E
05/17/96



Groundwater Site Summary Report

Reporting Period Quarter/Year: 1st/99, 2nd/99, 3rd/99 and 4th/99

Operator: Amoco	Vulnerable Class: Extended
Sec: 31 Twn: 30 Rng: 8 Unit: H	OCD Ranking: 20
Canyon: Salvador, San Juan	Lead Agency: OCD

Topo Map: Figure 1

Well Completion Diagram: previously submitted

Site Map with Groundwater Analysis: Figure 2

Groundwater Contour Maps: Figure 3 (January 1999), Figure 4 (May 1999), Figure 5 (July 1999) and Figure 6 (October 1999).

Hydrograph: Figure 7

Full Suite- Groundwater Sampling: previously submitted

Analytical Results: attached

Site Hydrology:

The Florance 44 site lies in a small side canyon immediately west of Salvador Canyon, which empties into the San Juan River near the town of Archuleta, New Mexico. The side canyon drops in elevation towards the east, and is hemmed in by steep cliffs to the north and south of the site (see Figure 1). The wellhead elevation is 5836 ft. amsl. A small spring formerly flowed across the well pad, entering the site from the south. However, after the secondary source removal activities in November 1997 the springflow was diverted to the east, and was prevented from entering the area of the well pad by berms on the south side of the pad (Figure 2).

Alluvial materials encountered beneath the site are composed primarily of sand, with varying amounts of clay. Bedrock in the area is hard sandstone, and was frequently encountered at shallow depths beneath the site. At the extreme southern end of the site (in the area of Amoco's separator pit), hard bedrock was found at depths of 18 to 20 feet. Towards the west (upstream), bedrock was found at 14 feet deep in the area of MW-1. In the center of the site (near MW-2), bedrock was found at 20 feet. In general, the top of the bedrock surface parallels surface topography, and slopes towards the center of the drainage and thence towards the east.

Groundwater beneath the site is as shallow as 7 feet (in upgradient well MW-1) to as deep as 43 feet (in downgradient well MW-4). Groundwater flows east-northeast beneath the site (Figures: 3-6), parallel with surface topography and in the same direction as the assumed bedrock-alluvium contact. The water levels are found within alluvium, which is saturated in the area of study.

The hydrograph of the site (Figure 7) shows fairly steady to slightly falling water levels over time. Owing to the removal and reinstallation of wells, it is not possible to construct a comprehensive hydrograph in the central part of the well pad. However, bore holes SB-1 through SB-3 (see Figure 2) showed dry conditions to the bedrock surface, and wells MW-5 and MW-6 contain only a few feet or less of saturated alluvium. It is believed that the diversion of the spring on the south side of the study area has caused the gradual dewatering of the local alluvium. The site was recently resurveyed using a slightly different datum, thus the inconsistency of past hydrographs to current. However, the groundwater elevations recorded at each of the monitoring wells track nicely with the greatest changes occurring in wells MW-1 and MW-6, closest to the wash on the northern edge of the site.

Florance 44 (continued)

Activities for Previous Year:

Because of contamination discovered during PNM's additional source removal activities at the Florance 44 in November 1997, which included recontamination of the clean fill in our previous excavation, PNM prepared and submitted to OCD a summary report detailing the activities, results and recommendations at the Florance 44 in April 1998. In July 1998, the OCD directed PNM to remediate the site jointly with the operator, Amoco. After discussion and analysis, PNM proposed a well installation and sampling plan in December 1998. Amoco accepted, and the field program commenced in January 1999.

Soil borings SB-1, -2 and -3 encountered dry conditions and did not produce groundwater. Soil boring SB-3 was left open for 24-hours, with no indications of the presence of water. All efforts to re-establish a "source" well were unsuccessful. Little to no contamination was observed in these borings (Figure 2). Soil borings SB-4 and SB-5 encountered saturated alluvium and were completed as monitor wells MW-5 and MW-6.

PNM conducted quarterly groundwater sampling at the Florance 44 on January 12, May 26, July 28, and again on October 28, 1999. Water level data were collected from all wells during each sampling event. All sampling was performed in strict compliance with EPA protocol. PNM delivered the samples to OnSite Technologies, Farmington, New Mexico for chemical analyses of BTEX using EPA method 8021B.

Results:

Figure 2 is a site map of the Florance 44 and includes groundwater analytical results. Upgradient well MW-1 and downgradient well MW-4 have been below standards during every sampling event. Wells MW-5 and MW-6 also showed BTEX concentrations below standards. It is believed that the additional excavation, in addition to other actions taken by the operator, were successful in controlling the source of hydrocarbon contamination at the Florance 44 site.

BTEX concentrations in all wells have been below standards for four consecutive quarters. Apparently the additional source removal performed in November, 1997 appears to have accelerated the reduction of benzene in this area.

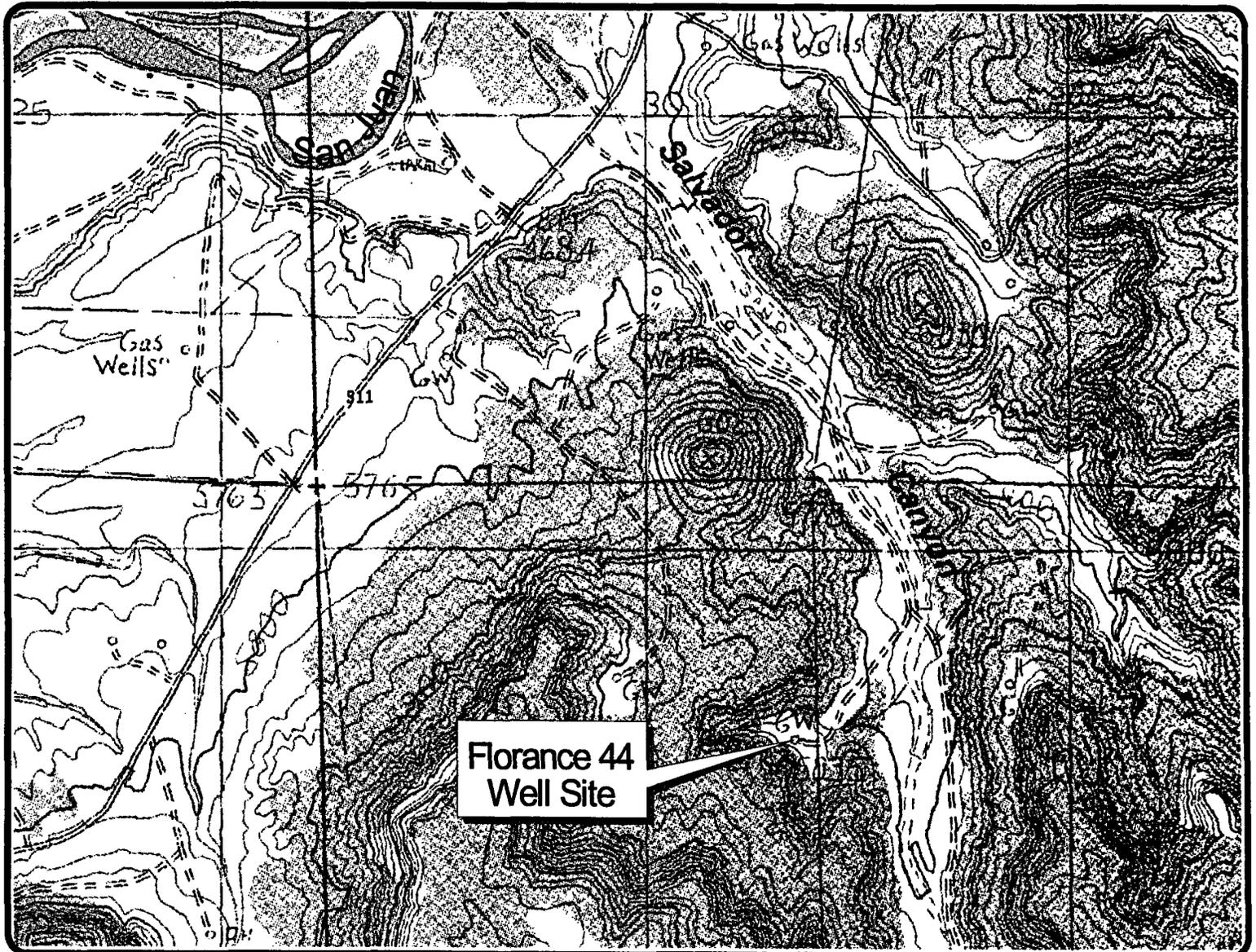
Future Actions:

Consistent with PNM's San Juan Basin Groundwater Management Plan, PNM requests closure of the Florance 44. This request is based upon the analytical data collected over the last three years at the site. The secondary excavation of additional source materials appears to have been successful in achieving clean-up at the Florance 44; the BTEX concentrations in all of the wells have been below standards for four consecutive quarters.

Upon approval of the groundwater closure report, PNM will plug and abandon the four groundwater monitoring wells at the site. The concrete pad and metal vault surrounding each well will be removed. The well casing will be removed or cut below ground surface and each well will be plugged to the surface with cement containing 5% bentonite.



**Figure 1.
Florance 44
Sec. 31 Twn. 30N Rng. 8W Unit H**



Archuleta, NM 7.5' Quadrangle

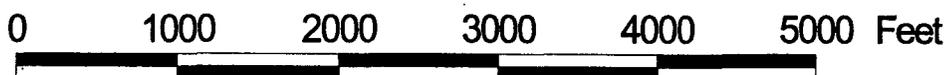
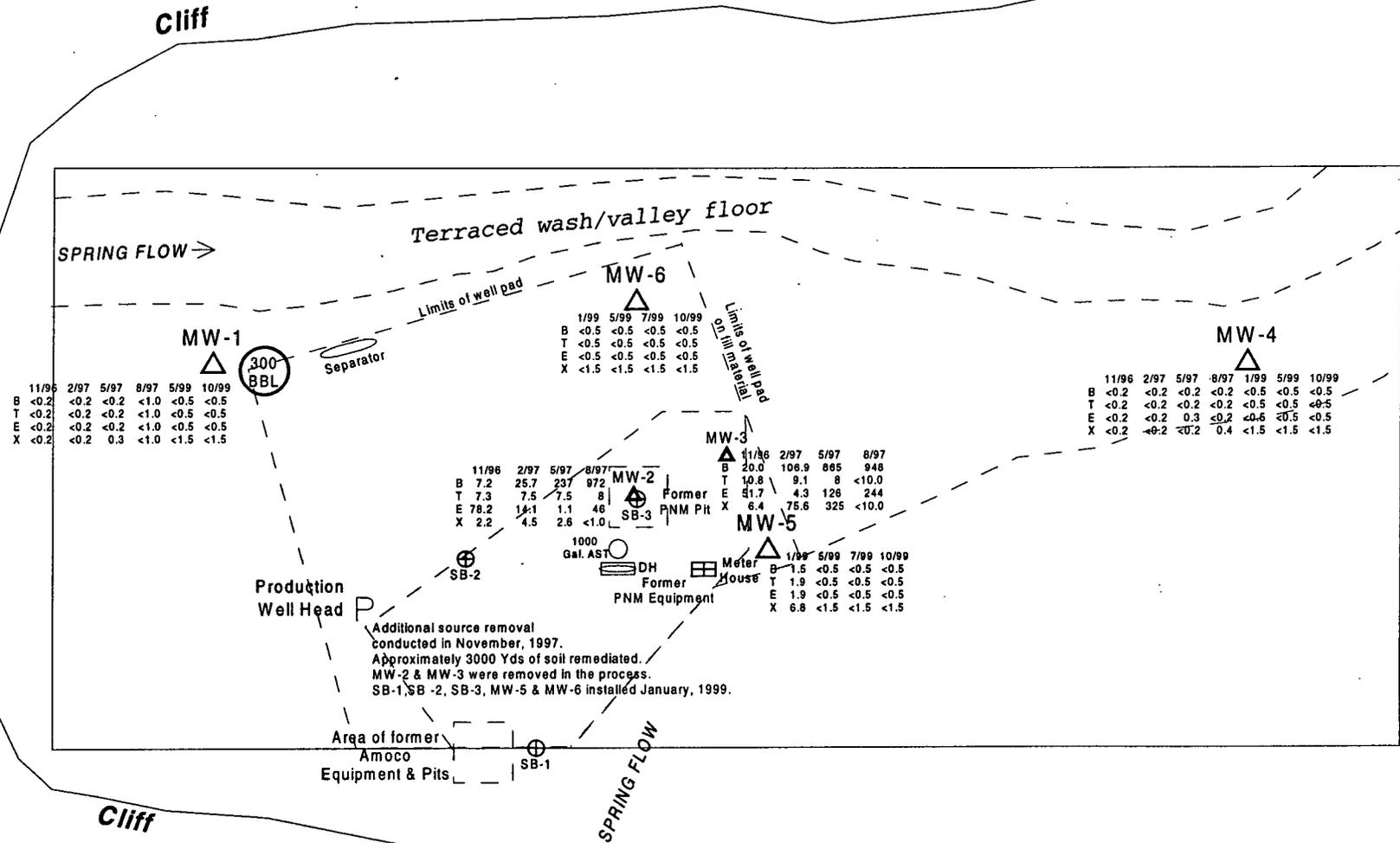
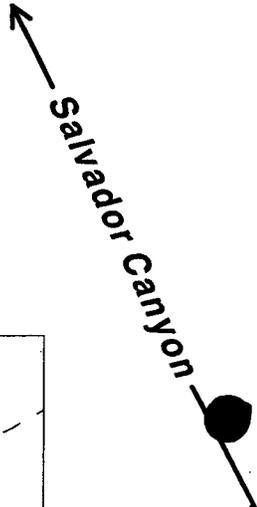




Figure 2.
Florance 44 Site Map and Analytical Results
(Concentrations in mg/l)



- △ - Existing monitor wells
- ▲ - Former Monitor wells
- P - Production Well Head
- ⊕ - Soil borings, performed January, 1999. Bedrock encountered in all borings @ - 20'.



Figure 3.
Florance 44 Groundwater Contour Map (January 12, 1999)

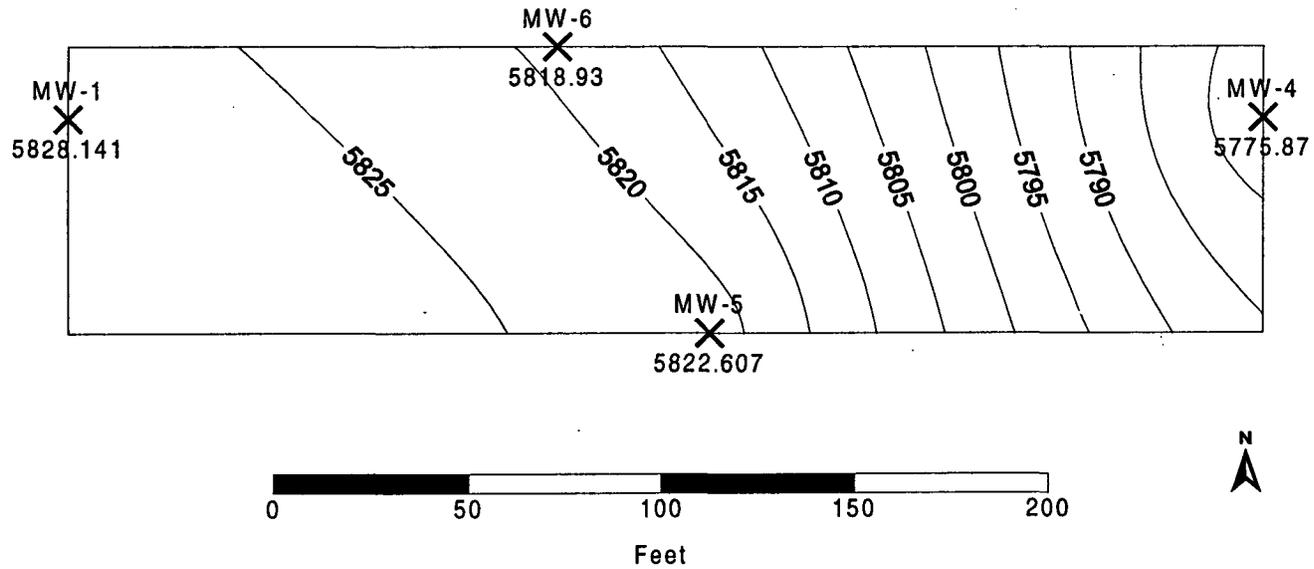


Figure 4.
Florance 44 Groundwater Contour Map (May 26, 1999)

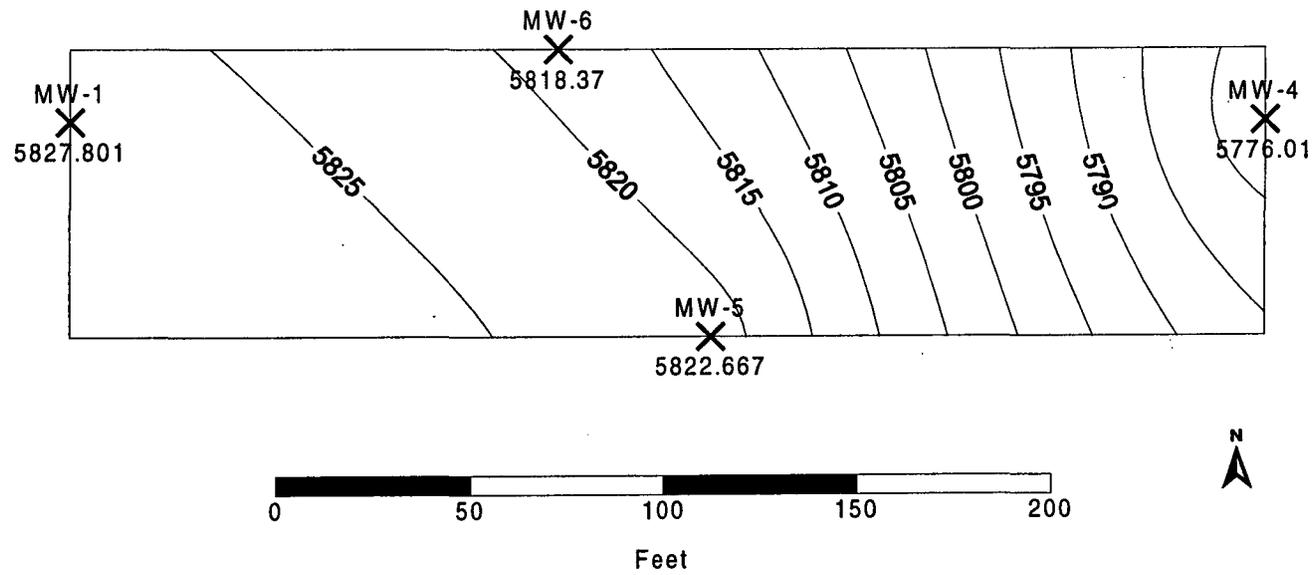


Figure 5.
Florance 44 Groundwater Contour Map (July 28, 1999)

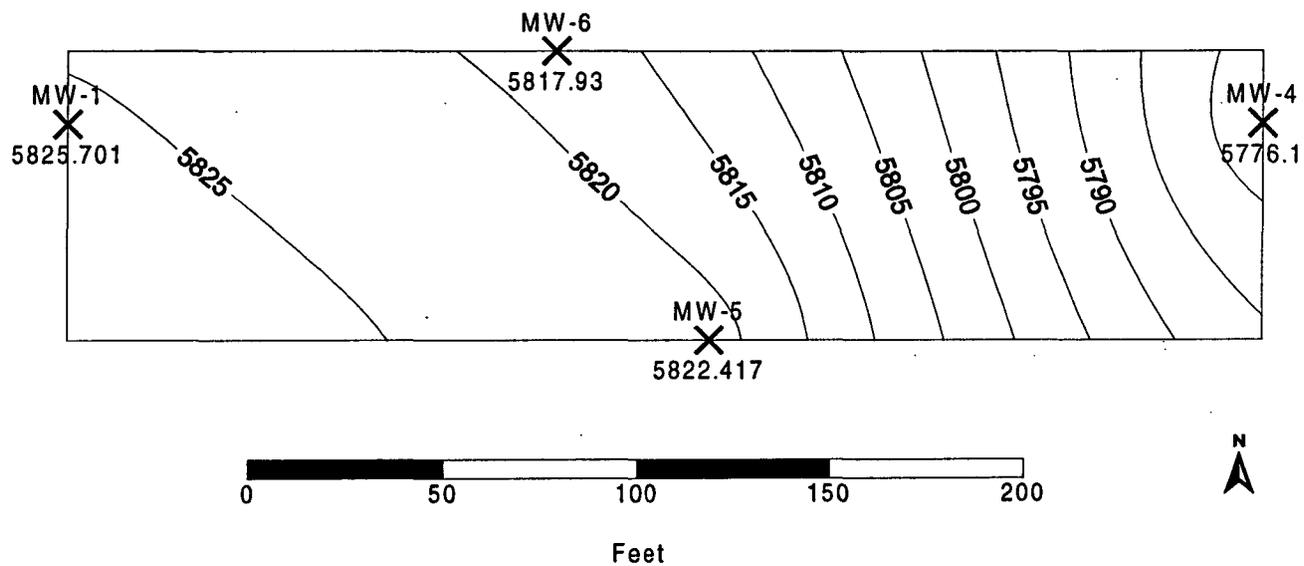


Figure 6.
Florance 44 Groundwater Contour Map (October 20, 1999)

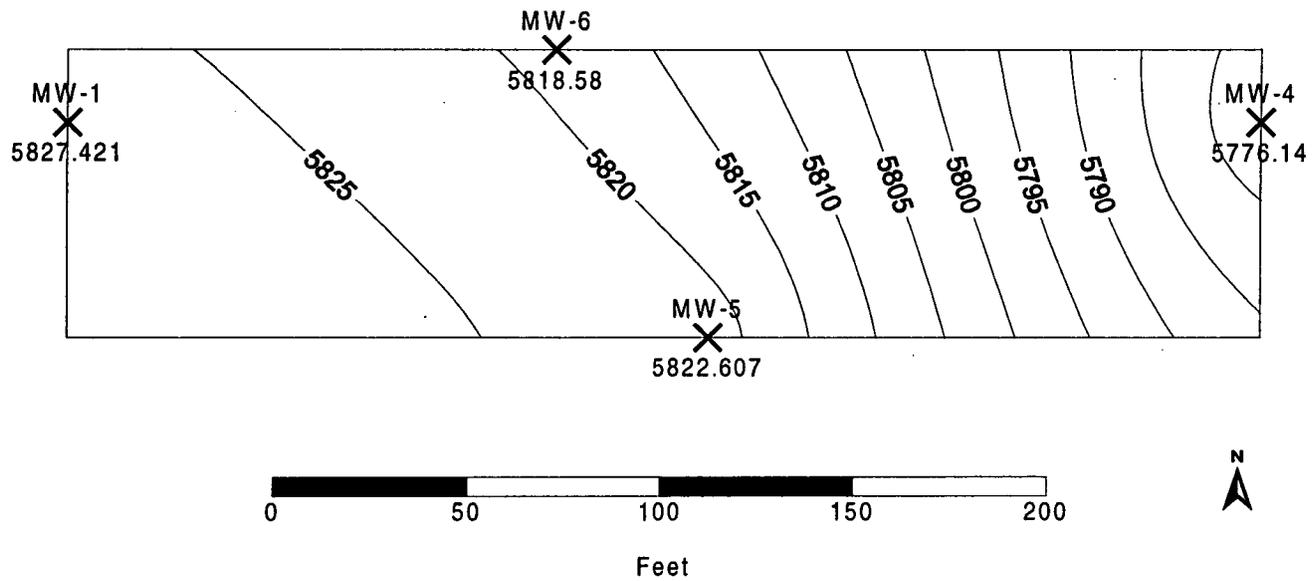
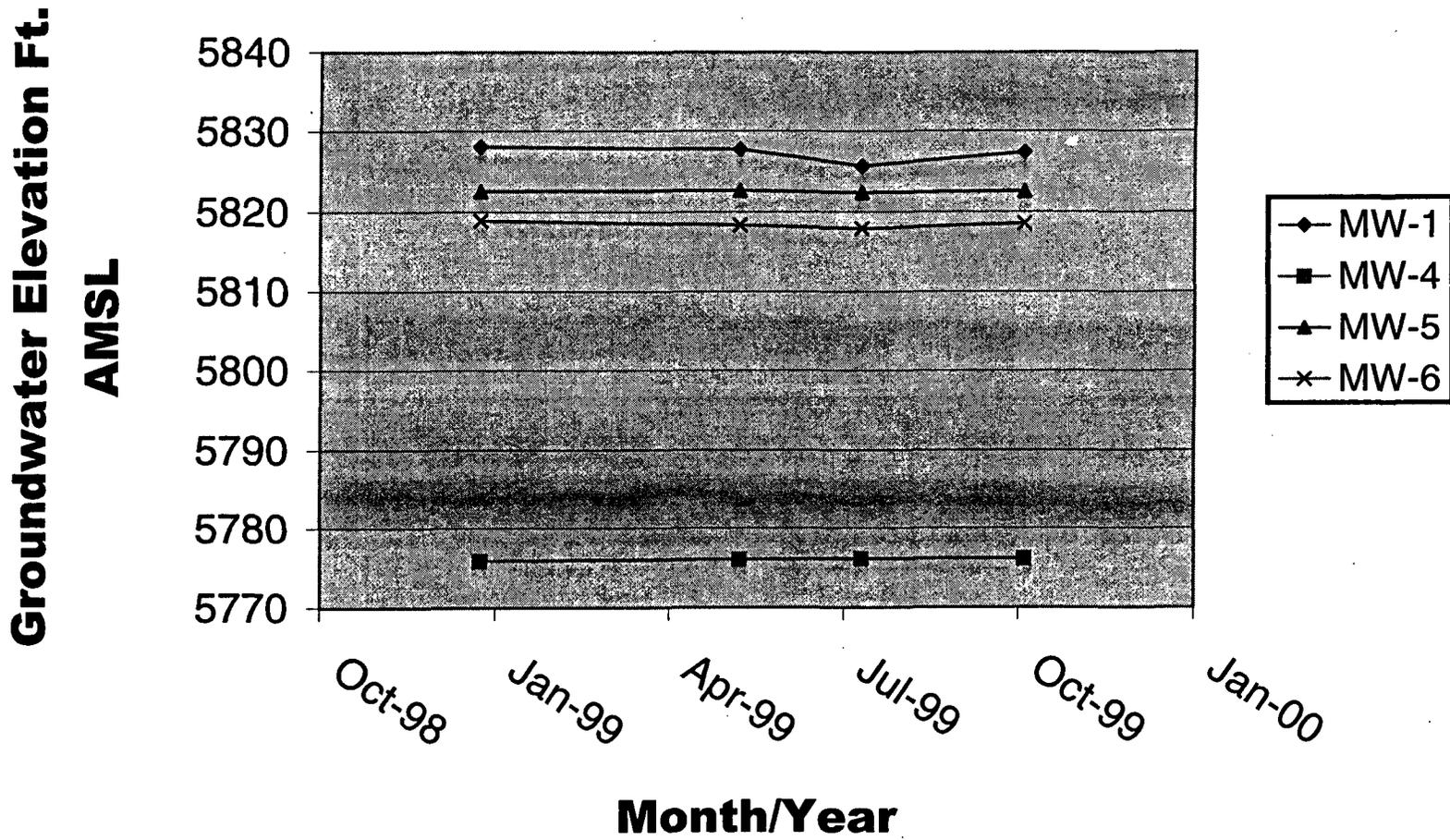


Figure 7.
Florance 44 Hydrograph



OFF: (505) 325-5667



REC'D 1/27/99
(included in 1999
Annual Report)
JMC 1/27/99
LAB: (505) 325-1556

January 21, 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

1st Quarter 1999

RE: Florance 44

Order No.: 9901005

Dear Maureen Gannon,

On Site Technologies, LTD. received 4 samples on 1/12/99 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 black ink, appearing to read "David Cox", written in a cursive style.

David Cox

OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 21-Jan-99

CLIENT: PNM - Public Service Company of NM

Project: Florance 44

Lab Order: 9901005

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: 21-Jan-99

Client:	PNM - Public Service Company of NM	Client Sample Info:	Florance 44
Work Order:	9901005	Client Sample ID:	9901121030; MW-4
Lab ID:	9901005-01A	Matrix:	AQUEOUS
Project:	Florance 44	Collection Date:	1/12/99 10:30:00 AM
		COC Record:	7462

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

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

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 21-Jan-99

Client:	PNM - Public Service Company of NM	Client Sample Info:	Florance 44
Work Order:	9901005	Client Sample ID:	9901121050; MW-5
Lab ID:	9901005-02A	Matrix:	AQUEOUS
Project:	Florance 44	Collection Date:	1/12/99 10:50:00 AM
		COC Record:	7462

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
BTEX		SW8021B				Analyst: HR
Benzene	1.5	0.5		µg/L	1	1/13/99
Toluene	1.9	0.5		µg/L	1	1/13/99
Ethylbenzene	1.9	0.5		µg/L	1	1/13/99
m,p-Xylene	6.8	1		µg/L	1	1/13/99
o-Xylene	ND	0.5		µg/L	1	1/13/99

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 -

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 21-Jan-99

Client:	PNM - Public Service Company of NM	Client Sample Info:	Florance 44
Work Order:	9901005	Client Sample ID:	9901121110; MW-6
Lab ID:	9901005-03A	Matrix:	AQUEOUS
Project:	Florance 44	Collection Date:	1/12/99 11:10:00 AM
		COC Record:	7462

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

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

OFF: (505) 325-5667



LAB: (505) 325-1556

Duplicate of MW-6

ANALYTICAL REPORT

Date: 21-Jan-99

Client: PNM - Public Service Company of NM	Client Sample Info: Florance 44
Work Order: 9901005	Client Sample ID: 9901121130; MW-7
Lab ID: 9901005-04A Matrix: AQUEOUS	Collection Date: 1/12/99 11:30:00 AM
Project: Florance 44	COC Record: 7462

Duplicate of MW-6

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

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



CHAIN OF CUSTODY RECORD

7462

Date: 1/12/99

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		Mailing Address: Alverado Square, Mail Stop 0408		City, State, Zip: Albuquerque, NM 87158							
	Company: PNM Gas Services		Dept. 324-3763		City, State, Zip: Albuquerque, NM 87158		Telephone No. 505-848-2974							
	Address: 603 W. Elm Street		City, State, Zip: Farmington, NM 87401		Telephone No. 505-848-2974		Telefax No.:							
	Address: 603 W. Elm Street		City, State, Zip: Farmington, NM 87401		Telephone No. 505-848-2974		Telefax No.:							
Sampling Location: Florange 44				Number of Containers	ANALYSIS REQUESTED									
Sampler: Mark Sikelianos					<div style="border: 1px solid black; width: 100%; height: 100%; background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px);"> BTEX 8020 </div>									
SAMPLE IDENTIFICATION		SAMPLE DATE							SAMPLE TIME		MATRIX		PRES.	
													LAB ID	
MW-4		9901121030									H₂O		Hcl	
MW-5		9901121050							H₂O		Hcl			
MW-6		9901121110				H₂O		Hcl						
MW-7		9901121130 Dup MW 6				H₂O		Hcl						
Relinquished by: <i>[Signature]</i>				Date/Time: 1/12/99 1400		Received by: <i>[Signature]</i>				Date/Time: 1/12/99 1400				
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: <i>[Signature]</i>				Date: 1/12/99						Results to be sent to both parties.				
(Client Signature Must Accompany Request)														

OFF: (505) 325-5667



LAB: (505) 325-1556

June 08, 1999

RECEIVED
JUN 09 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

RE: Florance 44

Order No.: 9905091

Dear Maureen Gannon,

On Site Technologies, LTD. received 5 samples on 5/26/99 for the analyses presented in the following report.

The Samples were analyzed for the following tests:
Aromatic Volatiles by GC/PID (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 black ink, appearing to read "David Cox", written over a horizontal line.

David Cox

OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 08-Jun-99

CLIENT: PNM - Public Service Company of NM
Project: Florance 44
Lab Order: 9905091

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.



ANALYTICAL REPORT

Date: 08-Jun-99

Client:	PNM - Public Service Company of NM	Client Sample Info:	Florance 44
Work Order:	9905091	Client Sample ID:	9905260740; MW-1
Lab ID:	9905091-01A	Matrix:	AQUEOUS
Project:	Florance 44	Collection Date:	5/26/99 7:40:00 AM
		COC Record:	7044

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B		Analyst: DC		
Benzene	ND	0.5		µg/L	1	6/3/99
Toluene	ND	0.5		µg/L	1	6/3/99
Ethylbenzene	ND	0.5		µg/L	1	6/3/99
m,p-Xylene	ND	1		µg/L	1	6/3/99
o-Xylene	ND	0.5		µg/L	1	6/3/99

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

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 08-Jun-99

Client:	PNM - Public Service Company of NM	Client Sample Info:	Florance 44
Work Order:	9905091	Client Sample ID:	9905260810; MW-4
Lab ID:	9905091-02A	Matrix:	AQUEOUS
Project:	Florance 44	Collection Date:	5/26/99 8:10:00 AM
		COC Record:	7044

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B				Analyst: DC
Benzene	ND	0.5		µg/L	1	6/3/99
Toluene	ND	0.5		µg/L	1	6/3/99
Ethylbenzene	ND	0.5		µg/L	1	6/3/99
m,p-Xylene	ND	1		µg/L	1	6/3/99
o-Xylene	ND	0.5		µg/L	1	6/3/99

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

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -



ANALYTICAL REPORT

Date: 08-Jun-99

Client:	PNM - Public Service Company of NM	Client Sample Info:	Florance 44
Work Order:	9905091	Client Sample ID:	9905260850; MW-5
Lab ID:	9905091-03A	Matrix:	AQUEOUS
Project:	Florance 44	Collection Date:	5/26/99 8:50:00 AM
		COC Record:	7044

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B				Analyst: DC
Benzene	ND	0.5		µg/L	1	6/3/99
Toluene	ND	0.5		µg/L	1	6/3/99
Ethylbenzene	ND	0.5		µg/L	1	6/3/99
m,p-Xylene	ND	1		µg/L	1	6/3/99
o-Xylene	ND	0.5		µg/L	1	6/3/99

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

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -



ANALYTICAL REPORT

Date: 08-Jun-99

Client:	PNM - Public Service Company of NM	Client Sample Info:	Florance 44
Work Order:	9905091	Client Sample ID:	9905260923; MW-6
Lab ID:	9905091-04A	Matrix:	AQUEOUS
Project:	Florance 44	Collection Date:	5/26/99 9:23:00 AM
		COC Record:	7044

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B				Analyst: DC
Benzene	ND	0.5		µg/L	1	6/3/99
Toluene	ND	0.5		µg/L	1	6/3/99
Ethylbenzene	ND	0.5		µg/L	1	6/3/99
m,p-Xylene	ND	1		µg/L	1	6/3/99
o-Xylene	ND	0.5		µg/L	1	6/3/99

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

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 08-Jun-99

Client:	PNM - Public Service Company of NM	Client Sample Info:	Florance 44
Work Order:	9905091	Client Sample ID:	9905260953; MW-7
Lab ID:	9905091-05A	Matrix:	AQUEOUS
Project:	Florance 44	Collection Date:	5/26/99 9:53:00 AM
		COC Record:	7044

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B				Analyst: DC
Benzene	ND	0.5		µg/L	1	6/3/99
Toluene	ND	0.5		µg/L	1	6/3/99
Ethylbenzene	ND	0.5		µg/L	1	6/3/99
m,p-Xylene	ND	1		µg/L	1	6/3/99
o-Xylene	ND	0.5		µg/L	1	6/3/99

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



CHAIN OF CUSTODY RECORD

Date: 5/26/99

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		Mailing Address Alverado Square, Mail Stop 0408							
	Company PNM Gas Services Dept. 324-3763		Mailing Address Alverado Square, Mail Stop 0408		City, State, Zip Albuquerque, NM 87158							
	Address 603 W. Elm Street		City, State, Zip Albuquerque, NM 87158		Telephone No. 505-848-2974 Telefax No.							
	City, State, Zip Farmington, NM 87401		City, State, Zip Albuquerque, NM 87158		Telephone No. 505-848-2974 Telefax No.							
Sampling Location: Florange #4				Number of Containers	ANALYSIS REQUESTED							
Sampler: R Dedrick					/							
SAMPLE IDENTIFICATION					SAMPLE		MATRIX		PRES.		LAB ID	
		DATE	TIME									
9905260740	MW-1	5/26/99	0741		H₂O	HCl	2	X				
9905260810	MW-4	5/26/99	0810		H₂O	HCl	2	X				
9905260850	MW-5	5/26/99	0850		H₂O	HCl	2	X				
9905260923	MW-6	5/26/99	0923		H₂O	HCl	2	X				
9905260953	MW-7	5/26/99	0953		H₂O	HCl	2	X				
Relinquished by: Ronald A. Dedrick					Date/Time 5/26/99 1450		Received by: Maureen Gannon				Date/Time 5/26/99 1450	
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		10 Working Days		
Authorized by: Ronald A. Dedrick Date 5/26/99 <small>(Client Signature Must Accompany Request)</small>						Results to be sent to both parties.						

OFF: (505) 325-5667



LAB: (505) 325-1556

August 27, 1999

RECEIVED

SEP 01 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

RE: Florance 44

Order No.: 9907068

Dear Maureen Gannon,

On Site Technologies, LTD. received 2 samples on 07/28/1999 for the analyses presented in the following report.

The Samples were analyzed for the following tests:

Aromatic Volatiles by GC/PID (SW8021B)

Mercury, Dissolved (SW7470)

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", is written over a horizontal line.

David Cox

OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 27-Aug-99

CLIENT: PNM - Public Service Company of NM
Project: Florance 44
Lab Order: 9907068

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.

Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, March 1983.

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives.



ANALYTICAL REPORT

Date: 27-Aug-99

Client:	PNM - Public Service Company of NM	Client Sample Info:	Florance 44
Work Order:	9907068	Client Sample ID:	9907281111; MW-5
Lab ID:	9907068-01A	Matrix:	AQUEOUS
Project:	Florance 44	Collection Date:	07/28/1999 11:11:00 AM
		COC Record:	7052

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B		Analyst: DC		
Benzene	ND	0.5		µg/L	1	08/04/1999
Toluene	ND	0.5		µg/L	1	08/04/1999
Ethylbenzene	ND	0.5		µg/L	1	08/04/1999
m,p-Xylene	ND	1		µg/L	1	08/04/1999
o-Xylene	ND	0.5		µg/L	1	08/04/1999

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

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 27-Aug-99

Client:	PNM - Public Service Company of NM	Client Sample Info:	Florance 44
Work Order:	9907068	Client Sample ID:	9907281133; MW-6
Lab ID:	9907068-02A	Matrix:	AQUEOUS
Project:	Florance 44	Collection Date:	07/28/1999 11:33:00 AM
		COC Record:	7052

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B			Analyst: DC	
Benzene	ND	0.5		µg/L	1	08/04/1999
Toluene	ND	0.5		µg/L	1	08/04/1999
Ethylbenzene	ND	0.5		µg/L	1	08/04/1999
m,p-Xylene	ND	1		µg/L	1	08/04/1999
o-Xylene	ND	0.5		µg/L	1	08/04/1999

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

ACZ Laboratories, Inc.
 2773 Downhill Drive
 Steamboat Springs, CO 80487
 (800) 334-5493

Florance 44 9907281111; MW-5

Lab Sample ID: **L24154-01**
 Client Sample ID: **9907068-01B**
 Client Project ID:
 ACZ Report ID: **RG99025**

On Site Technologies, LTD.
 612 E Murray Dr
 Farmington, NM 87499
 David Cox

Date Sampled: **7/28/99 11:11:00 AM**
 Date Received: **7/30/99**
 Date Reported: **8/16/99**

Sample Matrix: **Ground Water**

Metals Analysis

Parameter	EPA Method	Result	Qual	Units	MDL	PQL	Date	Analyst
Mercury, dissolved	M245.1 CVAA	0.0003	B	mg/L	0.0002	0.001	8/14/99	ms

Inorganic Qualifiers (based on EPA CLP 3/90)

U = Analyte was analyzed for but not detected at the indicated MDL
 B = Analyte concentration detected at a value between MDL and PQL
 PQL = Practical Quantitation Limit

S. Hansen for
 Vice President of Operations: Ralph Poulsen

SAMPLE RECEIPT FORM

CLIENT:

ON SITE

DATE

7/30/99

PROJECT #:

L241574
DIST

1) Does this project require special handling procedures such as CLP protocol?	<input checked="" type="radio"/> NA	YES	NO
2) Are the custody seals on the cooler intact?	<input checked="" type="radio"/> NA	YES	NO
3) Are the custody seals on the sample containers intact?	<input checked="" type="radio"/> NA	YES	NO
4) Is there a Chain of Custody (COC), or other directive shipping papers present?		<input checked="" type="radio"/> YES	NO
5) Is the COC complete? Relinquished? Yes ___ No ___ Requested Analysis? Yes ___ No ___		<input checked="" type="radio"/> YES	NO
6) Is the COC in agreement with the samples received? # of Samples: Yes ___ No ___ Sample ID: Yes ___ No ___ Matrix: Yes ___ No ___ # of Containers: Yes ___ No ___		<input checked="" type="radio"/> YES	NO
7) Is there enough sample for all requested analysis?		<input checked="" type="radio"/> YES	NO
8) Are all samples within holding times for requested analysis?		<input checked="" type="radio"/> YES	NO
9) Were all sample containers received intact?		<input checked="" type="radio"/> YES	NO
10) Are samples requiring no headspace, headspace free?	<input checked="" type="radio"/> NA	YES	NO
11) Do the samples require a Foreign Soils Permit Label or quarantine?		YES	<input checked="" type="radio"/> NO
12) Do samples require special disposal/hold considerations? Non-Hazardous: Yes ___ No ___ Hazardous: Yes ___ No ___ Hold: ___ months			

Describe "NO" items (except #1, 11, & 12):

Was the client contacted? Yes ___ No ___

If yes: Date: _____

Name of person contacted: _____

Actions taken or client instructions:

Signature:

Dalva



CHAIN OF CUSTODY RECORD

7052

Date: 7/28/99

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, Mall 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 44				Number of Containers	ANALYSIS REQUESTED				
Sampler: R. D. Decker					<div style="display: flex; justify-content: space-between;"> BTEX-SOLUB Disolve Mercury </div>				
SAMPLE IDENTIFICATION		SAMPLE			MATRIX		PRES.		LAB ID
		DATE	TIME						
9907281111	MW-5	7/28/99	1111		H₂O	HCl	2	X	
9907281133	MW-6	7/28/99	1133		H₂O	HCl	2	X	
9907281111	MW-5	7/28/99	1111		H₂O	Dco	1	X	
9907281133	MW-6	7/28/99	1133		H₂O	Dco	1	X	
Relinquished by: Ronald A. Decker		Date/Time: 7/28/99 1527		Received by: Maureen Gannon		Date/Time: 7/28/99 1527			
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	10 Working Days	Special Instructions:		
Authorized by: Ronald A. Decker Date: 7/28/99 (Client Signature <u>Must</u> Accompany Request)								Results to be sent to both parties.	

OFF: (505) 325-5667



LAB: (505) 325-1556

November 01, 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

NOV 05 1999
RECEIVED

RE: Florance #44

Order No.: 9910033

Dear Maureen Gannon,

On Site Technologies, LTD. received 5 samples on 10/20/99 for the analyses presented in the following report.

The Samples were analyzed for the following tests:
Aromatic Volatiles by GC/PID (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 black ink, appearing to read "David Cox", written in a cursive style.

David Cox

OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 01-Nov-99

CLIENT: PNM - Public Service Company of NM

Project: Florance #44

Lab Order: 9910033

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: 01-Nov-99

Client:	PNM - Public Service Company of NM	Client Sample Info:	Florance #44
Work Order:	9910033	Client Sample ID:	9910201410; MW-1
Lab ID:	9910033-01A	Matrix:	AQUEOUS
Project:	Florance #44	Collection Date:	10/20/99 2:10:00 PM
		COC Record:	7741

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B			Analyst: DC	
Benzene	ND	0.5		µg/L	1	10/25/99
Toluene	ND	0.5		µg/L	1	10/25/99
Ethylbenzene	ND	0.5		µg/L	1	10/25/99
m,p-Xylene	ND	1		µg/L	1	10/25/99
o-Xylene	ND	0.5		µg/L	1	10/25/99

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

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -



ANALYTICAL REPORT

Date: 01-Nov-99

Client:	PNM - Public Service Company of NM	Client Sample Info:	Florance #44
Work Order:	9910033	Client Sample ID:	9910201435; MW-6
Lab ID:	9910033-02A	Matrix:	AQUEOUS
Project:	Florance #44	Collection Date:	10/20/99 2:35:00 PM
		COC Record:	7741

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B				Analyst: DC
Benzene	ND	0.5		µg/L	1	10/25/99
Toluene	ND	0.5		µg/L	1	10/25/99
Ethylbenzene	ND	0.5		µg/L	1	10/25/99
m,p-Xylene	ND	1		µg/L	1	10/25/99
o-Xylene	ND	0.5		µg/L	1	10/25/99

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

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 01-Nov-99

Client:	PNM - Public Service Company of NM	Client Sample Info:	Florance #44
Work Order:	9910033	Client Sample ID:	9910201450; MW-5
Lab ID:	9910033-03A	Matrix:	AQUEOUS
Project:	Florance #44	Collection Date:	10/20/99 2:50:00 PM
		COC Record:	7741

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B		Analyst: DC		
Benzene	ND	0.5		µg/L	1	10/25/99
Toluene	ND	0.5		µg/L	1	10/25/99
Ethylbenzene	ND	0.5		µg/L	1	10/25/99
m,p-Xylene	ND	1		µg/L	1	10/25/99
o-Xylene	ND	0.5		µg/L	1	10/25/99

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

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 01-Nov-99

Client:	PNM - Public Service Company of NM	Client Sample Info:	Florance #44
Work Order:	9910033	Client Sample ID:	9910201515; MW-4
Lab ID:	9910033-04A	Matrix:	AQUEOUS
Project:	Florance #44	Collection Date:	10/20/99 3:15:00 PM
		COC Record:	7741

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B			Analyst: DC	
Benzene	ND	0.5		µg/L	1	10/25/99
Toluene	ND	0.5		µg/L	1	10/25/99
Ethylbenzene	ND	0.5		µg/L	1	10/25/99
m,p-Xylene	ND	1		µg/L	1	10/25/99
o-Xylene	ND	0.5		µg/L	1	10/25/99

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

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 01-Nov-99

Client:	PNM - Public Service Company of NM	Client Sample Info:	Florance #44
Work Order:	9910033	Client Sample ID:	9910201530; MW-7
Lab ID:	9910033-05A	Matrix:	AQUEOUS
Project:	Florance #44	Collection Date:	10/20/99 3:30:00 PM
		COC Record:	7741

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B		Analyst: DC		
Benzene	ND	0.5		µg/L	1	10/25/99
Toluene	ND	0.5		µg/L	1	10/25/99
Ethylbenzene	ND	0.5		µg/L	1	10/25/99
m,p-Xylene	ND	1		µg/L	1	10/25/99
o-Xylene	ND	0.5		µg/L	1	10/25/99

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



CHAIN OF CUSTODY RECORD

7741

Date: 10/20/99

Page: 1 of 1

612 E. Murphy Dr. • P.O. Box 2608 • 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:								ANALYSIS REQUESTED	
Florence #44										
Sampler: Roy Bearden								Number of Containers (Diagonal lines)		
SAMPLE IDENTIFICATION				DATE	TIME	MATRIX	PRES.			LAB ID
9910201410	mw # 1	10/19/99	1410	H ₂ O	150	2	X			10/20/99
9910201435	mw # 6	10/19/99	1435	H ₂ O	110	2	X			10/20/99
9910201450	mw # 5	10/19/99	1450	H ₂ O	110	2	X			10/20/99
9910201515	mw # 4	10/19/99	1515	H ₂ O	110	2	X			10/20/99
9910201530	mw # 7	10/19/99	1530	H ₂ O	110	2	X			10/20/99
Relinquished by: <u>Roy Bearden</u>		Date/Time: <u>10/20/99 1613</u>		Received by: <u>Maureen Gannon</u>		Date/Time: <u>10/20/99 1615</u>				
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: <u>Roy Bearden</u> Date: <u>10/20/99</u> (Client Signature Must Accompany Request)								Results to be sent to both parties.		