

3R - 84

REPORTS

DATE:

11/14/1999



January 14, 1999

RECEIVED

FEB 19 1999

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

ENVIRONMENTAL BUREAU
OIL CONSERVATION DIVISION
Project: 4-1374

RE: 1998 Annual Ground Water Report
Conoco Location: Farmington B Com #1E
Unit 0, Sec. 15, T29N, R13W, NMPM, San Juan Co., NM

Dear Ms. Ebert:

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 1998 ground water monitoring activities for three (3) monitoring well, and includes the installation, development and initial sampling of three (3) additional monitoring wells. All activities follows the prescribed procedures defined 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 1998 ACTIVITIES:

Ground water sampling events were conducted during June, September and December.

June 12, 1998, approximately three (3) inches of free product was discovered in MW#1. A passive skimmer was installed in MW#1 to date approximately 3.8 gallons of free product has been removed.

August 1998, three more monitoring wells were installed using a cable tool rig in the vacant lot west of the location. Wells were installed to delineate extent of the plume. The wells were developed and sampled during the September sampling event.

September 1998, NMOCD authorized Conoco to use Regenesis® Oxygen Release Compound (ORC) in MW#1.

December 3, 1998, the passive skimmer was removed from MW#1 and seven (7) ORC socks were installed. MW#1 was sampled to establish a baseline to monitor the effect of the ORC socks.

Results of excavation, ground water monitoring activity and monitoring well installation were previously documented in the following documentation.

On Site Technologies, Ltd., April 16, 1997. Letter to Mr. W. L. Brignon, Senior Council Conoco, Inc. Midland Division, regarding: Remediation Summary, Conoco Location, Farmington B Com #1E, Unit 0, Sec. 15, T29N, R13W, NMPM, San Juan Co., NM.

On Site Technologies, Ltd., February 1, 1998. Report to Ms. Shirley Ebert, Field SHEAR Specialist, Conoco, Inc. Mid-Continent Region, regarding: Annual Ground Water Report for 1997, Conoco Location, Farmington B Com #1E, Unit 0, Sec. 15, T29N, R13W, NMPM, San Juan Co., NM

PO Box 2606
Farmington, NM

505-325-5667

FAX: 505-327-1496

SAMPLING:

In accordance with the monitoring plan, water levels were measured on the monitoring well 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 event. Table 2, summarizes the laboratory results for BTEX compounds from all water sampling completed at the referenced site. Table 3, summarizes the laboratory result for RCRA metals and API water quality testing, required by NMOCD.

Copies of all laboratory reports for the calendar year 1998, along with all laboratory QA/QC documentation and chains-of-custody, are attached with this report.

SUMMARY AND CONCLUSIONS:

The following conclusions are based on the 1998 ground water monitoring results and trends associated with Farmington B Com 1E well location:

1. BTEX contamination continues to remain above the New Mexico Water Quality Control Commission (NMWQCC) standards in the area of MW#1.
2. All other monitoring wells (MW#2 through MW#6) exhibit BTEX contamination levels below NMWQCC standards.
3. API water analysis for MW#4 and MW#5 exhibit chloride and Total Dissolved Solids (TDS) levels above NMWQCC standard. The TDS levels may be due to heavy sediment in the well locations caused by using the cable tool drill rig to advance the boreholes for installation of the wells.
4. The groundwater flow appears to be to the west to northwest with an average gradient of 0.0101 foot/feet.
5. The ground water direction seems to be influenced by an unlined irrigation ditch south of the location, which is a seasonally variable recharge point.

RECOMMENDATIONS

Continued monitoring of groundwater quality until NMWQCC abatement standards and requirements are met.

LIMITATIONS AND CLOSURE:

This 1998 groundwater report documents the results of ground water monitoring for the referenced Conoco well location. This report following the Comprehensive Ground Water Remediation and Long-Term Monitoring Plan for Conoco Locations in the San Juan Basin, New Mexico, dated October 15, 1997, and approved by NMOCD on February 16, 1998.

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 initial report. All work has been performed in accordance with generally accepted professional practices in geotechnical, petroleum and environmental engineering, and hydrogeology.

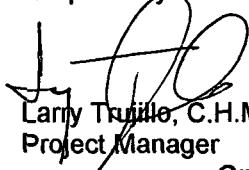
This document has been prepared by On Site Technologies for the exclusive use of Conoco Inc. as it pertains to the referenced well location operated by Conoco.

Conoco, Inc.: Farmington B Com #1E
On Site Technologies, Ltd.

February 8, 1999
Project 4-1374

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,



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

On Site Technologies, Limited Partnership

Reviewed by:



Michael K. Lane, P.E.
Senior Engineer

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: Ground Water Potentiometric Map (March 1998)
Figure 2: Ground Water Potentiometric Map (June 1998)
Figure 2: Ground Water Potentiometric Map (July 1998)
Figure 2: Ground Water Potentiometric Map (August 1998)
Figure 2: Ground Water Potentiometric Map (September 1998)
Figure 2: Ground Water Potentiometric Map (December 1998)
Laboratory Result, Chain of Custody, QA/QC
Passive Skimmer Log
Boring Logs and Monitoring Well Diagrams

Acknowledgment:
CONOCO, Inc.

Shirley Ebert *Stem Specialist*
(Name/Title)

2/17/99

(Date)

LET/let: 41374-98.doc

On Site Technologies
Ground Water Level Summary
Farmington B Com 1E
Unit O, Sec. 15, 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) (BTOP)*	Relative Groundwater Elevation (ft)
MW #1	101.37	34.09	2" PVC	19.09 to 34.09	3/18/98	28.51	78.86
					6/12/98	27.07*	74.30
					7/13/98	25.75	75.62
					8/25/98	24.92	76.45
					9/15/98	25.06	76.32
					12/29/98	28.89	72.48
MW #2	101.57	33.72	2" PVC	18.72 to 33.72	3/18/98	27.81	72.76
					6/12/98	25.84	75.73
					7/13/98	24.49	77.08
					8/25/98	24.03	77.54
					9/15/98	24.18	77.39
					12/29/98	26.82	74.75
MW #3	102.1	32.44	2" PVC	17.44 to 32.44	3/19/98	28.84	73.26
					6/12/98	26.27	75.83
					7/13/98	25.09	77.01
					8/25/98	24.56	77.54
					9/15/98	24.85	77.25
					12/29/98	28.02	74.08
MW #4	101.4	32.72	2" PVC	17.72 to 32.72	8/25/98	24.99	76.41
					9/15/98	25.28	76.12
					12/29/98	29.01	72.39

*Water Level adjusted to compensate for 3" of free product

BGS - approximate measurements taken as Below Ground Surface

BTOP - Below Top of Casing

NM - Not Measured

On Site Technologies
Ground Water Level Summary
Farmington B Com 1E
Unit O, Sec. 15, 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 #5	100.52	34.09	2" PVC	19.09 to 34.09	8/25/98	24.49	76.03
					9/15/98	24.83	75.96
					12/29/98	28.27	72.25
MW #6	102.14	34.02	2" PVC	19.02 to 34.02	8/25/98	26.00	76.14
					9/15/98	26.19	75.95
					12/29/98	28.98	73.16

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

BTEX Ground Water Analytical Summary
 Farmington B Com 1E
 Unit O, Sec. 15 T29N, R13W

Sample Date	Sample ID#	Monitor Well	Remarks	BTEX per EPA 8020 (ppb)			
				Benzene	Toluene	Ethylbenzene	Total Xylyene
2/19/98	9802020-01A	MW#1	On Site Lab.	210.0	34.0	370.0	2044.0
6/12/98	3" of free product	in the bailer					
9/15/98	Not Sampled	free product	in well				
12/29/98	9812053-04A			350.0	BDL	420	2800.0
2/19/98	9802020-02A	MW#2	On Site Lab.	2.4	5.3	16.0	470.0
6/12/98	9806055-02A			0.8	2.7	32.0	171.0
9/15/98	9809035-01A			1.3	2.5	39.0	33.3
12/29/98	9812053-05A			BDL	0.6	2.1	35.0
2/19/98	9802020-03A	MW#3	On Site Lab.	0.9	1.2	1.6	5.3
6/12/98	9806055-01A			BDL	BDL	0.5	2.0
9/15/98	9809035-02A			BDL	BDL	BDL	BDL
12/29/98	9812053-06A			BDL	BDL	BDL	BDL
9/15/98	9809035-03A	MW#4	On Site Lab.	BDL	BDL	BDL	BDL
12/29/98	9812053-03A			BDL	BDL	0.6	BDL
9/15/98	9809035-04A	MW#5	On Site Lab.	BDL	BDL	BDL	BDL
12/29/98	9812053-02A			BDL	BDL	BDL	BDL
9/15/98	9809035-05A	MW#6	On Site Lab.	BDL	BDL	BDL	BDL
12/29/98	9812053-01A			BDL	BDL	BDL	BDL
				10.0	750.0	750.0	620.0

Ground Water Analytical Summary
 Farmington B Com 1E
 Unit O, Sec. 15 T29N, R13W

API Results
 Monitoring Well #4

CATIONS				ANIONS			
PARAMETER	RESULTS	UNIT OF MEASURE	WQCC Standards	PARAMETER	RESULTS	UNIT OF MEASURE	WQCC Standards
Sodium Na	230.0	mg/L		Chloride Cl	280.0	mg/L	250.0
Calcium Ca	81.0	mg/L		Sulfate SO ₄	95.0	mg/L	600.0
Magnesium Mg	24.0	mg/L		Carbonate CO ₃	BDL	mg/L	
Potassium K	8.6	mg/L		Bicarbonate HCO ₃	370.0	mg/L	
				Hydroxide HO		mg/L	
				Conductivity			
Total Dissolved Solids	1100.0	mg/L					
Fe	BDL	mg/L					
pH	7.33						
Resistivity	7.794	ohm-m					

Sample Date: September 15, 1998

RCRA Metals
 Test Method SW-846

PARAMETER	RESULTS	UNITS	WQCC	UNITS
Mercury by CVAA	<0.00050	mg/L	0.002	mg/L
Arsenic by ICP	<0.180	mg/L	0.1	mg/L
Barium by ICP	0.330	mg/L	1.0	mg/L
Cadmium by ICP	<0.020	mg/L	0.01	mg/L
Chromium by ICP	<0.050	mg/L	0.05	mg/L
Lead by ICP	<0.250	mg/L	0.05	mg/L
Selenium by ICP	<0.300	mg/L	0.05	mg/L
Silver by ICP	<0.020	mg/L	0.05	mg/L

Ground Water Analytical Summary
 Farmington B Com 1E
 Unit O, Sec. 15 T29N, R13W

API Results
Monitoring Well #5

CATIONS				ANIONS			
PARAMETER	RESULTS	UNIT OF MEASURE	WQCC STANDARDS	PARAMETER	RESULTS	UNIT OF MEASURE	WQCC STANDARDS
Sodium	Na	230.0	mg/L	Chloride	Cl	340.0	mg/L
Calcium	Ca	110.0	mg/L	Sulfate	SO ₄	100.0	mg/L
Magnesium	Mg	32.0	mg/L	Carbonate	CO ₃	BDL	mg/L
Potassium	K	12.0	mg/L	Bicarbonate	HCO ₃	380.0	mg/L
				Hydroxide	HO		mg/L
				Conductivity			
				Total Dissolved Solids	1200.0	mg/L	1000.0
				Fe	BDL	mg/L	mg/L
				pH	7.25	between 6 and 9	
				Resistivity	6.7070	ohm-m	

Sample Date: September 15, 1998

RCRA Metals
Test Method SW-846

TEST ELEMENT	TEST ELEMENT	TEST ELEMENT	TEST ELEMENT	TEST ELEMENT
Mercury by CVAA	<0.00050	mg/L	0.002	mg/L
Arsenic by ICP	<0.180	mg/L	0.1	mg/L
Barium by ICP	0.175	mg/L	1.0	mg/L
Cadmium by ICP	<0.020	mg/L	0.01	mg/L
Chromium by ICP	<0.050	mg/L	0.05	mg/L
Lead by ICP	<0.250	mg/L	0.05	mg/L
Selenium by ICP	<0.300	mg/L	0.05	mg/L
Silver by ICP	<0.020	mg/L	0.05	mg/L

Ground Water Analytical Summary
 Farmington B Com 1E
 Unit O, Sec. 15 T29N, R13W

API Results
 Monitoring Well #6

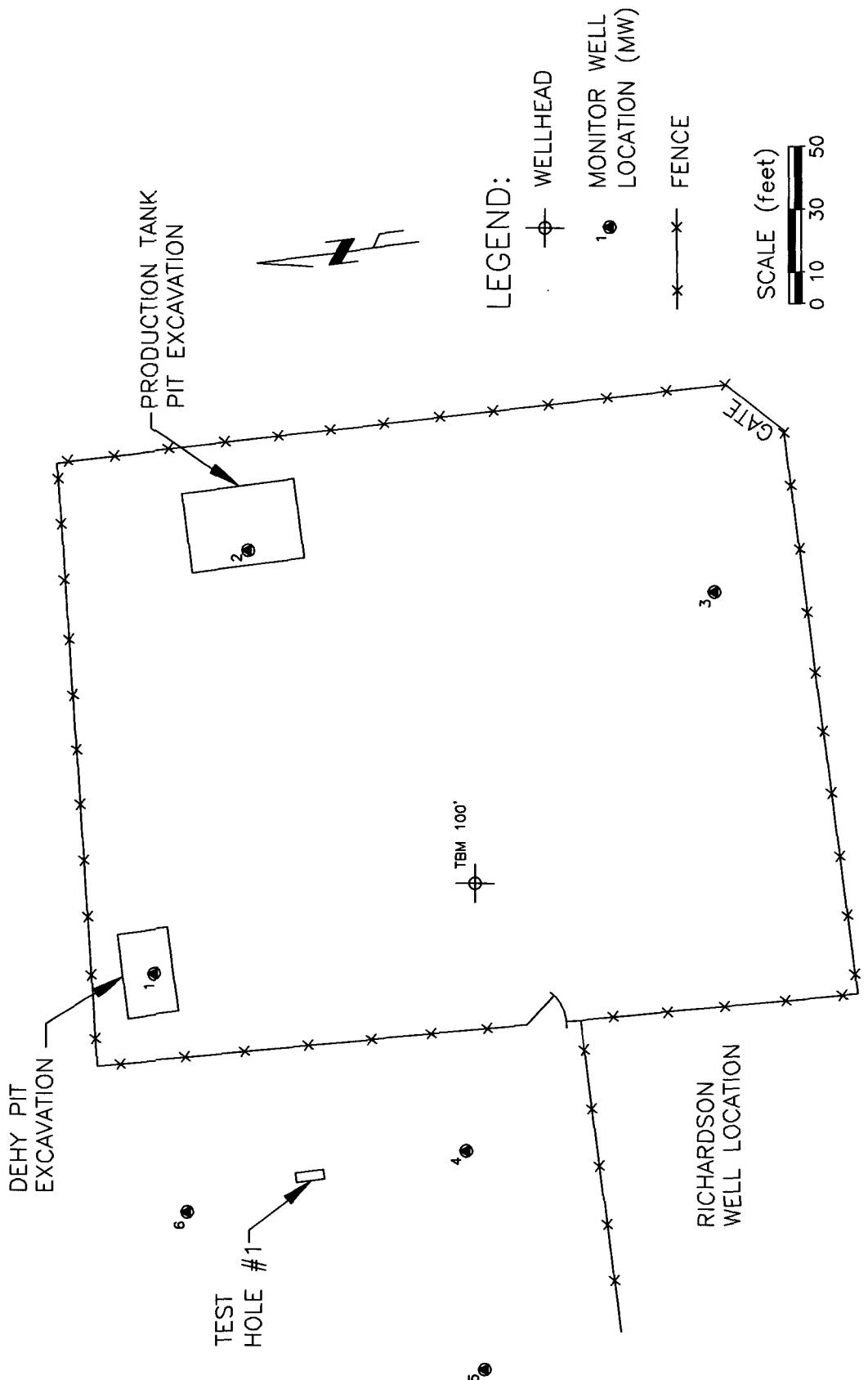
PARAMETER	CATIONS		ANIONS							
	RESULTS	UNIT OF MEASURE	WQCC STANDARDS	UNIT OF MEASURE	PARAMETER	RESULTS	UNIT OF MEASURE	WQCC STANDARDS	UNIT OF MEASURE	WQCC STANDARDS
Sodium	Na	98.0	mg/L		Chloride	Cl	130.0	mg/L	250.0	mg/L
Calcium	Ca	120.0	mg/L		Sulfate	SO ₄	20.0	mg/L	600.0	mg/L
Magnesium	Mg	36.0	mg/L		Carbonate	CO ₃	BDL	mg/L		
Potassium	K	8.6	mg/L		Bicarbonate	HCO ₃	500.0	mg/L		
					Hydroxide	HO		mg/L		
					Conductivity					
Total Dissolved Solids						910.0	mg/L	1000.0	mg/L	
Fe						BDL	mg/L		mg/L	
pH						7.11		between 6 and 9		
Resistivity						9.6060	ohm-m			

Sample Date: September 15, 1998

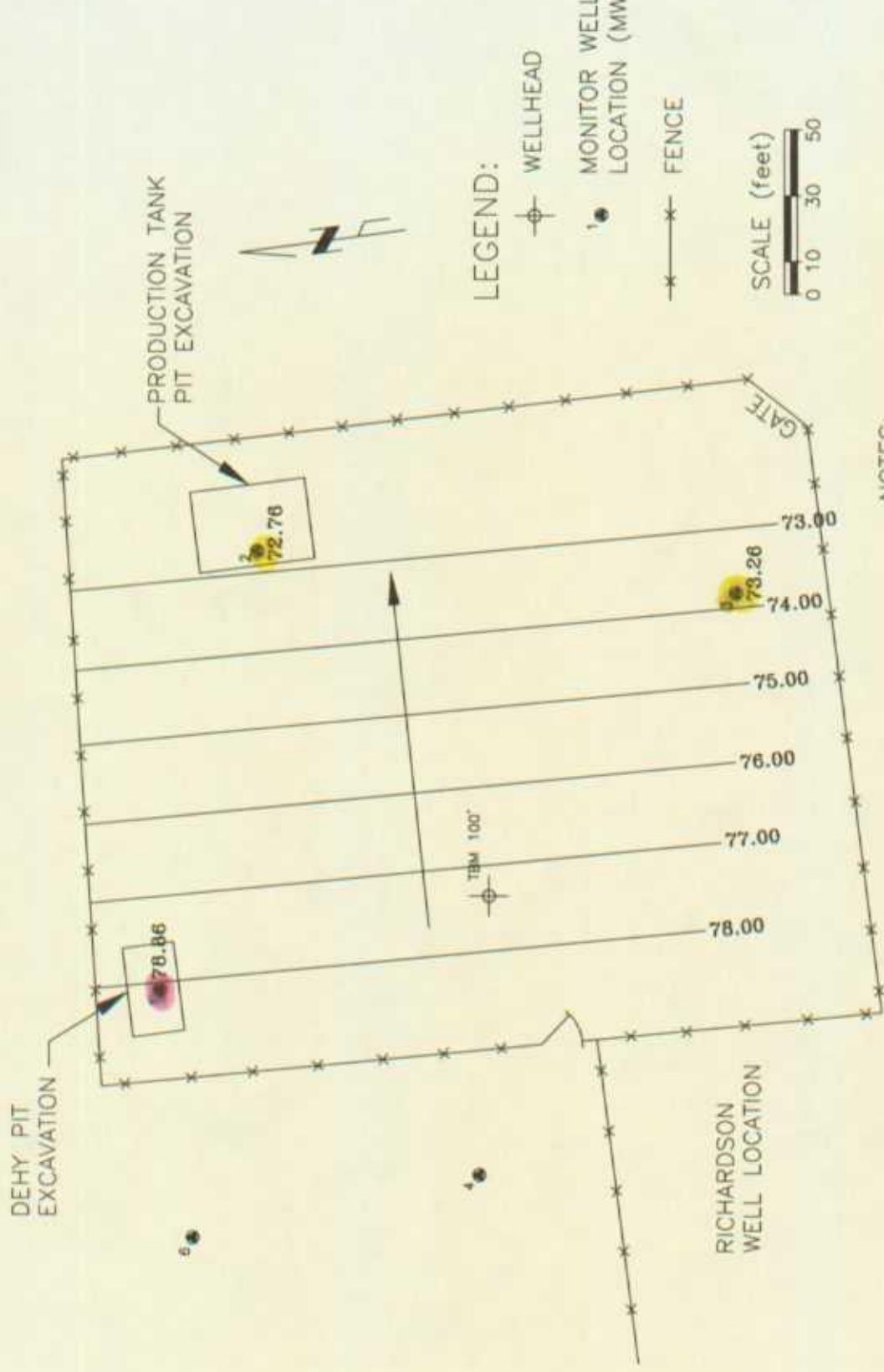
RCRA Metals

Test Method SW-846

PARAMETER	RESULTS	UNITS	WQCC	UNITS
Mercury by CVAA	<0.00050	mg/L	0.002	mg/L
Arsenic by ICP	<0.180	mg/L	0.1	mg/L
Barium by ICP	0.588	mg/L	1.0	mg/L
Cadmium by ICP	<0.020	mg/L	0.01	mg/L
Chromium by ICP	<0.050	mg/L	0.05	mg/L
Lead by ICP	<0.250	mg/L	0.05	mg/L
Selenium by ICP	<0.300	mg/L	0.05	mg/L
Silver by ICP	<0.020	mg/L	0.05	mg/L



SITE PLAN		CONOCO B COM #1E	
		TECHNOLOGIES, LTD. Limited Partnership	
REVISED:	DATE:	612 E. MURRAY DR.	FARMINGTON, NM 87401
REVISED:	DATE:	PH. (505) 326-5687	
REVISED: MED	DATE: 2/8/99	FAX (505) 327-1496	
APPROVED:	DATE:		
DRWN BY: MED	DATE: 8/26/98		
CHK'D BY:	DATE:	PROJECT NO: 4-1374	SHEET: 1 OF 7



REVISED:	DATE:	ON SITE	SITE PLAN
REVISED:	DATE:		3/18/98
REVISED:	DATE:		CONOCO B COM #1E
APPROVED:	DATE:	612 E. MURRAY DR. FARMINGTON, NM 87401	Farmington, NM
DRWN BY: MED	DATE: 2/8/99	PH. (505) 325-5667	PROJECT NO: 4-1374
CHK'D BY:	DATE:	FAX (505) 327-1496	SHEET: 2 OF 7

DEHY PIT
EXCAVATIONPRODUCTION TANK
PIT EXCAVATION

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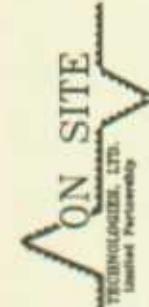
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RICHARDSON
WELL LOCATION

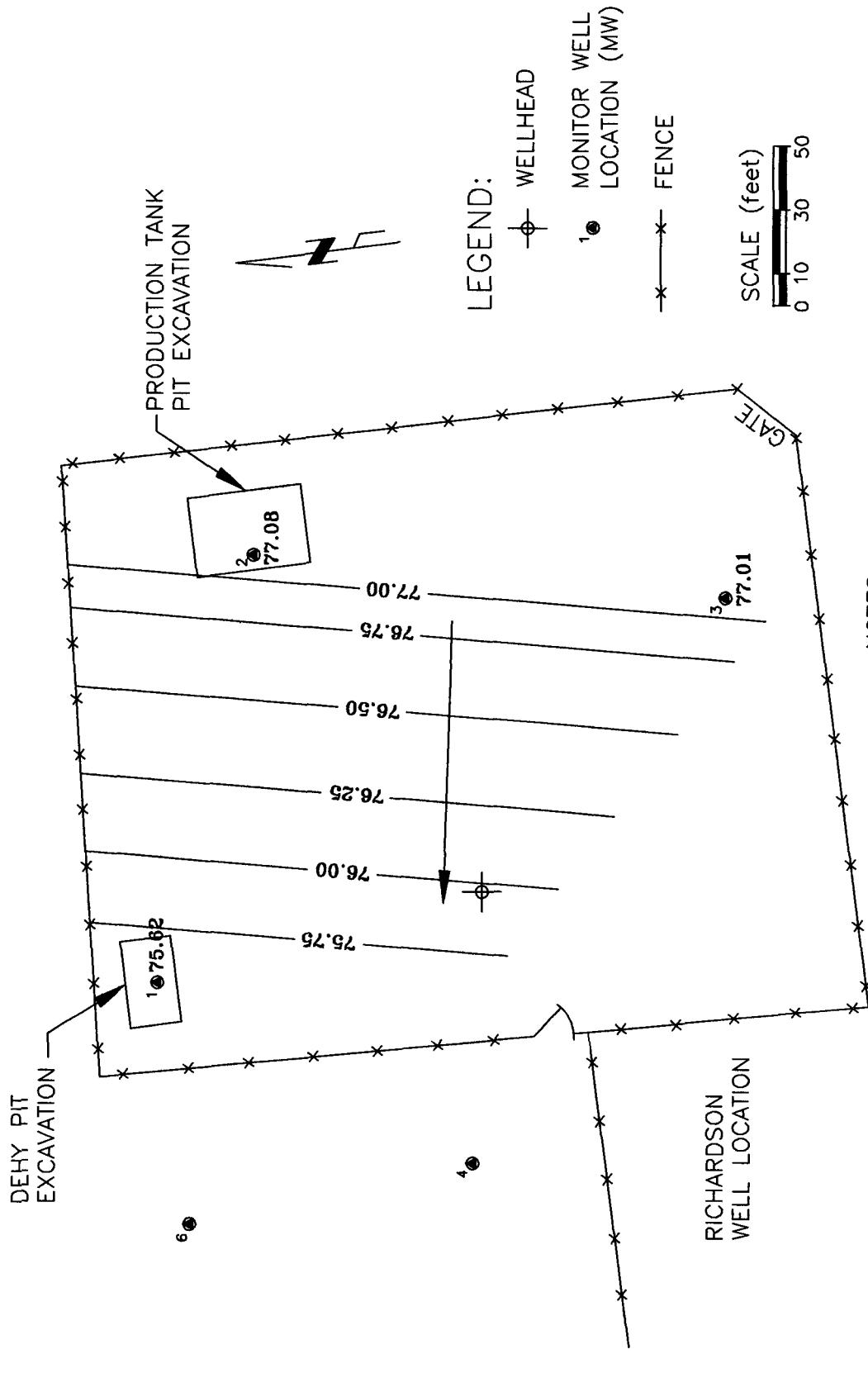
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- NOTES:
1. MW #4,5,6 INSTALLED 8/98.

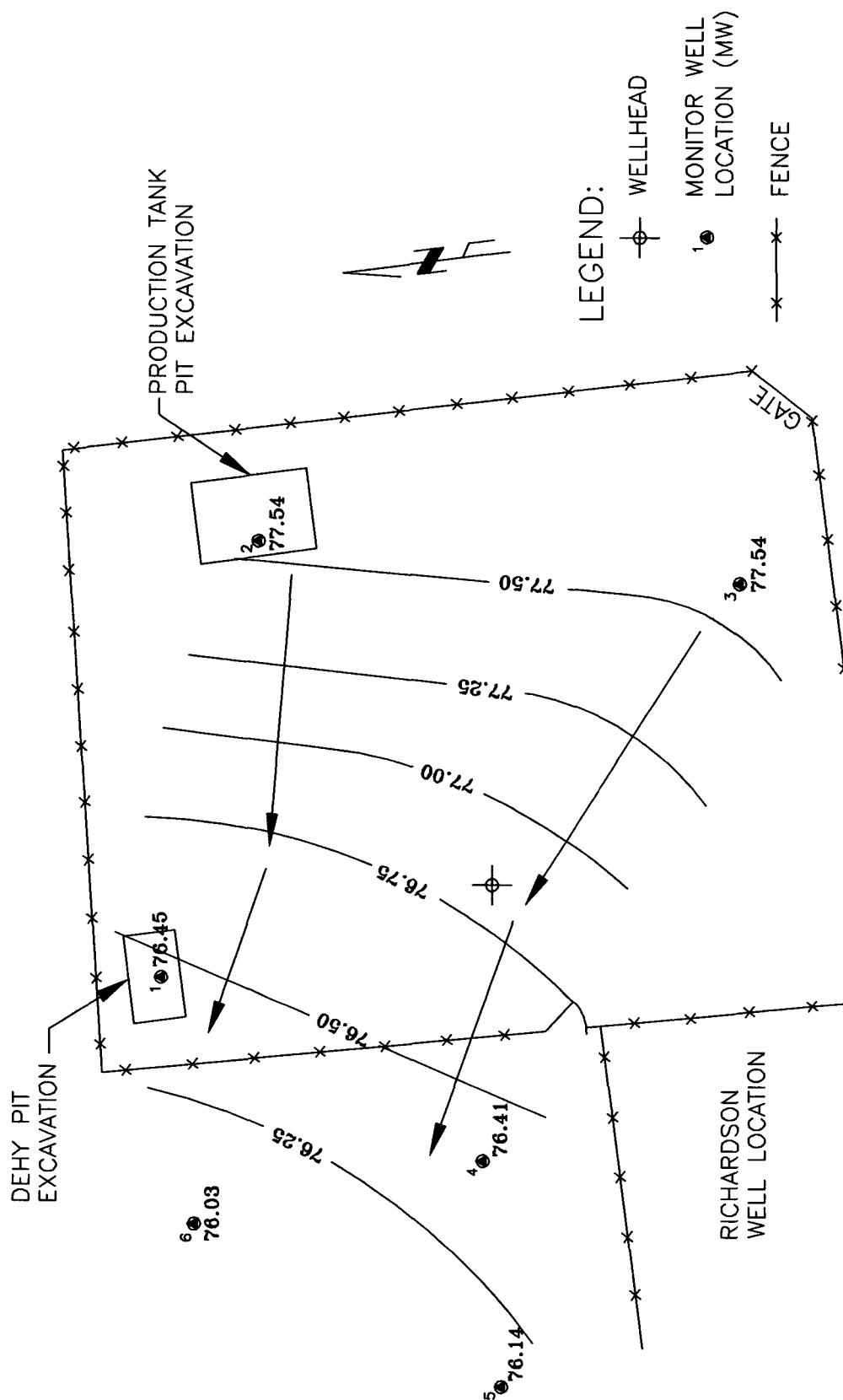
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SITE PLAN
6/12/98CONOCO B COM #1E
Farmington, NM

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APPROVED:	DATE:
DRWN BY: MED	DATE: 2/8/99
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PROJECT NO: 4-1374	SHEET: 3 OF 7

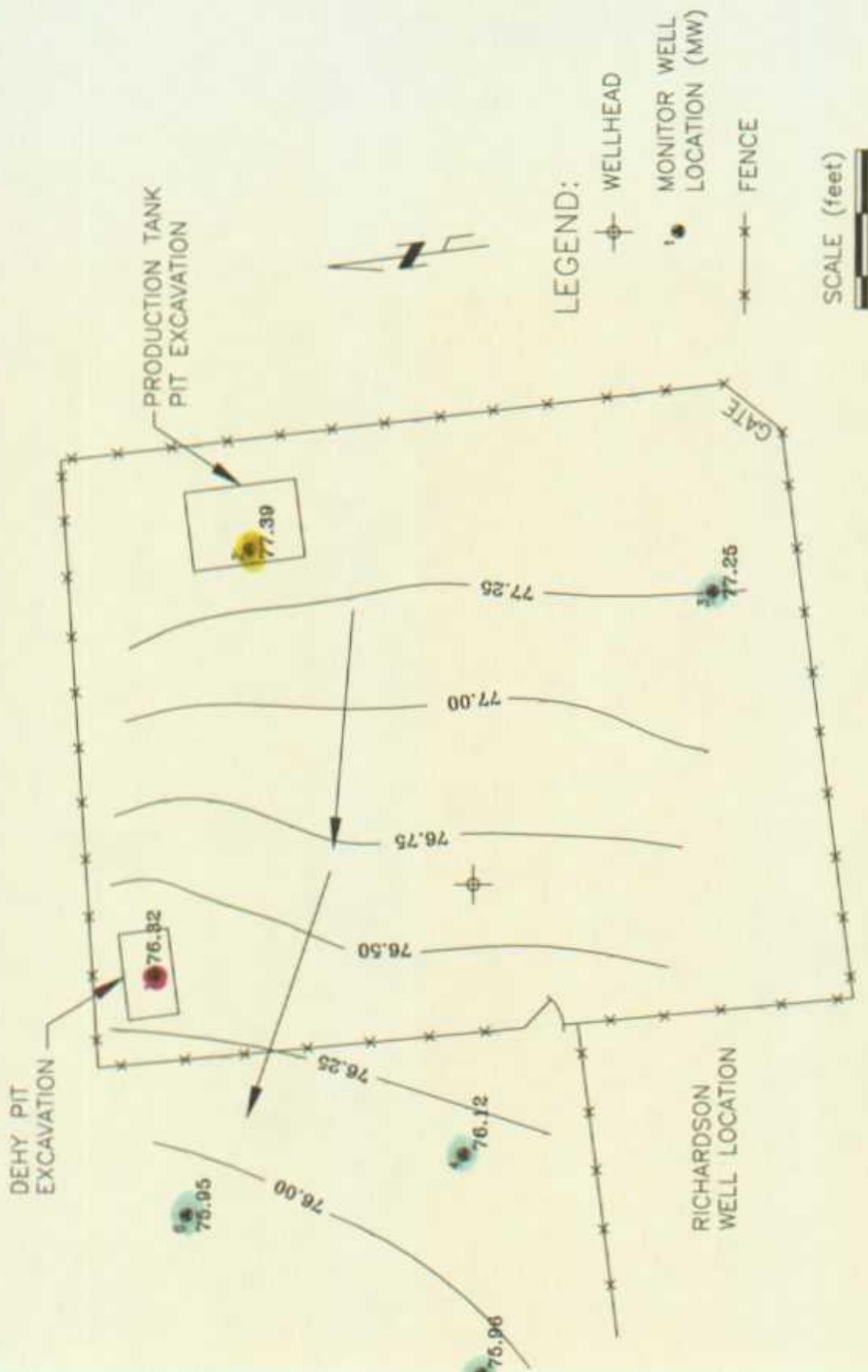


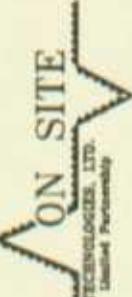
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REVISED:	DATE:	7/13/98
REVISED:	DATE:	CONOCO B COM #1E
APPROVED:	DATE:	612 E. MURRAY DR.
DRWN BY: MED	DATE: 2/8/99	FARMINGTON, NM 87401
CHK'D BY:	DATE:	PH. (505) 326-5687
		FAX (505) 327-1496
		PROJECT NO: 4-1374 SHEET: 4 OF 7

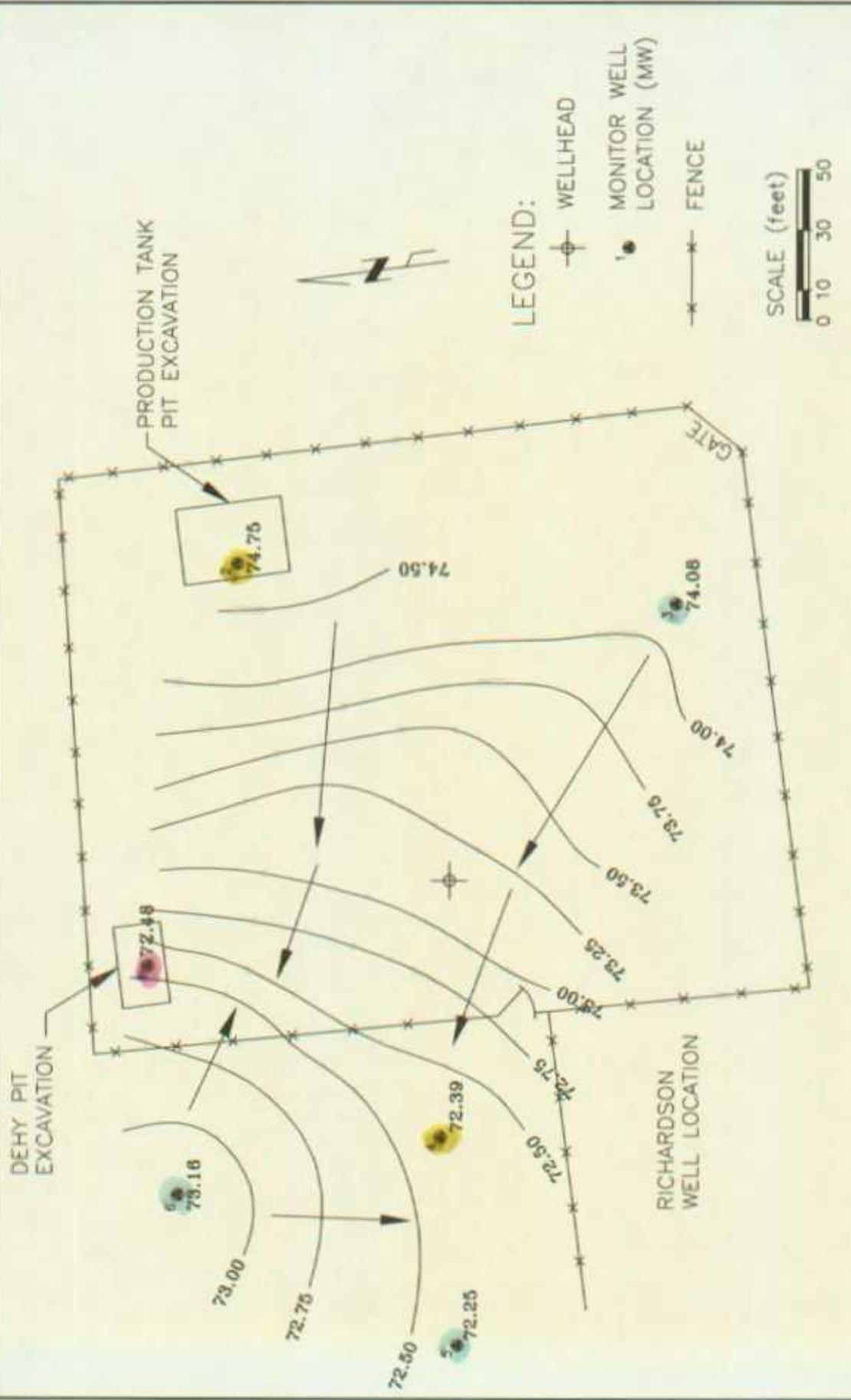


SITE PLAN	
	8/25/98
CONOCO B COM #1E	
	Farmington, NM
REvised:	DATE:
REvised:	DATE:
REvised:	DATE:
Approved:	DATE:
DRWN BY: MED	DATE: 2/8/99
CHK'D BY:	DATE:

ON SITE	TECHNOLOGIES, LTD. Limited Partnership
612 E. MURRAY DR. FARMINGTON, NM 87401 PH. (505) 325-5667 FAX (505) 327-1498	
PROJECT NO: 4-1374	SHEET: 5 OF 7



SITE PLAN	CONOCO B COM #1E
9/15/98	Farmington, NM
ON SITE	
TECHNOLOGIES, LTD. Quality Performance	612 E. MURRAY DR. FARMINGTON, NM 87401 PH. (505) 326-5867 FAX (505) 327-1496
REVISED:	DATE:
REVISED:	DATE:
REVISED:	DATE:
APPROVED:	DATE:
DRWN BY: MED	DATE: 2/8/99
CHK'D BY:	DATE:
PROJECT NO: 4-1374	SHEET: 6 OF 7



REVISED:	DATE:	SITE PLAN	
REVISED:	DATE:	12/29/98	
REVISED:	DATE:		
APPROVED:	DATE:	CONOCO B COM #1E	
DRWN BY: MED	DATE: 2/8/99	Farmington, NM	
CHK'D BY:	DATE:		
		012 E. MURRAY DR. FARMINGTON, NM 87401 PH. (505) 325-5667 FAX (505) 327-1498	PROJECT NO: 4-1374 SHEET: 7 OF 7
 <p><small>TECHNOLOGIES, LTD. United Petroleum</small></p>			



OFF: (505) 325-5667

LAB: (505) 325-1556

June 22, 1998

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

RE: 4-1374; Conoco

Order No.: 9806055

Dear Larry Trujillo,

On Site Technologies, LTD. received 2 samples on 6/12/98 for the analyses presented in the following report.

The Samples were analyzed for the following tests:

BTEX (SW8020A)

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "David Cox".

David Cox



OFF: (505) 325-5667

LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 22-Jun-98

CLIENT: On Site Technologies, Limited Partnership
Project: 4-1374; Conoco
Lab Order: 9806055

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: 22-Jun-98**

Client:	On Site Technologies, Limited Partnership	Client Sample Info:	Farmington B-Com-1E
Work Order:	9806055	Client Sample ID:	MW #3
Lab ID:	9806055-01A	Matrix:	AQUEOUS
Project:	4-1374; Conoco	Collection Date:	6/12/98 10:12:00 AM
		COC Record:	5148

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
BTEX						
			SW8020A			Analyst: DC
Benzene	ND	0.5		µg/L	1	6/16/98
Toluene	ND	0.5		µg/L	1	6/16/98
Ethylbenzene	0.5	0.5		µg/L	1	6/16/98
m,p-Xylene	1.4	1		µg/L	1	6/16/98
o-Xylene	0.6	0.5		µg/L	1	6/16/98

Qualifiers: PQL - Practical Quantitation Limit S - Spike Recovery outside accepted recovery limits
ND - Not Detected at Practical Quantitation Limit R - RPD outside accepted recovery limits
J - Analyte detected below Practical Quantitation Limit E - Value above quantitation range
B - Analyte detected in the associated Method Blank Surr: - Surrogate

*I 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: 22-Jun-98**

Client:	On Site Technologies, Limited Partnership	Client Sample Info:	Farmington B-Com-1E
Work Order:	9806055	Client Sample ID:	MW #2
Lab ID:	9806055-02A	Matrix:	AQUEOUS
Project:	4-1374; Conoco	Collection Date:	6/12/98 10:39:00 AM
		COC Record:	5148

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
BTEX						
				SW8020A		Analyst: DC
Benzene	0.8	0.5		µg/L	1	6/16/98
Toluene	2.7	0.5		µg/L	1	6/16/98
Ethylbenzene	32	0.5		µg/L	1	6/16/98
m,p-Xylene	150	1		µg/L	1	6/16/98
o-Xylene	21	0.5		µg/L	1	6/16/98

Qualifiers: PQL - Practical Quantitation Limit S - Spike Recovery outside accepted recovery limits
ND - Not Detected at Practical Quantitation Limit R - RPD outside accepted recovery limits
J - Analyte detected below Practical Quantitation Limit E - Value above quantitation range
B - Analyte detected in the associated Method Blank Surrogate

*I of 1***P.O. BOX 2606 • FARMINGTON, NM 87499***- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -*

On Site Technologies, LTD.

CLIENT: On Site Technologies, Limited Partnership
Work Order: 9806055
Project: 4-1374; Conoco

Sample ID: MB1	Batch ID: GC-1_980616	Test Code: SW8020A	Units: µg/L	Analysis Date: 6/16/98			Prep Date:				
Client ID:	Run ID: GC-1_980616A			Seq No:	3136						
Analyte	Result	FQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	.0478	0.5									J
Ethylbenzene	ND	0.5									J
m,p-Xylene	.1193	1									
Methyl tert-Butyl Ether	ND	1									
o-Xylene	ND	0.5									
Toluene	.0988	0.5									

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

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

1 of 1

On Site Technologies, LTD.

CLIENT: On Site Technologies, Limited Partnership
Work Order: 9806055
Project: 4-1374; Conoco

Date: 22-Jun-98

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: 9806052-02AMSD Batch ID: GC-1_980616 Test Code: SW8020A Units: µg/L								Analysis Date: 6/16/98 SeqNo: 3137 Prep Date:							
Client ID:	9806055	Run ID:	GC-1_980616A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual		
Benzene	1823	10	800	1021	100.3%	56	128								
Ethylbenzene	1178	10	800	404.6	96.7%	78	107								
m,p-Xylene	2263	20	1600	739.2	95.2%	67	118								
Methyl tert-Butyl Ether	776.8	20	800	22.28	94.3%	70	130								
o-Xylene	1042	10	800	243.9	99.8%	78	107								
Toluene	1298	10	800	507.9	98.8%	74	116								
Sample ID: 9806052-02AMSD Batch ID: GC-1_980616 Test Code: SW8020A Units: µg/L								Analysis Date: 6/16/98 SeqNo: 3138 Prep Date:							
Client ID:	9806055	Run ID:	GC-1_980616A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual		
Benzene	1771	10	800	1021	93.8%	56	128	1823	2.9%	12					
Ethylbenzene	1146	10	800	404.6	92.7%	78	107	1178	2.7%	11					
m,p-Xylene	2188	20	1600	739.2	90.6%	67	118	2263	3.3%	10					
Methyl tert-Butyl Ether	760.7	20	800	22.28	92.3%	70	130	776.8	2.1%	15					
o-Xylene	1026	10	800	243.9	97.8%	78	107	1042	1.5%	14					
Toluene	1264	10	800	507.9	94.5%	74	116	1298	2.7%	14					

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

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

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

CLIENT: On Site Technologies, Limited Partnership

Work Order: 9806055

Project: 4-1374; Conoco

Date: 22-Jun-98

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: LCS WATER	Batch ID: GC-1_980616	Test Code: SW8020A	Units: µg/L	Analysis Date: 6/16/98			Prep Date:				
Client ID:	9806055	Run ID: GC-1_980616A		SeqNo:	3435						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	41.01	0.5	40	0.0478	102.4%	56	128				
Ethylbenzene	41.79	0.5	40	0	104.5%	78	107				
m,p-Xylene	79.51	1	80	0.1193	99.2%	67	118				
Methyl tert-Butyl Ether	44.96	1	40	0	112.4%	70	130				
o-Xylene	40.79	0.5	40	0	102.0%	78	107				
Toluene	40.42	0.5	40	0.0988	100.8%	74	116				

Qualifiers:

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

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

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

CLIENT: On Site Technologies, Limited Partnership
Work Order: 9806055
Project: 4-1374; Conoco

Date: 22-Jun-98

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV1 QC0529/30	Batch ID: GC-1_980616	Test Code: SW8020A	Units: µg/L					Analysis Date: 6/16/98	Prep Date:		
Client ID: 9806055	Run ID: GC-1_980616A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	21.71	0.5	20	0	108.5%	85	115				
Ethylbenzene	22.4	0.5	20	0	112.0%	85	115				
m,p-Xylene	42.29	1	40	0	105.7%	85	115				
Methyl tert-Butyl Ether	23.12	1	20	0	115.6%	85	115				S
o-Xylene	21.74	0.5	20	0	108.7%	85	115				
Toluene	21.52	0.5	20	0	107.6%	85	115				
1,4-Difluorobenzene	93.47	0	100	0	93.5%	70	130				
4-Bromochlorobenzene	85.45	0	100	0	85.4%	70	130				
Fluorobenzene	93.66	0	100	0	93.7%	70	130				
Sample ID: CCV2 QC0529/30	Batch ID: GC-1_980616	Test Code: SW8020A	Units: µg/L					Analysis Date: 6/16/98	Prep Date:		
Client ID: 9806055	Run ID: GC-1_980616A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.55	0.5	20	0	102.8%	85	115				
Ethylbenzene	21.3	0.5	20	0	106.5%	85	115				
m,p-Xylene	39.94	1	40	0	99.9%	85	115				
Methyl tert-Butyl Ether	21.29	1	20	0	106.5%	85	115				
o-Xylene	21.45	0.5	20	0	107.2%	85	115				
Toluene	20.47	0.5	20	0	102.3%	85	115				
1,4-Difluorobenzene	93.62	0	100	0	93.6%	70	130				
4-Bromochlorobenzene	83.56	0	100	0	83.6%	70	130				
Fluorobenzene	93.34	0	100	0	93.3%	70	130				

Qualifiers:

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

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

B - Analyte detected in the associated Method Blank

CLIENT: On Site Technologies, Limited Partnership
Work Order: 9806055
Project: 4-1374; Conoco

QC SUMMARY REPORT
Continuing Calibration Verification Standard

Sample ID: ccv3 QC0529/30	Batch ID: GC-1_980616	Test Code: SW8020A	Units: µg/L	Analysis Date: 6/16/98				Prep Date:		
Client ID:	9806055	Run ID: GC-1_980616A		SeqNo:	3134			%RPD	RPDLimit	Qual
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val		
Benzene	40.28	0.5	40	0	100.7%	85	115			
Ethylbenzene	40.18	0.5	40	0	100.5%	85	115			
m,p-Xylene	77.38	1	80	0	96.7%	85	115			
Methyl tert-Butyl Ether	37.36	1	40	0	93.4%	85	115			
o-Xylene	40.35	0.5	40	0	100.9%	85	115			
Toluene	40.24	0.5	40	0	100.6%	85	115			
1,4-Difluorobenzene	92.6	0	100	0	92.6%	70	130			
4-Bromochlorobenzene	80.3	0	100	0	80.3%	70	130			
Fluorobenzene	93.09	0	100	0	93.1%	70	130			

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

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

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 22-Jun-98

CLIENT: On Site Technologies, Limited Partnership
Work Order: 9806055
Project: 4-1374; Conoco
Test No: SW8020A

**QC SUMMARY REPORT
SURROGATE RECOVERIES**

BTEX

Sample ID 14FBZ 4BCBZ FLBZ

9806014-03A	92.3	86.2	93					
9806014-04A	91.9	86.7	92.8					
9806014-05A	92	86.3	93.2					
9806043-03A	93.3	84	94.6					
9806043-04A	93.2	82.9	94.6					
9806044-03A	93.8	86.5	94					
9806044-04A	92.3	85.8	95.6					
9806044-05A	93.3	86.1	94.2					
9806045-01A	90.2	84.9	91.2					
9806052-01A	90.4	83.2	90.4					
9806052-02A	92.4	75.5	93.2					
9806052-02AMS	91.9	86.3	92.5					
9806052-02AMSD	92.4	85.4	92.6					
9806052-03A	93.5	85.8	94.6					
9806053-01A	99.2	103	125					
9806053-02A	93.4	82.8	94.1					
9806053-03A	93.5	82.4	94.1					
9806054-01A	93.3	82.3	94.3					
9806054-02A	93.6	81.9	94					
9806055-01A	94	81.1	93.8					
9806055-02A	91.8	81.8	93.8					
9806058-01A	93.8	85.9	94.1					
9806058-02A	97.8	82.9	93.9					
9806063-01A	94.8	84	94.4					
9806063-02A	93.6	87.3	94.6					
CCV1 QC0529/30	93.5	85.4	93.7					
CCV2 QC0529/30	93.6	83.6	93.3					

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

* Surrogate recovery outside acceptance limits

CLIENT: On Site Technologies, Limited Partnership
Work Order: 9806055
Project: 4-1374; Conoco
Test No: SW8020A

**QC SUMMARY REPORT
SURROGATE RECOVERIES**

BTEX

Sample ID **14FBZ** **4BCBZ** **FLBZ**

CCV3 QC0529/30	92.6	80.3	93.1					
LCS WATER	93.8	85.4	93.7					
MBI	93.6	84.4	94.4					

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

* Surrogate recovery outside acceptance limits

ON SITE

TECHNOLOGIES, LTD.

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

CHAIN OF CUSTODY RECORD

Page 1 of 1Date: 10/22/2002

Purchase Order No.:	Job No.:	Name	Title
Name	Company	Company	Company
Address	Dept.	Mailing Address	
City, State, Zip	Telephone No.	City, State, Zip	Telephone No.
Sampling Location:	ANALYSIS REQUESTED		
Sampler:			
SAMPLE IDENTIFICATION		SAMPLE	
		DATE	TIME
1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24
25	26	27	28
29	30	31	32
33	34	35	36
37	38	39	40
41	42	43	44
45	46	47	48
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97	98	99	100
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541	542	543	544
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553	554	555	556
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565	566	567	568
569	570	571	572
573	574	575	576
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581	582	583	584
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617	618	619	620
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697	698	699	700
701	702	703	704
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709	710	711	712
713	714	715	716
717	718	719	720
721	722	723	724
725	726	727	728
729	730	731	732
733	734	735	736
737	738	739	740
741	742	743	744
745	746	747	748
749	750	751	752
753	754	755	756
757	758	759	760
761	762	763	764
765	766	767	768
769	770	771	772
773	774	775	776
777	778	779	780
781	782	783	784
785	786	787	788
789	790	791	792
793	794	795	796
797	798	799	800
801	802	803	804
805	806	807	808
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861	862	863	864
865	866	867	868
869	870	871	872
873	874	875	876
877	878	879	880
881	882	883	884
885	886	887	888
889	890	891	892
893	894	895	896
897	898	899	900
901	902	903	904
905	906	907	908
909	910	911	912
913	914	915	916
917	918	919	920
921	922	923	924
925	926	927	928
929	930	931	932
933	934	935	936
937	938	939	940
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949	950	951	952
953	954	955	956
957	958	959	960
961	962	963	964
965	966	967	968
969	970	971	972
973	974	975	976
977	978	979	980
981	982	983	984
985	986	987	988
989	990	991	992
993	994	995	996
997	998	999	1000
1001	1002	1003	1004
1005	1006	1007	1008
1009	1010	1011	1012
1013	1014	1015	1016
1017	1018	1019	1020
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1105	1106	1107	1108
1109	1110	1111	1112
1113	1114	1115	1116
1117	1118	1119	1120
1121	1122	1123	1124
1125	1126	1127	1128
1129	1130	1131	1132
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1149	1150	1151	1152
1153	1154	1155	1156
1157	1158	1159	1160
116			

ON SITE

CHAIN OF CUSTODY RECORD

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

Page _____ of _____
Date: _____



OFF: (505) 325-5667

LAB: (505) 325-1556

October 13, 1998

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

RE: 4-1374; Conoco

Order No.: 9809035

Dear Larry Trujillo,

On Site Technologies, LTD. received 5 samples on 9/15/98 for the analyses presented in the following report.

The Samples were analyzed for the following tests:

Alkalinity, Total (M2320 B)
AQPREP TOTAL METALS: ICP (SW3010A)
BTEX (SW8020A)
Calcium by AA (SW7140)
Chloride (M4500-Cl C.)
Hardness, Total (E130.1)
ICP METALS-RCRA, Total (SW6010A)
Iron, Dissolved (SW7380)
Magnesium by AA (SW7450)
pH (E150.1)
Potassium by AA (SW7610)
Resistivity (M2510 C)
Sodium by AA (SW7770)
Specific Gravity (M2710 F)
Sulfate (M4500-SO4 D)
Total Dissolved Solids (M2540 C.)

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,

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -



OFF: (505) 325-5667

LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 13-Oct-98

CLIENT: On Site Technologies, Limited Partnership
Project: 4-1374; Conoco
Lab Order: 9809035

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: 13-Oct-98

Client:	On Site Technologies, Limited Partnership	Client Sample Info:	B-Com-1E
Work Order:	9809035	Client Sample ID:	MW-2
Lab ID:	9809035-01A	Matrix:	AQUEOUS
Project:	4-1374; Conoco	Collection Date:	9/15/98 2:48:00 PM
		COC Record:	5557

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
BTEX						
			SW8020A			Analyst: DC
Benzene	1.3	1		µg/L	1	9/21/98
Toluene	2.5	1		µg/L	1	9/21/98
Ethylbenzene	39	1		µg/L	1	9/21/98
m,p-Xylene	30	2		µg/L	1	9/21/98
o-Xylene	3.3	1		µg/L	1	9/21/98

Qualifiers:	PQL - Practical Quantitation Limit	S - Spike Recovery outside accepted recovery limits
	ND - Not Detected at Practical Quantitation Limit	R - RPD outside accepted recovery limits
	J - Analyte detected below Practical Quantitation Limit	E - Value above quantitation range
	B - Analyte detected in the associated Method Blank	Surr: - Surrogate

1 of 1

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -



OFF: (505) 325-5667

LAB: (505) 325-1556

ANALYTICAL REPORT**Date:** 13-Oct-98

Client:	On Site Technologies, Limited Partnership	Client Sample Info:	B-Com-1E
Work Order:	9809035	Client Sample ID:	MW-#3
Lab ID:	9809035-02A	Matrix:	AQUEOUS
Project:	4-1374; Conoco	Collection Date:	9/15/98 2:44:00 PM
		COC Record:	5557

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
BTEX						
			SW8020A			Analyst: DC
Benzene	ND	1		µg/L	1	9/21/98
Toluene	ND	1		µg/L	1	9/21/98
Ethylbenzene	ND	1		µg/L	1	9/21/98
m,p-Xylene	ND	2		µg/L	1	9/21/98
o-Xylene	ND	1		µg/L	1	9/21/98

Qualifiers: PQL - Practical Quantitation Limit S - Spike Recovery outside accepted recovery limits
ND - Not Detected at Practical Quantitation Limit R - RPD outside accepted recovery limits
J - Analyte detected below Practical Quantitation Limit E - Value above quantitation range
B - Analyte detected in the associated Method Blank Surr: - Surrogate

*I 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: 13-Oct-98

Client:	On Site Technologies, Limited Partnership	Client Sample Info:	B-Com-1E
Work Order:	9809035	Client Sample ID:	MW #4
Lab ID:	9809035-03A	Matrix:	AQUEOUS
Project:	4-1374; Conoco	Collection Date:	9/15/98 2:30:00 PM
		COC Record:	5557

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
BTEX	SW8020A					Analyst: DC
Benzene	ND	1		µg/L	1	9/22/98
Toluene	ND	1		µg/L	1	9/22/98
Ethylbenzene	ND	1		µg/L	1	9/22/98
m,p-Xylene	ND	2		µg/L	1	9/22/98
o-Xylene	ND	1		µg/L	1	9/22/98

Qualifiers: PQL - Practical Quantitation Limit S - Spike Recovery outside accepted recovery limits
ND - Not Detected at Practical Quantitation Limit R - RPD outside accepted recovery limits
J - Analyte detected below Practical Quantitation Limit E - Value above quantitation range
B - Analyte detected in the associated Method Blank Surr. - Surrogate

1 of 1

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 13-Oct-98

Client:	On Site Technologies, Limited Partnership	Client Sample Info:	B-Com-1E
Work Order:	9809035	Client Sample ID:	MW #4
Lab ID:	9809035-03C	Matrix:	AQUEOUS
Project:	4-1374; Conoco	Collection Date:	9/15/98 2:30:00 PM
		COC Record:	5557

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
CALCIUM BY AA Calcium	SW7140 81	10		mg/L	40	Analyst: HR 10/2/98
IRON, DISSOLVED Iron	SW7380 ND	0.25		mg/L	1	Analyst: HR 10/5/98
POTASSIUM BY AA Potassium	SW7610 8.6	1.2		mg/L	5	Analyst: HR 10/2/98
MAGNESIUM BY AA Magnesium	SW7450 24	2.5		mg/L	10	Analyst: HR 10/2/98
SODIUM BY AA Sodium	SW7770 230	25		mg/L	100	Analyst: HR 10/2/98
ALKALINITY, TOTAL Alkalinity, Bicarbonate (As CaCO ₃)	M2320 B 370	5		mg/L CaCO ₃	1	Analyst: HR 9/21/98
		ND	5	mg/L CaCO ₃	1	9/21/98
		370	5	mg/L CaCO ₃	1	9/21/98
CHLORIDE Chloride	M4500-CL C. 280	10		mg/L	1	Analyst: HR 9/25/98
HARDNESS, TOTAL Hardness (As CaCO ₃)	E130.1 300	1		mg/L	1	Analyst: HR 10/5/98
PH pH	E150.1 7.33	2		pH units	1	Analyst: HR 9/21/98
RESISTIVITY Resistivity	M2510 C 7.7940	0.001		ohm-m	1	Analyst: HR 9/21/98
SPECIFIC GRAVITY Specific Gravity	M2710 F 1.001	1			1	Analyst: HR 10/5/98
SULFATE Sulfate	M4500-SO ₄ D 95	5		mg/L	1	Analyst: HR 9/30/98
TOTAL DISSOLVED SOLIDS Total Dissolved Solids (Residue, Filterable)	M2540 C. 1100	40		mg/L	1	Analyst: HR 10/5/98

Qualifiers: PQL - Practical Quantitation Limit S - Spike Recovery outside accepted recovery limits
 ND - Not Detected at Practical Quantitation Limit R - RPD outside accepted recovery limits
 J - Analyte detected below Practical Quantitation Limit E - Value above quantitation range
 B - Analyte detected in the associated Method Blank Surr: - Surrogate

1 of 1

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 13-Oct-98

Client:	On Site Technologies, Limited Partnership	Client Sample Info:	B-Com-1E
Work Order:	9809035	Client Sample ID:	MW #5
Lab ID:	9809035-04A	Matrix:	AQUEOUS
Project:	4-1374; Conoco	Collection Date:	9/15/98 2:35:00 PM
		COC Record:	5557

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
BTEX						
		SW8020A				Analyst: DC
Benzene	ND	1		µg/L	1	9/22/98
Toluene	ND	1		µg/L	1	9/22/98
Ethylbenzene	ND	1		µg/L	1	9/22/98
m,p-Xylene	ND	2		µg/L	1	9/22/98
o-Xylene	ND	1		µg/L	1	9/22/98

Qualifiers: PQL - Practical Quantitation Limit
ND - Not Detected at Practical Quantitation Limit
J - Analyte detected below Practical Quantitation Limit
B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
Surr: - Surrogate

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P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 13-Oct-98

Client:	On Site Technologies, Limited Partnership	Client Sample Info:	B-Com-1E
Work Order:	9809035	Client Sample ID:	MW #5
Lab ID:	9809035-04C	Matrix:	AQUEOUS
Project:	4-1374; Conoco	Collection Date:	9/15/98 2:35:00 PM
		COC Record:	5557

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
CALCIUM BY AA Calcium	SW7140 110	12	mg/L	50	10/2/98	Analyst: HR
IRON, DISSOLVED Iron	SW7380 ND	0.25	mg/L	1	10/5/98	Analyst: HR
POTASSIUM BY AA Potassium	SW7610 12	1.2	mg/L	5	10/2/98	Analyst: HR
MAGNESIUM BY AA Magnesium	SW7450 32	5	mg/L	20	10/2/98	Analyst: HR
SODIUM BY AA Sodium	SW7770 230	25	mg/L	100	10/2/98	Analyst: HR
ALKALINITY, TOTAL Alkalinity, Bicarbonate (As CaCO ₃)	M2320 B 380	5	mg/L CaCO ₃	1	9/21/98	
Alkalinity, Carbonate (As CaCO ₃)	ND	5	mg/L CaCO ₃	1	9/21/98	
Alkalinity, Total (As CaCO ₃)	380	5	mg/L CaCO ₃	1	9/21/98	
CHLORIDE Chloride	M4500-CL C. 340	10	mg/L	1	9/25/98	Analyst: HR
HARDNESS, TOTAL Hardness (As CaCO ₃)	E130.1 412	1	mg/L	1	10/5/98	Analyst: HR
PH pH	E150.1 7.25	2	pH units	1	9/21/98	Analyst: HR
RESISTIVITY Resistivity	M2510 C 6.7070	0.001	ohm-m	1	9/21/98	Analyst: HR
SPECIFIC GRAVITY Specific Gravity	M2710 F 1.001	1		1	10/5/98	Analyst: HR
SULFATE Sulfate	M4500-SO₄ D 100	5	mg/L	1	9/30/98	Analyst: HR
TOTAL DISSOLVED SOLIDS Total Dissolved Solids (Residue, Filterable)	M2540 C. 1200	40	mg/L	1	10/5/98	Analyst: HR

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

I 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: 13-Oct-98

Client:	On Site Technologies, Limited Partnership	Client Sample Info:	B-Com-1E
Work Order:	9809035	Client Sample ID:	MW #6
Lab ID:	9809035-05A	Matrix:	AQUEOUS
Project:	4-1374; Conoco	Collection Date:	9/15/98 2:26:00 PM
		COC Record:	5557

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
BTEX	SW8020A					Analyst: DC
Benzene	ND	1		µg/L	1	9/22/98
Toluene	ND	1		µg/L	1	9/22/98
Ethylbenzene	ND	1		µg/L	1	9/22/98
m,p-Xylene	ND	2		µg/L	1	9/22/98
o-Xylene	ND	1		µg/L	1	9/22/98

Qualifiers: PQL - Practical Quantitation Limit S - Spike Recovery outside accepted recovery limits
ND - Not Detected at Practical Quantitation Limit R - RPD outside accepted recovery limits
J - Analyte detected below Practical Quantitation Limit E - Value above quantitation range
B - Analyte detected in the associated Method Blank Surr: - Surrogate

I 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: 13-Oct-98**

Client:	On Site Technologies, Limited Partnership	Client Sample Info:	B-Com-1E
Work Order:	9809035	Client Sample ID:	MW #6
Lab ID:	9809035-05C	Matrix:	AQUEOUS
Project:	4-1374; Conoco	Collection Date:	9/15/98 2:26:00 PM
		COC Record:	5557

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
CALCIUM BY AA Calcium	SW7140 120	12		mg/L	50	Analyst: HR 10/2/98
IRON, DISSOLVED Iron	SW7380 ND	0.25		mg/L	1	Analyst: HR 10/5/98
POTASSIUM BY AA Potassium	SW7610 8.6	1.2		mg/L	5	Analyst: HR 10/2/98
MAGNESIUM BY AA Magnesium	SW7450 36	5		mg/L	20	Analyst: HR 10/2/98
SODIUM BY AA Sodium	SW7770 98	12		mg/L	50	Analyst: HR 10/2/98
ALKALINITY, TOTAL Alkalinity, Bicarbonate (As CaCO ₃)	M2320 B 500	5		mg/L CaCO ₃	1	Analyst: HR 9/21/98
Alkalinity, Carbonate (As CaCO ₃)	ND	5		mg/L CaCO ₃	1	9/21/98
Alkalinity, Total (As CaCO ₃)	500	5		mg/L CaCO ₃	1	9/21/98
CHLORIDE Chloride	M4500-CL C. 130	10		mg/L	1	Analyst: HR 9/25/98
HARDNESS, TOTAL Hardness (As CaCO ₃)	E130.1 436	1		mg/L	1	Analyst: HR 10/5/98
PH pH	E150.1 7.11	2		pH units	1	Analyst: HR 9/21/98
RESISTIVITY Resistivity	M2510 C 9.6060	0.001		ohm-m	1	Analyst: HR 9/21/98
SPECIFIC GRAVITY Specific Gravity	M2710 F 1.002	1			1	Analyst: HR 10/5/98
SULFATE Sulfate	M4500-SO4 D 20	5		mg/L	1	Analyst: HR 9/30/98
TOTAL DISSOLVED SOLIDS Total Dissolved Solids (Residue, Filterable)	M2540 C. 910	40		mg/L	1	Analyst: HR 10/5/98

Qualifiers: PQL - Practical Quantitation Limit S - Spike Recovery outside accepted recovery limits
 ND - Not Detected at Practical Quantitation Limit R - RPD outside accepted recovery limits
 J - Analyte detected below Practical Quantitation Limit E - Value above quantitation range
 B - Analyte detected in the associated Method Blank Surr: - Surrogate

1 of 1

On Site Technologies, LTD.

CLIENT: On Site Technologies, Limited Partnership
Work Order: 9809035
Project: 4-1374; Conoco

QC SUMMARY REPORT
Method Blank

Date: 13-Oct-98

Sample ID: MB1	Batch ID: GC-1_980921	Test Code: SW8020A	Units: µg/L	Analysis Date: 9/21/98			Prep Date:	
Client ID:	Run ID: GC-1_980921A	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte	Result	PQL	SPK value	SPK Ref Val				
Benzene	.0421	1						J
Ethylbenzene	.0623	1						J
m,p-Xylene	.1705	2						J
o-Xylene	.1247	1						J
Toluene	.1509	1						J

Sample ID: MB1	Batch ID: GC-1_980922	Test Code: SW8020A	Units: µg/L	Analysis Date: 9/22/98			Prep Date:	
Client ID:	Run ID: GC-1_980922A	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte	Result	PQL	SPK value	SPK Ref Val				
Benzene	.0445	1						J
Ethylbenzene	ND	1						
m,p-Xylene	ND	2						
o-Xylene	.0627	1						J
Toluene	.1011	1						J

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

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

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

CLIENT: On Site Technologies, Limited Partnership
Work Order: 9809035
Project: 4-1374; Conoco

QC SUMMARY REPORT

Sample Matrix Spike

Analysis Date: 9/21/98							Prep Date:		
Sample ID: 9809031-02AMSD	Batch ID: GC-1_980921	Test Code: SW8020A	Units: µg/L		SeqNo:	6731	%RPD	RPDLimit	Qual
Client ID:	9809035	Run ID: GC-1_980921A		%REC	LowLimit	HighLimit	RPD Ref Val		
Analyte	Result	PQL	SPK value	SPK Ref Val					
Benzene	191.1	5	200	0.4255	95.3%	56	128		
Ethylbenzene	211.5	5	200	0.4985	105.5%	78	107		
m,p-Xylene	414.5	10	400	2.556	103.0%	67	118		
o-Xylene	201.8	5	200	0.3315	100.8%	78	107		
Toluene	204.9	5	200	1.194	101.8%	74	116		
Sample ID: 9809031-02AMSD	Batch ID: GC-1_980921	Test Code: SW8020A	Units: µg/L		SeqNo:	6732	%RPD	RPDLimit	Qual
Client ID:	9809035	Run ID: GC-1_980921A		%REC	LowLimit	HighLimit	RPD Ref Val		
Analyte	Result	PQL	SPK value	SPK Ref Val					
Benzene	184.1	5	200	0.4255	91.8%	56	128		
Ethylbenzene	206.4	5	200	0.4985	103.0%	78	107		
m,p-Xylene	404.8	10	400	2.556	100.6%	67	118		
o-Xylene	196.7	5	200	0.3315	98.2%	78	107		
Toluene	198.3	5	200	1.194	99.1%	74	116		
Sample ID: 9809053-03AMSD	Batch ID: GC-1_980922	Test Code: SW8020A	Units: µg/L		SeqNo:	6745	%RPD	RPDLimit	Qual
Client ID:	9809035	Run ID: GC-1_980922A		%REC	LowLimit	HighLimit	RPD Ref Val		
Analyte	Result	PQL	SPK value	SPK Ref Val					
Benzene	185.3	5	200	1.291	92.0%	56	128		
Ethylbenzene	201.4	5	200	3.72	98.9%	78	107		
m,p-Xylene	416.4	10	400	23.92	98.1%	67	118		
o-Xylene	205.7	5	200	10.49	97.6%	78	107		
Toluene	200.6	5	200	9.649	95.5%	74	116		

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

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

B - Analyte detected in the associated Method Blank

Date: 13-Oct-98

1 of 2

CLIENT: On Site Technologies, Limited Partnership
Work Order: 9809035
Project: 4-1374; Conoco

QC SUMMARY REPORT
Sample Matrix Spike Duplicate

Sample ID:	9809055-03AMSD	Batch ID:	GC-1_980922	Test Code:	SW8020A	Units:	µg/L	Analysis Date: 9/22/98			Prep Date:	
Client ID:			9809035	Run ID:	GC-1_980922A			SeqNo:	6746			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene		180.8	5	200	1.291	89.8%	56	128	185.3	2.5%	12	
Ethylbenzene		193.3	5	200	3.72	94.8%	78	107	201.4	4.1%	11	
m,p-Xylene		406.1	10	400	23.92	95.6%	67	118	416.4	2.5%	10	
o-Xylene		204.2	5	200	10.49	96.9%	78	107	205.7	0.7%	14	
Toluene		197.3	5	200	9.649	93.8%	74	116	200.6	1.7%	14	

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

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

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

CLIENT: On Site Technologies, Limited Partnership
Work Order: 9809035
Project: 4-1374; Conoco

Date: 13-Oct-98

QC SUMMARY REPORT
Laboratory Control Spike - generic

Sample ID: LCS WATER		Batch ID: GC-1_980921		Test Code: SW8020A		Units: µg/L		Analysis Date: 9/21/98		Prep Date:			
Client ID:	9809035	Run ID:	GC-1_980921A	FQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	39.51	1	40	0.0421	98.7%	56	128						S
Ethylbenzene	43.12	1	40	0.0623	107.6%	78	107						
m,p-Xylene	85.18	2	80	0.1705	106.3%	67	118						
o-Xylene	42.33	1	40	0.1247	105.5%	78	107						
Toluene	41.78	1	40	0.1509	104.1%	74	116						
Sample ID: LCS WATER		Batch ID: GC-1_980922		Test Code: SW8020A		Units: µg/L		Analysis Date: 9/22/98		Prep Date:			
Client ID:	9809035	Run ID:	GC-1_980922A	FQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	39.03	1	40	0.0445	97.5%	56	128						
Ethylbenzene	41.56	1	40	0	103.9%	78	107						
m,p-Xylene	82.54	2	80	0	103.2%	67	118						
o-Xylene	40.95	1	40	0.0627	102.2%	78	107						
Toluene	40.15	1	40	0.1011	100.1%	74	116						

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

On Site Technologies, LTD.

CLIENT: On Site Technologies, Limited Partnership
Work Order: 9809035
Project: 4-1374; Conoco

Sample ID: **CCV1 QC0606/07** Batch ID: **GC-1_980921** Test Code: **SW8020A** Units: **µg/L**

Client ID:	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	Analysis Date: 9/21/98	SeqNo: 6726	Prep Date:
Benzene	20.22	1	20	0	101.1%	85	115							
Ethylbenzene	22.23	1	20	0	111.2%	85	115							
m,p-Xylene	43.6	2	40	0	109.0%	85	115							
o-Xylene	21.64	1	20	0	108.2%	85	115							
Toluene	21.52	1	20	0	107.6%	85	115							
1,4-Difluorobenzene	88.91	0	100	0	88.9%	70	130							
4-Bromochlorobenzene	79.55	0	100	0	79.5%	70	130							
Fluorobenzene	85.36	0	100	0	85.4%	70	130							
Sample ID: CCV2 QC0606/07 Batch ID: GC-1_980921 Test Code: SW8020A Units: µg/L														
Client ID:	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	Analysis Date: 9/21/98	SeqNo: 6727	Prep Date:
Benzene	19.84	1	20	0	99.2%	85	115							
Ethylbenzene	21.74	1	20	0	108.7%	85	115							
m,p-Xylene	42.67	2	40	0	106.7%	85	115							
o-Xylene	20.81	1	20	0	104.1%	85	115							
Toluene	20.98	1	20	0	104.9%	85	115							
1,4-Difluorobenzene	88.7	0	100	0	88.7%	70	130							
4-Bromochlorobenzene	69.55	0	100	0	69.6%	70	130							
Fluorobenzene	85.39	0	100	0	85.4%	70	130							

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Date: 13-Oct-98

QC SUMMARY REPORT

Continuing Calibration Verification Standard

CLIENT: On Site Technologies, Limited Partnership
Work Order: 9809035
Project: 4-1374; Conoco

QC SUMMARY REPORT
Continuing Calibration Verification Standard

Sample ID: CCV3 QC0606/07	Batch ID: GC-1_980921	Test Code: SW8020A	Units: µg/L	Analysis Date: 9/21/98				Prep Date:			
Client ID: 9809035	Run ID: GC-1_980921A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	37.58	1	40	0	93.9%	85	115				
Ethylbenzene	41.94	1	40	0	104.8%	85	115				
m,p-Xylene	82.28	2	80	0	102.9%	85	115				
o-Xylene	40.08	1	40	0	100.2%	85	115				
Toluene	40.64	1	40	0	101.6%	85	115				
1,4-Difluorobenzene	87.81	0	100	0	87.8%	70	130				
4-Bromochlorobenzene	63.38	0	100	0	63.4%	70	130				
Fluorobenzene	84.05	0	100	0	84.0%	70	130				
<hr/>											
Sample ID: CCV1 QC0606/07	Batch ID: GC-1_980922	Test Code: SW8020A	Units: µg/L	Analysis Date: 9/22/98				Prep Date:			
Client ID: 9809035	Run ID: GC-1_980922A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.18	1	20	0	100.9%	85	115				
Ethylbenzene	21.48	1	20	0	107.4%	85	115				
m,p-Xylene	42.26	2	40	0	105.6%	85	115				
o-Xylene	20.9	1	20	0	104.5%	85	115				
Toluene	20.74	1	20	0	103.7%	85	115				
1,4-Difluorobenzene	91.14	0	100	0	91.1%	70	130				
4-Bromochlorobenzene	80.67	0	100	0	80.7%	70	130				
Fluorobenzene	91.16	0	100	0	91.2%	70	130				

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

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

B - Analyte detected in the associated Method Blank

CLIENT: On Site Technologies, Limited Partnership
Work Order: 9809035
Project: 4-1374; Conoco

QC SUMMARY REPORT
Continuing Calibration Verification Standard

Sample ID: CCV2 QC0606/07	Batch ID: GC-1_980922	Test Code: SW8020A	Units: µg/L	Analysis Date: 9/22/98				Prep Date:				
Client ID:	9809035	Run ID: GC-1_980922A		SeqNo:	6742	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
Analyte	Result	PQL	SPK value	SPK Ref Val								
Benzene	19.67	1	20	0	98.3%	85	115	115				
Ethylbenzene	20.87	1	20	0	104.3%	85	115	115				
m,p-Xylene	41.74	2	40	0	104.3%	85	115	115				
o-Xylene	20.89	1	20	0	104.5%	85	115	115				
Toluene	20.77	1	20	0	103.9%	85	115	115				
1,4-Difluorobenzene	91.19	0	100	0	91.2%	70	130	130				
4-Bromochlorobenzene	64.62	0	100	0	64.6%	70	130	130				
Fluorobenzene	89.76	0	100	0	89.8%	70	130	130				

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

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

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 13-Oct-98

CLIENT: On Site Technologies, Limited Partnership
Work Order: 9809035
Project: 4-1374; Conoco
Test No: SW8020A

**QC SUMMARY REPORT
SURROGATE RECOVERIES**

BTEX

Sample ID	14FBZ	4BCBZ	FLBZ						
9809027-01A	88.5	71	85						
9809027-02A	86	58.3 *	82.6						
9809027-03A	87.8	58.5 *	84.3						
9809027-04A	88.6	78.6	88.4						
9809027-05A	87.2	67.7 *	84.1						
9809028-01A	79	39.9 *	75.7						
9809029-01A	86.3	58 *	83.2						
9809030-01A	88.8	64 *	84.6						
9809031-01A	86.8	55.5 *	80						
9809031-02A	89.3	70.7	85.1						
9809031-02AMS	88.3	66.9 *	84.2						
9809031-02AMSD	87.7	63.8 *	83.8						
9809031-03A	82.7	40.8 *	78						
9809033-01A	83.4	44.6 *	79.4						
9809034-01A	89.9	71	85.8						
9809034-02A	83.8	61.4 *	82.2						
9809034-03A	89.3	76	85.4						
9809034-04A	89.3	69.8 *	85.3						
9809034-05A	87.6	55.7 *	83.1						
9809035-01A	78.8	36.9 *	74.3						
9809035-02A	87.3	53.2 *	82.7						
9809035-03A	91.2	62.8 *	90.1						
9809035-04A	91	66.5 *	90.6						
9809035-05A	90.9	65.2 *	90						
9809051-01A	86.7	45.2 *	85.4						
9809051-02A	88.3	56.2 *	87.9						
9809051-03A	91	60.9 *	89.9						

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

* Surrogate recovery outside acceptance limits

CLIENT: On Site Technologies, Limited Partnership
Work Order: 9809035
Project: 4-1374; Conoco
Test No: SW8020A

**QC SUMMARY REPORT
SURROGATE RECOVERIES**

BTEX

Sample ID	14FBZ	4BCBZ	FLBZ						
9809055-03A	90.4	56.8 *	89.4						
9809055-03AMS	90.7	76.5	90.3						
9809055-03AMSD	90.2	75.4	90.3						
CCV1 QC0606/07	91.1	80.7	91.2						
CCV2 QC0606/07	91.2	64.6 *	89.8						
CCV3 QC0606/07	87.8	63.4 *	84						
LCS WATER	91.3	83.3	90.7						
MB1	92.4	80	91.3						

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

* Surrogate recovery outside acceptance limits

On Site Technologies, LTD.

CLIENT: On Site Technologies, Limited Partnership

Work Order: 9809035

Project: 4-1374; Conoco

Date: 14-Oct-98

QC SUMMARY REPORT

Method Blank

Sample ID: MBlank	Batch ID: API H2O_981	Test Code: SW7140	Units: mg/L	Analysis Date: 10/2/98			Prep Date:				
Client ID:	Run ID: 9809035	Run ID: API H2O_981005A		SeqNo:	7027						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	.02	0.25									J
Sample ID: MBlank	Batch ID: API H2O_981	Test Code: SW7610	Units: mg/L	Analysis Date: 10/2/98			Prep Date:				
Client ID:	Run ID: 9809035	Run ID: API H2O_981005A		SeqNo:	7041						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Potassium	ND	0.25									
Sample ID: MBlank	Batch ID: API H2O_981	Test Code: SW7450	Units: mg/L	Analysis Date: 10/2/98			Prep Date:				
Client ID:	Run ID: 9809035	Run ID: API H2O_981005A		SeqNo:	7084						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Magnesium	ND	0.25									
Sample ID: MBlank	Batch ID: API H2O_981	Test Code: SW7770	Units: mg/L	Analysis Date: 10/2/98			Prep Date:				
Client ID:	Run ID: 9809035	Run ID: API H2O_981005A		SeqNo:	7098						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sodium	ND	0.25									
Sample ID: MBlank	Batch ID: API H2O_981	Test Code: M2320 B	Units: mg/L CaCO₃	Analysis Date: 9/21/98			Prep Date:				
Client ID:	Run ID: 9809035	Run ID: API H2O_981005A		SeqNo:	7112						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Bicarbonate (As CaCO ₃)	3	5									J
Alkalinity, Carbonate (As CaCO ₃)	ND	5									
Alkalinity, Total (As CaCO ₃)	3	5									J

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: On Site Technologies, Limited Partnership
Work Order: 9809035
Project: 4-1374; Conoco

QC SUMMARY REPORT
Method Blank

Sample ID: MBlank	Batch ID: API H2O_981	Test Code: M4500-C1 C.	Units: mg/L					Analysis Date: 9/25/98	Prep Date:		
Client ID:	9809035	Run ID:	API H2O_981005A					SeqNo: 7120			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	1.4	10									J
Sample ID: MBlank	Batch ID: API H2O_981	Test Code: M4500-C1 C.	Units: mg/L					Analysis Date: 9/25/98	Prep Date:		
Client ID:	9809035	Run ID:	API H2O_981005A					SeqNo: 7125			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	3.5	10									J
Sample ID: MBlank	Batch ID: API H2O_981	Test Code: E120.1	Units: uS/cm					Analysis Date: 9/21/98	Prep Date:		
Client ID:	9809035	Run ID:	API H2O_981005A					SeqNo: 7131			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Specific Conductance	ND	2									
Sample ID: MBlank	Batch ID: API H2O_981	Test Code: M4500-SO4 D	Units: mg/L					Analysis Date: 9/30/98	Prep Date:		
Client ID:	9809035	Run ID:	API H2O_981005A					SeqNo: 7153			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	ND	5									
Sample ID: MBlank	Batch ID: API H2O_981	Test Code: SW7380	Units: mg/L					Analysis Date: 10/5/98	Prep Date:		
Client ID:	9809035	Run ID:	API H2O_981005A					SeqNo: 7380			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	ND	0.25									

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits

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

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 14-Oct-98

CLIENT: On Site Technologies, Limited Partnership
Work Order: 9809035
Project: 4-1374; Conoco

QC SUMMARY REPORT
 Sample Duplicate

Sample ID:	Batch ID:	Test Code:	Units:	CaCO3	Analysis Date:	SeqNo:	Prep Date:				
Client ID:	Run ID:	API H2O_981005A	mg/L		9/21/98	7115					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Bicarbonate (As CaCO3)	362	5	0	0	0.0%	0	0	351	3.1%	5	
Alkalinity, Carbonate (As CaCO3)	ND	5	0	0	0.0%	0	0	0	0.0%	5	
Alkalinity, Total (As CaCO3)	362	5	0	0	0.0%	0	0	351	3.1%	5	
Sample ID:	Batch ID:	Test Code:	Units:	mg/L	Analysis Date:	SeqNo:	Prep Date:				
Client ID:	Run ID:	API H2O_981005A	mg/L		9/25/98	7123					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	19	10	0	0	0.0%	0	0	20.5	7.6%	10	
Sample ID:	Batch ID:	Test Code:	Units:	mg/L	Analysis Date:	SeqNo:	Prep Date:				
Client ID:	Run ID:	API H2O_981005A	mg/L		9/30/98	7157					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	299	5	0	0	0.0%	0	0	307	2.6%	6	
Sample ID:	Batch ID:	Test Code:	Units:	mg/L	Analysis Date:	SeqNo:	Prep Date:				
Client ID:	Run ID:	API H2O_981005A	mg/L		9/25/98	7129					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	336	10	0	0	0.0%	0	0	341	1.5%	7	

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

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

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

CLIENT: On Site Technologies, Limited Partnership

Work Order: 9809035

Project: 4-1374; Conoco

Date: 14-Oct-98

QC SUMMARY REPORT

Sample Matrix Spike

Client ID: MW #6	Sample ID: 9809035-05CMS	Batch ID: API H2O_981	Test Code: SW7380	Units: mg/L	Analysis Date: 10/5/98			Prep Date:			
Client ID:	9809035	Run ID:	API H2O_981005A		SeqNo:	7385					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	2.24	0.25	2	0.05	109.5%	66	126				
Sample ID: 9809073-01BMS	Batch ID: API H2O_981	Test Code: SW7610	Units: mg/L		Analysis Date: 10/2/98				Prep Date:		
Client ID:	9809035	Run ID:	API H2O_981005A		SeqNo:	7053					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Potassium	12.6	0.25	5	7.4	104.0%	67	157				
Sample ID: 9809074-02BMS	Batch ID: API H2O_981	Test Code: SW7140	Units: mg/L		Analysis Date: 10/2/98				Prep Date:		
Client ID:	9809035	Run ID:	API H2O_981005A		SeqNo:	7039					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	298	0.25	100	182	116.0%	69	159				
Sample ID: 9809074-02BMS	Batch ID: API H2O_981	Test Code: SW7450	Units: mg/L		Analysis Date: 10/2/98				Prep Date:		
Client ID:	9809035	Run ID:	API H2O_981005A		SeqNo:	7096					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Magnesium	66.4	0.25	20	44	112.0%	78	126				
Sample ID: 9809075-02BMS	Batch ID: API H2O_981	Test Code: SW7770	Units: mg/L		Analysis Date: 10/2/98				Prep Date:		
Client ID:	9809035	Run ID:	API H2O_981005A		SeqNo:	7110					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sodium	1360	0.25	400	990	92.5%	81	135				

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

J - Analyte detected below quantitation limits

I of 1

On Site Technologies, LTD.

CLIENT: On Site Technologies, Limited Partnership
Work Order: 9809035
Project: 4-1374; Conoco

Date: 14-Oct-98

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: LCS	Batch ID: API H2O_981	Test Code: M2320 B	Units: mg/L CaCO3	Analysis Date: 9/21/98			Prep Date:				
Client ID:	9809035	Run ID: API H2O_981005A		SeqNo:	7113						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	211	5	201	3	103.5%	91	116				
Sample ID: LCS	Batch ID: API H2O_981	Test Code: M4500-CI C.	Units: mg/L	Analysis Date: 9/25/98			Prep Date:				
Client ID:	9809035	Run ID: API H2O_981005A		SeqNo:	7121						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	113	10	108	1	103.7%	90	114				
Sample ID: LCS	Batch ID: API H2O_981	Test Code: M4500-CI C.	Units: mg/L	Analysis Date: 9/25/98			Prep Date:				
Client ID:	9809035	Run ID: API H2O_981005A		SeqNo:	7126						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	103	10	108	4	91.7%	90	114				
Sample ID: LCS	Batch ID: API H2O_981	Test Code: E120.1	Units: uS/cm	Analysis Date: 9/21/98			Prep Date:				
Client ID:	9809035	Run ID: API H2O_981005A		SeqNo:	7132						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Specific Conductance	1121	2	1100	0	101.9%	97	103				
Sample ID: LCS	Batch ID: API H2O_981	Test Code: M2510 C	Units: ohm-mm	Analysis Date: 9/21/98			Prep Date:				
Client ID:	9809035	Run ID: API H2O_981005A		SeqNo:	7138						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Resistivity	8.921	0.001	9.091	0	98.1%	97	103				

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits

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

B - Analyte detected in the associated Method Blank

1 of 2

CLIENT: On Site Technologies, Limited Partnership
Work Order: 9809035
Project: 4-1374; Conoco

QC SUMMARY REPORT
Laboratory Control Spike - generic

Sample ID: LCS	Batch ID: API H2O_981	Test Code: E150.1	Units: pH units	Analysis Date: 9/21/98			Prep Date:				
Client ID:	Run ID: 9809035	Run ID: API H2O_981005A		SeqNo:	7147						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	9.029	2	9.11	0	99.1%	98	102				
Sample ID: LCS	Batch ID: API H2O_981	Test Code: M4500-SO4 D	Units: mg/L	Analysis Date: 9/30/98			Prep Date:				
Client ID:	Run ID: 9809035	Run ID: API H2O_981005A		SeqNo:	7154						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	143	5	139	0	102.9%	83	113				

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

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

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

CLIENT: On Site Technologies, Limited Partnership
Work Order: 9809035
Project: 4-1374; Conoco

QC SUMMARY REPORT
Continuing Calibration Verification Standard

Sample ID: CCV1	Batch ID: API H2O_981	Test Code: SW7140	Units: mg/L	Analysis Date: 10/2/98			Prep Date:						
Client ID:	Run ID: 9809035	Run ID: API H2O_981005A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	SeqNo: 7028
Calcium		1.98	0.25	1.95	0	101.5%	89	107					
Sample ID: CCV1	Batch ID: API H2O_981	Test Code: SW7610	Units: mg/L	Analysis Date: 10/2/98			Prep Date:						
Client ID:	Run ID: 9809035	Run ID: API H2O_981005A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	SeqNo: 7042
Analyte		2.65	0.25	2.68	0	98.9%	84	114					
Potassium		1.61	0.25	1.58	0	101.9%	96	114					
Sample ID: CCV1	Batch ID: API H2O_981	Test Code: SW7450	Units: mg/L	Analysis Date: 10/2/98			Prep Date:						
Client ID:	Run ID: 9809035	Run ID: API H2O_981005A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	SeqNo: 7085
Analyte		2.84	0.25	2.64	0	107.6%	87	111					
Magnesium		2.17	0.25	2	0	108.5%	87	111					
Sample ID: CCV1	Batch ID: API H2O_981	Test Code: SW7770	Units: mg/L	Analysis Date: 10/2/98			Prep Date:						
Client ID:	Run ID: 9809035	Run ID: API H2O_981005A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	SeqNo: 7099
Analyte		2.84	0.25	2.64	0	107.6%	87	111					
Sodium		2.17	0.25	2	0	108.5%	87	111					
Sample ID: CCV1	Batch ID: API H2O_981	Test Code: SW7380	Units: mg/L	Analysis Date: 10/5/98			Prep Date:						
Client ID:	Run ID: 9809035	Run ID: API H2O_981005A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	SeqNo: 7381
Analyte		2.17	0.25	2	0	108.5%	87	111					
Iron													

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

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

B - Analyte detected in the associated Method Blank

CLIENT: On Site Technologies, Limited Partnership
Work Order: 9809035
Project: 4-1374; Conoco

QC SUMMARY REPORT
Continuing Calibration Verification Standard

Sample ID: ccv2		Batch ID: API H2O_981		Test Code: SW7140		Units: mg/L		Analysis Date: 10/2/98		Prep Date:	
Client ID: 9809035		Run ID: API H2O_981005A						SeqNo: 7040			
Analyte		Result		PQL SPK value		SPK Ref Val		%REC		LowLimit HighLimit RPD Ref Val	
Calcium		1.98	0.25	1.95	0	101.5%	89	107			
Sample ID: ccv2		Batch ID: API H2O_981		Test Code: SW7610		Units: mg/L		Analysis Date: 10/2/98		Prep Date:	
Client ID: 9809035		Run ID: API H2O_981005A						SeqNo: 7054			
Analyte		Result		PQL SPK value		SPK Ref Val		%REC		LowLimit HighLimit RPD Ref Val	
Potassium		2.66	0.25	2.68	0	99.3%	84	114			
Sample ID: ccv2		Batch ID: API H2O_981		Test Code: SW7450		Units: mg/L		Analysis Date: 10/2/98		Prep Date:	
Client ID: 9809035		Run ID: API H2O_981005A						SeqNo: 7097			
Analyte		Result		PQL SPK value		SPK Ref Val		%REC		LowLimit HighLimit RPD Ref Val	
Magnesium		1.62	0.25	1.58	0	102.5%	96	114			
Sample ID: ccv2		Batch ID: API H2O_981		Test Code: SW7770		Units: mg/L		Analysis Date: 10/2/98		Prep Date:	
Client ID: 9809035		Run ID: API H2O_981005A						SeqNo: 7111			
Analyte		Result		PQL SPK value		SPK Ref Val		%REC		LowLimit HighLimit RPD Ref Val	
Sodium		2.8	0.25	2.64	0	106.1%	87	111			

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

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

B - Analyte detected in the associated Method Blank

RECEIVED OCT 05 1998



Mountain States Analytical, Inc.

The Quality Solution

September 30, 1998

Mr. David Cox
On Site Technologies, Ltd.
612 E Murray Drive
Farmington, NM 87401

Reference:

Project: Water Analysis
MSAI Group: 24100

Dear Mr. Cox:

Enclosed are the analytical results for your project referenced above. The following samples are included in the report.

9809035-03B

9809035-04B

9809035-05B

All holding times were met for the tests performed on these samples.

If the report is acceptable, please approve the associated invoice and forward it for payment.

Thank you for selecting Mountain States Analytical, Inc. to serve as your analytical laboratory on this project. If you have any questions concerning these results, please feel free to contact me at any time.

We look forward to working with you on future projects.

With Regards,

A handwritten signature in black ink, appearing to read "Rolf E. Larsen".

Rolf E. Larsen
Project Manager

10
Years of
Quality
Service

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801-973-0050 • 1-800-973-6724(MSAI) • FAX 801-972-6278
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6223 Bayonne, Spring, Texas 77389
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Mountain States Analytical, Inc.

The Quality Solution

On Site Technologies, Ltd.
612 E Murray Drive
Farmington, NM 87401

Attn: Mr. David Cox
Project: Water Analysis

Sample ID: 9809035-03B B-Com-1E MW-4
Matrix: Water

MSAI Sample: 86643
MSAI Group: 24100
Date Reported: 09/30/98
Discard Date: 10/30/98
Date Submitted: 09/17/98
Date Sampled: 09/15/98
Collected by:
Purchase Order:
Project No.:

Test Analysis	Results as Received	Units	Dilution Factor	Limit of Quantitation
0392I Flame/ICP Prep, w/ww, 3005A Method: SW-846 3005A	Batch. w614		1	
0407 Mercury Prep CVAA, ww, 7470A Method: SW-846 7470A	Batch. w222		1	
13001 Metals by ICP, 6010A, w/ww Method: SW-846 6010A				
Arsenic	ND	mg/l	1	0.180
Barium	0.330	mg/l	1	0.015
Cadmium	ND	mg/l	1	0.020
Chromium	ND	mg/l	1	0.050
Lead	ND	mg/l	1	0.250
Selenium	ND	mg/l	1	0.300
Silver	ND	mg/l	1	0.020
1521 Mercury by CVAA, w/ww, 7470A Method: SW-846 7470A	ND	mg/l	1	0.00050



Mountain States Analytical, Inc.

The Quality Solution

On Site Technologies, Ltd.

Page 2

Sample ID: 9809035-03B

MSAI Sample: 86643
MSAI Group: 24100

ND - Not detected at the Limit of Quantitation.

This report consists of the following items: A cover letter, a signed analytical report for each sample specified on the cover letter, and if applicable, an inorganic quality control summary. Organic sample reports contain footnotes which describe any quality control anomalies which may have occurred.

Respectfully Submitted,
Reviewed and Approved by:


Rolf E. Larsen
Project Manager

10
Years of
Quality
Service

Corporate Office

1645 West 2200 South, Salt Lake City, Utah 84119
801-973-0050 • 1-800-973-6724(MSAI) • FAX 801-972-6278
e-mail: service@msailabs.com

Southwest States Region

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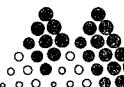
On Site Technologies, Ltd.
612 E Murray Drive
Farmington, NM 87401

Attn: Mr. David Cox
Project: Water Analysis

Sample ID: 9809035-04B B-Com-1E MW-5
Matrix: Water

MSAI Sample: 86644
MSAI Group: 24100
Date Reported: 09/30/98
Discard Date: 10/30/98
Date Submitted: 09/17/98
Date Sampled: 09/15/98
Collected by:
Purchase Order:
Project No.:

Test Analysis	Results as Received	Units	Dilution Factor	Limit of Quantitation
0392I Flame/ICP Prep, w/ww, 3005A Method: SW-846 3005A	Batch. w614		1	
0407 Mercury Prep CVAA, ww, 7470A Method: SW-846 7470A	Batch. w222		1	
13001 Metals by ICP, 6010A, w/ww Method: SW-846 6010A				
Arsenic	ND	mg/l	1	0.180
Barium	0.175	mg/l	1	0.015
Cadmium	ND	mg/l	1	0.020
Chromium	ND	mg/l	1	0.050
Lead	ND	mg/l	1	0.250
Selenium	ND	mg/l	1	0.300
Silver	ND	mg/l	1	0.020
1521 Mercury by CVAA, w/ww, 7470A Method: SW-846 7470A	ND	mg/l	1	0.00050



Mountain States Analytical, Inc.

The Quality Solution

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Page 2

MSAI Sample: 86644
MSAI Group: 24100

Sample ID: 9809035-04B

ND - Not detected at the Limit of Quantitation.

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Respectfully Submitted,
Reviewed and Approved by:

Rolf E. Larsen
Project Manager

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On Site Technologies, Ltd.
612 E Murray Drive
Farmington, NM 87401

Attn: Mr. David Cox
Project: Water Analysis

Sample ID: 9809035-05B B-Com-1E MW-6
Matrix: Water

(PQ)
MSAI Sample: 86645
MSAI Group: 24100
Date Reported: 09/30/98
Discard Date: 10/30/98
Date Submitted: 09/17/98
Date Sampled: 09/15/98
Collected by:
Purchase Order:
Project No.:

Test Analysis	Results as Received	Units	Dilution Factor	Limit of Quantitation
03921 Flame/ICP Prep, w/ww, 3005A Method: SW-846 3005A	Batch. w614		1	
0407 Mercury Prep CVAA, ww, 7470A Method: SW-846 7470A	Batch. w222		1	
13001 Metals by ICP, 6010A, w/ww Method: SW-846 6010A				
Arsenic	ND	mg/l	1	0.180
Barium	0.588	mg/l	1	0.015
Cadmium	ND	mg/l	1	0.020
Chromium	ND	mg/l	1	0.050
Lead	ND	mg/l	1	0.250
Selenium	ND	mg/l	1	0.300
Silver	ND	mg/l	1	0.020
1521 Mercury by CVAA, w/ww, 7470A Method: SW-846 7470A	ND	mg/l	1	0.00050



On Site Technologies, Ltd.

The Quality Solution

Sample ID: 9809035-05B

Page 2

MSAI Sample: 86645
MSAI Group: 24100

ND - Not detected at the Limit of Quantitation.

This report consists of the following items: A cover letter, a signed analytical report for each sample specified on the cover letter, and if applicable, an inorganic quality control summary. Organic sample reports contain footnotes which describe any quality control anomalies which may have occurred.

Respectfully Submitted,
Reviewed and Approved by:

Rolf E. Larsen
Project Manager

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Analysis Batch Number: 1521 -09/25/98-147 -1

Test Identification : 1521 -Mercury by CVAA, w/ww, 7470A

Sequence : 1521 -1

Number of Samples : 11

Batch Data-Date/Time : 09/28/98 / 15:39:54

BLANK#	ANALYTE	CONC FOUND #	CONC LIMIT
BW1-222	Mercury	0.0200	0.1000
PBW2-222-2	Mercury	0.0080	0.1000

SPIKE SAMPLE#	ANALYTE	CONC ADDED	CONC SAMPLE	CONC SPIKE	% REC #	QC LIMITS LOWER	UPPER
23877-85711	Mercury	2.5000	0.0340	2.4680	97.4	80.0	120.0

SD SAMPLE#	ANALYTE	CONC ADDED	CONC SAMPLE	RESULT 2	%REC2 #	QC LIMITS LOWER	UPPER	RPD #	LIMIT
23877-85711	Mercury	2.5000	0.0340	2.4920	98.3	80.0	120.0	1.0	20.0

DUPLICATE SAMPLE#	ANALYTE	RESULT 1	RESULT 2	RPD #	LIMIT	DILUTION
23877-85711	Mercury	0.0340	0.0340	0.0	20.0	1.00

CONTROL SAMPLE#	ANALYTE	CONC FOUND	CONC KNOWN	% REC #	QC LIMITS LOWER	UPPER
CSW-222	Mercury	2.5900	2.5000	103.6	80.0	120.0

CCV #	ANALYTE	TRUE VALUE	BATCH READ	% REC #	QC LIMITS LOWER	UPPER
ICV-	Mercury	3.0000	2.9160	97.2	90.0	110.0
CCV--2	Mercury	5.0000	4.9750	99.5	80.0	120.0
CCV--3	Mercury	5.0000	4.9750	99.5	80.0	120.0
CCV--4	Mercury	5.0000	4.9460	98.9	80.0	120.0
CCV--5	Mercury	5.0000	4.9460	98.9	80.0	120.0

ICB#	ANALYTE	CONC FOUND #	CONC LIMIT
ICB-	Mercury	ND	0.1000
CCB-	Mercury	ND	0.1000
CB-	Mercury	ND	0.1000
CCB-	Mercury	ND	0.1000
CCB-	Mercury	ND	0.1000

Groups & Samples

23877-85710	23877-85711	24100-86643	24100-86644	24100-86645	24194-87068	24194-87069	24194-87070
24194-87071	24194-87072	24194-87073					

Analysis Batch Number: ICPWA-09/24/98-061 -1

Test Identification : ICPWA-*Metals by ICP

Sequence : DATA267

Number of Samples : 10

Batch Data-Date/Time : 09/25/98 / 09:48:57

ANK#	ANALYTE	CONC FOUND #	CONC LIMIT
4103-86655	Silver	0.0040	0.0050
	Arsenic	ND	0.0350
	Barium	ND	0.0030
	Calcium	0.0780	0.3000
	Cadmium	0.0018	0.0040
	Chromium	ND	0.0100
	Copper	ND	0.0100
	Iron	0.0177	0.2000
	Potassium	ND	0.1500
	Magnesium	ND	0.0500
	Manganese	0.0005	0.0030
	Sodium	0.2964(1c)	0.1500
	Lead	ND	0.0500
	Selenium	ND	0.0600

SPIKE

AMPLE#	ANALYTE	CONC ADDED	CONC SAMPLE	CONC SPIKE	% REC #	QC LIMITS	
						LOWER	UPPER
4103-86651	Silver	0.0500	0.0100	0.0583	96.6	80.0	120.0
	Arsenic	2.0000	-0.0062	2.1012	105.4	80.0	120.0
	Barium	2.0000	0.0785	2.1733	104.7	80.0	120.0
	Calcium	2.0000	62.8061	66.3201	175.7(2k)	80.0	120.0
	Cadmium	0.0500	-0.0004	0.0525	105.8	80.0	120.0
	Chromium	0.2000	0.0073	0.2233	108.0	80.0	120.0
	Copper	0.2500	0.0020	0.2604	103.4	80.0	120.0
	Iron	1.0000	0.0729	1.1686	109.6	80.0	120.0
	Potassium	10.0000	1.6795	12.0145	103.3	80.0	120.0
	Magnesium	2.0000	19.7145	22.2345	126.0(2k)	80.0	120.0
	Manganese	0.5000	0.0522	0.5765	104.9	80.0	120.0
	Sodium	3.0000	79.2783	84.3427	168.8(2k)	80.0	120.0
	Lead	0.5000	-0.0139	0.5242	107.6	80.0	120.0
	Selenium	2.0000	-0.0524	2.0778	106.5	80.0	120.0

MSD

AMPLE#	ANALYTE	CONC ADDED	CONC SAMPLE	RESULT 2	%REC2 #	QC LIMITS			
						LOWER	UPPER	RPD #	LIMIT
4103-86651	Silver	0.0500	0.0100	0.0627	105.5	80.0	120.0	7.3	20.0
	Arsenic	2.0000	-0.0062	2.0963	105.1	80.0	120.0	0.2	20.0
	Barium	2.0000	0.0785	2.1734	104.7	80.0	120.0	0.0	20.0
	Calcium	2.0000	62.8061	66.4974	184.6(2k)	80.0	120.0	0.3	20.0
	Cadmium	0.0500	-0.0004	0.0545	109.7	80.0	120.0	3.7	20.0
	Chromium	0.2000	0.0073	0.2202	106.5	80.0	120.0	1.4	20.0
	Copper	0.2500	0.0020	0.2604	103.4	80.0	120.0	0.0	20.0
	Iron	1.0000	0.0729	1.2398	116.7	80.0	120.0	5.9	20.0
	Potassium	10.0000	1.6795	11.9711	102.9	80.0	120.0	0.4	20.0
	Magnesium	2.0000	19.7145	22.3040	129.5(2k)	80.0	120.0	0.3	20.0
	Manganese	0.5000	0.0522	0.5789	105.3	80.0	120.0	0.4	20.0
	Sodium	3.0000	79.2783	83.9002	154.1(2k)	80.0	120.0	0.5	20.0
	Lead	0.5000	-0.0139	0.5298	108.7	80.0	120.0	1.1	20.0
	Selenium	2.0000	-0.0524	2.0799	106.6	80.0	120.0	0.1	20.0

Analysis Batch Number: ICPWA-09/24/98-061 -1

Test Identification : ICPWA-*Metals by ICP

Sequence : DATA267

Number of Samples : 10

Batch Data-Date/Time : 09/25/98 / 09:48:57

DUPLICATE

SAMPLE#	ANALYTE	RESULT 1	RESULT 2	RPD #	LIMIT	DILUTION
24103-86651	Silver	0.0100	0.0097	2.8	20.0	1.00
	Arsenic	-0.0062	0.0097	922.1(11)	20.0	1.00
	Barium	0.0785	0.0787	0.3	20.0	1.00
	Calcium	62.8061	62.5343	0.4	20.0	1.00
	Cadmium	-0.0004	0.0046	237.0(5a)	20.0	1.00
	Chromium	0.0073	0.0074	1.8	20.0	1.00
	Copper	0.0020	0.0032	48.8(11)	20.0	1.00
	Iron	0.0729	0.1543	71.7(11)	20.0	1.00
	Potassium	1.6795	1.7573	4.5	20.0	1.00
	Magnesium	19.7145	19.6092	0.5	20.0	1.00
	Manganese	0.0522	0.0524	0.3	20.0	1.00
	Sodium	79.2783	78.9522	0.4	20.0	1.00
	Lead	-0.0139	0.0000	200.0(11)	20.0	1.00
	Selenium	-0.0524	0.0086	278.1(11)	20.0	1.00

CONTROL

SAMPLE#	ANALYTE	CONC FOUND	CONC KNOWN	% REC #	QC LIMITS	
24103-86656	Silver	0.0597	0.0500	119.5	80.0	120.0
	Arsenic	2.0574	2.0000	102.9	80.0	120.0
	Barium	2.0527	2.0000	102.6	80.0	120.0
	Calcium	2.1406	2.0000	107.0	80.0	120.0
	Cadmium	0.0560	0.0500	111.9	80.0	120.0
	Chromium	0.2189	0.2000	109.4	80.0	120.0
	Copper	0.2640	0.2500	105.6	80.0	120.0
	Iron	1.1052	1.0000	110.5	80.0	120.0
	Potassium	9.9520	10.0000	99.5	80.0	120.0
	Magnesium	2.0760	2.0000	103.8	80.0	120.0
	Manganese	0.5213	0.5000	104.3	80.0	120.0
	Sodium	3.5163	3.0000	117.2	80.0	120.0
	Lead	0.5430	0.5000	108.6	80.0	120.0
	Selenium	2.0281	2.0000	101.4	80.0	120.0

QC LIMITS

ICV #	ANALYTE	TRUE VALUE	BATCH READ	% REC #	LOWER	UPPER
ICV-	Silver	0.4000	0.4064	101.6	90.0	110.0
	Arsenic	1.6000	1.6103	100.6	90.0	110.0
	Barium	4.0000	4.0834	102.1	90.0	110.0
	Calcium	40.0000	40.4738	101.2	90.0	110.0
	Cadmium	4.0000	4.1631	104.1	90.0	110.0
	Chromium	4.0000	4.1952	104.9	90.0	110.0
	Copper	4.0000	4.0853	102.1	90.0	110.0
	Iron	4.0000	4.1454	103.6	90.0	110.0
	Potassium	40.0000	40.9306	102.3	90.0	110.0
	Magnesium	20.0000	20.1841	100.9	90.0	110.0
	Manganese	4.0000	4.0954	102.4	90.0	110.0
	Sodium	40.0000	40.9969	102.5	90.0	110.0
	Lead	20.0000	21.0281	105.1	90.0	110.0
	Selenium	1.6000	1.5645	97.8	90.0	110.0
CCV1--2	Silver	0.4000	0.4194	104.8	90.0	110.0

Analysis Batch Number: ICPWA-09/24/98-061 -1

Test Identification : ICPWA-*Metals by ICP

Sequence : DATA267

Number of Samples : 10

Batch Data-Date/Time : 09/25/98 / 09:48:57

QC LIMITS

<u>CV #</u>	<u>ANALYTE</u>	<u>TRUE VALUE</u>	<u>BATCH READ</u>	<u>% REC #</u>	<u>LOWER</u>	<u>UPPER</u>
CCV1--2	Arsenic	1.6000	1.6432	102.7	90.0	110.0
	Barium	4.0000	4.1018	102.5	90.0	110.0
	Calcium	40.0000	40.8217	102.1	90.0	110.0
	Cadmium	4.0000	4.1723	104.3	90.0	110.0
	Chromium	4.0000	4.2290	105.7	90.0	110.0
	Copper	4.0000	4.1212	103.0	90.0	110.0
	Iron	4.0000	4.1652	104.1	90.0	110.0
	Potassium	40.0000	40.8238	102.1	90.0	110.0
	Magnesium	20.0000	20.4256	102.1	90.0	110.0
	Manganese	4.0000	4.1156	102.9	90.0	110.0
	Sodium	40.0000	41.0541	102.6	90.0	110.0
	Lead	20.0000	21.1152	105.6	90.0	110.0
	Selenium	1.6000	1.6191	101.2	90.0	110.0
	Silver	0.4000	0.4181	104.5	90.0	110.0
CCV2--3	Arsenic	1.6000	1.6383	102.4	90.0	110.0
	Barium	4.0000	4.0816	102.0	90.0	110.0
	Calcium	40.0000	41.2029	103.0	90.0	110.0
	Cadmium	4.0000	4.2039	105.1	90.0	110.0
	Chromium	4.0000	4.2519	106.3	90.0	110.0
	Copper	4.0000	4.1109	102.8	90.0	110.0
	Iron	4.0000	4.1178	102.9	90.0	110.0
	Potassium	40.0000	40.8026	102.0	90.0	110.0
	Magnesium	20.0000	20.5400	102.7	90.0	110.0
	Manganese	4.0000	4.1300	103.2	90.0	110.0
	Sodium	40.0000	40.6721	101.7	90.0	110.0
	Lead	20.0000	21.3646	106.8	90.0	110.0
	Selenium	1.6000	1.6321	102.0	90.0	110.0
	Silver	0.4000	0.4215	105.4	90.0	110.0
CCV3--4	Arsenic	1.6000	1.6202	101.3	90.0	110.0
	Barium	4.0000	4.0724	101.8	90.0	110.0
	Calcium	40.0000	41.0872	102.7	90.0	110.0
	Cadmium	4.0000	4.1762	104.4	90.0	110.0
	Chromium	4.0000	4.2272	105.7	90.0	110.0
	Copper	4.0000	4.1059	102.6	90.0	110.0
	Iron	4.0000	4.1345	103.4	90.0	110.0
	Potassium	40.0000	40.6969	101.7	90.0	110.0
	Magnesium	20.0000	20.5378	102.7	90.0	110.0
	Manganese	4.0000	4.1119	102.8	90.0	110.0
	Sodium	40.0000	40.4344	101.1	90.0	110.0
	Lead	20.0000	21.2893	106.4	90.0	110.0
	Selenium	1.6000	1.5933	99.6	90.0	110.0
	Silver	0.4000	0.4266	106.6	90.0	110.0
CCV4--5	Arsenic	1.6000	1.6460	102.9	90.0	110.0
	Barium	4.0000	4.0690	101.7	90.0	110.0
	Calcium	40.0000	41.1093	102.8	90.0	110.0
	Cadmium	4.0000	4.1940	104.8	90.0	110.0
	Chromium	4.0000	4.2412	106.0	90.0	110.0
	Copper	4.0000	4.1126	102.8	90.0	110.0
	Iron	4.0000	4.1717	104.3	90.0	110.0

Analysis Batch Number: ICPWA-09/24/98-061 -1

Test Identification : ICPWA-*Metals by ICP

Sequence : DATA267

Number of Samples : 10

Batch Data-Date/Time : 09/25/98 / 09:48:57

QC LIMITS

CV #	ANALYTE	TRUE VALUE	BATCH READ	% REC #	LOWER	UPPER
CCV4--5	Potassium	40.0000	40.8221	102.1	90.0	110.0
	Magnesium	20.0000	20.5457	102.7	90.0	110.0
	Manganese	4.0000	4.1232	103.1	90.0	110.0
	Sodium	40.0000	40.5592	101.4	90.0	110.0
	Lead	20.0000	21.3627	106.8	90.0	110.0
	Selenium	1.6000	1.5817	98.9	90.0	110.0

CCB# ANALYTE CONC FOUND # CONC LIMIT

CCB-	Silver	0.0049	0.0050
	Arsenic	0.0030	0.0350
	Barium	0.0002	0.0030
	Calcium	0.0025	0.3000
	Cadmium	0.0011	0.0040
	Chromium	0.0008	0.0100
	Copper	ND	0.0100
	Iron	ND	0.2000
	Potassium	0.0556	0.1500
	Magnesium	ND	0.0500
	Manganese	0.0002	0.0030
	Sodium	ND	0.1500
	Lead	ND	0.0500
	Selenium	ND	0.0600

CB1-	Silver	0.0056(8a)	0.0050
	Arsenic	ND	0.0350
	Barium	0.0013	0.0030
	Calcium	0.0076	0.3000
	Cadmium	0.0014	0.0040
	Chromium	0.0079	0.0100
	Copper	0.0069	0.0100
	Iron	ND	0.2000
	Potassium	0.1339	0.1500
	Magnesium	0.0169	0.0500
	Manganese	0.0001	0.0030
	Sodium	ND	0.1500
	Lead	ND	0.0500

CB2-	Selenium	0.0122	0.0600
	Silver	0.0069(8a)	0.0050
	Arsenic	0.0092	0.0350
	Barium	0.0015	0.0030
	Calcium	0.0076	0.3000
	Cadmium	0.0012	0.0040
	Chromium	0.0057	0.0100
	Copper	0.0033	0.0100
	Iron	ND	0.2000
	Potassium	0.1043	0.1500
	Magnesium	0.0122	0.0500
	Manganese	0.0001	0.0030
	Sodium	ND	0.1500
	Lead	ND	0.0500

Analysis Batch Number: ICPWA-09/24/98-061 -1

Test Identification : ICPWA-*Metals by ICP

Sequence : DATA267

Number of Samples : 10

Batch Data-Date/Time : 09/25/98 / 09:48:57

CB#	ANALYTE	CONC FOUND #	CONC LIMIT
CCB2-	Selenium	0.0174	0.0600
CCB3-	Silver	0.0061(8a)	0.0050
	Arsenic	0.0015	0.0350
	Barium	0.0009	0.0030
	Calcium	0.0039	0.3000
	Cadmium	0.0020	0.0040
	Chromium	0.0018	0.0100
	Copper	0.0036	0.0100
	Iron	0.0194	0.2000
	Potassium	0.0463	0.1500
	Magnesium	0.0036	0.0500
	Manganese	0.0006	0.0030
	Sodium	ND	0.1500
	Lead	ND	0.0500
	Selenium	ND	0.0600
CCB4-	Silver	0.0065(8a)	0.0050
	Arsenic	0.0039	0.0350
	Barium	0.0004	0.0030
	Calcium	0.0076	0.3000
	Cadmium	0.0037	0.0040
	Chromium	0.0015	0.0100
	Copper	0.0037	0.0100
	Iron	ND	0.2000
	Potassium	0.0385	0.1500
	Magnesium	0.0114	0.0500
	Manganese	0.0004	0.0030
	Sodium	ND	0.1500
	Lead	ND	0.0500
	Selenium	ND	0.0600

----- Result Footnotes -----

- (4c) - The preparation blank concentration is less than 5% of each sample in the batch.
- (2k) - Sample concentration >4X spk added. Serial dilution was recovered within 10% limits.
- (11) - The duplicate results cannot be evaluated because both results are <MDL.
- (5a) - Duplicates not evaluated: Results are <10x detection limit
- (8a) - See comments below.

----- Batch Notes -----

The silver CCB's were within customer established limits for some samples, all others were re-analyzed. djk

Groups & Samples

24083-86559	24098-86640	24098-86641	24100-86643	24100-86644	24100-86645	24101-86646	24101-86647
24103-86651	24103-86652	24103-86655	24103-86656				

Analysis Batch Number: ICPWA-09/25/98-061 -1

Test Identification : ICPWA-*Metals by ICP

Sequence : DATB268

Number of Samples : 6

Batch Data-Date/Time : 09/25/98 / 14:53:43

BLANK#	ANALYTE	CONC FOUND #	CONC LIMIT
CSW-614	Silver	ND	0.0050

SPIKE		QC LIMITS					
SAMPLE#	ANALYTE	CONC ADDED	CONC SAMPLE	CONC SPIKE	% REC #	LOWER	UPPER
24103-86651	Silver	0.0500	-0.0037	0.0498	107.0	80.0	120.0

SD		QC LIMITS							
SAMPLE#	ANALYTE	CONC ADDED	CONC SAMPLE	RESULT 2	%REC2 #	LOWER	UPPER	RPD #	LIMIT
24103-86651	Silver	0.0500	-0.0037	0.0499	107.3	80.0	120.0	0.3	20.0

DUPLICATE		QC LIMITS				
SAMPLE#	ANALYTE	RESULT 1	RESULT 2	RPD #	LIMIT	DILUTION
24103-86651	Silver	-0.0037	0.0000	200.0(11)	20.0	1.00

CONTROL		QC LIMITS				
SAMPLE#	ANALYTE	CONC FOUND	CONC KNOWN	% REC #	LOWER	UPPER
CSW-614	Silver	0.0493	0.0500	98.5	80.0	120.0

CCV #		QC LIMITS				
	ANALYTE	TRUE VALUE	BATCH READ	% REC #	LOWER	UPPER
CCV-	Silver	0.4000	0.4057	101.4	90.0	110.0
CCV1--2	Silver	0.4000	0.4041	101.0	90.0	110.0
CCV2--3	Silver	0.4000	0.4039	101.0	90.0	110.0
CCV3--4	Silver	0.4000	0.4055	101.4	90.0	110.0

CCB#		QC LIMITS			
	ANALYTE	CONC FOUND #	CONC LIMIT		
CCB-	Silver	ND	0.0050		
CCB1-	Silver	0.0004	0.0050		
CCB2-	Silver	0.0017	0.0050		
CCB3-	Silver	0.0029	0.0050		

----- Result Footnotes -----

(11) - The duplicate results cannot be evaluated because both results are <MDL.

Groups & Samples

24100-86643 24100-86644 24100-86645 24101-86646 24101-86647 24103-86651

On Site Technologies, LTD.
612 E. Murray Drive
Farmington, NM 87401
(505) 325-2432

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Submitted by:

Heidi Ross
612 E. Murray Drive
Farmington, NM 87401

Subcontractor:

Mountain States Analytical, Inc.
1645 West 12200 South
Salt Lake City, UT 84119

Acct #:

15-Sep-98

Sample ID	Matrix	Collection Date	Bottle Type	Requested Tests		
				SW6010A
9809035-03B	Aqueous	9/15/98 2:30:00 PM	250HDPE	1
9809035-04B	Aqueous	9/15/98 2:35:00 PM	250HDPE	1
9809035-05B	Aqueous	9/15/98 2:26:00 PM	250HDPE	1

Comments:

Please analyze three (3) water samples per RCRA Metals.

Inquired by: Heidi Ross
Inquired by:

Date/Time

9/16/98 1530

Date/Time

9/17-98 1000

Date/Time

Received by:

Date/Time

Received by:

ON SITE

TECHNOLOGIES, LTD.

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

CHAIN OF CUSTODY RECORD

Page 1 of 1

Date: 11/13/96

Purchase Order No.:		Job No. <u>41-12345</u>		Title	
Name	Company	Address	Dept.	Telephone No.	Telefax No.
SEND TO INVOICE	RESULTS TO REPORT	ANALYSIS REQUESTED			
Sampling Location: <u>22 - 36 - 11</u>	Sampler:	Number of Containers		LAB ID	
SAMPLE IDENTIFICATION		SAMPLE DATE	TIME	MATRIX	PRES.
<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>
<i>7</i>	<i>8</i>	<i>9</i>	<i>10</i>	<i>11</i>	<i>12</i>
<i>13</i>	<i>14</i>	<i>15</i>	<i>16</i>	<i>17</i>	<i>18</i>
<i>19</i>	<i>20</i>	<i>21</i>	<i>22</i>	<i>23</i>	<i>24</i>
<i>25</i>	<i>26</i>	<i>27</i>	<i>28</i>	<i>29</i>	<i>30</i>
<i>31</i>	<i>32</i>	<i>33</i>	<i>34</i>	<i>35</i>	<i>36</i>
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<i>49</i>	<i>50</i>	<i>51</i>	<i>52</i>	<i>53</i>	<i>54</i>
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<i>115</i>	<i>116</i>	<i>117</i>	<i>118</i>	<i>119</i>	<i>120</i>
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<i>757</i>	<i>758</i>	<i>759</i>	<i>760</i>	<i>761</i>	<i>762</i>
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<i>781</i>	<i>782</i>	<i>783</i>	<i>784</i>	<i>785</i>	<i>786</i>
<i>787</i>	<i>788</i>	<i>789</i>	<i>790</i>	<i>791</i>	<i>792</i>
<i>793</i>	<i>794</i>	<i>795</i>	<i>796</i>	<i>797</i>	<i>798</i>
<i>799</i>	<i>800</i>	<i>801</i>	<i>802</i>	<i>803</i>	<i>804</i>
<i>805</i>	<i>806</i>	<i>807</i>	<i>808</i>	<i>809</i>	<i>810</i>
<i>811</i>	<i>812</i>	<i>813</i>	<i>814</i>	<i>815</i>	<i>816</i>
<i>817</i>	<i>818</i>	<i>819</i>	<i>820</i>	<i>821</i>	<i>822</i>
<i>823</i>	<i>824</i>	<i>825</i>	<i>826</i>	<i>827</i>	<i>828</i>
<i>829</i>	<i>830</i>	<i>831</i>	<i>832</i>	<i>833</i>	<i>834</i>
<i>835</i>	<i>836</i>	<i>837</i>	<i>838</i>	<i>839</i>	<i>840</i>
<i>841</i>	<i>842</i>	<i>843</i>	<i>844</i>	<i>845</i>	<i>8</i>

ON SITE

TECHNOLOGIES, LTD.

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

CHAIN OF CUSTODY RECORD

Page _____ of _____
Date: _____



OFF: (505) 325-5667

LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 07-Jan-99

Client:	On Site Technologies, Limited Partnership	Client Sample Info:	Farmington B-Com 1E
Work Order:	9812053	Client Sample ID:	MW-6
Lab ID:	9812053-01A	Matrix:	AQUEOUS
Project:	4-1374; Conoco: Farmington B-Com 1E	Collection Date:	12/29/98 10:20:00 AM
		COC Record:	5643

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
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BTEX	SW8021B					Analyst: HR
Benzene	ND	0.5		µg/L	1	12/30/98
Toluene	ND	0.5		µg/L	1	12/30/98
Ethylbenzene	ND	0.5		µg/L	1	12/30/98
m,p-Xylene	ND	1		µg/L	1	12/30/98
o-Xylene	ND	0.5		µg/L	1	12/30/98

Qualifiers: PQL - Practical Quantitation Limit S - Spike Recovery outside accepted recovery limits
ND - Not Detected at Practical Quantitation Limit R - RPD outside accepted recovery limits
J - Analyte detected below Practical Quantitation Limit E - Value above quantitation range
B - Analyte detected in the associated Method Blank Surr: - Surrogate

1 of 1

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

On Site Technologies, LTD.

CLIENT: On Site Technologies, Limited Partnership

Work Order: 9812053

Project: 4-1374; Conoco: Farmington B-Com 1E

Date: 07-Jan-99

QC SUMMARY REPORT

Method Blank

Sample ID: MB1	Batch ID: GC-1_981230	Test Code: SW8021B	Units: µg/L	Analysis Date 12/30/98			Prep Date:		
Client ID:	Run ID:	GC-1_981230A		SeqNo:	9801		%RPD	RPDLimit	Qual
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	
Benzene	.0614	0.5							J
Ethybenzene	.0721	0.5							J
m,p-Xylene	.1759	1							J
Methyl tert-Butyl Ether	.0843	0.5							J
o-Xylene	.0738	0.5							J
Toluene	.1483	0.5							J

Sample ID: MB1	Batch ID: GC-1_981231	Test Code: SW8021B	Units: µg/L	Analysis Date 12/31/98			Prep Date:		
Client ID:	Run ID:	GC-1_981231A		SeqNo:	9830		%RPD	RPDLimit	Qual
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	
Benzene	.0577	0.5							J
Ethybenzene	ND	0.5							
m,p-Xylene	.1113	1							J
Methyl tert-Butyl Ether	.035	0.5							J
o-Xylene	ND	0.5							
Toluene	.1093	0.5							J

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

CLIENT: On Site Technologies, Limited Partnership
Work Order: 9812053
Project: 4-1374; Conoco: Farmington B-Com 1E

Date: 07-Jan-99

QC SUMMARY REPORT
Sample Matrix Spike

Sample ID: 9812053-04AMSD Batch ID: GC-1_981230 Test Code: SW8021B Units: µg/L							Analysis Date 12/30/98 SeqNo: 9802							Prep Date:	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual				
Benzene	43540	500	40000	610	107.3%	73	115								
Ethylbenzene	44000	500	40000	1000	107.5%	74	117								
m,p-Xylene	90940	1000	80000	6000	106.2%	76	112								
Methyl tert-Butyl Ether	44330	500	40000	100	110.6%	62	122								
o-Xylene	42250	500	40000	100	105.4%	83	112								
Toluene	43500	500	40000	400	107.8%	71	120								
Sample ID: 9812053-04AMSD Batch ID: GC-1_981230 Test Code: SW8021B Units: µg/L							Analysis Date 12/30/98 SeqNo: 9803							Prep Date:	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual				
Benzene	45270	500	40000	610	111.7%	73	115	43540	3.9%	12					
Ethylbenzene	44990	500	40000	1000	110.0%	74	117	44000	2.2%	11					
m,p-Xylene	93000	1000	80000	6000	108.8%	76	112	90940	2.2%	10					
Methyl tert-Butyl Ether	45850	500	40000	100	114.4%	62	122	44330	3.4%	15					
o-Xylene	43350	500	40000	100	108.1%	83	112	42250	2.6%	14					
Toluene	44610	500	40000	400	110.5%	71	120	43500	2.5%	14					

Qualifiers:

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

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

B - Analyte detected in the associated Method Blank

CLIENT: On Site Technologies, Limited Partnership
Work Order: 9812053
Project: 4-1374; Conoco: Farmington B-Com 1E

QC SUMMARY REPORT
Sample Matrix Spike

Analyte	Result	PQL		SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	Analysis Date 12/31/98		Prep Date:
		SeqNo:	9831	Run ID:	GC-1_981231A					Test Code: SW8021B	Batch ID: GC-1_981231	
Benzene	221.7	2.5	200	12	104.9%	73	115					
Ethylbenzene	247.1	2.5	200	39	104.0%	74	117					
m,p-Xylene	430.4	5	400	21	102.3%	76	112					
Methyl tert-Butyl Ether	237.5	2.5	200	39	99.3%	62	122					
o-Xylene	207.4	2.5	200	0.4	103.5%	83	112					
Toluene	209.7	2.5	200	0.3	104.7%	71	120					

Analyte	Result	PQL		SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	Analysis Date 12/31/98		Prep Date:
		SeqNo:	9832	Run ID:	GC-1_981231A					Test Code: SW8021B	Batch ID: GC-1_981231	
Benzene	215.7	2.5	200	12	101.9%	73	115	221.7	2.7%	12		
Ethylbenzene	240.4	2.5	200	39	100.7%	74	117	247.1	2.7%	11		
m,p-Xylene	418.7	5	400	21	99.4%	76	112	430.4	2.8%	10		
Methyl tert-Butyl Ether	235.2	2.5	200	39	98.1%	62	122	237.5	1.0%	15		
o-Xylene	202.6	2.5	200	0.4	101.1%	83	112	207.4	2.3%	14		
Toluene	204	2.5	200	0.3	101.9%	71	120	209.7	2.7%	14		

Qualifiers:

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

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

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

CLIENT: On Site Technologies, Limited Partnership

Work Order: 9812053

Project: 4-1374; Conoco: Farmington B-Com 1E

Date: 07-Jan-99

QC SUMMARY REPORT
Laboratory Control Spike - generic

Sample ID: LCS WATER		Batch ID: GC-1_981230		Test Code: SW8021B		Units: µg/L		Analysis Date 12/30/98		Prep Date:		
Analyte	Client ID:	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	9812053	43.62	0.5	40	0.06	108.9%	84	110				
Ethylbenzene		43.74	0.5	40	0.07	109.2%	86	113				
m,p-Xylene		85.1	1	80	0.2	106.1%	81	114				
Methyl tert-Butyl Ether		45.56	0.5	40	0.08	113.7%	69	129				
o-Xylene		43.49	0.5	40	0.07	108.5%	86	112				
Toluene		43.24	0.5	40	0.1	107.8%	85	111				
Sample ID: LCS WATER		Batch ID: GC-1_981231		Test Code: SW8021B		Units: µg/L		Analysis Date 12/31/98		Prep Date:		
Analyte	Client ID:	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	9812053	43.2	0.5	40	0.06	107.9%	84	110				
Ethylbenzene		43.65	0.5	40	0	109.1%	86	113				
m,p-Xylene		85.15	1	80	0.1	106.3%	81	114				
Methyl tert-Butyl Ether		42.98	0.5	40	0.04	107.4%	69	129				
o-Xylene		43.34	0.5	40	0	108.4%	86	112				
Toluene		43.02	0.5	40	0.1	107.3%	85	111				

Qualifiers:

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

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

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

CLIENT: On Site Technologies, Limited Partnership

Work Order: 9812053

Project: 4-1374; Conoco: Farmington B-Com 1E

Date: 07-Jan-99

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV1 QC0606/07	Batch ID: GC-1_981230	Test Code: SW8021B	Units: µg/L	Analysis Date 12/30/98			Prep Date:		
Client ID:	Run ID:	GC-1_981230A		SeqNo:	9797		%RPD	RPDLimit	Qual
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	
Benzene	21.77	0.5	20	0	108.9%	85	115		
Ethylbenzene	21.93	0.5	20	0	109.7%	85	115		
m,p-Xylene	42.04	1	40	0	105.1%	85	115		
Methyl tert-Butyl Ether	22.44	0.5	20	0	112.2%	85	115		
o-Xylene	21.72	0.5	20	0	108.6%	85	115		
Toluene	21.56	0.5	20	0	107.8%	85	115		
1,4-Difluorobenzene	92.6	0	100	0	92.6%	70	130		
4-Bromochlorobenzene	101.9	0	100	0	101.9%	70	130		
Fluorobenzene	86.3	0	100	0	86.3%	70	130		
Sample ID: CCV2 QC0606/07	Batch ID: GC-1_981230	Test Code: SW8021B	Units: µg/L	Analysis Date 12/30/98			Prep Date:		
Client ID:	Run ID:	GC-1_981230A		SeqNo:	9798		%RPD	RPDLimit	Qual
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	
Benzene	21.88	0.5	20	0	109.4%	85	115		
Ethylbenzene	22.01	0.5	20	0	110.0%	85	115		
m,p-Xylene	42.05	1	40	0	105.1%	85	115		
Methyl tert-Butyl Ether	22.45	0.5	20	0	112.2%	85	115		
o-Xylene	21.76	0.5	20	0	108.8%	85	115		
Toluene	21.76	0.5	20	0	108.8%	85	115		
1,4-Difluorobenzene	92.29	0	100	0	92.3%	70	130		
4-Bromochlorobenzene	104	0	100	0	104.0%	70	130		
Fluorobenzene	86.55	0	100	0	86.5%	70	130		

Qualifiers:

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

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

B - Analyte detected in the associated Method Blank

CLIENT: On Site Technologies, Limited Partnership
Work Order: 9812053
Project: 4-1374; Conoco: Farmington B-Com 1E

QC SUMMARY REPORT
Continuing Calibration Verification Standard

Analyte	Sample ID: CCV3 QC0606/07 Batch ID: GC-1_9812030 Test Code: SW8021B Units: µg/L			Analysis Date 12/30/98			Prep Date: 9799					
	Client ID: 9812053	Run ID: GC-1_981230A	Result	PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD
Benzene	42.67	0.5	40	0	106.7%	85	115					
Ethylbenzene	42.97	0.5	40	0	107.4%	85	115					
m,p-Xylene	83.74	1	80	0	104.7%	85	115					
Methyl tert-Butyl Ether	44.61	0.5	40	0	111.5%	85	115					
o-Xylene	42.62	0.5	40	0	106.5%	85	115					
Toluene	43.9	0.5	40	0	109.8%	85	115					
1,4-Difluorobenzene	92.61	0	100	0	92.6%	70	130					
4-Bromochlorobenzene	105	0	100	0	105.0%	70	130					
Fluorobenzene	85.96	0	100	0	86.0%	70	130					
Analyte	Sample ID: CCV1 QC0606/07 Batch ID: GC-1_981231 Test Code: SW8021B Units: µg/L			Analysis Date 12/31/98			Prep Date: 9826					
	Client ID: 9812053	Run ID: GC-1_981231A	Result	PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD
Benzene	21.74	0.5	20	0	108.7%	85	115					
Ethylbenzene	21.96	0.5	20	0	109.8%	85	115					
m,p-Xylene	41.97	1	40	0	104.9%	85	115					
Methyl tert-Butyl Ether	22.06	0.5	20	0	110.3%	85	115					
o-Xylene	21.64	0.5	20	0	108.2%	85	115					
Toluene	21.61	0.5	20	0	108.1%	85	115					
1,4-Difluorobenzene	96	0	100	0	96.0%	70	130					
4-Bromochlorobenzene	98.18	0	100	0	98.2%	70	130					
Fluorobenzene	93.42	0	100	0	93.4%	70	130					

Qualifiers:

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

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

B - Analyte detected in the associated Method Blank

CLIENT: On Site Technologies, Limited Partnership
Work Order: 9812053
Project: 4-1374; Conoco: Farmington B-Com 1E

QC SUMMARY REPORT
 Continuing Calibration Verification Standard

Sample ID: ccv2 QC060607		Batch ID: GC-1_981231		Test Code: SW8021B		Units: µg/L		Analysis Date 12/31/98		Prep Date:					
Client ID:		Run ID:		GC-1_981231A		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene		21.25	0.5		20	0	106.2%	85	115						
Ethylbenzene		21.15	0.5		20	0	105.8%	85	115						
m,p-Xylene		40.48	1		40	0	101.2%	85	115						
Methyl tert-Butyl Ether		21.66	0.5		20	0	108.3%	85	115						
o-Xylene		20.94	0.5		20	0	104.7%	85	115						
Toluene		20.93	0.5		20	0	104.7%	85	115						
1,4-Difluorobenzene		96.66	0		100	0	96.7%	70	130						
4-Bromochlorobenzene		97.82	0		100	0	97.8%	70	130						
Fluorobenzene		94.35	0		100	0	94.3%	70	130						
Sample ID: ccv3 QC060607		Batch ID: GC-1_981231		Test Code: SW8021B		Units: µg/L		Analysis Date 12/31/98		Prep Date:					
Client ID:		Run ID:		GC-1_981231A		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene		42.44	0.5		40	0	106.1%	85	115						
Ethylbenzene		42.63	0.5		40	0	106.6%	85	115						
m,p-Xylene		83.52	1		80	0	104.4%	85	115						
Methyl tert-Butyl Ether		43.92	0.5		40	0	109.8%	85	115						
o-Xylene		42.98	0.5		40	0	107.5%	85	115						
Toluene		42.18	0.5		40	0	105.4%	85	115						
1,4-Difluorobenzene		96.24	0		100	0	96.2%	70	130						
4-Bromochlorobenzene		96.9	0		100	0	96.9%	70	130						
Fluorobenzene		94.25	0		100	0	94.2%	70	130						

Qualifiers:

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

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

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 07-Jan-99

CLIENT: On Site Technologies, Limited Partnership
Work Order: 9812053
Project: 4-1374; Conoco: Farmington B-Co
Test No: SW8021B

**QC SUMMARY REPORT
SURROGATE RECOVERIES
BTEX**

Sample ID	14FBZ	4BCBZ	FLBZ						
9812050-01A	92.7	102	87						
9812050-02A	92	102	85.7						
9812051-01A	91.6	104	86						
9812051-02A	92.8	105	87.3						
9812051-03A	91.9	104	86.1						
9812051-04A	92.8	104	86.6						
9812051-05A	93.4	103	87						
9812052-01A	90.7	96.2	79.9						
9812052-02A	95.8	98.5	88.4						
9812053-01A	93.3	104	86.9						
9812053-02A	93	104	87.2						
9812053-03A	92.4	102	86.2						
9812053-04A	95	96.1	93.5						
9812053-04AMS	92	104	85.8						
9812053-04AMSD	92.5	102	86.5						
9812053-05A	93.9	104	88						
9812053-06A	93.4	104	87.3						
9812055-01A	92	102	86.3						
9812055-02A	92.2	117	90.9						
9812055-03A	98.6	99.8	94.8						
9812056-02A	96.7	97.4	94.4						
9812056-03A	96.5	97.3	94.4						
9812056-04A	95.5	97.1	94.3						
9812056-05A	95.8	97.2	94.3						
9812056-06A	96	97.6	94.2						
9812056-07A	96.5	97.6	94						
9812056-08AMS	94.6	96.8	93.4						

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

* Surrogate recovery outside acceptance limits

CLIENT: On Site Technologies, Limited Partnership
Work Order: 9812053
Project: 4-1374; Conoco: Farmington B-Co
Test No: SW8021B

**QC SUMMARY REPORT
SURROGATE RECOVERIES**

BTEX

Sample ID	14FBZ	4BCBZ	FLBZ						
9812056-08AMSD	94.5	97.7	93.3						
9812056-09A	96.2	97.4	93.9						
9812056-10A	96.3	97.6	93.8						
9812060-01A	92.8	96.2	91.4						
9812060-02A	95.9	98.2	94.7						
9812060-03A	96.6	96.9	94						
9812060-04A	96	97.2	94.2						
CCV1 QC0606/07	96	98.2	93.4						
CCV2 QC0606/07	96.7	97.8	94.3						
CCV3 QC0606/07	96.2	96.9	94.2						
LCS WATER	96.3	99.1	93.9						
MB1	96.3	98.1	93.9						

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

* Surrogate recovery outside acceptance limits

ON SITE

TECHNOLOGIES, LTD.

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

CHAIN OF CUSTODY RECORD

Date: 02/27/97 Page 1 of 1

Purchase Order No.:		Job No. <u>123456789</u>	Title		
Name	Company	Dept.	Company	Mailing Address	
Address	City, State, Zip	Telephone No.	City, State, Zip	Telefax No.	
Sampling Location: <u>Farmington</u>		ANALYSIS REQUESTED			
Sampler: <u>John Doe</u>					
SAMPLE IDENTIFICATION		SAMPLE DATE	TIME	MATRIX PRES.	LAB ID
Number of Containers					
CONTAINERS					
REPORT TO INVOICE TO					
RESULTS TO					
RUSH		Rush	24-48 Hours	10 Working Days	Special Instructions:
PINK					
WHITE					
YELLOW					
LAB					
PINK - Sampler					
White - On Site					
Distribution: White - On Site					
Yellow - LAB					
Pink - Sampler					
Goldenrod - Client					
Authorized by: <u>John Doe</u> (Client Signature Must Accompany Request)		Date _____			



OFF: (505) 325-5667

LAB: (505) 325-1556

January 07, 1999

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

RE: 4-1374; Conoco: Farmington B-Com 1E

Order No.: 9812053

Dear Larry Trujillo,

On Site Technologies, LTD. received 6 samples on 12/29/98 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".

David Cox



OFF: (505) 325-5667

LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 07-Jan-99

CLIENT: On Site Technologies, Limited Partnership
Project: 4-1374; Conoco: Farmington B-Com 1E
Lab Order: 9812053

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.

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P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -



OFF: (505) 325-5667

LAB: (505) 325-1556

ANALYTICAL REPORT**Date: 07-Jan-99**

Client:	On Site Technologies, Limited Partnership	Client Sample Info:	Farmington B-Com 1E
Work Order:	9812053	Client Sample ID:	MW-1
Lab ID:	9812053-04A	Matrix:	AQUEOUS
Project:	4-1374; Conoco: Farmington B-Com 1E	Collection Date:	12/29/98 11:10:00 AM
		COC Record:	5643

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
BTEX						
			SW8021B			Analyst: HR
Benzene	350	25		µg/L	50	12/31/98
Toluene	ND	25		µg/L	50	12/31/98
Ethylbenzene	420	25		µg/L	50	12/31/98
m,p-Xylene	2800	50		µg/L	50	12/31/98
o-Xylene	ND	25		µg/L	50	12/31/98

Qualifiers: PQL - Practical Quantitation Limit S - Spike Recovery outside accepted recovery limits
ND - Not Detected at Practical Quantitation Limit R - RPD outside accepted recovery limits
J - Analyte detected below Practical Quantitation Limit E - Value above quantitation range
B - Analyte detected in the associated Method Blank Surr: - Surrogate

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OFF: (505) 325-5667

LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 07-Jan-99

Client:	On Site Technologies, Limited Partnership	Client Sample Info:	Farmington B-Com 1E
Work Order:	9812053	Client Sample ID:	MW-2
Lab ID:	9812053-05A	Matrix:	AQUEOUS
Project:	4-1374; Conoco: Farmington B-Com 1E	Collection Date:	12/29/98 11:20:00 AM
		COC Record:	5643

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
BTEX						
Benzene	ND	0.5		µg/L	1	12/30/98
Toluene	0.6	0.5		µg/L	1	12/30/98
Ethylbenzene	2.1	0.5		µg/L	1	12/30/98
m,p-Xylene	32	1		µg/L	1	12/30/98
o-Xylene	3	0.5		µg/L	1	12/30/98

Qualifiers: PQL - Practical Quantitation Limit S - Spike Recovery outside accepted recovery limits
ND - Not Detected at Practical Quantitation Limit R - RPD outside accepted recovery limits
J - Analyte detected below Practical Quantitation Limit E - Value above quantitation range
B - Analyte detected in the associated Method Blank Surr. - Surrogate

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -



OFF: (505) 325-5667

LAB: (505) 325-1556

ANALYTICAL REPORT**Date: 07-Jan-99**

Client:	On Site Technologies, Limited Partnership	Client Sample Info:	Farmington B-Com 1E
Work Order:	9812053	Client Sample ID:	MW-3
Lab ID:	9812053-06A	Matrix:	AQUEOUS
Project:	4-1374; Conoco: Farmington B-Com 1E	Collection Date:	12/29/98 11:30:00 AM
		COC Record:	5643

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
BTEX						
			SW8021B			Analyst: HR
Benzene	ND	0.5		µg/L	1	12/30/98
Toluene	ND	0.5		µg/L	1	12/30/98
Ethylbenzene	ND	0.5		µg/L	1	12/30/98
m,p-Xylene	ND	1		µg/L	1	12/30/98
o-Xylene	ND	0.5		µg/L	1	12/30/98

Qualifiers: PQL - Practical Quantitation Limit
ND - Not Detected at Practical Quantitation Limit
J - Analyte detected below Practical Quantitation Limit
B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
Sur: - Surrogate

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OFF: (505) 325-5667

LAB: (505) 325-1556



ANALYTICAL REPORT

Date: 07-Jan-99

Client:	On Site Technologies, Limited Partnership	Client Sample Info:	Farmington B-Com 1E
Work Order:	9812053	Client Sample ID:	MW-4
Lab ID:	9812053-03A	Matrix:	AQUEOUS
Project:	4-1374; Conoco: Farmington B-Com 1E	Collection Date:	12/29/98 10:30:00 AM
		COC Record:	5643

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
BTEX			SW8021B			Analyst: HR
Benzene	ND	0.5		µg/L	1	12/30/98
Toluene	ND	0.5		µg/L	1	12/30/98
Ethylbenzene	0.6	0.5		µg/L	1	12/30/98
m,p-Xylene	ND	1		µg/L	1	12/30/98
o-Xylene	ND	0.5		µg/L	1	12/30/98

Qualifiers: PQL - Practical Quantitation Limit S - Spike Recovery outside accepted recovery limits
ND - Not Detected at Practical Quantitation Limit R - RPD outside accepted recovery limits
J - Analyte detected below Practical Quantitation Limit E - Value above quantitation range
B - Analyte detected in the associated Method Blank Surr: - Surrogate

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667



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ANALYTICAL REPORT

Date: 07-Jan-99

Client:	On Site Technologies, Limited Partnership	Client Sample Info:	Farmington B-Com 1E
Work Order:	9812053	Client Sample ID:	MW-5
Lab ID:	9812053-02A	Matrix:	AQUEOUS
Project:	4-1374; Conoco: Farmington B-Com 1E	Collection Date:	12/29/98 10:25:00 AM
		COC Record:	5643

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
BTEX			SW8021B			Analyst: HR
Benzene	ND	0.5		µg/L	1	12/30/98
Toluene	ND	0.5		µg/L	1	12/30/98
Ethylbenzene	ND	0.5		µg/L	1	12/30/98
m,p-Xylene	ND	1		µg/L	1	12/30/98
o-Xylene	ND	0.5		µg/L	1	12/30/98

Qualifiers: PQL - Practical Quantitation Limit
ND - Not Detected at Practical Quantitation Limit
J - Analyte detected below Practical Quantitation Limit
B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
Surr: - Surrogate

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

Farmington B Com 1E
Unit O, Sec. 30, T29N, R11W
Passive Skimmer Log

DATE	TIME	AMOUNT RECORDED		NAME
		REMOVED INCHES/GALLONS	CUMULATIVE INCHES/GALLONS	
June 26, 1998	0915	10.25"/0.85'	10.25"/0.85'	Larry Trujillo
June 26, 1998	1435	1.50"/0.125'	11.75"/0.975'	Larry Trujillo
June 29, 1998	0858	9.5"/0.79 '	21.25"/1.765'	Larry Trujillo
June 30, 1998	1352	8.0"/0.66;	29.25"/2.425'	Larry Trujillo
July 1, 1998	0842	2"/0.16'	31.25"/2.585'	Larry Trujillo
July 2, 1998	1158	2.0"/0.16'	33.25"/2.745'	Larry Trujillo
July 6, 1998	1350	7.375"/0.61'	40.625"/3.335'	Larry Trujillo
July 7, 1998	1350	No Measurable Free Product	40.625"/3.335'	Larry Trujillo
July 13, 1998	1230	1.75"/0.146	42.375"/3.481'	Larry Trujillo
July 17, 1998	0933	No Measurable Free Product	42.375"/3.481'	Larry Trujillo
July 23, 1998	1507	2.0"/0.16	44.375"/3.641'	Larry Trujillo
July 29, 1998	1030	No Measurable Free Product	44.375"/3.641'	Larry Trujillo
August 12, 1998	1411	1.0"/0.83	45.375"/3.724	Larry Trujillo
August 25, 1998		No Measurable Free Product	45.375"/3.724	Larry Trujillo
December 3, 1998	1300	0.10 gallons	3.824 gallons	Larry Trujillo



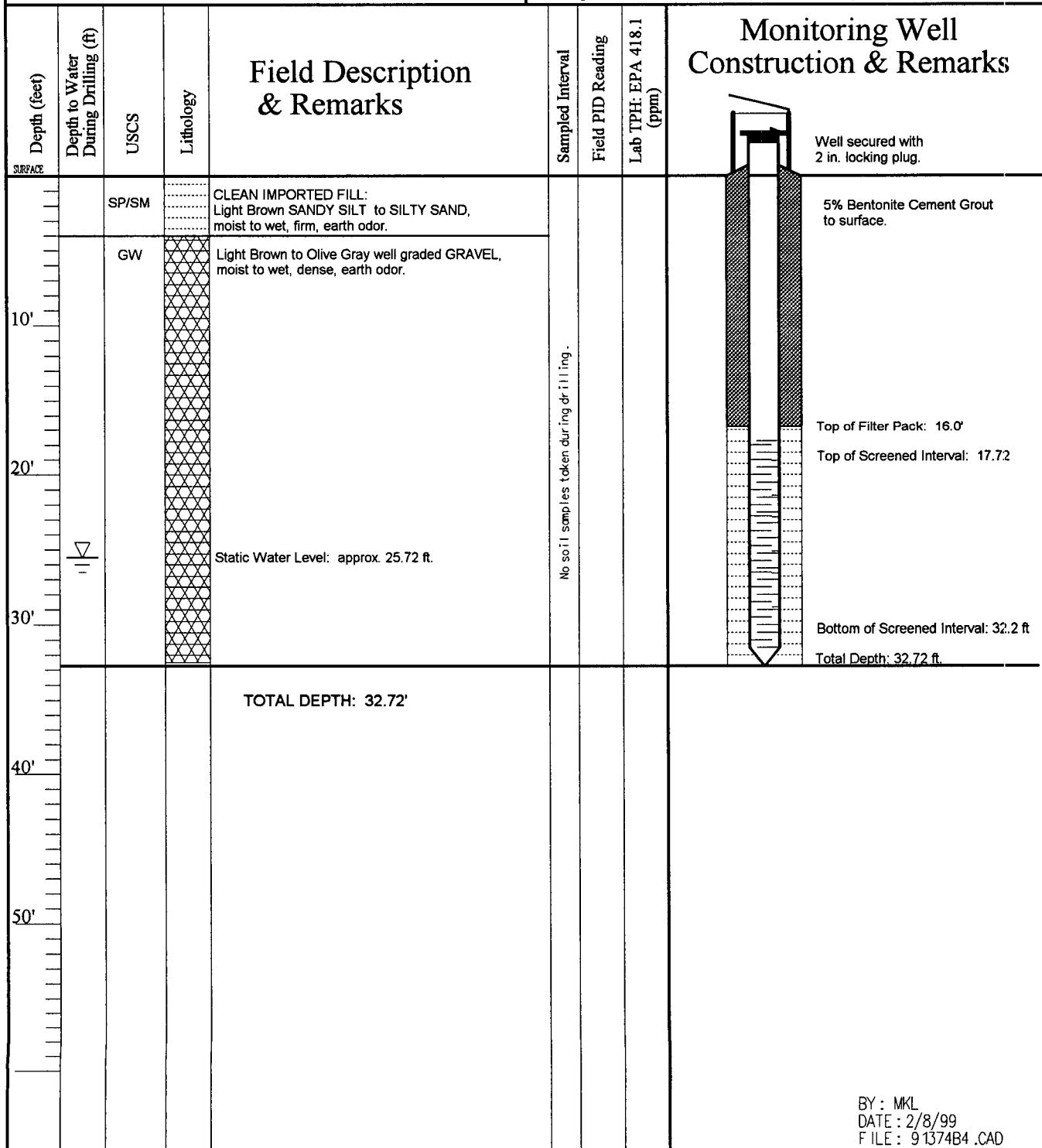
On Site Technologies Ltd. Partnership
P.O. BOX 2606, FARMINGTON, NM 87499
(505) 327-1072

TEST HOLE LOG & MONITORING WELL DETAIL
Monitoring Well: MW-4

Project: CONOCO: Site Remediation

Project No: 4-1374

Project Location: Farmington B COM #1E		Logged By: Larry Trujillo	Approved: Myke Lane
Drilling Contractor: Western Water Wells		Date Started: August 1998	Date Completed: August 1998
Drilling Equipment: Cable Tool	Driller: Terry Hood	TD (ft): 32.72	Static Water Depth (ft): 25.72
Drilling Method: Cable Tool	Borehole Dia. (in): 6.0	TOC Elevation: 101.40	Ground Elevation:
Sampling Method: NA		Well Casing (Diameter & Type): 2 in. - Sch 40 PVC	
COMMENTS: Initial Sch 40 PVC conduction pipe set by trackhoe to a depth of approximately 15 feet. Cable tool rig with 6 inch drove pipe used to set monitoring well.		Slot Size (in): 0.010	Filter Material: Silica Sand 10/20
		Development Method: Submersible Pump & Bailer	

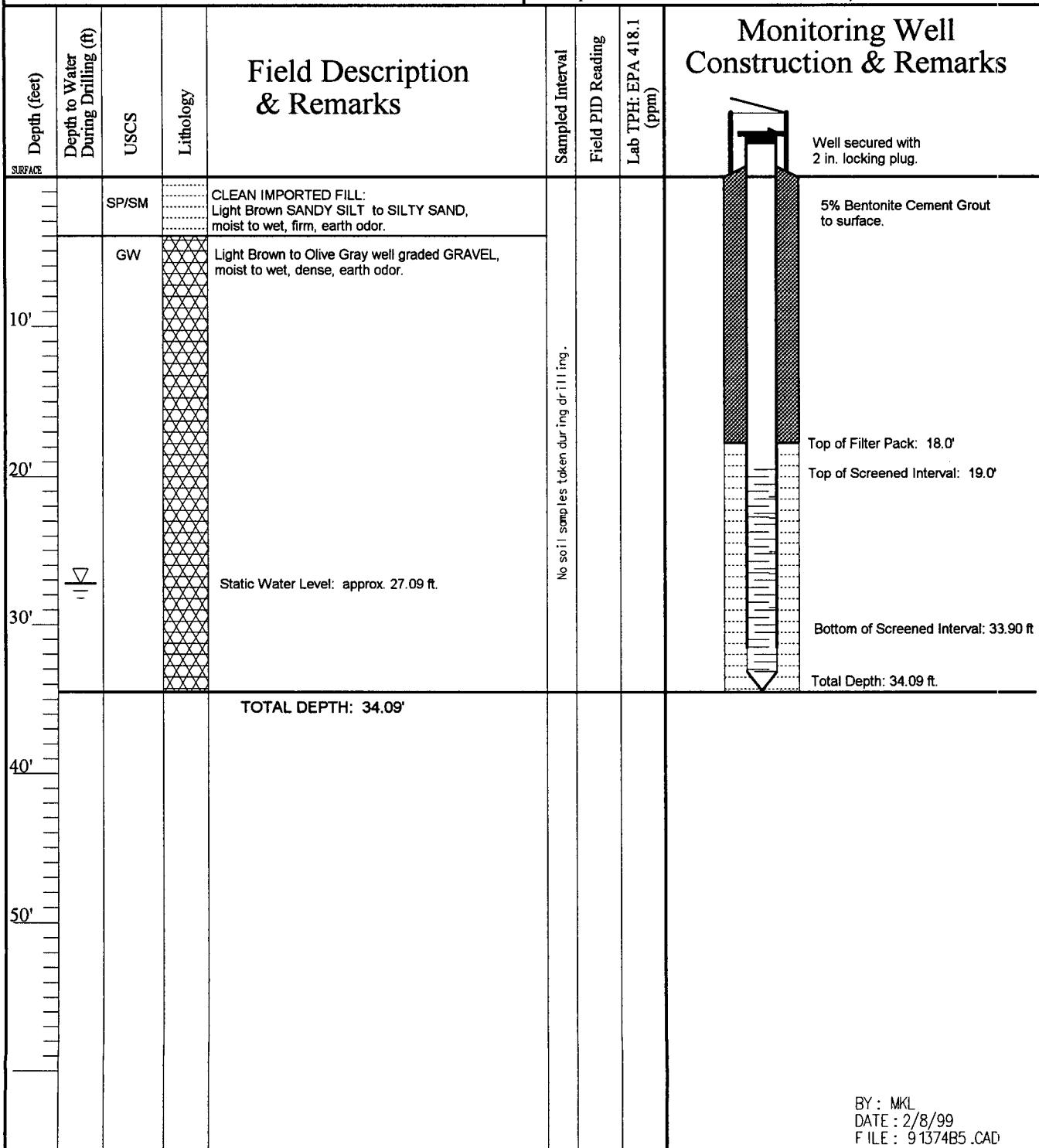


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TEST HOLE LOG & MONITORING WELL DETAIL Monitoring Well: MW-5

Project: CONOCO: Site Remediation
 Project No: 4-1374

Project Location: Farmington B COM #1E				Logged By: Larry Trujillo	Approved: Myke Lane
Drilling Contractor: Western Water Wells				Date Started: August 1998	Date Completed: August 1998
Drilling Equipment: Cable Tool Driller: Terry Hood				TD (ft): 34.09	Static Water Depth (ft): 27.09
Drilling Method: Cable Tool Borehole Dia. (in): 6.0				TOC Elevation: 100.52	Ground Elevation:
Sampling Method: NA				Well Casing (Diameter & Type): 2 in. - Sch 40 PVC	
COMMENTS: Initial Sch 40 PVC conduction pipe set by trackhoe to a depth of approximately 15 feet. Cable tool rig with 6 inch drove pipe used to set monitoring well.				Slot Size (in): 0.010	Filter Material: Silica Sand 10/20
				Development Method: Submersible Pump & Bailer	

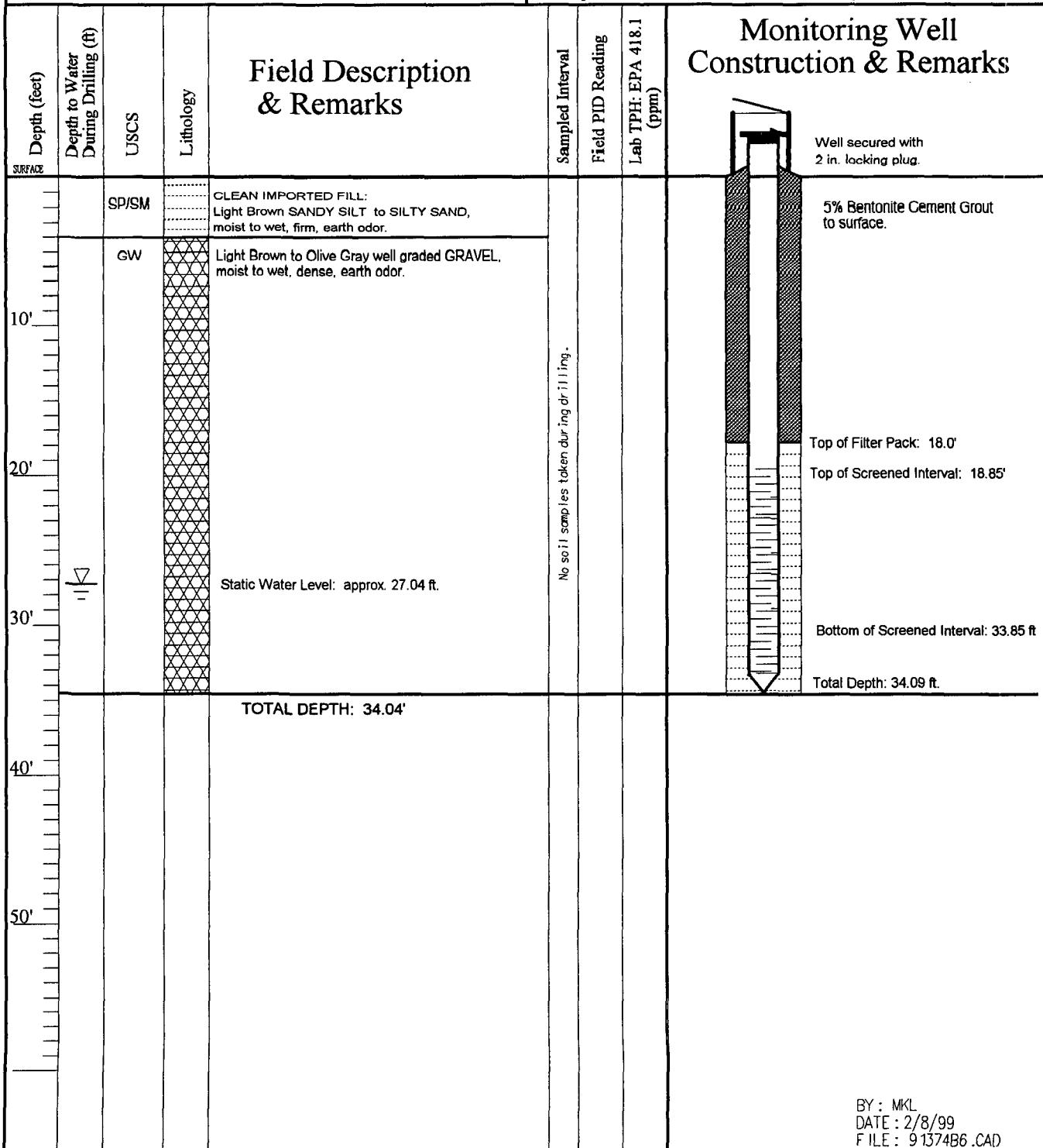


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TEST HOLE LOG & MONITORING WELL DETAIL Monitoring Well: MW-6

Project: CONOCO: Site Remediation
 Project No: 4-1374

Project Location: Farmington B COM #1E		Logged By: Larry Trujillo	Approved: Myke Lane
Drilling Contractor: Western Water Wells		Date Started: August 1998	Date Completed: August 1998
Drilling Equipment: Cable Tool	Driller: Terry Hood	TD (ft): 34.04	Static Water Depth (ft): 27.04
Drilling Method: Cable Tool	Borehole Dia. (in): 6.0	TOC Elevation: 102.14	Ground Elevation:
Sampling Method: NA		Well Casing (Diameter & Type): 2 in. - Sch 40 PVC	
COMMENTS: Initial Sch 40 PVC conduction pipe set by trackhoe to a depth of approximately 15 feet. Cable tool rig with 6 inch drove pipe used to set monitoring well.		Slot Size (in): 0.010	Filter Material: Silica Sand 10/20
		Development Method: Submersible Pump & Bailer	



BY : MKL
 DATE : 2/8/99
 FILE : 91374B6.CAD