

District I
P.O. Box 1980, Hobbs, NM
District II
P.O. Drawer DD, Artesia, NM
88211
District III
1000 Rio Brazos Rd, Aztec,
NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION
P.O. Box 2088

Santa Fe, New Mexico 87504-2088

04-0150-1
12/13/00
SUBMIT 1 COPY TO
APPROPRIATE
DISTRICT OFFICE
AND 1 COPY TO

SANTA FE OFFICE

(Revised 3/9/94)

PIT REMEDIATION AND CLOSURE REPORT

Operator: Conoco Inc Telephone: (505) 325-5813

Address: 3315 Bloomfield Highway Farmington, New Mexico 87401

Facility Or: Farmington Com #1

Well Name

Location: Unit or Qtr/Qtr Sec: P Sec 11 T29N R13W County: San Juan

Pit Type: Separator Dehydrator Other

Land Type: BLM: , State: , Fee: , other

Pit Location: Pit dimensions: length: , width: , depth
(Attach diagram)

Reference: wellhead: , other: **See Attached Report**

Footage from reference:

Direction from reference: Degrees East North
of
 West South

Depth To Ground Water:

(Vertical distance from
contaminants to seasonal
high water elevation of
ground water)

Less than 50 feet (20 points)
50 feet to 99 feet (10 points)
Greater than 100 feet (0 points) 20

Wellhead Protection Area:

(Less than 200 feet from a private
domestic water source, or; less than
1000 feet from all other water sources)

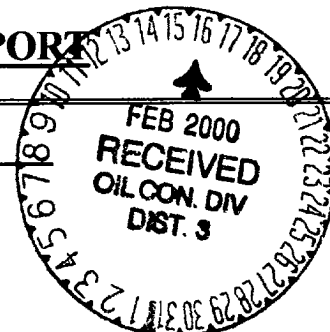
Yes (20 points)
No (0 points) 20

Distance To Surface Water:

(Horizontal distance to perennial
lakes, ponds, rivers, streams, creeks,
irrigation canals and ditches)

Less than 200 feet (20 points)
200 feet to 1000 feet (10 points)
Greater than 1000 feet (0 points)
20

RANKING SCORE (TOTAL POINTS): 60



Date Remediation Started: _____ Date Completed: _____

Remediation Method: Excavation _____ Approx. cubic yards _____
(Check all appropriate sections)

Landfarmed _____ Insitu Bioremediation _____

Other _____

Remediation Location: Onsite _____ Offsite _____
(ie. landfarmed onsite, name and location of offsite facility)

General Description Of Remedial Action:

Refer to Attached Report

Ground Water Encountered: No _____ Yes _____ Depth _____

Final Pit:

Sample location

Closure Sampling:

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

Refer to attached report for Sampling and laboratory results.

Sample depth

Sample Date

Sample Time

Sample Results

Benzene (ppm) _____

Total BTEX (ppm) _____

Field headspace (ppm) _____

TPH _____

Ground Water Sample: Yes _____ No _____ (If yes, attach sample results)

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

DATE: 2/10/00

SIGNATURE

Shirley A. Ebert

PRINTED NAME

Shirley A. EBERT

TITLE

FSE



January 4, 2000

Conoco, Inc., Mid-Continent Region
Attn.: Ms. Shirley Ebert, Field SHEAR Specialist
3314 Bloomfield Hwy.
Farmington, NM 87401

RE: 1999 Annual Ground Water and Final Closure Report
Conoco Location: Farmington COM #1
Unit P, Sec. 11, T29N, R13W, NMPM, San Juan Co., NM

Project #: 4-1372

The following report summarizes the ground water remediation and monitoring activities conducted by On Site Technologies Limited Partnership and/or others on behalf of Conoco, Inc., at the referenced oil and gas location. This report covers the calendar year of 1999, and follows the format outlined in the *Comprehensive Ground Water Remediation and Long-Term Monitoring Plan for Conoco Locations in the San Juan Basin, New Mexico*, submitted to the New Mexico Oil Conservation Division on October 15, 1997.

SUMMARY OF ACTIVITIES:

In 1997 a site assessment was conducted at the Farmington Com #1. The site assessment determined that hydrocarbon contaminated was present and that the location would have to be excavated and quarterly groundwater monitoring would have to be conducted.

In December of 1997 excavation of the site was done, approximately 1400 cubic yards of petroleum contaminated soil was removed. The excavated location was backfilled with clean imported soil. During the excavation monitoring well MW #1, that was installed in April, 1997, was removed and a new monitoring well was placed in the excavated site and designated MW #1. Summaries of the excavation and remediation activities were previously reported. References list at the end of this report.

In September 1998, NMOCD modified the sampling requirements for the referenced location as follows

- MMW #2 and MW #3 were to placed deeper into the water table
- Install a piezometer down gradient of MW #1
- Develop and sample piezometer, if laboratory result at or below NMWQCC standards discontinue sampling.

During December 1998 all of NMOCD's requirements were incorporated in to the location. 1998 groundwater monitoring results indicated a downward trend in levels of BTEX contamination levels.

1999 ground water monitoring was conducted in March, June, September and December. Laboratory results show BTEX levels below NMWQCC standards for the last four (4) consecutive quarters.

PO Box 2606
Farmington, NM

505-325-5667

FAX: 505-327-1496

SAMPLING:

In accordance with the Monitoring plan, water levels were measured on all monitoring wells prior to purging and sampling. Samples were collected, preserved and transported in accordance with Environmental Protection Agency (EPA) prescribed procedures and proper chain-of-custody protocol followed. The laboratory analyses ordered, followed the Conoco Ground Water Plan.

Table 1, summarizes the monitoring well data and water levels measured during previous and current sampling events. Table 2, summarizes the laboratory results for BTEX compounds from all water sampling completed at the referenced site. Table 3, summarizes the laboratory results for metal contamination from MW#1.

Copies of all laboratory reports for calendar year 1999, along with all laboratory QA/QC documentation and chains-of-custody, are attached with this report. Previous laboratory results were submitted to NMOCD.

CONCLUSIONS:

The following conclusions are based on the 1998 ground water monitoring results and trends associated with a former production pit at the Farmington Com #1 well location:

- BTEX contamination levels are below NMWQCC standard for MW#1, MW#2 and MW#3 for the last four (4) sampling events.
- The site is in compliance with NMWQCC water quality standards and should be considered stable.

RECOMMENDATION:

In accordance with the Conoco's Comprehensive Ground Water Remediation and Long Term Monitoring for Conoco Location in the San Juan Basin, New Mexico, four (4) consecutive quarters of water quality at or below NMWQCC standards had been met, and no further action should be taken at the referenced location.

On behalf of Conoco Inc., On Site Technologies Limited Partnership requests that the reference location be closed and that the monitoring wells and piezometer be plugged and abandoned in accordance with current regulations

LIMITATIONS AND CLOSURE:

This annual groundwater and final closure report documents the results of ground water monitoring for the referenced Conoco well location during the calendar year 1999 and summarizes previous remediation and ground water monitoring activities. This report follows the Comprehensive Ground Water Remediation and Long-Term Monitoring Plan for Conoco Locations in the San Juan Basin, New Mexico, dated October 15, 1997.

The scope of On Site Technologies' services consisted of project management, periodic water sampling and measurement of water levels, laboratory testing for ground water quality, and preparation of this report. All work has been performed in accordance with generally accepted professional practices in geotechnical, petroleum and environmental engineering, and hydrogeology.

This document has been prepared by On Site Technologies for the exclusive use of Conoco Inc., as it pertains to the referenced well location operated by Conoco.

If there are any questions regarding this status report, please contact either Myke Lane or Larry Trujillo at On Site Technologies, (505) 325-5667. Thank you for your consideration.

Respectfully submitted,

Reviewed by:



Larry Trujillo, C.H.M.M.
Project Manager



Michael K. Lane, P.E.
Senior Engineer

On Site Technologies, Limited Partnership

Attachments: Table 1: Monitoring Well Details and Ground Water Levels Summary
Table 2: Ground Water BTEX Analytical Summary
Table 3: Other Constituents Analytical Summary
Figure 1: Site Sketch
Figure 2, 3, 4 & 5 Ground Water Potentiometric Map
Laboratory Results, QA/QC, Chain of Custody

REFERENCES:

On Site Technologies, Ltd., April 16, 1997: Letter to Mr. W. L. Brignon, Senior Council Conoco, Inc. Midland Division, regarding: *Site Assessment, Conoco Location, Farmington Com #1, Unit P, Sec. 11, T29N, R13W, NMPM, San Juan Co., NM.*

On Site Technologies, Ltd., January 16, 1998: Letter to Mr. Neal Goates, Senior Environmental Specialist, Conoco, Inc. Midland Division, regarding: *Remediation Summary, Conoco Location, Farmington Com #1, Unit P, Sec. 11, T29N, R13W, NMPM, San Juan Co., NM.*

On Site Technologies, Ltd., February 1, 1998: Letter to Ms. Shirley Ebert, SHEAR Specialist, Conoco, Inc. Midland Division, regarding: *1997 Annual Ground Water Report, Conoco Location, Farmington Com #1, Unit P, Sec. 11, T29N, R13W, NMPM, San Juan Co., NM.*

On Site Technologies, Ltd., February 8, 1999: Letter to Ms. Shirley Ebert, SHEAR Specialist, Conoco, Inc. Midland Division, regarding: *1998 Annual Ground Water Report, Conoco Location, Farmington Com #1, Unit P, Sec. 11, T29N, R13W, NMPM, San Juan Co., NM.*

Table 1
Ground Water Level Summary
Farmington COM #1
Unit P, Sec. 11, T29N, R13W

Well Number	Top of Casing Elevation* (ft)	Total Depth of Well (ft)	Well Type	Screen Interval (ft) (BGS)	Sample Date	Depth to Groundwater (ft) (BTOC)	Relative Groundwater Elevation (ft)
MW#1	99.84	9.82	2" PVC	4.82 to 9.82	12/30/97	7.49	92.35
					3/13/97	7.37	92.47
					6/12/98	6.43	92.37
					9/15/98	8.35	91.49
	99.79				12/28/98	6.44	93.35
					3/2/99	7.46	92.33
					6/7/99	6.14	93.65
					9/4/99	7.56	92.23
					12/15/99	7.73	92.03
MW#2	98.80	7.84	2" PVC	2.84 to 7.84	12/30/97	6.75	92.05
					3/13/98	6.77	92.03
					6/12/98	No Measurable Water	
	99.40				9/15/98	No Measurable Water	
					12/28/98	7.34	92.06
					3/2/99	7.44	91.96
					6/7/99	6.24	93.16
					9/4/99	7.42	91.98
					12/15/99	7.62	91.78
MW#3	98.98	6.25'	2" PVC		12/30/97	No Measurable Water	
					3/13/98	5.21	93.77
					6/12/98	5.93	93.05
					9/15/98	No Measurable Water	
	99.56				12/28/98	7.46	92.14
					3/2/99	7.56	92.02
					6/7/99	6.32	93.26
					9/4/99	7.54	92.04
					12/15/99	7.71	91.87

BGS - approximate measurements taken at Below Ground Surface
BTOC - Below Top of Casing
NM - Not Measured

Table 1
Ground Water Level Summary
Farmington COM #1
Unit P, Sec. 11, T29N, R13W

Well Number	Top of Casing Elevation* (ft)	Total Depth of Well (ft)*	Well Type	Screen Interval (ft) (BGS)*	Sample Date	Depth to Groundwater (ft) (BTDC)*	Relative Groundwater Elevation (ft)
Piezometer	100.38	10.01	2" PVC	4.01 to 10.01	12/28/98	8.36	92.02
					3/2/99	8.43	91.95
					6/7/99	7.16	93.22
					9/4/99	8.38	92.00
					12/15/99	8.52	91.86
BGS - approximate measurements taken as Below Ground Surface BTDC - Below Top of Casing NM - Not Measured							

- Monitoring Well found broken off below ground level 6/12/98
- 1. Depth measured on 6/12/98 with water in the well
- Location re-surveyed on 12/31/98, MW-1 elevation change due to gas well site activity, all other are due to resetting of well and installation of piezometer.

Table 2
 BTEX Analytical Summary
 Farmington COM #1
 Unit P, Sec. 11, T29N, R13W

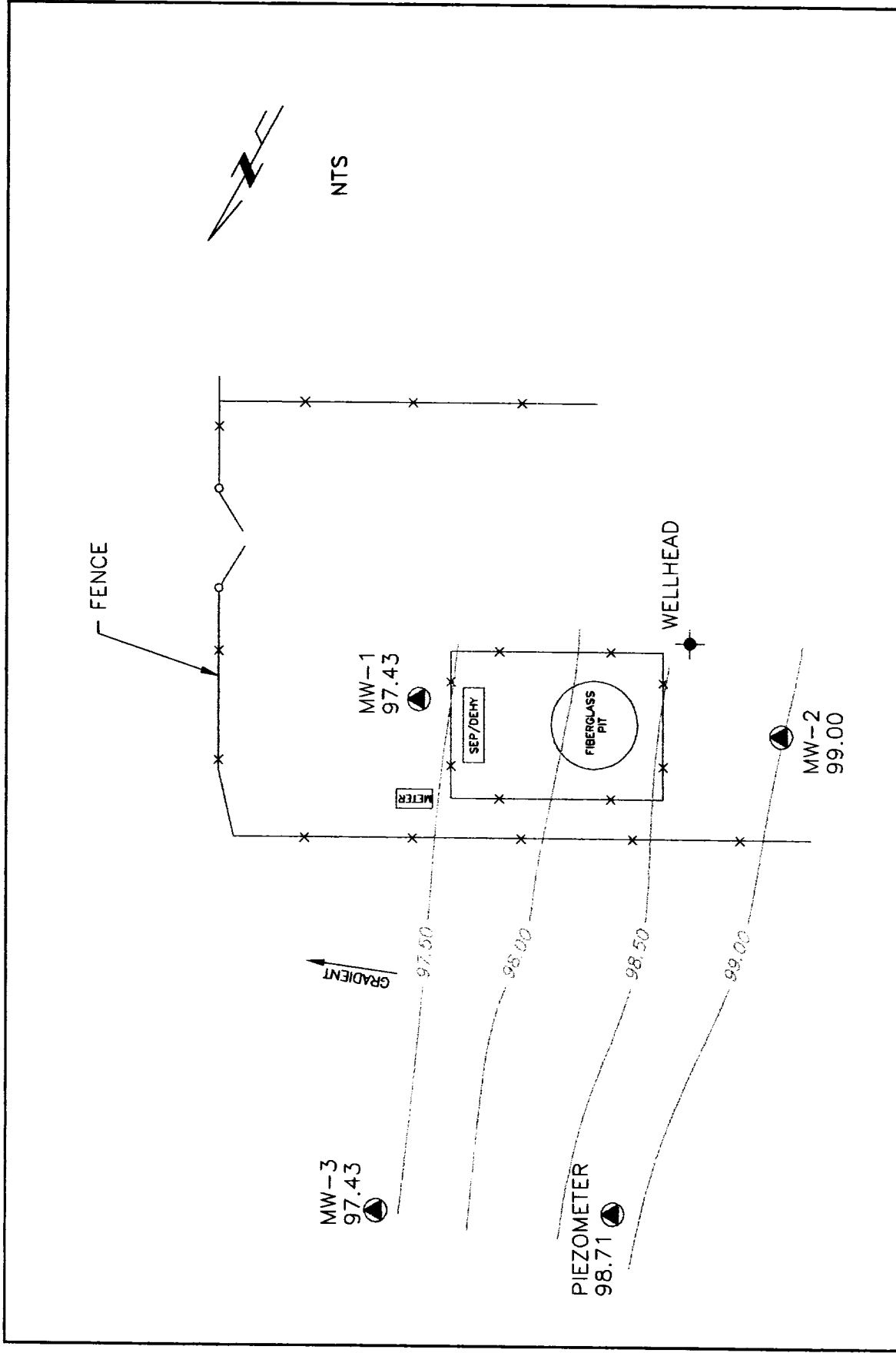
Sample Date	Sample ID#	Monitor Well	Remarks	BTEX per EPA 8020 (ppb)				
				Benzene	Toluene	Ethylbenzene	Total Xylene	
12/30/97	17250	MW #1	On Site Lab.	35.3	5.2	10.7	472.9	
3/13/98	9803043-01A	MW#1		BDL	5.4	1.8	12.0	
6/12/98	9806054-01A	MW#1		BDL	BDL	BDL	BDL	
9/15/98	9809033-01A	MW#1		BDL	1.1	1.6	BDL	
12/28/98	9812050-02A	MW#1		BDL	BDL	0.7	0.6	
3/2/99	9903009-01A	MW#1		BDL	BDL	BDL	BDL	
6/7/99	9906021-03A	MW#1		BDL	BDL	BDL	BDL	
9/14/99	9909048-03A	MW#1		BDL	1.2	BDL	BDL	
12/15/99	9912020-02A	MW#1		BDL	0.7	BDL	BDL	
12/31/97	17253	MW #2	On Site Lab.	BDL	BDL	BDL	BDL	
3/13/98	9803043-02A	MW#2		BDL	BDL	BDL	BDL	
6/12/98	WELL	DAMAGED						
9/15/98			No Measurable Water					
12/29/98	9812052-01A	MW#2		BDL	BDL	BDL	BDL	
3/2/99	9903013-01A	MW#2		BDL	BDL	4.3	85.0	
6/7/99	9906021-002A	MW#2		BDL	BDL	BDL	BDL	
9/14/99	9909048-02A	MW#2		BDL	1.0	BDL	BDL	
12/15/99	9912020-01A	MW#2		BDL	0.9	BDL	BDL	
WQCC	ACTION	LEVELS		10.0	750.0	750.0	620.0	

BDL Below Detection Levels

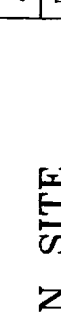
Table 2
 BTEX Analytical Summary
 Farmington COM #1
 Unit P, Sec. 11, T29N, R13W

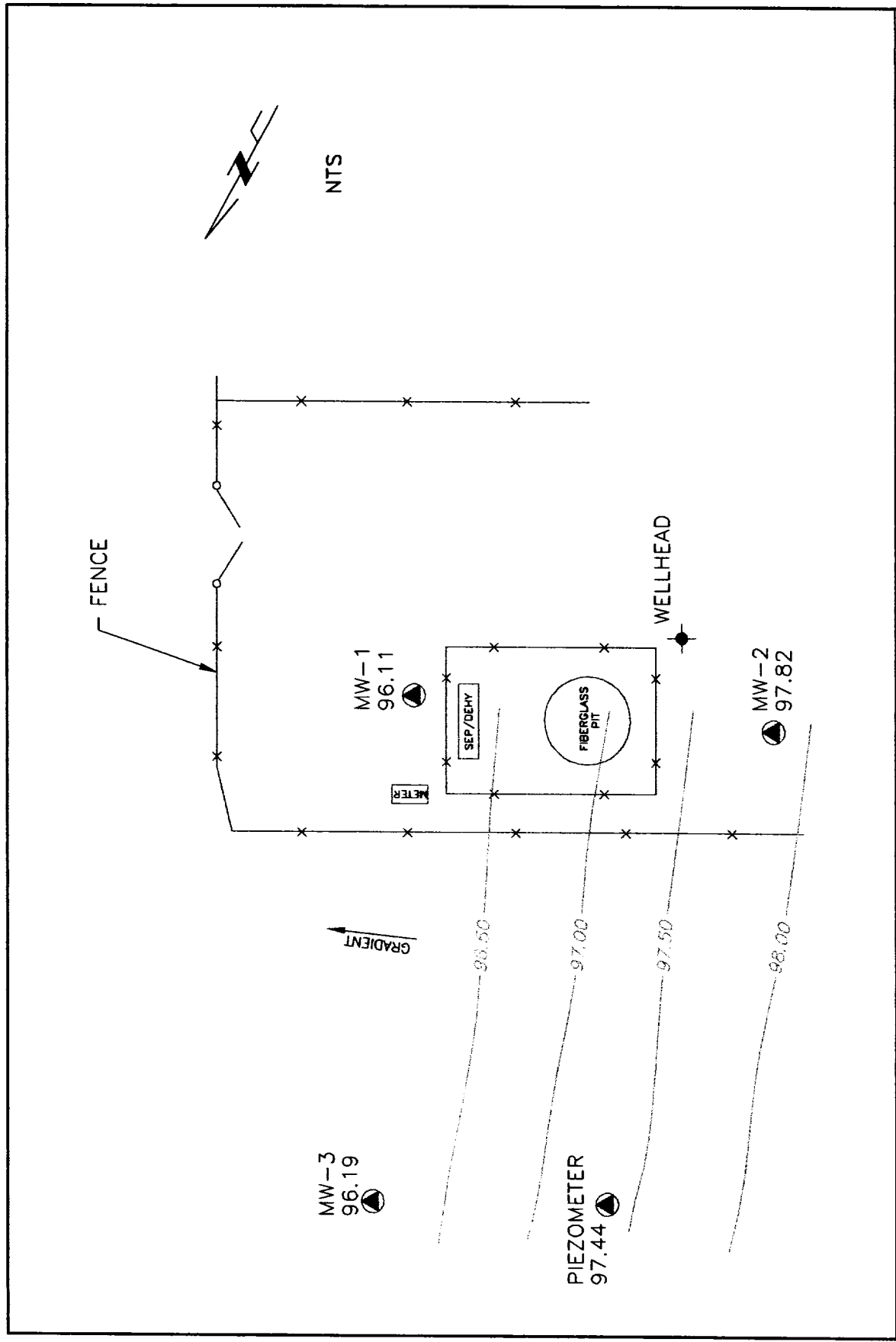
Sample Date	Sample ID#	Monitor Well	Remarks	BTEX per EPA 8020 (ppb)			
12/30/97	No Sample	MW #3	No Measurable Water				
3/13/98	No Sample		No Measurable Water				
6/12/98	9806054-02A		On Site Lab	BDL	BDL	BDL	BDL
9/15/98			No Measurable Water				
12/29/98	9812052-02A	MW #3		BDL	1.6	BDL	BDL
3/2/99	903009-02A	MW #3		BDL	BDL	BDL	BDL
6/7/99	9906021-01A	MW #3		BDL	BDL	BDL	BDL
9/14/99	9909048-01A	MW #3		BDL	BDL	BDL	BDL
12/16/99	9912023-01A	MW #3		BDL	BDL	BDL	BDL
12/28/98	9812050-01A	Piezometer	On Site Lab.	BDL	BDL	BDL	BDL
WQCC	ACTION	LEVELS		10.0	750.0	750.0	820.0

BDL Below Detection Levels



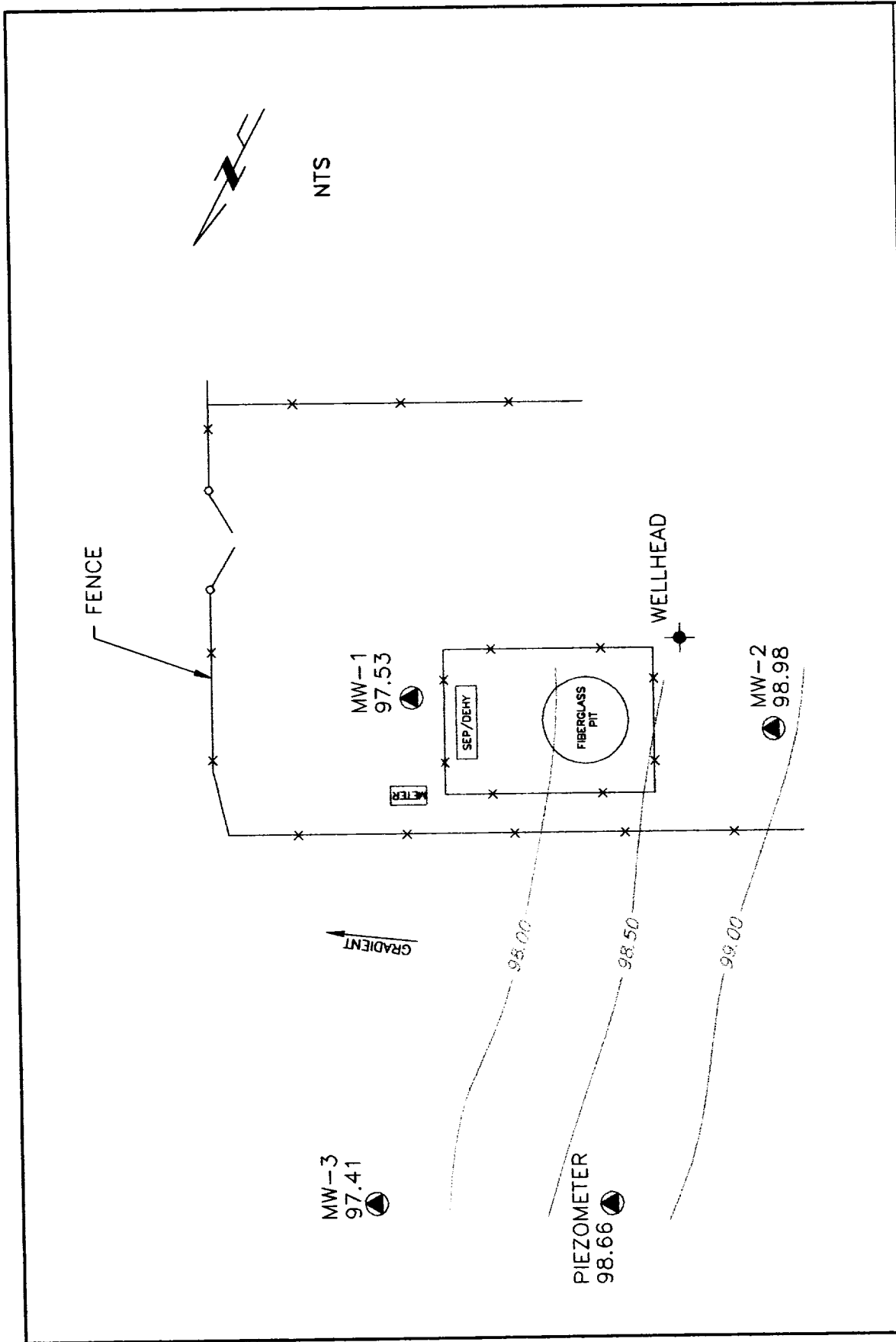
41372/cool.dwg

 ON SITE TECHNOLOGIES, LTD. Limited Partnership 612 E. MURRAY DR. PH. (505) 888-6667 FARMINGTON, NM 87401 FAX (505) 887-1496			APPROVED:	DATE:	GROUND WATER POTENTIOMETRIC MAP - MARCH, 1999 FARMINGTON COM #1 UNIT P, SEC. 11, T29N, R13W, N4PM SAN JUAN COUNTY, NEW MEXICO
DRWN BY: MED	DATE: 1/17/00				
CHK'D BY:	DATE:				
PROJECT NO: 4-1372	SHEET: 1 OF 4				



41372/coo2.dwg

GROUND WATER POTENTIOMETRIC MAP - JUNE, 1999 FARMINGTON COM #1 UNIT P, SEC. 11, T29N, R13W, NMPM SAN JUAN COUNTY, NEW MEXICO		APPROVED: DATE:	
ON SITE TECHNOLOGIES, LTD. United Partnership 612 E. MURRAY DR. PH. (505) 826-6667 FARMINGTON, NM 87401 FAX (505) 827-1496		DRWN BY: MED DATE: 1/17/00	
PROJECT NO: 4-1372		CHK'D BY: DATE:	
SHEET: 2 OF 4		DATE:	



GROUND WATER POTENTIOMETRIC MAP - SEPTEMBER, 1999

FARMINGTON COM #1

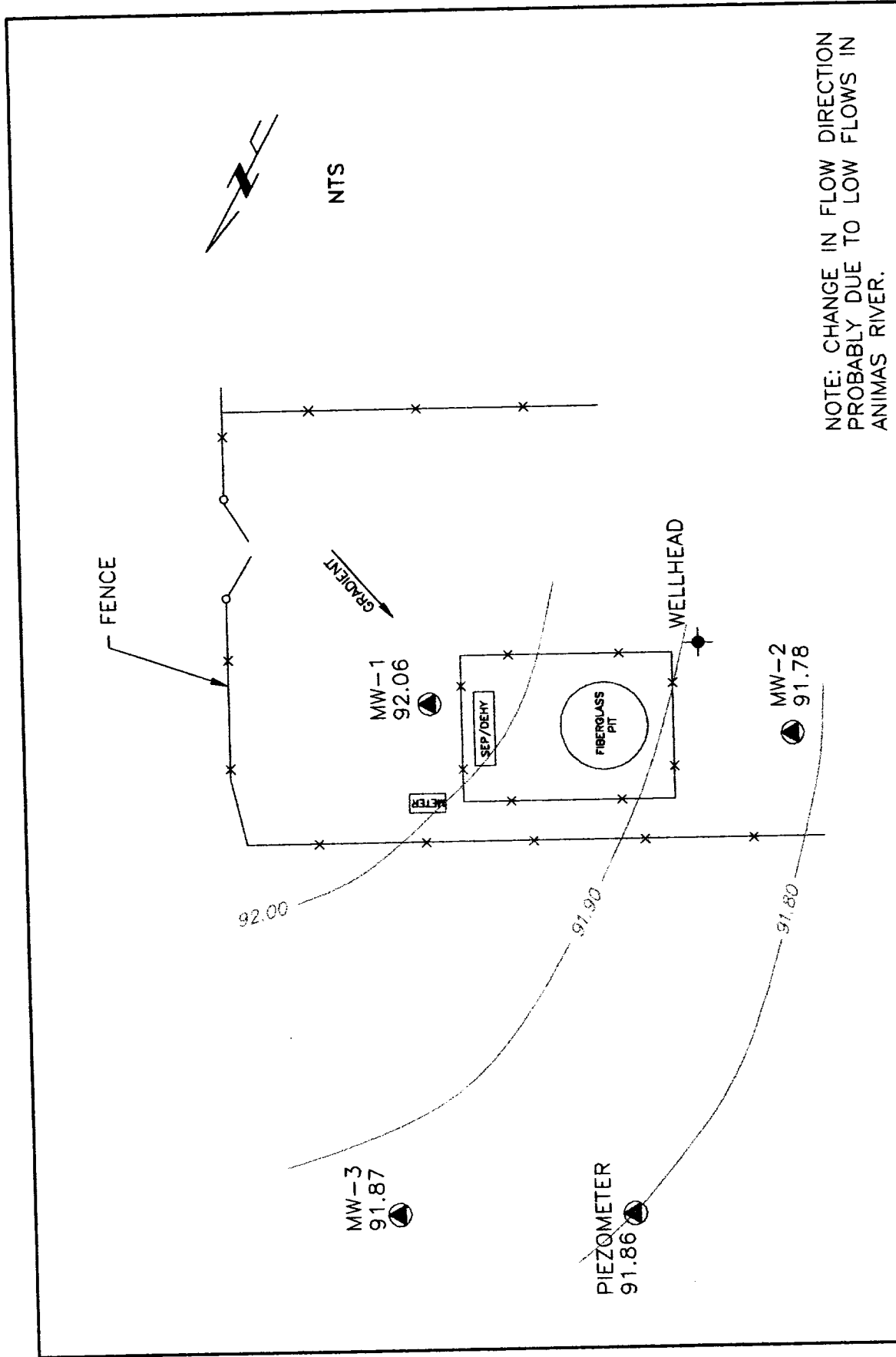
UNIT P, SEC. 11, T29N, R12W, N4PM
SAN JUAN COUNTY, NEW MEXICO

APPROVED:	DATE:
DRWN BY: MED	DATE: 1/17/00
CHK'D BY:	DATE:
PROJECT NO: 4-1372	SHEET: 3 OF 4

ON SITE
TECHNOLOGIES, LTD.
Limited Partnership

612 E. MURRAY DR.
FARMINGTON, NM 87401

PH. (505) 826-6667
FAX (505) 987-1466



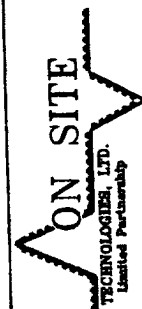
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GROUND WATER POTENTIOMETRIC MAP - DECEMBER, 1999

FARMINGTON COM #1

UNIT P, SEC. 11, T20N, R12E, NMPM
SAN JUAN COUNTY, NEW MEXICO

APPROVED:	DATE:
DRWN BY: MED	DATE: 1/17/00
CHK'D BY:	DATE:
PROJECT NO: 4-1372	SHEET: 4 OF 4



612 E. MURRAY DR. PH. (505) 885-6667
FARMINGTON, NM 87401 FAX (505) 887-1496

OFF: (505) 325-5667



LAB: (505) 325-1556

March 10, 1999

Larry Trujillo
Conoco, Inc.
3315 Bloomfield Hwy
Farmington, NM 87401
TEL: (505) 327-9557
FAX (505) 324-5825

RE: 4-1372; Farmington Com-1

Order No.: 9903009

Dear Larry Trujillo,

On Site Technologies, LTD. received 2 samples on 3/2/99 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", is written over a horizontal line.

David Cox

OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 10-Mar-99

CLIENT: Conoco, Inc.
Project: 4-1372; Farmington Com-1
Lab Order: 9903009

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-Mar-99

Client:	Conoco, Inc.	Client Sample Info:	Farmington Com-1
Work Order:	9903009	Client Sample ID:	MW-1
Lab ID:	9903009-01A	Matrix:	AQUEOUS
Project:	4-1372; Farmington Com-1	Collection Date:	3/2/99 9:21:00 AM
		COC Record:	10014

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
BTEX		SW8021B				Analyst: HR
Benzene	ND	0.5		µg/L	1	3/8/99
Toluene	ND	0.5		µg/L	1	3/8/99
Ethylbenzene	ND	0.5		µg/L	1	3/8/99
m,p-Xylene	ND	1		µg/L	1	3/8/99
o-Xylene	ND	0.5		µg/L	1	3/8/99

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

P.O. BOX 2606 • FARMINGTON, NM 87499

1 of 1

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 10-Mar-99

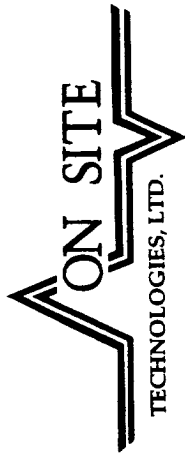
Client:	Conoco, Inc.	Client Sample Info:	Farmington Com-1
Work Order:	9903009	Client Sample ID:	MW-3
Lab ID:	9903009-02A	Matrix:	AQUEOUS
Project:	4-1372; Farmington Com-1	Collection Date:	3/2/99 9:15:00 AM
		COC Record:	10014

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
BTEX		SW8021B		Analyst: HR		
Benzene	ND	0.5		µg/L	1	3/8/99
Toluene	ND	0.5		µg/L	1	3/8/99
Ethylbenzene	ND	0.5		µg/L	1	3/8/99
m,p-Xylene	ND	1		µg/L	1	3/8/99
o-Xylene	ND	0.5		µg/L	1	3/8/99

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	Sur: - Surrogate

P.O. BOX 2606 • FARMINGTON, NM 87499

1 of 1



CHAIN OF CUSTODY RECORD

612 E. Murray Dr. • P.O. Box 2606 • Farmington, NM 87499
LAB: (505) 325-5667 • FAX: (505) 327-1496

Purchase Order No.:		Project No. 4-1372	
SEND INVOICE TO		Name Larry Trujillo	
Company Cemaco		Dept.	
Address		Mailing Address	
City, State, Zip		City, State, Zip	
Telephone No.		Telefax No.	
PROJECT LOCATION: Farmington Canal		ANALYSIS REQUESTED	
SAMPLER'S SIGNATURE: <i>Jay Trujillo</i>		LAB ID	
SAMPLE IDENTIFICATION		Containers	
DATE	TIME	MATRIX	PRES.
8/2/79	0924	420	451
1	0912	1	1
Relinquished by: <i>Jay Trujillo</i>		Received by: <i>Jay Trujillo</i>	
Relinquished by:		Received by:	
Relinquished by:		Received by:	
Method of Shipment:		Rush 24-48 Hours 10 Working Days By Date	
Authorized by: _____		Special Instructions / Remarks:	
(Client Signature Must Accompany Request)		Date _____	

OFF: (505) 325-5667



LAB: (505) 325-1556

March 10, 1999

Larry Trujillo
Conoco, Inc.
3315 Bloomfield Hwy
Farmington, NM 87401
TEL: (505) 327-9557
FAX (505) 324-5825

RE: 4-1372; Farmington Com-1

Order No.: 9903013

Dear Larry Trujillo,

On Site Technologies, LTD. received 1 sample on 3/3/99 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 "D. Cox", is positioned above the printed name.

David Cox

OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 10-Mar-99

CLIENT: Conoco, Inc.
Project: 4-1372; Farmington Com-1
Lab Order: 9903013

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

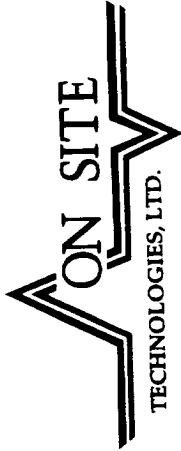
Date: 10-Mar-99

Client:	Conoco, Inc.	Client Sample Info:	Farmington Com-1
Work Order:	9903013	Client Sample ID:	MW-2
Lab ID:	9903013-01A	Matrix:	AQUEOUS
Project:	4-1372; Farmington Com-1	Collection Date:	3/3/99 9:30:00 AM
		COC Record:	10019

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
BTEX		SW8021B		Analyst: HR		
Benzene	ND	0.5		µg/L	1	3/8/99
Toluene	ND	0.5		µg/L	1	3/8/99
Ethylbenzene	4.3	0.5		µg/L	1	3/8/99
m,p-Xylene	79	1		µg/L	1	3/8/99
o-Xylene	6	0.5		µg/L	1	3/8/99

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



612 E. Murray Dr. • P.O. Box 2606 • Farmington, NM 87499
 | AR: (505) 325-5667 • FAX: (505) 327-1496

Date: 3/3/99
Page: 1 of 1

TECHNOLOGIES, LTD. 		LAB: (505) 325-5667 • FAX: (505) 327-1490	
Purchase Order No.: <u>4-1372</u>		Project No. <u>4-1372</u>	
Name <u>Larry Traylor</u>		Name <u>Larry Traylor</u>	
Company <u>Conoco</u>		Company <u>Conoco</u>	
Address		Mailing Address	
City, State, Zip		City, State, Zip	
Telephone No.		Telephone No.	
Fax No.		Fax No.	
Title		Title	
REPORT TO		RESULTS TO	
Number of Containers		Number of Containers	
LAB ID		LAB ID	
ANALYSIS REQUESTED		ANALYSIS REQUESTED	
PROJECT LOCATION: <u>FARMINGTON CONT-1</u>		PROJECT LOCATION: <u>FARMINGTON CONT-1</u>	
SAMPLER'S SIGNATURE: <u>Larry Traylor</u>		SAMPLER'S SIGNATURE: <u>Larry Traylor</u>	
SAMPLE IDENTIFICATION		SAMPLE IDENTIFICATION	
DATE		DATE	
TIME		TIME	
MATRIX		MATRIX	
PRES.		PRES.	
1		1	
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OFF: (505) 325-5667



LAB: (505) 325-1556

June 17, 1999

Larry Trujillo
Conoco, Inc.
3315 Bloomfield Hwy
Farmington, NM 87401
TEL: (505) 327-9557
FAX (505) 324-5825

RE: 4-1372; Farmington Com 1

Order No.: 9906021

Dear Larry Trujillo,

On Site Technologies, LTD. received 3 samples on 6/7/99 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", is written over a horizontal line.

David Cox

OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 17-Jun-99

CLIENT: Conoco, Inc.
Project: 4-1372; Farmington Com 1
Lab Order: 9906021

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: 17-Jun-99

Client:	Conoco, Inc.	Client Sample Info:	Farmington Com 1
Work Order:	9906021	Client Sample ID:	MW-3
Lab ID:	9906021-01A	Matrix:	AQUEOUS
Project:	4-1372; Farmington Com 1	Collection Date:	6/7/99 1:20:00 PM
		COC Record:	10187

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B		Analyst: DC		
Benzene	ND	0.5		µg/L	1	6/16/99
Toluene	ND	0.5		µg/L	1	6/16/99
Ethylbenzene	ND	0.5		µg/L	1	6/16/99
m,p-Xylene	ND	1		µg/L	1	6/16/99
o-Xylene	ND	0.5		µg/L	1	6/16/99

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

Sur: - Surrogate

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1 of 1

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 17-Jun-99

Client:	Conoco, Inc.	Client Sample Info:	Farmington Com 1
Work Order:	9906021	Client Sample ID:	MW-2
Lab ID:	9906021-02A	Matrix:	AQUEOUS
Project:	4-1372; Farmington Com 1	Collection Date:	6/7/99 1:30:00 PM
		COC Record:	10187

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B		Analyst: DC		
Benzene	ND	0.5		µg/L	1	6/16/99
Toluene	ND	0.5		µg/L	1	6/16/99
Ethylbenzene	ND	0.5		µg/L	1	6/16/99
m,p-Xylene	ND	1		µg/L	1	6/16/99
o-Xylene	ND	0.5		µg/L	1	6/16/99

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: 17-Jun-99

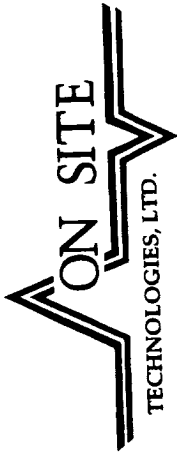
Client:	Conoco, Inc.	Client Sample Info:	Farmington Com 1
Work Order:	9906021	Client Sample ID:	MW-1
Lab ID:	9906021-03A	Matrix:	AQUEOUS
Project:	4-1372; Farmington Com 1	Collection Date:	6/7/99 1:40:00 PM
		COC Record:	10187

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B		Analyst: DC		
Benzene	ND	0.5		µg/L	1	6/16/99
Toluene	ND	0.5		µg/L	1	6/16/99
Ethylbenzene	ND	0.5		µg/L	1	6/16/99
m,p-Xylene	ND	1		µg/L	1	6/16/99
o-Xylene	ND	0.5		µg/L	1	6/16/99

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



CHAIN OF CUSTODY RECORD

612 E. Murray Dr. • P.O. Box 2606 • Farmington, NM 87499
LAB: (505) 325-5667 • FAX: (505) 327-1496

Date: 6-7-99
Page: 1 of 1

PURCHASE ORDER NO.:		PROJECT NO. <u>4-137Z</u>		REPORT RESULTS TO		NAME <u>Lazey Tayllor</u>		TITLE	
SEND INVOICE TO		Name <u>Lazey Tayllor</u>		Company <u>Conoco</u>		Mailing Address		City, State, Zip	
Address		City, State, Zip		Telephone No.		Telefax No.			
PROJECT LOCATION: <u>Farmington Conoco</u>				ANALYSIS REQUESTED					
SAMPLER'S SIGNATURE:				LAB ID					
SAMPLE IDENTIFICATION				Containers					
DATE	TIME	MATRIX	PRES.						
<u>6/7/99</u>	<u>1340</u>	<u>H₂O</u>	<u>HCl</u>						
<u>1</u>	<u>1330</u>	<u>H₂O</u>	<u>HCl</u>						
<u>1</u>	<u>1340</u>	<u>H₂O</u>	<u>HCl</u>						
RELINQUISHED BY: <u>Lazey Tayllor</u>				Date/Time <u>6/7/99 1330</u>					
RELINQUISHED BY:				Date/Time					
RELINQUISHED BY:				Date/Time					
Method of Shipment:				Rush ☐ 24-48 Hours ☐ 10 Working Days ☐ By Date					
Special Instructions / Remarks:									
Authorized by: _____ Date _____				Received by: _____ Date/Time _____					
(Client Signature Must Accompany Request)				Received by: _____ Date/Time _____					

OFF: (505) 325-5667



LAB: (505) 325-1556

September 21, 1999

Larry Trujillo
Conoco, Inc.
3315 Bloomfield Hwy
Farmington, NM 87401
TEL: (505) 327-9557
FAX (505) 324-5825

RE: Farmington Com-1; 4-1372

Order No.: 9909048

Dear Larry Trujillo,

On Site Technologies, LTD. received 3 samples on 9/14/99 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", with a stylized flourish at the end.

David Cox

OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 21-Sep-99

CLIENT: Conoco, Inc.
Project: Farmington Com-1; 4-1372
Lab Order: 9909048

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-Sep-99

Client:	Conoco, Inc.	Client Sample Info:	Farmington Com-1
Work Order:	9909048	Client Sample ID:	MW-3
Lab ID:	9909048-01A	Matrix:	AQUEOUS
Project:	Farmington Com-1; 4-1372	Collection Date:	9/14/99 10:50:00 AM
		COC Record:	10317

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B		Analyst: DM		
Benzene	ND	0.5		µg/L	1	9/20/99
Toluene	ND	0.5		µg/L	1	9/20/99
Ethylbenzene	ND	0.5		µg/L	1	9/20/99
m,p-Xylene	ND	1		µg/L	1	9/20/99
o-Xylene	ND	0.5		µg/L	1	9/20/99

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

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TECHNOLOGY RESOLVING INDUSTRY WITH THE ENVIRONMENT

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 21-Sep-99

Client:	Conoco, Inc.	Client Sample Info:	Farmington Com-1
Work Order:	9909048	Client Sample ID:	MW-2
Lab ID:	9909048-02A	Matrix:	AQUEOUS
Project:	Farmington Com-1; 4-1372	Collection Date:	9/14/99 11:12:00 AM
		COC Record:	10317

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B		Analyst: DM		
Benzene	ND	0.5		µg/L	1	9/20/99
Toluene	1	0.5		µg/L	1	9/20/99
Ethylbenzene	ND	0.5		µg/L	1	9/20/99
m,p-Xylene	ND	1		µg/L	1	9/20/99
o-Xylene	ND	0.5		µg/L	1	9/20/99

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

Sur: - Surrogate

P.O. BOX 2606 • FARMINGTON, NM 87499

1 of 1

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 21-Sep-99

Client:	Conoco, Inc.	Client Sample Info:	Farmington Com-1
Work Order:	9909048	Client Sample ID:	MW-1
Lab ID:	9909048-03A	Matrix:	AQUEOUS
Project:	Farmington Com-1; 4-1372	Collection Date:	9/14/99 11:25:00 AM
		COC Record:	10317

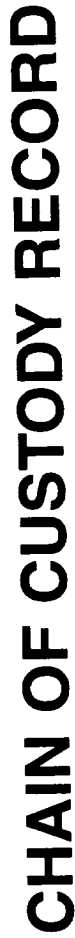
Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B		Analyst: DM		
Benzene	ND	0.5		µg/L	1	9/20/99
Toluene	1.2	0.5		µg/L	1	9/20/99
Ethylbenzene	ND	0.5		µg/L	1	9/20/99
m,p-Xylene	ND	1		µg/L	1	9/20/99
o-Xylene	ND	0.5		µg/L	1	9/20/99

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 INDUSTRIES A UNIT OF FARMINGTON



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Page: 1 of 1

To Re-order Call 325-9600 or Fax 325-9764 **alphaGraphics®** FORM # 01

Distribution: White - On Site	Yellow - LAB	Pink - Sampler	Goldenrod - Client
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OFF: (505) 325-5667



LAB: (505) 325-1556

December 30, 1999

Larry Trujillo
On Site Technologies Limited
612 E. Murray Drive
P.O. Box 2606
Farmington, NM 87499
TEL: (505) 325-5667
FAX (505) 327-1496

RE: 4-1372; Farmington Com 1

Order No.: 9912023

Dear Larry Trujillo,

On Site Technologies, LTD. received 1 sample on 12/16/1999 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 be "David Cox", written over a horizontal line.

David Cox

OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 30-Dec-99

CLIENT: On Site Technologies Limited
Project: 4-1372; Farmington Com 1
Lab Order: 9912023

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: 30-Dec-99

Client:	On Site Technologies Limited	Client Sample Info:	Farmington Com 1
Work Order:	9912023	Client Sample ID:	MW-3
Lab ID:	9912023-01A	Matrix:	AQUEOUS
Project:	4-1372; Farmington Com 1	Collection Date:	12/16/1999 10:00:00 AM
		COC Record:	10450

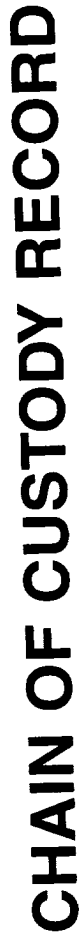
Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B		Analyst: DM		
Benzene	ND	0.5		µg/L	1	12/17/1999
Toluene	ND	0.5		µg/L	1	12/17/1999
Ethylbenzene	ND	0.5		µg/L	1	12/17/1999
m,p-Xylene	ND	1		µg/L	1	12/17/1999
o-Xylene	ND	0.5		µg/L	1	12/17/1999

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

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TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT

1 of 1



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Page: 1 of 1

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Distribution: White - On Site	Yellow - LAB	Pink - Sampler	Goldenrod - Client
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OFF: (505) 325-5667



LAB: (505) 325-1556

December 30, 1999

Larry Trujillo
On Site Technologies Limited
612 E. Murray Drive
P.O. Box 2606
Farmington, NM 87499
TEL: (505) 325-5667
FAX (505) 327-1496

RE: 4-1372; Farmington Com 1

Order No.: 9912020

Dear Larry Trujillo,

On Site Technologies, LTD. received 2 samples on 12/15/1999 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 be 'D Cox', with a stylized flourish at the end.

David Cox

OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 30-Dec-99

CLIENT: On Site Technologies Limited
Project: 4-1372; Farmington Com 1
Lab Order: 9912020

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: 30-Dec-99

Client:	On Site Technologies Limited	Client Sample Info:	Farmington Com 1
Work Order:	9912020	Client Sample ID:	MW-2
Lab ID:	9912020-01A	Matrix:	AQUEOUS
Project:	4-1372; Farmington Com 1	Collection Date:	12/15/1999 9:50:00 AM
		COC Record:	10447

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B		Analyst: DM		
Benzene	ND	0.5		µg/L	1	12/16/1999
Toluene	0.9	0.5		µg/L	1	12/16/1999
Ethylbenzene	ND	0.5		µg/L	1	12/16/1999
m,p-Xylene	ND	1		µg/L	1	12/16/1999
o-Xylene	ND	0.5		µg/L	1	12/16/1999

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

P.O. BOX 2606 • FARMINGTON, NM 87499

TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 30-Dec-99

Client:	On Site Technologies Limited	Client Sample Info:	Farmington Com 1
Work Order:	9912020	Client Sample ID:	MW-1
Lab ID:	9912020-02A	Matrix:	AQUEOUS
Project:	4-1372; Farmington Com 1	Collection Date:	12/15/1999 9:55:00 AM
		COC Record:	10447

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B		Analyst: DM		
Benzene	ND	0.5		µg/L	1	12/16/1999
Toluene	0.7	0.5		µg/L	1	12/16/1999
Ethylbenzene	ND	0.5		µg/L	1	12/16/1999
m,p-Xylene	ND	1		µg/L	1	12/16/1999
o-Xylene	ND	0.5		µg/L	1	12/16/1999

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	Surrogate - Surrogate

P.O. BOX 2606 • FARMINGTON, NM 87499

1 of 1



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Page: 1 of 1

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