

3R - 92

REPORTS

DATE:

1999

ON SITE
TECHNOLOGIES, LTD.

January 4, 2000

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

RE: 1999 Annual Ground Water Report
Conoco Location: Salmon #1
Unit P, Sec. 30, T29N, R11W, NMPM, San Juan Co., NM

Project No.: 2-1377

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 covered the prior calendar year of 1999, and follows the format outlined in the *Comprehensive Ground Water Remediation and Long-Term Monitoring Plan for Conoco Locations in the San Juan Basin, New Mexico* (hereafter referred to as the monitoring plan), submitted to the New Mexico Oil Conservation Division on October 15, 1997.

Summary of 1999 Activities:

Ground water sampling events were conducted in March, June, September and December. Water levels were taken on all monitoring wells. DG#2 was the only monitoring well sampled.

Laboratory result shows that the levels of BTEX contamination are consistent with previously reported laboratory results.

Between the December 1998 and the March 1999 sampling events, the landowner has placed two (2) aboveground storage tanks (AST), one for diesel and one for unleaded gasoline, upgradient of DG#2. There is no secondary containment surrounding the ASTs or a protective liner to prevent subsurface migration of spilled product.. Refer to enclosed photos.

Sampling:

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

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

Copies of all laboratory reports for the calendar year 1999, along with all laboratory QA/QC documentation and chains-of-custody, are attached with this report.

PO Box 2606
Farmington, NM

505-325-5667

FAX: 505-327-1496

Summary and Conclusions:

The following conclusions are based on the 1999, ground water monitoring results and trends associated with a former production pit at the Salmon #1 well location:

1. BTEX contamination has been below NMWQQ water quality standard for the last two (2) sampling events.
2. Groundwater gradient at this location changes seasonally and seems to be influenced by the agricultural activities associated with this location.
3. The installation of the ASTs for fuel storage without a liner and secondary containment, by the current landowner, poses a significant threat to the shallow groundwater, which is not associated with former oil and gas activities of Conoco Inc.

Recommendations:

1. Ground water monitoring of DG#2 is to continue until four (4) consecutive clean sampling events have been completed.
2. Upon completion of ground water remediation by natural attenuation, prepare a Final Pit Closure Report to be submitted to NMOCD for approval.

Limitations and Closure:

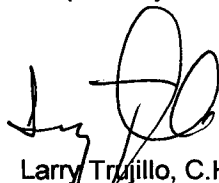
This annual ground water report documents the results of ground water monitoring for the referenced Conoco well location during the calendar year 1999. This report follows the Comprehensive Ground Water Remediation and Long-Term Monitoring Plan for Conoco Locations in the San Juan Basin, New Mexico,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

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

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

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

Respectfully submitted,



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



Michael K. Lane, P.E.
Senior Engineer

On Site Technologies, Limited Partnership

Attachments: Table 1: Monitoring Well Details and Ground Water Levels Summary
Table 2: Ground Water BTEX Analytical Summary
Figure 1: Site Sketch
Figure 1A Photo Sheet
Figure 2: Ground Water Potentiometric Map (March 1999)
Figure 3: Ground Water Potentiometric Map (June 1999)

Figure 4: Ground Water Potentiometric Map (September 1999)
Figure 5: Ground Water Potentiometric Map (December 1999)
Laboratory Results, QA/QC, Chain of Custody

Acknowledgment:
CONOCO, Inc.

Shirley R. Ebert FSS
(Name/Title)
2/10/00
(Date)

LET/let 21377-99.doc

REFERENCES:

On Site Technologies, Ltd., May 12, 1997. Letter to Mr. Neal Goates, Senior Environmental Specialist, Conoco, Inc. Midland Division, regarding: *Corrective Action Proposal, Conoco Location, Salmon #1, Unit P, Sec. 30, T29N, R11W, NMPM, San Juan Co., NM.*

On Site Technologies, Ltd., July 28, 1997. Letter to Mr. Neal Goates, Senior Environmental Specialist, Conoco, Inc. Midland Division, regarding: *Salmon #1 Excavation Summary, Conoco Location, Salmon #1, Unit P, Sec. 30, T29N, R11W, NMPM, San Juan Co., NM.*

On Site Technologies, Ltd., February 1, 1998. Letter to Ms. Shirley Ebert, Field SHEAR Specialist, Conoco, Inc. Mid-Continent Region, regarding: *1997 Ground Water Report, Conoco Location, Salmon #1, Unit P, Sec. 30, T29N, R11W, NMPM, San Juan Co., NM.*

On Site Technologies, Ltd., February 4, 1999. Letter to Ms. Shirley Ebert, Field SHEAR Specialist, Conoco, Inc. Mid-Continent Region, regarding: *1998 annual Ground Water Report, Conoco Location, Salmon #1, Unit P, Sec. 30, T29N, R11W, NMPM, San Juan Co., NM.*

On Site Technologies

Table 1

Ground Water Level Summary

Salmon #1

Unit P, Sec. 30, T29N, R11W

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)
DG#1	93.64	9.2	2" PVC	4.2	9/16/97	2.86	89.36
					12/22/97	3.01	90.63
					3/25/98	2.96	90.68
					6/9/98	2.75	90.89
					9/14/98	3.17	90.47
					12/30/98	3.48	89.69
					3/1/99	2.92	90.71
					6/7/99	2.71	90.92
					9/10/99	3.27	90.36
					12/13/99	2.92	90.71
DG#2	92.45	8.60	2" PVC	3.30	9/16/97	3.95	88.50
					12/22/97	*	
					3/25/98	3.80	88.65
					6/9/98	3.62	88.83
					9/14/98	3.41	89.04
					12/30/98	2.69	89.76
					3/1/99	3.69	88.76
					6/7/99	3.51	88.94
					9/10/99	4.07	88.38
					12/13/99	3.58	89.29

Temporary Bench Mark (TBM): is the south east corner of implement storage building Relative Elevation 100'

BGS - approximate measurements taken as Below Ground Surface

BTOC - Below Top of Casing

NM - Not Measured

* Bailer stuck in well unable to retrieve

On Site Technologies

Table 1

Ground Water Level Summary

Salmon #1

Unit P, Sec. 30, T29N, R11W

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)
DG#3	92.22	8.2	2" PVC	3.70	09/16/97	3.19	89.03
					12/22/97	2.95	89.27
					3/25/98	2.89	89.33
					6/9/98	2.95 (est.)	89.27
					9/14/98	4.16	88.06
					12/30/98	2.62	89.60
					3/1/99	2.89	89.33
					6/7/99	2.78	89.44
					9/10/99	3.41	88.81
					12/13/99	2.93	89.29

Temporary Bench Mark (TBM): is the south east corner of implement storage building Relative Elevation 100'

BGS - approximate measurements taken as Below Ground Surface

BTOC - Below Top of Casing

NM - Not Measured

On Site Technologies
Table 2

BTEX Analytical Summary
Salmon #1

Unit P, Sec. 30, T29N, R11W

Sample Date	Sample ID#	Monitor Well	Remarks	BTEX per EPA 8020 (ppb)				
				Note	Sampled	Bailer In	The Well	
09/16/97		DG#2	On Site Lab.	"	"	"	"	"
12/22/97								
3/25/98	9803058-02A			330.0	5.5	4.3	5.4	
6/9/98	9806031-02A			160.0	0.8	2.4	BDL	
9/14/98	9809031-02A			BDL	BDL	BDL	BDL	
12/30/98	9812057-01A			23.0	BDL	2.8	0.9	
3/1/99	9903004-01A			160.0	BDL	7.1	21.0	
6/7/99	9906020-01A			70.0	8.8	BDL	BDL	
9/10/99	9909038-01A			BDL	0.5	BDL	BDL	
12/13/99	9912015-01A			1.2	0.8	1.8	2.6	
09/16/97	16204	DG#3	On Site Lab.	BDL	BDL	BDL	0.2	
12/22/97	17211			BDL	BDL	BDL	BDL	
3/25/98	9803058-03A			BDL	BDL	BDL	BDL	
6/9/98	Not	sampled						
9/14/98	9809031-03A			BDL	BDL	BDL	BDL	
WQCC	ACTION	LEVELS		10.0	750.0	750.0	620.0	

BDL: Below Detection Levels

1. Well replaced on 3/25/98

On Site Technologies

Table 2

BTEX Analytical Summary

Salmon #1

Unit P, Sec. 30, T29N, R11W

Sample Date	Sample ID#	Monitor Well	Remarks	BTEX per EPA 8020 (ppb)				
				Benzene	Toluene	Ethylbenzene	Total Xylene	
07/17/96	03696G01389	UPG#1	IML	BDL	BDL	BDL	BDL	
07/17/96	03696G01388			BDL	BDL	BDL	BDL	
07/17/96	0396G01390	DWG#1	IML	0.7	3.3	2.8	3.7	
03/13/97	13889	MW#1 NE	On Site Lab	24.4	0.4	0.3	1.5	
03/26/97	14001			<0.2	<0.2	<0.2	0.3	
03/13/97	13890	MW#2 N	On Site Lab.	67.8	32.9	11.5	116.6	
03/20/97				40.7	11.9	8.6	74.2	
03/13/97	13891	MW#3 SW	On Site Lab.	<0.2	<0.2	<0.2	0.3	
03/13/97	13892	MW#4 SE	On Site Lab.	<0.2	<0.2	<0.2	0.2	
09/16/97	16203	DG#1	On Site Lab.	8.1	3.6	16.3	50.6	
12/22/97	17210			5.8	2.8	3.5	14.7	
3/25/98	9803058-01A			9.7	4.7	4.3	12.5	
6/9/98	9806031-01A			4.1	1.7	3.0	6.8	
9/14/98	9809031-01A			3.5	4.2	2.3	4.9	
WQCC	ACTION	LEVELS		10.0	750.0	750.0	620.0	

BDL: Below Detection Levels

1. Well replaced on 3/25/98

DG-3
92.22

DG-2
92.45

DG-1
93.94



NTS

IMPLEMENT
SHED

WATER LINE

FENCE

FORMER DRIP PIT
(APPROX. LOCATION)

UG-1
(REMOVED)

UG-2
(REMOVED)



612 E. MURRAY DR. PH. (505) 327-1072
FARMINGTON, NM 87401 FAX (505) 327-1496

APPROVED:

DRWN BY: MED

CHK'D BY:

PROJECT NO: 4-1377

DATE:

DATE: 1/18/00

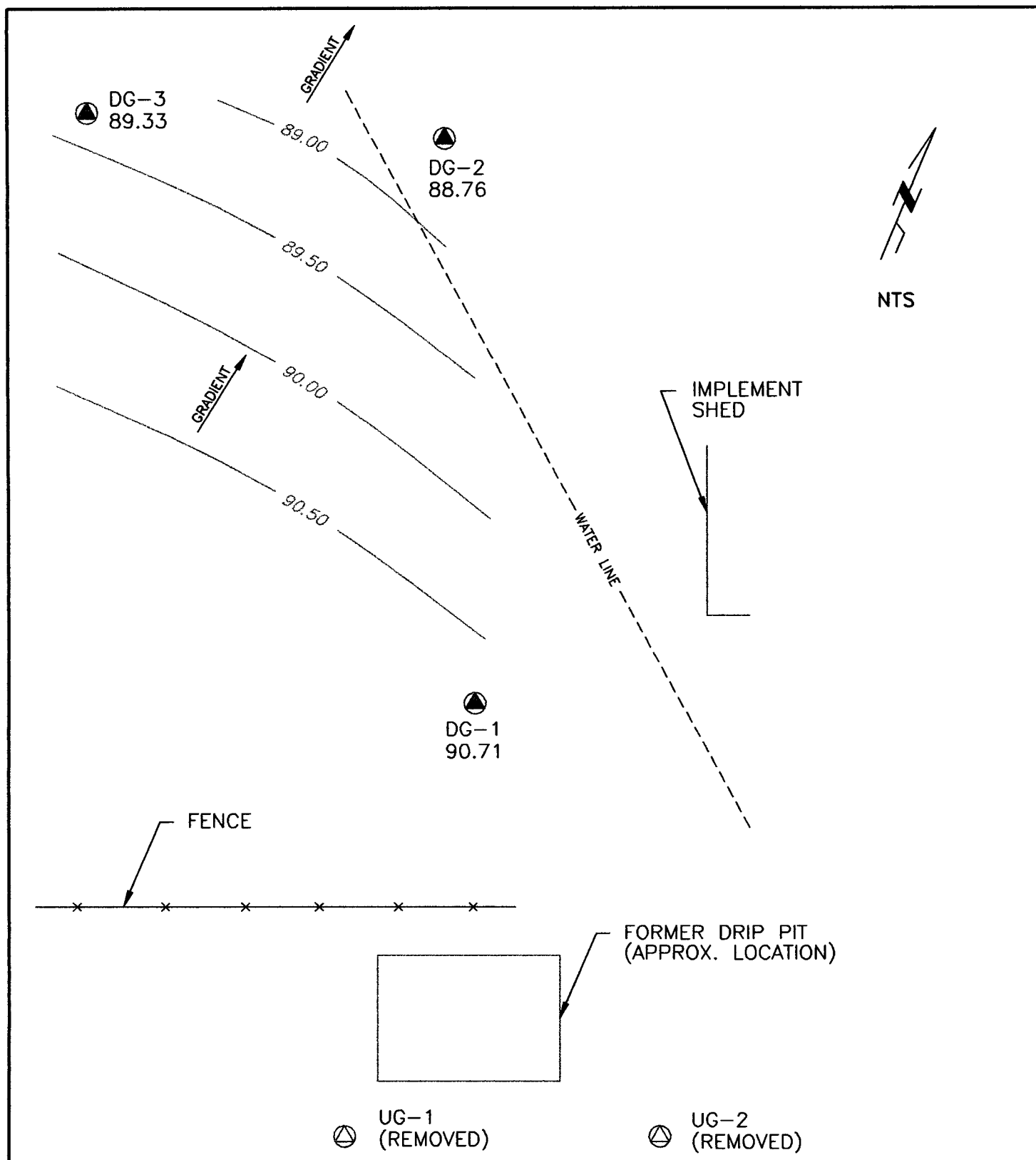
DATE:

SHEET: 1 OF 1

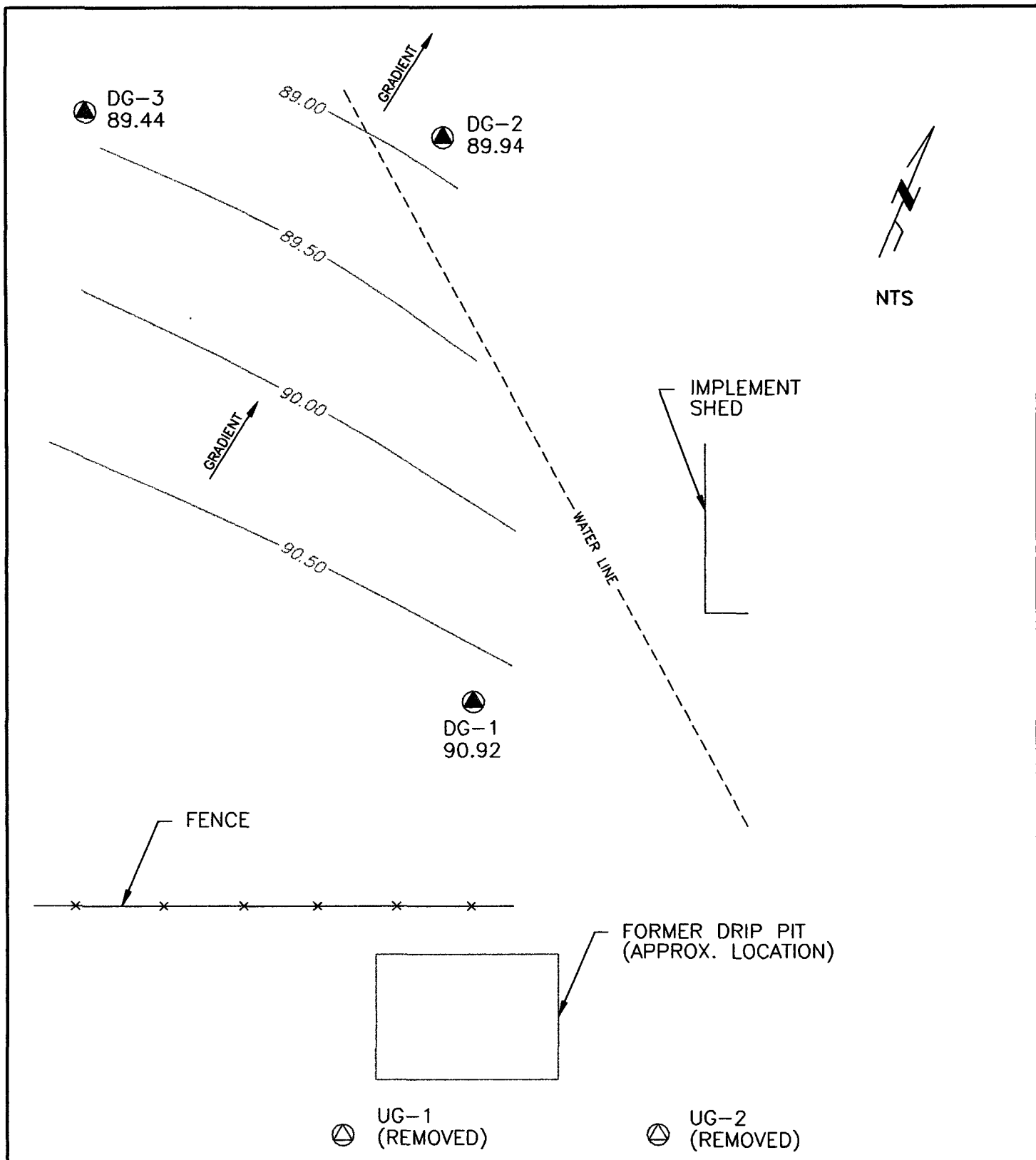
GROUND WATER POTENTIOMETRIC MAP

CONOCO, INC., SALMON #1
SAN JUAN COUNTY, NEW MEXICO

41377/sod5.dwg



 612 E. MURRAY DR. PH. (505) 327-1072 FARMINGTON, NM 87401 FAX (505) 327-1498	APPROVED:	DATE:	GROUND WATER POTENTIOMETRIC MAP MARCH, 1999 CONOCO, INC., SALMON #1 SAN JUAN COUNTY, NEW MEXICO
	DRWN BY: MED	DATE: 1/18/00	
	CHK'D BY:	DATE:	
	PROJECT NO: 4-1377	SHEET: 1 OF 4	



ON SITE TECHNOLOGIES, LTD. Limited Partnership 612 E. MURRAY DR. PH. (505) 327-1072 FARMINGTON, NM 87401 FAX (505) 327-1495	APPROVED:	DATE:	GROUND WATER POTENTIOMETRIC MAP JUNE, 1999 CONOCO, INC., SALMON #1 SAN JUAN COUNTY, NEW MEXICO
	DRWN BY: MED	DATE: 1/18/00	
	CHK'D BY:	DATE:	
	PROJECT NO: 4-1377	SHEET: 2 OF 4	

41377/saa2.dwg

DG-3
88.81

DG-2
88.38



88.50

89.00

89.50

90.00

GRADIENT

GRADIENT

IMPLEMENT
SHED

WATER LINE

DG-1
90.36

FENCE

FORMER DRIP PIT
(APPROX. LOCATION)

UG-1
(REMOVED)

UG-2
(REMOVED)



612 E. MURRAY DR. PH. (505) 327-1072
FARMINGTON, NM 87401 FAX (505) 327-1495

APPROVED:

DRWN BY: MED

CHK'D BY:

PROJECT NO: 4-1377

DATE:

DATE: 1/18/00

DATE:

SHEET: 3 OF 4

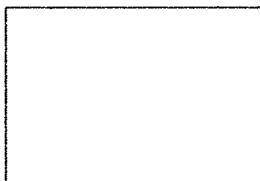
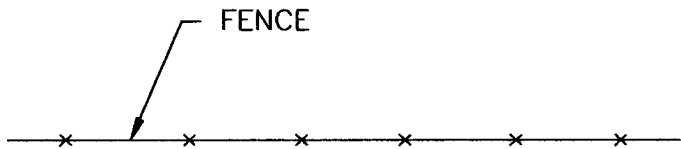
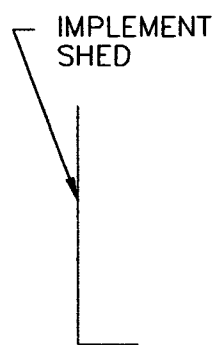
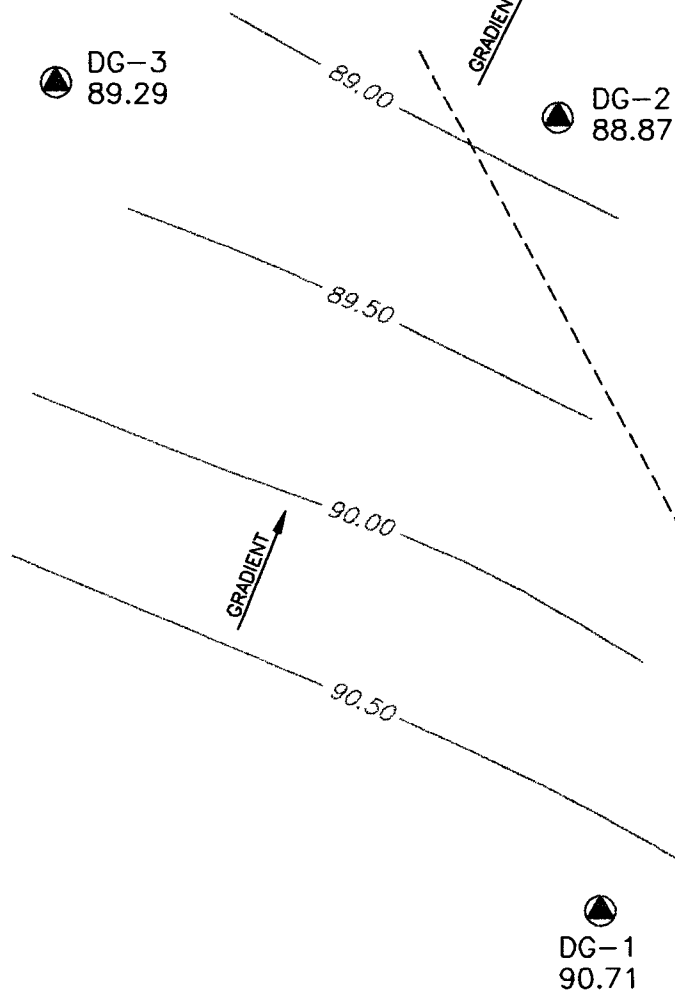
GROUND WATER POTENTIOMETRIC MAP
SEPTEMBER, 1999

CONOCO, INC., SALMON #1
SAN JUAN COUNTY, NEW MEXICO

41377/s003.dwg

DG-3
89.29

DG-2
88.87



FORMER DRIP PIT
(APPROX. LOCATION)

UG-1
(REMOVED)

UG-2
(REMOVED)



612 E. MURRAY DR. PH. (505) 327-1072
FARMINGTON, NM 87401 FAX (505) 327-1498

APPROVED:

DRWN BY: MED

CHK'D BY:

PROJECT NO: 4-1377

DATE:

DATE: 1/18/00

DATE:

SHEET: 4 OF 4

GROUND WATER POTENTIOMETRIC MAP
DECEMBER, 1999

CONOCO, INC., SALMON #1
SAN JUAN COUNTY, NEW MEXICO

41377/s004.dwg

DG#2



Looking East toward
Storage/Workshop

DG#2



Looking North from DG#1

DG#2



Looking West from the ASTs
toward DG#2

White object in pictures is a disposable bailer in well opening.

OFF: (505) 325-5667



LAB: (505) 325-1556

March 10, 1999

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

RE: Salmon #1; 4-1377

Order No.: 9903004

Dear Larry Trujillo,

On Site Technologies, LTD. received 1 sample on 3/1/99 for the analyses presented in the following report.

The Samples were analyzed for the following tests:

BTEX (SW8021B)

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

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

Sincerely,

A handwritten signature in dark ink, appearing to read "David Cox", is written over a horizontal line.

David Cox

OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 10-Mar-99

CLIENT: Conoco, Inc.
Project: Salmon #1; 4-1377
Lab Order: 9903004

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition

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

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 10-Mar-99

Client:	Conoco, Inc.	Client Sample Info:	Salmon #1
Work Order:	9903004	Client Sample ID:	DG#2
Lab ID:	9903004-01A	Matrix:	AQUEOUS
Project:	Salmon #1; 4-1377	Collection Date:	3/1/99 12:15:00 PM
		COC Record:	10013

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
BTEX		SW8021B				Analyst: HR
Benzene	160	0.5		µg/L	1	3/8/99
Toluene	ND	0.5		µg/L	1	3/8/99
Ethylbenzene	7.1	0.5		µg/L	1	3/8/99
m,p-Xylene	11	1		µg/L	1	3/8/99
o-Xylene	10	0.5		µg/L	1	3/8/99

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

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

On Site Technologies, LTD.

Date: 10-Mar-99

CLIENT: Conoco, Inc.
Work Order: 9903004
Project: Salmon #1; 4-1377

QC SUMMARY REPORT

Method Blank

Sample ID: MB1	Batch ID: GC-1_990308	Test Code: SW8021B	Units: µg/L	Analysis Date 3/8/99	Prep Date:
Client ID:	9903004	Run ID: GC-1_990308A		SeqNo: 11839	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Benzene	ND	0.5			
Ethylbenzene	ND	0.5			
m,p-Xylene	ND	1			
Methyl tert-Butyl Ether	ND	1			
o-Xylene	.0298	0.5			J
Toluene	.0703	0.5			J

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

On Site Technologies, LTD.

Date: 10-Mar-99

CLIENT: Conoco, Inc.
Work Order: 9903004
Project: Salmon #1; 4-1377

QC SUMMARY REPORT
Sample Matrix Spike

Sample ID: 9902089-02AMS	Batch ID: GC-1_990308	Test Code: SW8021B	Units: µg/L	Analysis Date 3/8/99	Prep Date:
Client ID: 9903004	Run ID: GC-1_990308A	PQL	SPK value	SeqNo: 11840	
Analyte	Result	SPK value	SPK Ref Val	LowLimit	HighLimit
Benzene	201.2	2.5	0.399	73	115
Ethylbenzene	205.8	2.5	7.29	74	117
m,p-Xylene	432	5	37.21	76	112
Methyl tert-Butyl Ether	203.1	5	0	62	122
o-Xylene	210.8	2.5	6.91	83	112
Toluene	370	2.5	168.1	71	120

Sample ID: 9902089-02AMS	Batch ID: GC-1_990308	Test Code: SW8021B	Units: µg/L	Analysis Date 3/8/99	Prep Date:
Client ID: 9903004	Run ID: GC-1_990308A	PQL	SPK value	SeqNo: 11841	
Analyte	Result	SPK value	SPK Ref Val	LowLimit	HighLimit
Benzene	206.4	2.5	0.399	73	115
Ethylbenzene	211.1	2.5	7.29	74	117
m,p-Xylene	432	5	37.21	76	112
Methyl tert-Butyl Ether	203.1	5	0	62	122
o-Xylene	210.8	2.5	6.91	83	112
Toluene	370	2.5	168.1	71	120

Qualifiers:

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

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

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 10-Mar-99

CLIENT: Conoco, Inc.

Work Order: 9903004

Project: Salmon #1; 4-1377

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: LCS WATER		Batch ID: GC-1_990308	Test Code: SW8021B	Units: µg/L	Analysis Date 3/8/99		Prep Date:				
Client ID:	9903004	Run ID: GC-1_990308A			SeqNo: 11838						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	42.31	0.5	40	0	105.8%	84	110				
Ethylbenzene	42.1	0.5	40	0	105.3%	86	113				
m,p-Xylene	82.11	1	80	0	102.6%	81	114				
Methyl tert-Butyl Ether	40.3	1	40	0	100.7%	69	129				
o-Xylene	42.03	0.5	40	0.0298	105.0%	86	112				
Toluene	41.6	0.5	40	0.0703	103.8%	85	111				

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

CLIENT: Conoco, Inc.
Work Order: 9903004
Project: Salmon #1; 4-1377

Date: 10-Mar-99

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV1 QC0606/07		Batch ID: GC-1_990308	Test Code: SW8021B	Units: µg/L	Analysis Date 3/8/99		Prep Date:
Client ID: 9903004		Run ID: GC-1_990308A	PQL	SPK value	SPK Ref Val	%REC	SeqNo: 11835
Analyte	Result						
Benzene	20.99		0.5	20	0	105.0%	85 115
Ethylbenzene	20.95		0.5	20	0	104.8%	85 115
m,p-Xylene	40.81		1	40	0	102.0%	85 115
Methyl tert-Butyl Ether	20.4		1	20	0	102.0%	85 115
o-Xylene	20.95		0.5	20	0	104.8%	85 115
Toluene	20.6		0.5	20	0	103.0%	85 115
1,4-Difluorobenzene	93.85		0	100	0	93.8%	84 100
4-Bromochlorobenzene	96.37		0	100	0	96.4%	87 105
Fluorobenzene	96.13		0	100	0	96.1%	87 99

Sample ID: CCV2 QC0606/07		Batch ID: GC-1_990308	Test Code: SW8021B	Units: µg/L	Analysis Date 3/8/99		Prep Date:
Client ID: 9903004		Run ID: GC-1_990308A	PQL	SPK value	SPK Ref Val	%REC	SeqNo: 11836
Analyte	Result						
Benzene	21.28		0.5	20	0	106.4%	85 115
Ethylbenzene	21.1		0.5	20	0	105.5%	85 115
m,p-Xylene	40.9		1	40	0	102.3%	85 115
Methyl tert-Butyl Ether	20.43		1	20	0	102.2%	85 115
o-Xylene	21.06		0.5	20	0	105.3%	85 115
Toluene	20.86		0.5	20	0	104.3%	85 115
1,4-Difluorobenzene	93.79		0	100	0	93.8%	84 100
4-Bromochlorobenzene	96.38		0	100	0	96.4%	87 105
Fluorobenzene	95.75		0	100	0	95.8%	87 99

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: Conoco, Inc.
Work Order: 9903004
Project: Salmon #1; 4-1377

QC SUMMARY REPORT
 Continuing Calibration Verification Standard

Sample ID: CCV3 QC0606/07		Batch ID: GC-1_990308		Test Code: SW8021B		Units: µg/L		Analysis Date 3/8/99		Prep Date:	
Client ID:		9903004		Run ID: GC-1_990308A		SeqNo: 11837		SeqNo:		SeqNo:	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	40.6	0.5	40	0	101.5%	85	115				
Ethylbenzene	40.11	0.5	40	0	100.3%	85	115				
m,p-Xylene	78.34	1	80	0	97.9%	85	115				
Methyl tert-Butyl Ether	40.67	1	40	0	101.7%	85	115				
o-Xylene	40.58	0.5	40	0	101.4%	85	115				
Toluene	39.95	0.5	40	0	99.9%	85	115				
1,4-Difluorobenzene	93.52	0	100	0	93.5%	84	100				
4-Bromochlorobenzene	94.65	0	100	0	94.7%	87	105				
Fluorobenzene	95.46	0	100	0	95.5%	87	99				

On Site Technologies, LTD.

Date: 10-Mar-99

CLIENT: Conoco, Inc.
Work Order: 9903004
Project: Salmon #1; 4-1377
Test No: SW8021B

QC SUMMARY REPORT SURROGATE RECOVERIES

BTEX

Sample ID	14FBZ	4BCBZ	FLBZ
9902089-01A	94.3	96.5	96.4
9902089-02AMS	93.2	96.5	95.2
9902089-02AMSD	92.7	96.4	95.4
9902096-01A	94.4	96	96.4
9902096-02A	94.2	96.4	96.5
9902096-03A	94	96.4	96.6
9902096-05A	94.5	95.8	96.3
9903001-02A	94	95.5	96.7
9903002-01A	89.9	93.1	93.5
9903003-01A	93.7	96.1	96
9903004-01A	89.8	94.5	92.1
9903006-01A	92.5	95.9	94
9903006-02A	92.6	93.9	95.1
9903006-03A	94.4	95.7	96.4
9903008-01A	89.3	90.7	96.6
9903009-01A	94.4	95.9	96.9
9903009-02A	94.2	96.3	96.4
9903010-01A	92.5	97.3	94.5
9903013-01A	93.6	94.8	95.6
CCV1 QC0606/07	93.8	96.4	96.1
CCV2 QC0606/07	93.8	96.4	95.8
CCV3 QC0606/07	93.5	94.6	95.4
LCS WATER	93.4	96.4	95.4
MB1	94.2	96.3	96.6

Acronym	Surrogate	QC Limits
14FBZ	= 1,4-Difluorobenzene	84-100
4BCBZ	= 4-Bromochlorobenzene	87-105
FLBZ	= Fluorobenzene	87-99

* Surrogate recovery outside acceptance limits



CHAIN OF CUSTODY RECORD

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

Date: 11/11/11

Page: 1 of 1

Purchase Order No.:		Project No. <u>41117</u>		Name <u>Lucy T. H.</u>		Title																	
SEND INVOICE TO		Company		Company <u>Lucy T. H.</u>																			
Address		Dept.		Mailing Address																			
City, State, Zip				City, State, Zip		Telephone No.																	
City, State, Zip				Telephone No.		Telefax No.																	
PROJECT LOCATION: <u>Salmon 41</u>				ANALYSIS REQUESTED																			
SAMPLER'S SIGNATURE:				LAB ID																			
SAMPLE IDENTIFICATION																							
DATE								TIME				MATRIX				PRES.							
Relinquished by: <u>Lucy T. H.</u>				Date/Time <u>11/11/11</u>				Received by: <u>Don G.</u>				Date/Time <u>11/11/11</u>											
Relinquished by:				Date/Time				Received by:				Date/Time											
Relinquished by:				Date/Time				Received by:				Date/Time											
Method of Shipment:								Rush				24-48 Hours				10 Working Days				By Date			
Authorized by: _____				Date _____				Special Instructions / Remarks:															
(Client Signature <u>Must</u> Accompany Request)																							



Date: _____

Page: 1 of 1

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

[illegible]

OFF: (505) 325-5667



LAB: (505) 325-1556

June 21, 1999

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

RE: 4-1377; Salmon #1

Order No.: 9906020

Dear Larry Trujillo,

On Site Technologies, LTD. received 1 sample on 6/7/99 for the analyses presented in the following report.

The Samples were analyzed for the following tests:
Aromatic Volatiles by GC/PID (SW8021B)

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

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

Sincerely,

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

David Cox

OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 21-Jun-99

CLIENT: Conoco, Inc.
Project: 4-1377; Salmon #1
Lab Order: 9906020

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition

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

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 21-Jun-99

Client:	Conoco, Inc.	Client Sample Info:	Salmon #1
Work Order:	9906020	Client Sample ID:	DG #1
Lab ID:	9906020-01A	Matrix:	AQUEOUS
Project:	4-1377; Salmon #1	Collection Date:	6/7/99 11:35:00 AM
		COC Record:	10190

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B		Analyst: DC		
Benzene	70	5		µg/L	10	6/16/99
Toluene	8.8	5		µg/L	10	6/16/99
Ethylbenzene	ND	5		µg/L	10	6/16/99
m,p-Xylene	ND	10		µg/L	10	6/16/99
o-Xylene	ND	5		µg/L	10	6/16/99

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

1 of 1

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

On Site Technologies, LTD.

Date: 21-Jun-99

CLIENT: Conoco, Inc.
Work Order: 9906020
Project: 4-1377; Salmon #1

QC SUMMARY REPORT

Method Blank

Sample ID: MB1	Batch ID: GC-1_990616	Test Code: SW8021B	Units: µg/L	Analysis Date: 6/16/99	Prep Date:
Client ID:	9906020	Run ID: GC-1_990616A		SeqNo: 16005	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Benzene	ND	0.5			
Ethylbenzene	ND	0.5			
m,p-Xylene	ND	1			
Methyl tert-Butyl Ether	ND	1			
o-Xylene	.0555	0.5			J
Toluene	.1036	0.5			J

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

On Site Technologies, LTD.

Date: 21-Jun-99

CLIENT: Conoco, Inc.
Work Order: 9906020
Project: 4-1377; Salmon #1

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: 9906015-24AMS		Batch ID: GC-1_990616		Test Code: SW8021B		Units: µg/L		Analysis Date: 6/16/99		Prep Date:	
Client ID:		9906020		Run ID:		GC-1_990616A		SeqNo: 16006			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	6491	50	4000	2480	100.3%	73	115				
Ethylbenzene	4512	50	4000	189.1	108.1%	74	117				
m,p-Xylene	9582	100	8000	1256	104.1%	76	112				
Methyl tert-Butyl Ether	4626	100	4000	522.1	102.6%	62	122				
o-Xylene	4506	50	4000	147.5	109.0%	83	112				
Toluene	4681	50	4000	473	105.2%	71	120				

Sample ID: 9906015-24AMSD		Batch ID: GC-1_990616		Test Code: SW8021B		Units: µg/L		Analysis Date: 6/16/99		Prep Date:	
Client ID:		9906020		Run ID:		GC-1_990616A		SeqNo: 16007			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	6302	50	4000	2480	95.6%	73	115	6491	2.9%	8	
Ethylbenzene	4388	50	4000	189.1	105.0%	74	117	4512	2.8%	9	
m,p-Xylene	9316	100	8000	1256	100.8%	76	112	9582	2.8%	9	
Methyl tert-Butyl Ether	4536	100	4000	522.1	100.4%	62	122	4626	2.0%	7	
o-Xylene	4389	50	4000	147.5	106.0%	83	112	4506	2.6%	9	
Toluene	4542	50	4000	473	101.7%	71	120	4681	3.0%	9	

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

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

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 21-Jun-99

CLIENT: Conoco, Inc.
Work Order: 9906020
Project: 4-1377; Salmon #1

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: LCS WATER		Batch ID: GC-1_990616	Test Code: SW8021B	Units: µg/L	Analysis Date: 6/16/99		Prep Date:				
Client ID:		9906020	Run ID: GC-1_990616A		SeqNo: 16004						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	39.35	0.5	40	0	98.4%	84	110				
Ethylbenzene	42.58	0.5	40	0	106.5%	86	113				
m,p-Xylene	82.73	1	80	0	103.4%	81	114				
Methyl tert-Butyl Ether	39.42	1	40	0	98.5%	69	129				
o-Xylene	42.84	0.5	40	0.0555	107.0%	86	112				
Toluene	41.4	0.5	40	0.1036	103.2%	85	111				

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

On Site Technologies, LTD.

Date: 21-Jun-99

CLIENT: Conoco, Inc.

Work Order: 9906020

Project: 4-1377; Salmon #1

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV1 BTEX_9902		Batch ID: GC-1_990616	Test Code: SW8021B	Units: µg/L		Analysis Date: 6/16/99		Prep Date:	
Client ID:		9906020	Run ID: GC-1_990616A			SeqNo: 16001			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	RPDLimit
Benzene	20.67	0.5	20	0	103.3%	85	115		
Ethylbenzene	22.1	0.5	20	0	110.5%	85	115		
m,p-Xylene	43.18	1	40	0	107.9%	85	115		
Methyl tert-Butyl Ether	20.92	1	20	0	104.6%	85	115		
o-Xylene	22.22	0.5	20	0	111.1%	85	115		
Toluene	21.55	0.5	20	0	107.7%	85	115		
1,4-Difluorobenzene	93.71	0	100	0	93.7%	86	100		
4-Bromochlorobenzene	94.73	0	100	0	94.7%	90	104		
Fluorobenzene	95.93	0	100	0	95.9%	89	101		

Sample ID: CCV2 BTEX_9902		Batch ID: GC-1_990616	Test Code: SW8021B	Units: µg/L		Analysis Date: 6/16/99		Prep Date:	
Client ID:		9906020	Run ID: GC-1_990616A			SeqNo: 16002			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	RPDLimit
Benzene	20.87	0.5	20	0	104.4%	85	115		
Ethylbenzene	22.19	0.5	20	0	110.9%	85	115		
m,p-Xylene	43.09	1	40	0	107.7%	85	115		
Methyl tert-Butyl Ether	21.5	1	20	0	107.5%	85	115		
o-Xylene	22.33	0.5	20	0	111.7%	85	115		
Toluene	21.68	0.5	20	0	108.4%	85	115		
1,4-Difluorobenzene	94.8	0	100	0	94.8%	86	100		
4-Bromochlorobenzene	94.21	0	100	0	94.2%	90	104		
Fluorobenzene	97.65	0	100	0	97.7%	89	101		

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: Conoco, Inc.
Work Order: 9906020
Project: 4-1377; Salmon #1

QC SUMMARY REPORT
 Continuing Calibration Verification Standard

Sample ID: CCV3 BTEX_9902		Batch ID: GC-1_990616	Test Code: SW8021B	Units: µg/L	Analysis Date: 6/16/99		Prep Date:				
Client ID:		9906020	Run ID: GC-1_990616A		SeqNo: 16003						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	40.95	0.5	40	0	102.4%	85	115				
Ethylbenzene	43.87	0.5	40	0	109.7%	85	115				
m,p-Xylene	84.87	1	80	0	106.1%	85	115				
Methyl tert-Butyl Ether	42.23	1	40	0	105.6%	85	115				
o-Xylene	44.17	0.5	40	0	110.4%	85	115				
Toluene	42.89	0.5	40	0	107.2%	85	115				
1,4-Difluorobenzene	93.9	0	100	0	93.9%	86	100				
4-Bromochlorobenzene	94.74	0	100	0	94.7%	90	104				
Fluorobenzene	96.97	0	100	0	97.0%	89	101				

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: 21-Jun-99

CLIENT: Conoco, Inc.
Work Order: 9906020
Project: 4-1377; Salmon #1
Test No: SW8021B

QC SUMMARY REPORT SURROGATE RECOVERIES

Aromatic Volatiles by GC/PID

Sample ID	14FBZ	4BCBZ	FLBZ
9906015-17A	94.9	94.1	98.6
9906015-18A	94.9	94.6	98.6
9906015-19A	95.2	94.3	98.9
9906015-20A	95.1	96.4	98.2
9906015-21A	95.1	95.7	98.6
9906015-22A	94.5	93.9	98
9906015-23A	93.7	95.6	96.6
9906015-24A	94.6	93.8	97.4
9906015-24AMS	93.6	95.3	96.5
9906015-24AMSD	93.6	95.6	96.5
9906015-25A	91	94.9	94.2
9906015-26A	95.1	94.8	98.8
9906015-27A	95.3	94.3	96.5
9906018-01A	94.6	95.1	98.7
9906019-01A	95.5	95.2	98.2
9906020-01A	94.1	94.4	97.5
9906021-01A	94.9	95.4	98.5
9906021-02A	95.8	94.9	98.6
9906021-03A	95.4	95.3	98.6
9906022-01A	89.9	91.7	95.6
9906023-01A	89	87.1 *	91.5
9906049-01A	95.5	94.9	98.8
CCV1 BTEX_99020	93.7	94.7	95.9
CCV2 BTEX_99020	94.8	94.2	97.6
CCV3 BTEX_99020	93.9	94.7	97
LCS WATER	93.8	95	96.8
MB1	94.9	94.4	96.8

Acronym	Surrogate	QC Limits
14FBZ	= 1,4-Difluorobenzene	86-100
4BCBZ	= 4-Bromochlorobenzene	90-104
FLBZ	= Fluorobenzene	89-101

* Surrogate recovery outside acceptance limits



CHAIN OF CUSTODY RECORD

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

Date: 11/17

Page: 1 of 1

Purchase Order No.:		Project No. <u>41271</u>		Name <u>Lee T. Tull</u>		Title	
SEND INVOICE TO		Company <u>AlphaGraphics</u>		Company <u>AlphaGraphics</u>		Company	
Address		Dept.		Mailing Address		Mailing Address	
City, State, Zip				City, State, Zip		City, State, Zip	
Telephone No.				Telephone No.		Telephone No.	
PROJECT LOCATION: <u>Salmon</u>							
SAMPLER'S SIGNATURE: <u>[Signature]</u>							
SAMPLE IDENTIFICATION		DATE		TIME		MATRIX	
PRES.							
Number of Containers							
REPORT RESULTS TO							
Name							
Company							
Mailing Address							
City, State, Zip							
Telephone No.							
Title							
LAB ID							
ANALYSIS REQUESTED							
Relinquished by: <u>[Signature]</u>		Date/Time <u>11/17/03</u>		Received by: <u>[Signature]</u>		Date/Time <u>11/17/03</u>	
Relinquished by:		Date/Time		Received by:		Date/Time	
Relinquished by:		Date/Time		Received by:		Date/Time	
Method of Shipment:				Rush		24-48 Hours	
				10 Working Days		By Date	
Authorized by: _____		Date _____		Special Instructions / Remarks:			
(Client Signature <u>Must</u> Accompany Request)							



Date: 11/1/

Page: 1 of 1

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

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

OFF: (505) 325-5667



LAB: (505) 325-1556

September 21, 1999

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

RE: Salmon #1; 4-1377

Order No.: 9909038

Dear Larry Trujillo,

On Site Technologies, LTD. received 1 sample on 9/10/99 for the analyses presented in the following report.

The Samples were analyzed for the following tests:
Aromatic Volatiles by GC/PID (SW8021B)

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "David Cox", written over a horizontal line.

David Cox

OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 21-Sep-99

CLIENT: Conoco, Inc.
Project: Salmon #1; 4-1377
Lab Order: 9909038

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition

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

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 21-Sep-99

Client:	Conoco, Inc.	Client Sample Info:	Salmon #1
Work Order:	9909038	Client Sample ID:	DG #2
Lab ID:	9909038-01A	Matrix:	AQUEOUS
Project:	Salmon #1; 4-1377	Collection Date:	9/10/99 12:00:00 PM
		COC Record:	10311

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B		Analyst: HR		
Benzene	ND	0.5		µg/L	1	9/14/99
Toluene	0.5	0.5		µg/L	1	9/14/99
Ethylbenzene	ND	0.5		µg/L	1	9/14/99
m,p-Xylene	ND	1		µg/L	1	9/14/99
o-Xylene	ND	0.5		µg/L	1	9/14/99

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

1 of 1

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

On Site Technologies, LTD.

Date: 21-Sep-99

CLIENT: Conoco, Inc.

Work Order: 9909038

Project: Salmon #1; 4-1377

QC SUMMARY REPORT

Method Blank

Sample ID: MB1	Batch ID: GC-1_990914	Test Code: SW8021B	Units: µg/L	Analysis Date: 9/14/99	Prep Date:
Client ID: 9909038	Run ID: GC-1_990914A			SeqNo: 19507	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Benzene	.0446	0.5			
Ethylbenzene	ND	0.5			
m,p-Xylene	ND	1			
Methyl tert-Butyl Ether	ND	1			
o-Xylene	ND	0.5			
Toluene	.1364	0.5			J

Qualifiers:

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

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

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 21-Sep-99

CLIENT: Conoco, Inc.

Work Order: 9909038

Project: Salmon #1; 4-1377

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: 9909035-24AMS		Batch ID: GC-1_990914		Test Code: SW8021B		Units: µg/L		Analysis Date: 9/14/99		Prep Date:	
Client ID:		9909038		Run ID:		GC-1_990914A		SeqNo: 19508			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	2496	10	800	1774	90.2%	80	116				
Ethylbenzene	1971	10	800	1215	94.5%	80	118				
m,p-Xylene	5264	20	1600	3764	93.8%	77	116				
Methyl tert-Butyl Ether	1032	20	800	361.1	83.9%	62	122				
o-Xylene	1955	10	800	1186	96.2%	83	117				
Toluene	6919	10	800	6123	99.5%	80	116				E

Sample ID: 9909035-24AMSD		Batch ID: GC-1_990914	Test Code: SW8021B	Units: µg/L	Analysis Date: 9/14/99			Prep Date:			
Client ID: 9909038		Run ID: GC-1_990914A			SeqNo: 19509						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	2543	10	800	1800	92.9%	80	116	2496	1.9%	7	
Ethylbenzene	2008	10	800	1200	101.0%	80	118	1971	1.9%	7	
m,p-Xylene	5367	20	1600	3800	97.9%	77	116	5264	1.9%	7	
Methyl tert-Butyl Ether	998.5	20	800	360	79.8%	62	122	1032	3.3%	7	
o-Xylene	1986	10	800	1200	98.2%	83	117	1955	1.6%	6	
Toluene	7010	10	800	6100	113.8%	80	116	6919	1.3%	6	E

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: 21-Sep-99

CLIENT: Conoco, Inc.
Work Order: 9909038
Project: Salmon #1; 4-1377

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: LCS WATER		Batch ID: GC-1_990914		Test Code: SW8021B		Units: µg/L		Analysis Date: 9/14/99		Prep Date:	
Client ID:		9909038		Run ID:		GC-1_990914A		SeqNo: 19506			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	40.27	0.5	40	0.0446	100.6%	87	119				
Ethylbenzene	41.1	0.5	40	0	102.7%	89	117				
m,p-Xylene	77.2	1	80	0	96.5%	88	114				
Methyl tert-Butyl Ether	41.27	1	40	0	103.2%	69	129				
o-Xylene	41.04	0.5	40	0	102.6%	90	116				
Toluene	40.67	0.5	40	0.1364	101.3%	90	115				

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: 21-Sep-99

CLIENT: Conoco, Inc.

Work Order: 9909038

Project: Salmon #1; 4-1377

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV1 BTEX_9906		Batch ID: GC-1_990914	Test Code: SW8021B	Units: µg/L		Analysis Date: 9/14/99			Prep Date:		
Client ID:		9909038	Run ID:	GC-1_990914A		SeqNo:	19502				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.11	0.5	20	0	100.6%	85	115				
Ethylbenzene	20.47	0.5	20	0	102.4%	85	115				
m,p-Xylene	38.52	1	40	0	96.3%	85	115				
Methyl tert-Butyl Ether	20.42	1	20	0	102.1%	85	115				
o-Xylene	20.44	0.5	20	0	102.2%	85	115				
Toluene	20.16	0.5	20	0	100.8%	85	115				
1,4-Difluorobenzene	89.02	0	100	0	89.0%	80	120				
4-Bromochlorobenzene	89.72	0	100	0	89.7%	80	120				
Fluorobenzene	87.84	0	100	0	87.8%	80	120				

Sample ID: CCV2 BTEX_9906		Batch ID: GC-1_990914	Test Code: SW8021B	Units: µg/L		Analysis Date: 9/14/99			Prep Date:		
Client ID:		9909038	Run ID:	GC-1_990914A		SeqNo:	19503				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.54	0.5	20	0	102.7%	85	115				
Ethylbenzene	20.98	0.5	20	0	104.9%	85	115				
m,p-Xylene	39.5	1	40	0	98.7%	85	115				
Methyl tert-Butyl Ether	20.52	1	20	0	102.6%	85	115				
o-Xylene	20.93	0.5	20	0	104.7%	85	115				
Toluene	20.72	0.5	20	0	103.6%	85	115				
1,4-Difluorobenzene	89.01	0	100	0	89.0%	80	120				
4-Bromochlorobenzene	89.95	0	100	0	90.0%	80	120				
Fluorobenzene	87.79	0	100	0	87.8%	80	120				

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: Conoco, Inc.

Work Order: 9909038

Project: Salmon #1; 4-1377

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV3 BTEX_9906		Batch ID: GC-1_990914		Test Code: SW8021B		Units: µg/L		Analysis Date: 9/14/99		Prep Date:	
Client ID:		9909038		Run ID: GC-1_990914A				SeqNo: 19504			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	39.32	0.5	40	0	98.3%	85	115				
Ethylbenzene	39.87	0.5	40	0	99.7%	85	115				
m,p-Xylene	74.83	1	80	0	93.5%	85	115				
Methyl tert-Butyl Ether	41.42	1	40	0	103.6%	85	115				
o-Xylene	40.13	0.5	40	0	100.3%	85	115				
Toluene	39.66	0.5	40	0	99.1%	85	115				
1,4-Difluorobenzene	88.79	0	100	0	88.8%	80	120				
4-Bromochlorobenzene	89.54	0	100	0	89.5%	80	120				
Fluorobenzene	87	0	100	0	87.0%	80	120				

Sample ID: CCV4 BTEX_9906		Batch ID: GC-1_990914		Test Code: SW8021B		Units: µg/L		Analysis Date: 9/14/99		Prep Date:	
Client ID:		9909038		Run ID: GC-1_990914A				SeqNo: 19505			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	39	0.5	40	0	97.5%	85	115				
Ethylbenzene	40.06	0.5	40	0	100.1%	85	115				
m,p-Xylene	74.86	1	80	0	93.6%	85	115				
Methyl tert-Butyl Ether	41.34	1	40	0	103.4%	85	115				
o-Xylene	40.41	0.5	40	0	101.0%	85	115				
Toluene	39.73	0.5	40	0	99.3%	85	115				
1,4-Difluorobenzene	88.73	0	100	0	88.7%	80	120				
4-Bromochlorobenzene	88.82	0	100	0	88.8%	80	120				
Fluorobenzene	87.03	0	100	0	87.0%	80	120				

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: 21-Sep-99

CLIENT: Conoco, Inc.
Work Order: 9909038
Project: Salmon #1; 4-1377
Test No: SW8021B

QC SUMMARY REPORT SURROGATE RECOVERIES

Aromatic Volatiles by GC/PID

Sample ID	14FBZ	4BCBZ	FLBZ
9909015-01A	90.7	91.8	90.2
9909023-01A	89.5	89.6	88.4
9909028-01A	87.4	87.8	87.2
9909035-17A	89.8	90.2	88.7
9909035-18A	85.5	88.4	85.2
9909035-19A	89.1	91.5	88.6
9909035-20A	89.7	89.8	89.3
9909035-21A	86.6	89.9	85.5
9909035-22A	88.9	89.6	86.9
9909035-23A	89.9	90.3	88.7
9909035-24A	87.6	90.4	85.2
9909035-24AMS	87.2	91.1	84.9
9909035-24AMSD	87.4	91	84.9
9909035-25A	87.7	88.2	88
9909036-01A	89.8	90.3	88.7
9909037-01A	90.2	90	88.7
9909038-01A	89.2	89.7	88.4
9909041-01A	89.4	90	89
9909041-03A	89.4	90.2	89
9909041-04A	71.8 *	71.8 *	71.2 *
CCV1 BTEX_99061	89	89.7	87.8
CCV2 BTEX_99061	89	90	87.8
CCV3 BTEX_99061	88.8	89.5	87
CCV4 BTEX_99061	88.7	88.8	87
LCS WATER	88.5	90	86.8
MB1	90.1	89.5	89.1

Acronym	Surrogate	QC Limits
14FBZ	= 1,4-Difluorobenzene	80-120
4BCBZ	= 4-Bromochlorobenzene	80-120
FLBZ	= Fluorobenzene	80-120



CHAIN OF CUSTODY RECORD

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

Date: 1/10/07

Page: 1 of 1

Purchase Order No.:		Project No. <u>41277</u>		REPORT RESULTS TO		Name <u>Lee Taylor</u>		Title			
SEND INVOICE TO		Name <u>Lee Taylor</u>		Company <u>Caro</u>		Company <u>Caro</u>		Mailing Address			
Address		Dept.		City, State, Zip		Telephone No.		Telefax No.			
PROJECT LOCATION: <u>Salina, KS</u>				ANALYSIS REQUESTED							
SAMPLER'S SIGNATURE: <u>[Signature]</u>				LAB ID							
SAMPLE IDENTIFICATION											
DATE	TIME	MATRIX	PRES.								
Relinquished by: <u>[Signature]</u>				Date/Time <u>1/10/07</u>		Received by: <u>[Signature]</u>		Date/Time <u>1/10/07</u>			
Relinquished by:				Date/Time		Received by:		Date/Time			
Relinquished by:				Date/Time		Received by:		Date/Time			
Method of Shipment:				Rush		24-48 Hours		10 Working Days			
Authorized by: _____				Date _____		Special Instructions / Remarks:					
(Client Signature <u>Must</u> Accompany Request)											



CHAIN OF CUSTODY RECORD

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

Date: 1/10/11

Page: 1 of 1

Purchase Order No.:		Project No. <u>41177</u>		REPORT TO		Name <u>Lucy Taylor</u>		Title	
SEND INVOICE TO		Name <u>Lucy Taylor</u>		Company <u>Carco</u>		Mailing Address		Company	
Address		Dept.		City, State, Zip		Telephone No.		Telefax No.	
PROJECT LOCATION: <u>Lab 101</u>				ANALYSIS REQUESTED					
SAMPLER'S SIGNATURE: <u>[Signature]</u>				LAB ID					
SAMPLE IDENTIFICATION									
DATE	TIME	MATRIX	PRES.						
<u>1/10/11</u>	<u>10:00</u>	<u>101</u>	<u>101</u>						
Relinquished by: <u>[Signature]</u>				Date/Time <u>1/10/11</u>		Received by: <u>[Signature]</u>		Date/Time	
Relinquished by:				Date/Time		Received by:		Date/Time	
Relinquished by:				Date/Time		Received by:		Date/Time	
Method of Shipment:				Rush		24-48 Hours		10 Working Days	
Authorized by: _____				Date _____		Special Instructions / Remarks:			
(Client Signature <u>Must</u> Accompany Request)									

OFF: (505) 325-5667



LAB: (505) 325-1556

December 30, 1999

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

RE: 4-1377; Salmon #1

Order No.: 9912015

Dear Larry Trujillo,

On Site Technologies, LTD. received 1 sample on 12/13/1999 for the analyses presented in the following report.

The Samples were analyzed for the following tests:
Aromatic Volatiles by GC/PID (SW8021B)

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

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

Sincerely,

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

David Cox

OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 30-Dec-99

CLIENT: On Site Technologies Limited
Project: 4-1377; Salmon #1
Lab Order: 9912015

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition

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

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 30-Dec-99

Client:	On Site Technologies Limited	Client Sample Info:	Salmon #1
Work Order:	9912015	Client Sample ID:	DG-2
Lab ID:	9912015-01A	Matrix:	AQUEOUS
Project:	4-1377; Salmon #1	Collection Date:	12/13/1999 12:00:00 PM
		COC Record:	10440

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B		Analyst: DC		
Benzene	1.2	0.5		µg/L	1	12/20/1999
Toluene	0.8	0.5		µg/L	1	12/20/1999
Ethylbenzene	1.8	0.5		µg/L	1	12/20/1999
m,p-Xylene	1.1	1		µg/L	1	12/20/1999
o-Xylene	1.5	0.5		µg/L	1	12/20/1999

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

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

1 of 1

On Site Technologies, LTD.

CLIENT: On Site Technologies Limited
 Work Order: 9912015
 Project: 4-1377; Salmon #1

Date: 30-Dec-99

QC SUMMARY REPORT

Method Blank

Sample ID: MB1	Batch ID: GC-1_991217	Test Code: SW8021B	Units: µg/L	Analysis Date 12/17/1999	Prep Date:
Client ID:	9912015	Run ID: GC-1_991217A		SeqNo: 22149	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Benzene	.2023	0.5			J
Ethylbenzene	.2647	0.5			J
m,p-Xylene	.3793	1			J
Methyl tert-Butyl Ether	.2003	1			J
o-Xylene	.1475	0.5			J
Toluene	.2826	0.5			J

Sample ID: MB1	Batch ID: GC-1_991220	Test Code: SW8021B	Units: µg/L	Analysis Date 12/20/1999	Prep Date:
Client ID:	9912015	Run ID: GC-1_991220A		SeqNo: 22190	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Benzene	ND	0.5			
Ethylbenzene	ND	0.5			
m,p-Xylene	ND	1			
Methyl tert-Butyl Ether	ND	1			
o-Xylene	ND	0.5			
Toluene	.083	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
Work Order: 9912015
Project: 4-1377; Salmon #1

Date: 30-Dec-99

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: 9912011-04AMS		Batch ID: GC-1_991217		Test Code: SW8021B		Units: µg/L		Analysis Date 12/17/1999			Prep Date:	
Client ID:		9912015		Run ID:		GC-1_991217A		SeqNo:		22150		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Benzene	2856	25	2000	902.8	97.7%	80	116					
Ethylbenzene	2379	25	2000	378.2	100.1%	80	118					
m,p-Xylene	6200	50	4000	2548	91.3%	77	116					
Methyl tert-Butyl Ether	2152	50	2000	25	106.4%	62	122					
o-Xylene	2604	25	2000	589.5	100.7%	83	117					
Toluene	5240	25	2000	3637	80.2%	80	116					

Sample ID: 9912011-04AMSD		Batch ID: GC-1_991217	Test Code: SW8021B	Units: µg/L	Analysis Date 12/17/1999			Prep Date:			
Client ID:		9912015	Run ID: GC-1_991217A		SeqNo: 22151						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	2824	25	2000	902.8	96.1%	80	116	2856	1.1%	7	
Ethylbenzene	2358	25	2000	378.2	99.0%	80	118	2379	0.9%	7	
m,p-Xylene	6145	50	4000	2548	89.9%	77	116	6200	0.9%	7	
Methyl tert-Butyl Ether	2153	50	2000	25	106.4%	62	122	2152	0.0%	7	
o-Xylene	2573	25	2000	589.5	99.2%	83	117	2604	1.2%	6	
Toluene	5183	25	2000	3637	77.3%	80	116	5240	1.1%	6	S

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
Work Order: 9912015
Project: 4-1377; Salmon #1

QC SUMMARY REPORT
Sample Matrix Spike

Sample ID: 9912027-04AMS		Batch ID: GC-1_991220		Test Code: SW8021B		Units: µg/L		Analysis Date 12/20/1999		Prep Date:	
Client ID:		9912015		Run ID:		GC-1_991220A		SeqNo: 22191			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	203.3	2.5	200	0.2405	101.5%	80	116				
Ethylbenzene	197.3	2.5	200	0	98.7%	80	118				
m,p-Xylene	377.7	5	400	0	94.4%	77	116				
Methyl tert-Butyl Ether	212.8	5	200	0	106.4%	62	122				
o-Xylene	198.5	2.5	200	0	99.2%	83	117				
Toluene	201.3	2.5	200	0.486	100.4%	80	116				

Sample ID: 9912027-04AMSD		Batch ID: GC-1_991220		Test Code: SW8021B		Units: µg/L		Analysis Date 12/20/1999		Prep Date:	
Client ID:		9912015		Run ID:		GC-1_991220A		SeqNo: 22192			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	199	2.5	200	0.2405	99.4%	80	116	203.3	2.1%	7	
Ethylbenzene	193.1	2.5	200	0	96.6%	80	118	197.3	2.1%	7	
m,p-Xylene	369.7	5	400	0	92.4%	77	116	377.7	2.1%	7	
Methyl tert-Butyl Ether	212	5	200	0	106.0%	62	122	212.8	0.4%	7	
o-Xylene	195	2.5	200	0	97.5%	83	117	198.5	1.7%	6	
Toluene	197.1	2.5	200	0.486	98.3%	80	116	201.3	2.1%	6	

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
Work Order: 9912015
Project: 4-1377; Salmon #1

Date: 30-Dec-99

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: LCS WATER	Batch ID: GC-1_991217	Test Code: SW8021B	Units: µg/L	Analysis Date	12/17/1999	Prep Date:					
Client ID:	9912015	Run ID:	GC-1_991217A	SeqNo:	22148						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	41.13	0.5	40	0.2023	102.3%	87	119				
Ethylbenzene	41.36	0.5	40	0.2647	102.7%	89	117				
m,p-Xylene	79.38	1	80	0.3793	98.7%	88	114				
Methyl tert-Butyl Ether	42.08	1	40	0.2003	104.7%	69	129				
o-Xylene	41.54	0.5	40	0.1475	103.5%	90	116				
Toluene	41.38	0.5	40	0.2826	102.7%	90	115				

Sample ID: LCS WATER		Batch ID: GC-1_991220		Test Code: SW8021B		Units: µg/L		Analysis Date 12/20/1999		Prep Date:	
Client ID:		9912015		Run ID: GC-1_991220A				SeqNo: 22189			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	40.03	0.5	40	0	100.1%	87	119				
Ethylbenzene	39.38	0.5	40	0	98.5%	89	117				
m,p-Xylene	75.5	1	80	0	94.4%	88	114				
Methyl tert-Butyl Ether	41.48	1	40	0	103.7%	69	129				
o-Xylene	39.62	0.5	40	0	99.0%	90	116				
Toluene	39.68	0.5	40	0.083	99.0%	90	115				

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: 30-Dec-99

CLIENT: On Site Technologies Limited
Work Order: 9912015
Project: 4-1377; Salmon #1

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV1 BTEX_9910		Batch ID: GC-1_991217	Test Code: SW8021B	Units: µg/L	Analysis Date 12/17/1999		Prep Date:
Client ID: 9912015		Run ID: GC-1_991217A	PQL	SPK value	SPK Ref Val	SeqNo: 22145	
Analyte	Result					LowLimit	HighLimit
Benzene	21.98	0.5	0.5	20	0	85	115
Ethylbenzene	22.56	0.5	0.5	20	0	85	115
m,p-Xylene	42.98	1	1	40	0	85	115
Methyl tert-Butyl Ether	22.2	1	1	20	0	85	115
o-Xylene	22.53	0.5	0.5	20	0	85	115
Toluene	22.32	0.5	0.5	20	0	85	115
1,4-Difluorobenzene	89.59	0	0	100	0	80	120
4-Bromochlorobenzene	89.23	0	0	100	0	80	120
Fluorobenzene	87.38	0	0	100	0	80	120

Sample ID: CCV2 BTEX_9910		Batch ID: GC-1_991217	Test Code: SW8021B	Units: µg/L	Analysis Date 12/17/1999		Prep Date:
Client ID: 9912015		Run ID: GC-1_991217A	PQL	SPK value	SPK Ref Val	SeqNo: 22146	
Analyte	Result					LowLimit	HighLimit
Benzene	20.24	0.5	0.5	20	0	85	115
Ethylbenzene	20.89	0.5	0.5	20	0	85	115
m,p-Xylene	39.68	1	1	40	0	85	115
Methyl tert-Butyl Ether	21.5	1	1	20	0	85	115
o-Xylene	21.16	0.5	0.5	20	0	85	115
Toluene	20.7	0.5	0.5	20	0	85	115
1,4-Difluorobenzene	89.13	0	0	100	0	80	120
4-Bromochlorobenzene	90.68	0	0	100	0	80	120
Fluorobenzene	87.23	0	0	100	0	80	120

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
Work Order: 9912015
Project: 4-1377; Salmon #1

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV3 BTEX_9910		Batch ID: GC-1_991217		Test Code: SW8021B		Units: µg/L		Analysis Date 12/17/1999		Prep Date:	
Client ID: 9912015		Run ID: GC-1_991217A		SeqNo: 22147							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.86	0.5	20	0	104.3%	85	115				
Ethylbenzene	21.4	0.5	20	0	107.0%	85	115				
m,p-Xylene	40.88	1	40	0	102.2%	85	115				
Methyl tert-Butyl Ether	22.24	1	20	0	111.2%	85	115				
o-Xylene	21.99	0.5	20	0	109.9%	85	115				
Toluene	21.48	0.5	20	0	107.4%	85	115				
1,4-Difluorobenzene	88.81	0	100	0	88.8%	80	120				
4-Bromochlorobenzene	90.88	0	100	0	90.9%	80	120				
Fluorobenzene	87.2	0	100	0	87.2%	80	120				

Sample ID: CCV1 BTEX_9910		Batch ID: GC-1_991220		Test Code: SW8021B		Units: µg/L		Analysis Date 12/20/1999		Prep Date:	
Client ID: 9912015		Run ID: GC-1_991220A		SeqNo: 22186							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.97	0.5	20	0	104.9%	85	115				
Ethylbenzene	20.97	0.5	20	0	104.9%	85	115				
m,p-Xylene	39.76	1	40	0	99.4%	85	115				
Methyl tert-Butyl Ether	21.56	1	20	0	107.8%	85	115				
o-Xylene	20.86	0.5	20	0	104.3%	85	115				
Toluene	20.78	0.5	20	0	103.9%	85	115				
1,4-Difluorobenzene	89.04	0	100	0	89.0%	80	120				
4-Bromochlorobenzene	90.66	0	100	0	90.7%	80	120				
Fluorobenzene	87.23	0	100	0	87.2%	80	120				

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
Work Order: 9912015
Project: 4-1377; Salmon #1

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV2 BTEX_9910		Batch ID: GC-1_991220	Test Code: SW8021B	Units: µg/L		Analysis Date 12/20/1999		Prep Date:	
Client ID:		9912015	Run ID: GC-1_991220A			SeqNo: 22187			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	Qual
Benzene	20.14	0.5	20	0	100.7%	85	115		
Ethylbenzene	20.1	0.5	20	0	100.5%	85	115		
m,p-Xylene	38.17	1	40	0	95.4%	85	115		
Methyl tert-Butyl Ether	21.66	1	20	0	108.3%	85	115		
o-Xylene	20.21	0.5	20	0	101.0%	85	115		
Toluene	20.07	0.5	20	0	100.3%	85	115		
1,4-Difluorobenzene	89.32	0	100	0	89.3%	80	120		
4-Bromochlorobenzene	91.29	0	100	0	91.3%	80	120		
Fluorobenzene	87.18	0	100	0	87.2%	80	120		

Sample ID: CCV3 BTEX_9910		Batch ID: GC-1_991220	Test Code: SW8021B	Units: µg/L		Analysis Date 12/20/1999		Prep Date:	
Client ID:		9912015	Run ID: GC-1_991220A			SeqNo: 22188			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	Qual
Benzene	40.86	0.5	40	0	102.2%	85	115		
Ethylbenzene	39.97	0.5	40	0	99.9%	85	115		
m,p-Xylene	76.6	1	80	0	95.7%	85	115		
Methyl tert-Butyl Ether	42.74	1	40	0	106.8%	85	115		
o-Xylene	40.3	0.5	40	0	100.8%	85	115		
Toluene	40.56	0.5	40	0	101.4%	85	115		
1,4-Difluorobenzene	88.88	0	100	0	88.9%	80	120		
4-Bromochlorobenzene	90.02	0	100	0	90.0%	80	120		
Fluorobenzene	86.6	0	100	0	86.6%	80	120		

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: 30-Dec-99

CLIENT: On Site Technologies Limited
 Work Order: 9912015
 Project: 4-1377; Salmon #1
 Test No: SW8021B

QC SUMMARY REPORT SURROGATE RECOVERIES

Aromatic Volatiles by GC/PID

Sample ID	14FBZ	4BCBZ	FLBZ
9912011-04A	88.1	89.7	86.5
9912011-04AMS	87.4	89.8	85.9
9912011-04AMSD	87.6	89.7	85.6
9912012-10A	91.4	91.4	92.7
9912012-13A	86.4	87.8	87
9912012-15A	89.8	88.5	87.7
9912012-17A	89.9	90	87.9
9912012-18A	89.4	89.7	88
9912013-01A	88.5	89.3	86.8
9912014-01A	89.8	89.9	87.8
9912015-01A	87.8	89.1	86.2
9912016-01A	86.2	88.4	86.6
9912017-01A	83.2	84.3	82.4
9912018-01A	89.6	90	88.1
9912018-02A	90	90	88
9912018-03A	89.8	90.2	87.9
9912018-04A	89.9	90.1	88
9912018-05A	90.3	89.5	88
9912019-01A	87.8	91.2	85.5
9912021-01A	89.8	91.2	87.6
9912021-02A	89.4	90.7	87.6
9912021-03A	90	90.6	87.7
9912021-04A	89.7	90.5	87.8
9912021-06A	89.3	91.2	87.7
9912022-01A	89.5	90.2	88
9912023-01A	90.2	90.5	87.9
9912024-01A	89.9	89.8	87.6

Acronym	Surrogate	QC Limits
14FBZ	= 1,4-Difluorobenzene	80-120
4BCBZ	= 4-Bromochlorobenzene	80-120
FLBZ	= Fluorobenzene	80-120

* Surrogate recovery outside acceptance limits

CLIENT: On Site Technologies Limited
Work Order: 9912015
Project: 4-1377; Salmon #1
Test No: SW8021B

QC SUMMARY REPORT SURROGATE RECOVERIES

Aromatic Volatiles by GC/PID

Sample ID	14FBZ	4BCBZ	FLBZ
9912024-02A	89.8	90.1	87.7
9912024-03A	89.5	89.8	88
9912024-04A	90	89.6	87.7
9912024-05A	89.6	89.7	87.8
9912024-06A	89.8	90	88
9912024-07A	92.1	86.6	90.7
9912024-08A	89.7	90.8	87.6
9912024-09A	89.5	90.5	87.9
9912027-01A	89.8	89.9	88
9912027-02A	92.2	87.8	90.1
9912027-04AMS	89.2	90.1	86.6
9912027-04AMSD	88.7	90	86.7
CCV1 BTEX_99100	89	90.6	87.2
CCV2 BTEX_99100	89.3	91.3	87.2
CCV3 BTEX_99100	88.9	90	86.6
LCS WATER	88.7	91.2	86.6
MB1	89.6	89.8	87.8

Acronym	Surrogate	QC Limits
14FBZ	= 1,4-Difluorobenzene	80-120
4BCBZ	= 4-Bromochlorobenzene	80-120
FLBZ	= Fluorobenzene	80-120

* Surrogate recovery outside acceptance limits



Date: _____
Page: _____ of _____

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

3R - 92

REPORTS

DATE:

1998



February 4, 1999

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

RECEIVED

FEB 19 1999

ENVIRONMENTAL BUREAU
OIL CONSERVATION DIVISION

RE: 1998 Annual Ground Water Report
Conoco Location: Salmon #1
Unit P, Sec. 30, T29N, R11W, 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 covered the prior calendar year of 1998, and follows the format outlined in the *Comprehensive Ground Water Remediation and Long-Term Monitoring Plan for Conoco Locations in the San Juan Basin, New Mexico* (hereafter referred to as the monitoring plan), submitted to the New Mexico Oil Conservation Division on October 15, 1997.

SUMMARY OF 1998 ACTIVITIES:

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

During the March sampling event the DG#2 one-inch monitoring well was removed, as a result of a bailer becoming lodged in the well. This well was replaced with a two-inch well. The well was developed by removing approximately ten (10) volumes, allowed to recover and sampled.

The June sampling event for DG#3 was not completed due to livestock in the vicinity of this monitoring well.

In September 1998, all monitoring wells were sampled. After the sampling event had been completed, NMOCD modified the sampling requirements as follows:

- Quarterly sampling requirements were waived for DG#1 And DG#3
- DG#2 will continue to be sampled until four (4) consecutive sampling events at or below New Mexico Water Quality Control Commission (NMWQCC) standards.
- All monitoring well will be sampled during the final round for closure.

Results of the excavation efforts, site assessment, and ground water sampling were previously documented in the following correspondence.

On Site Technologies, Ltd., May 12, 1997. Letter to Mr. Neal Goates, Senior Environmental Specialist, Conoco, Inc. Midland Division, regarding: *Corrective Action Proposal, Conoco Location, Salmon #1, Unit P, Sec. 30, T29N, R11W, NMPM, San Juan Co., NM.*

On Site Technologies, Ltd., July 28, 1997. Letter to Mr. Neal Goates, Senior Environmental Specialist, Conoco, Inc. Midland Division, regarding: *Salmon #1 Excavation Summary, Conoco Location, Salmon #1, Unit P, Sec. 30, T29N, R11W, NMPM, San Juan Co., NM.*

PO Box 2606
Farmington, NM

505-325-5667

FAX: 505-327-1496

Boring logs, monitoring well diagrams, API water and RCRA metal analysis were previously documented in the following correspondence.

On Site Technologies, Ltd., February 1, 1998. Letter to Ms. Shirley Ebert, Field SHEAR Specialist, Conoco, Inc. Midland Division, regarding: 1997 Annual Ground Water Report, *Conoco Location, Salmon #1, Unit P, Sec. 30, T29N, R11W, NMPM, San Juan Co., NM.*

SAMPLING:

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

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

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 a former production pit at the Salmon #1 well location:

1. During the sampling events conducted since the March 1998, indicate BTEX contamination remains in the area of DG#2. Other monitoring wells, DG#1 and DG#2, show contamination levels below NMWQCC standards.
2. Groundwater gradient at this location changes seasonally and seems to be influenced by the agricultural activities associated with this location.

RECOMMENDATIONS:

1. Ground water monitoring of DG#2 is to continue until four (4) consecutive clean sampling events have been completed.
2. Upon completion of clean up, prepare a Final Pit Closure Report to be submitted to NMOCD for approval.

LIMITATIONS AND CLOSURE:

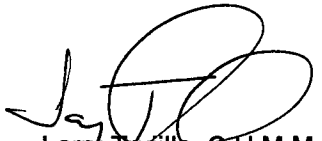
This annual ground water report documents the results of ground water monitoring for the referenced Conoco well location during the calendar year 1998. This report following the Comprehensive Ground Water Remediation and Long-Term Monitoring Plan for Conoco Locations in the San Juan Basin, New Mexico, dated October 15, 1997.

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

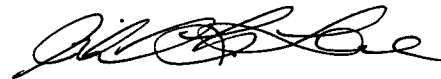
This document has been prepared by On Site Technologies for the exclusive use of Conoco Inc. as it pertains to the referenced well location operated by Conoco.

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

Respectfully submitted,



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

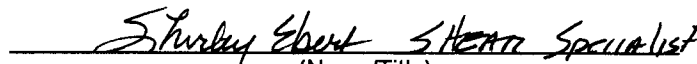


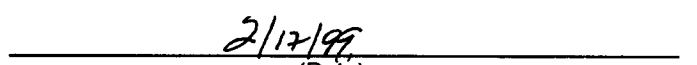
Michael K. Lane, P.E.
Senior Engineer

On Site Technologies, Limited Partnership

Attachments: Table 1: Monitoring Well Details and Ground Water Levels Summary
Table 2: Ground Water BTEX Analytical Summary
Figure 1: Site Sketch
Figure 2: Ground Water Potentiometric Map (March 1998)
Figure 3: Ground Water Potentiometric Map (June 1998)
Figure 4: Ground Water Potentiometric Map (September 1998)
Figure 5: Ground Water Potentiometric Map (December 1998)
Laboratory Results, QA/QC, Chain of Custody

Acknowledgment:
CONOCO, Inc.


(Name/Title)


(Date)

LET/let 21377-98.doc

On Site Technologies
Table 1

Ground Water Level Summary
Salmon #1
Unit P, Sec. 30, T29N, R11W

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)
DG#1	93.64	9.2	2" PVC	4.2	9/16/97	2.86	89.36
					12/22/97	3.01	90.63
					3/25/98	2.96	90.68
					6/9/98	2.75	90.89
					9/14/98	3.17	90.47
					12/30/98	3.48	89.69
DG#2	92.45	8.60	2" PVC	3.30	9/16/97	3.95	88.50
					12/22/97	*	
					3/25/98	3.80	88.65
					6/9/98	3.62	88.83
					9/14/98	3.41	89.04
					12/30/98	2.69	89.76
DG#3	92.22	8.2	2" PVC	3.70	09/16/97	3.19	89.03
					12/22/97	2.95	89.27
					3/25/98	2.89	89.33
					6/9/98	2.95 (est.)	89.27
					9/14/98	4.16	88.06
					12/30/98	2.62	89.60

Temporary Bench Mark (TBM): is the south east corner of implement storage building. Relative Elevation: 100'

BGS - approximate measurements taken as Below Ground Surface

BTOC - Below Top of Casing

NM - Not Measured

* Bailer stuck in well unable to retrieve

On Site Technologies

Table 2

BTEX Analytical Summary

Salmon #1

Unit P, Sec. 30, T29N, R11W

Sample Date	Sample ID#	Monitor Well	Remarks	BTEX per EPA 8020 (ppb)				
				Benzene	Toluene	Ethylbenzene	Total Xylene	
07/17/96	03696G01389	UPG#1	IML	BDL	BDL	BDL	BDL	BDL
07/17/96	03696G01388			BDL	BDL	BDL	BDL	BDL
07/17/96	0396G01390	DWG#1	IML	0.7	3.3	2.8	3.7	
03/13/97	13889	MW#1 NE	On Site Lab.	24.4	0.4	0.3	1.5	
03/26/97	14001			<0.2	<0.2	<0.2	0.3	
03/13/97	13890	MW#2 N	On Site Lab.	67.8	32.9	11.5	116.6	
03/20/97				40.7	11.9	8.6	74.2	
03/13/97	13891	MW#3 SW	On Site Lab.	<0.2	<0.2	<0.2	0.3	
03/13/97	13892	MW#4 SE	On Site Lab.	<0.2	<0.2	<0.2	0.2	
09/16/97	16203	DG#1	On Site Lab.	8.1	3.6	16.3	50.6	
12/22/97	17210			5.8	2.8	3.5	14.7	
3/25/98	9803058-01A			9.7	4.7	4.3	12.5	
6/9/98	9806031-01A			4.1	1.7	3.0	6.8	
9/14/98	9809031-01A			3.5	4.2	2.3	4.9	
WQCC	ACTION	LEVELS		10.0	750.0	750.0	620.0	

BDL: Below Detection Levels

1. Well replaced on 3/25/98

On Site Technologies

Table 2

BTEX Analytical Summary

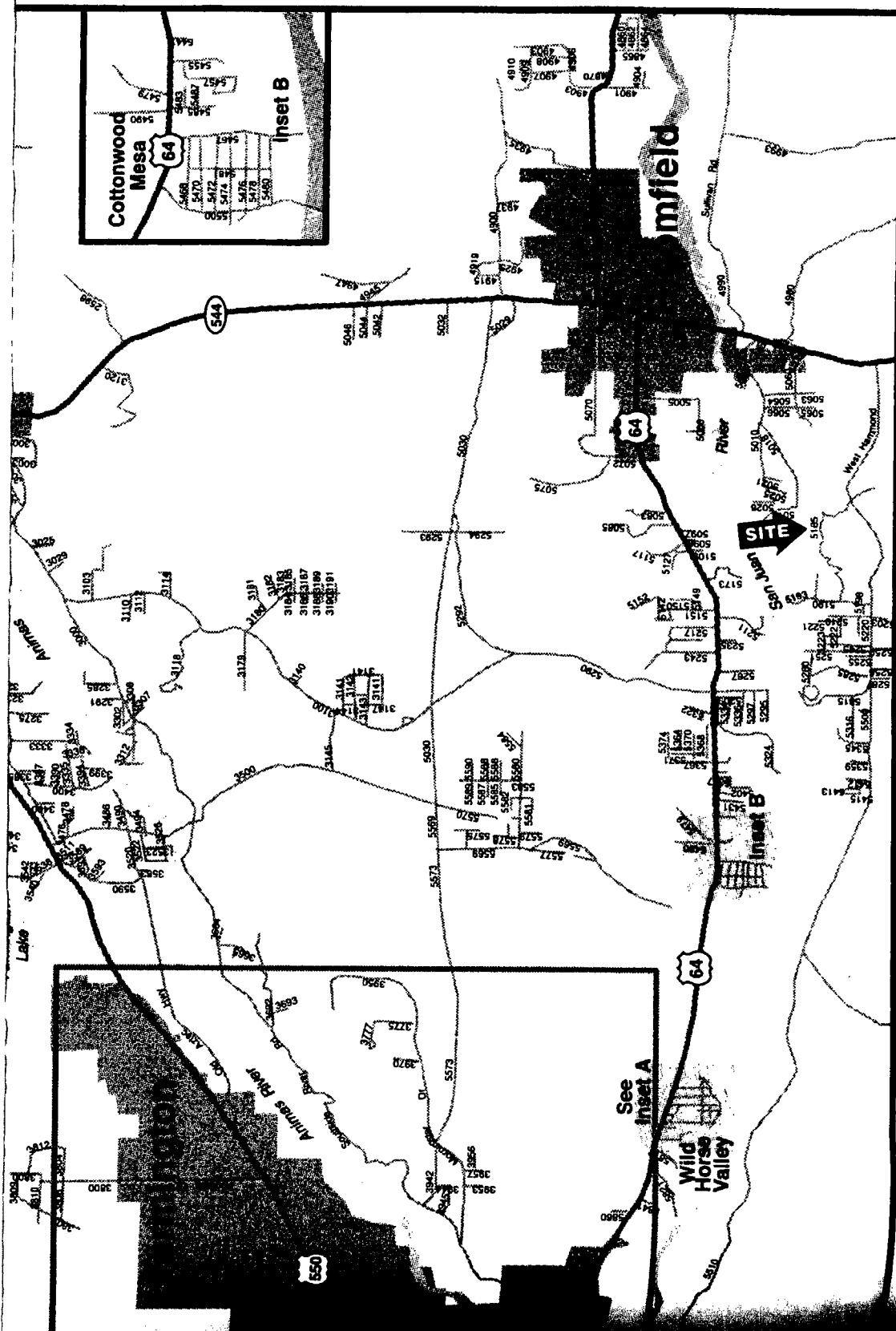
Salmon #1

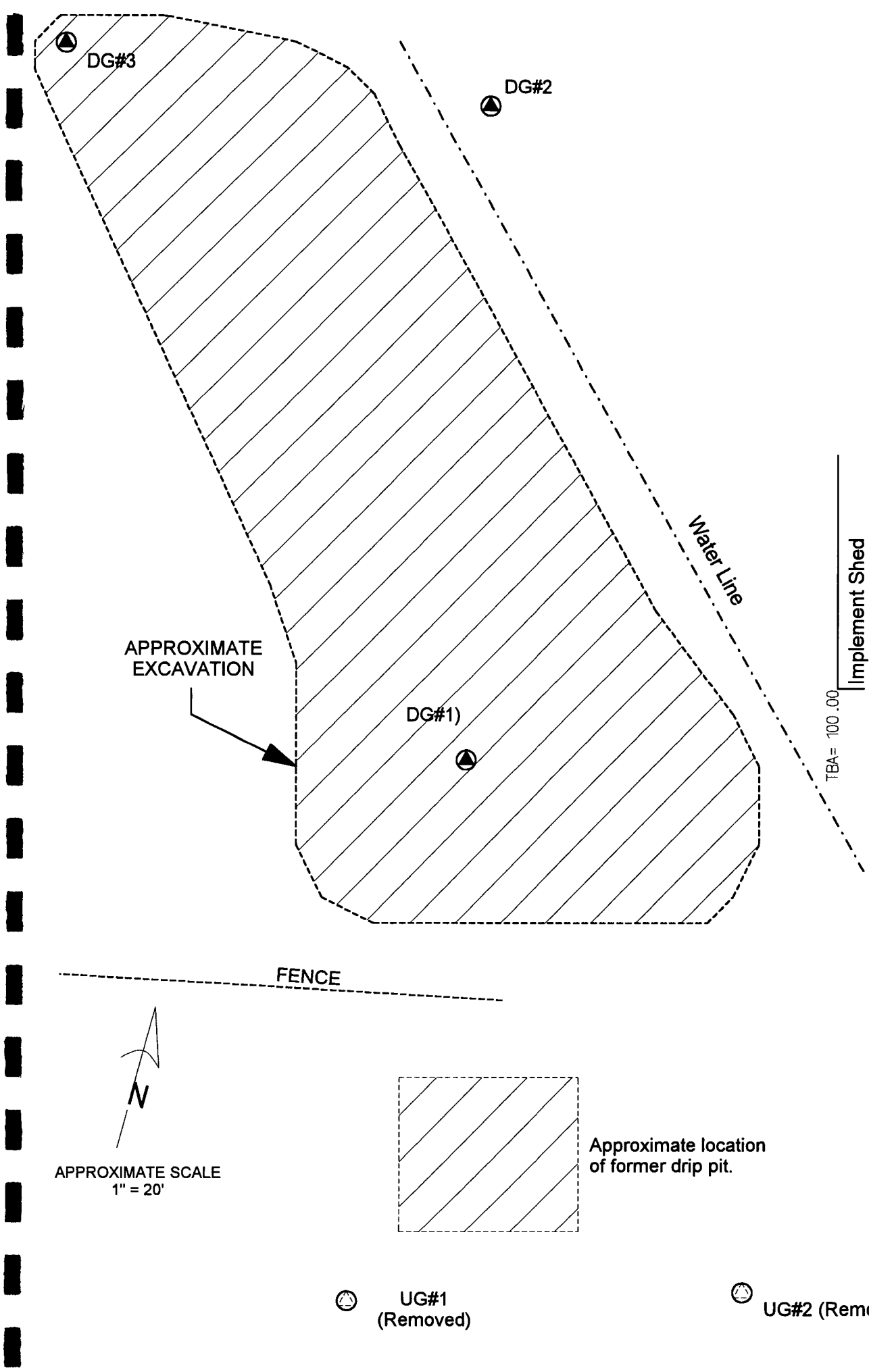
Unit P, Sec. 30, T29N, R11W

Sample Date	Sample ID#	Monitor Well	Remarks	BTEX per EPA 8020 (ppb)				
09/16/97		DG#2	On Site Lab.	Not	Sampled	Bailer In	The Well	
12/22/97								
3/25/98 ¹	9803058-02A			330.0	5.5	4.3	5.4	
6/9/98	9806031-02A			160.0	0.8	2.4	BDL	
9/14/98	9809031-02A			BDL	BDL	BDL	BDL	
12/30/98	9812057-01A			23.0	BDL	2.8	0.9	
09/16/97	16204	DG#3	On Site Lab.	BDL	BDL	BDL	0.2	
12/22/97	17211			BDL	BDL	BDL	BDL	
3/25/98	9803058-03A			BDL	BDL	BDL	BDL	
6/9/98	Not	sampled						
9/14/98	9809031-03A			BDL	BDL	BDL	BDL	
WQCC	ACTION	LEVELS		10.0	750.0	750.0	620.0	

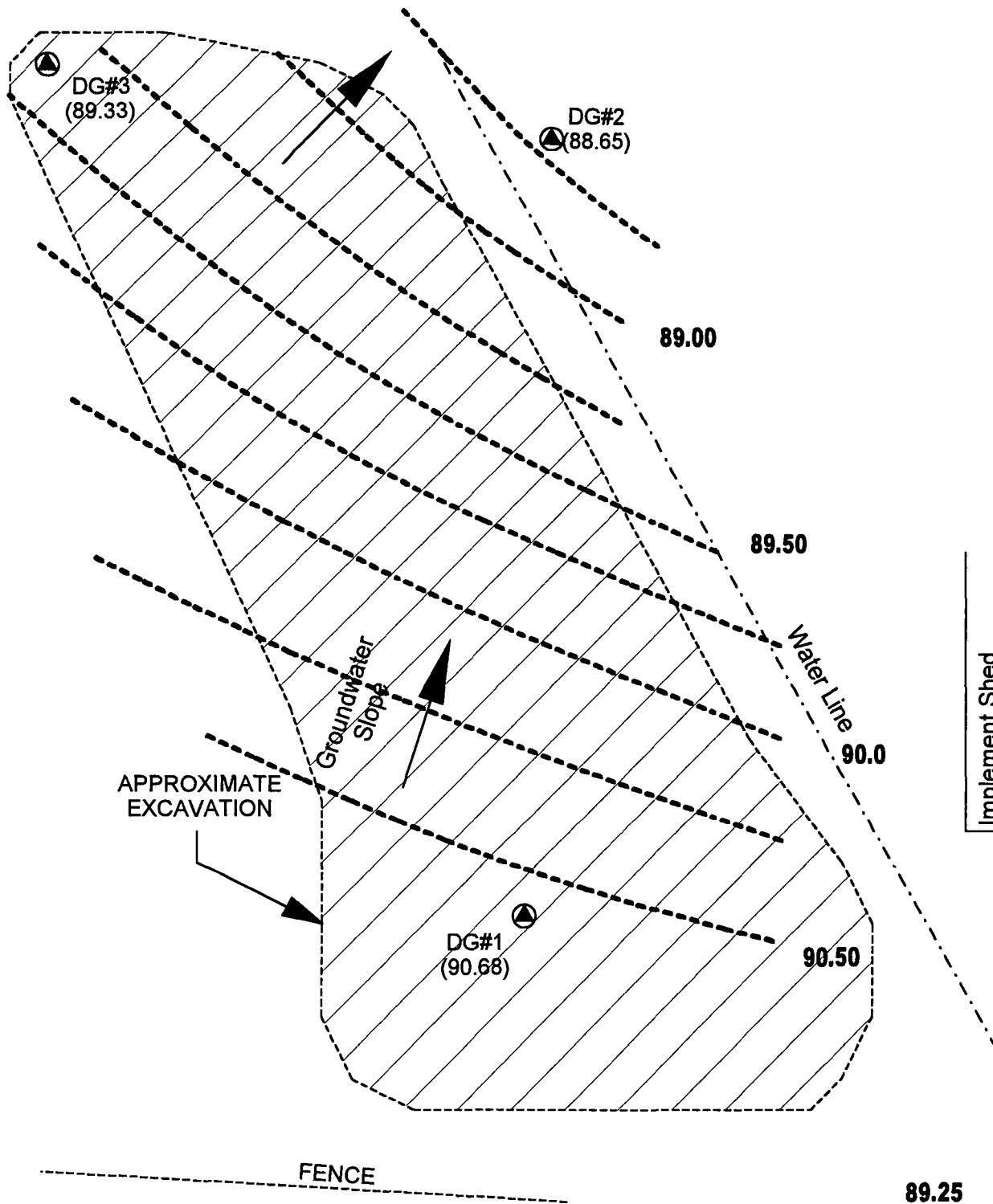
BDL: Below Detection Levels

1. Well replaced on 3/25/98

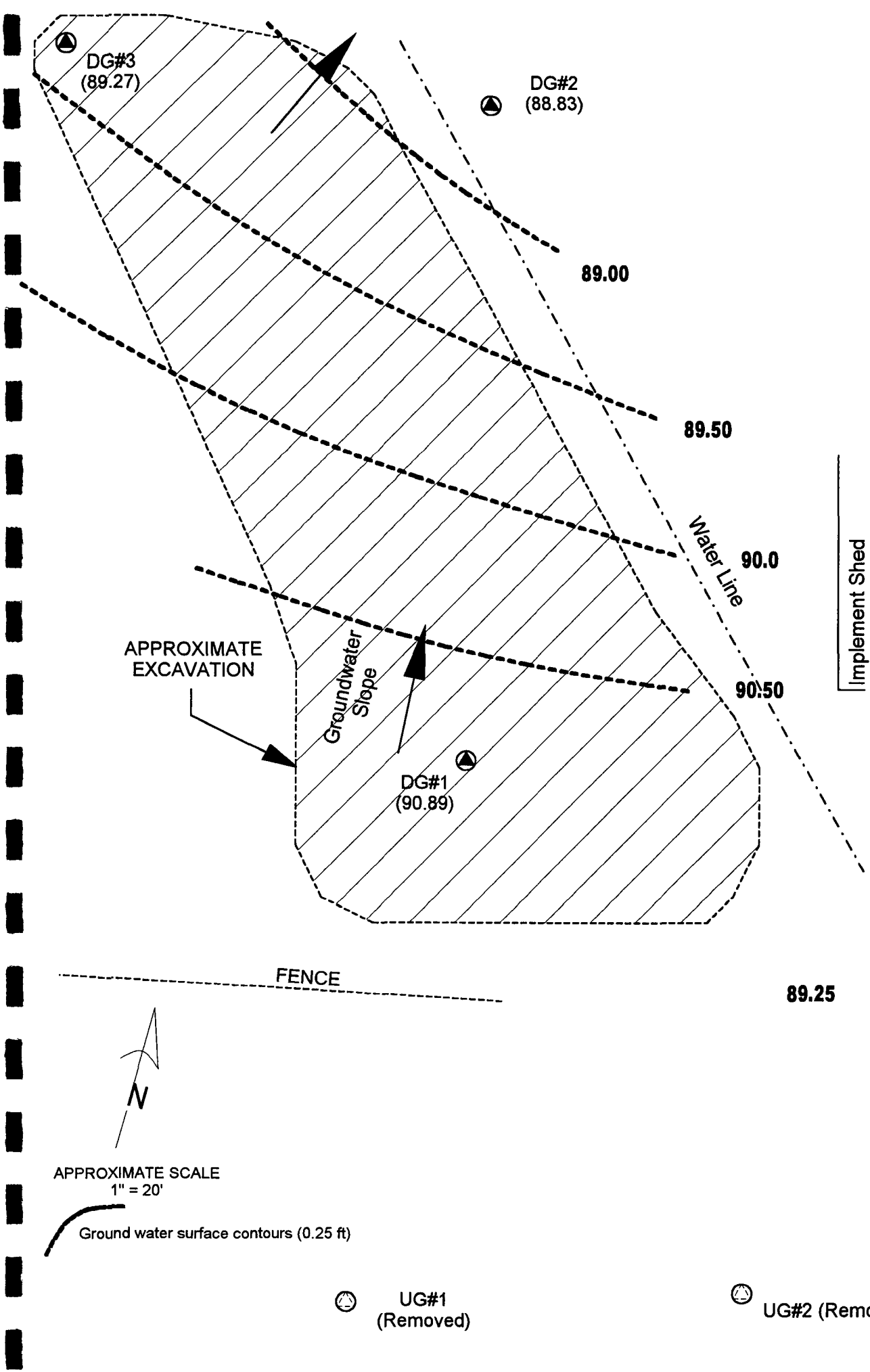




 ON SITE TECHNOLOGIES, LTD. P.O. BOX 2606, FARMINGTON, NM 87499 (505) 325-5667		Site Sketch	
CONOCO, INC. SALMON #1 SAN JUAN CO., NM		PROJECT: 1998 Ground Water Report	DRWN: July 25, 97
PROJECT NO: 2-1377		DRWN BY: MKL	REVISED: Feb. 9, 1999
FIGURE: 1			



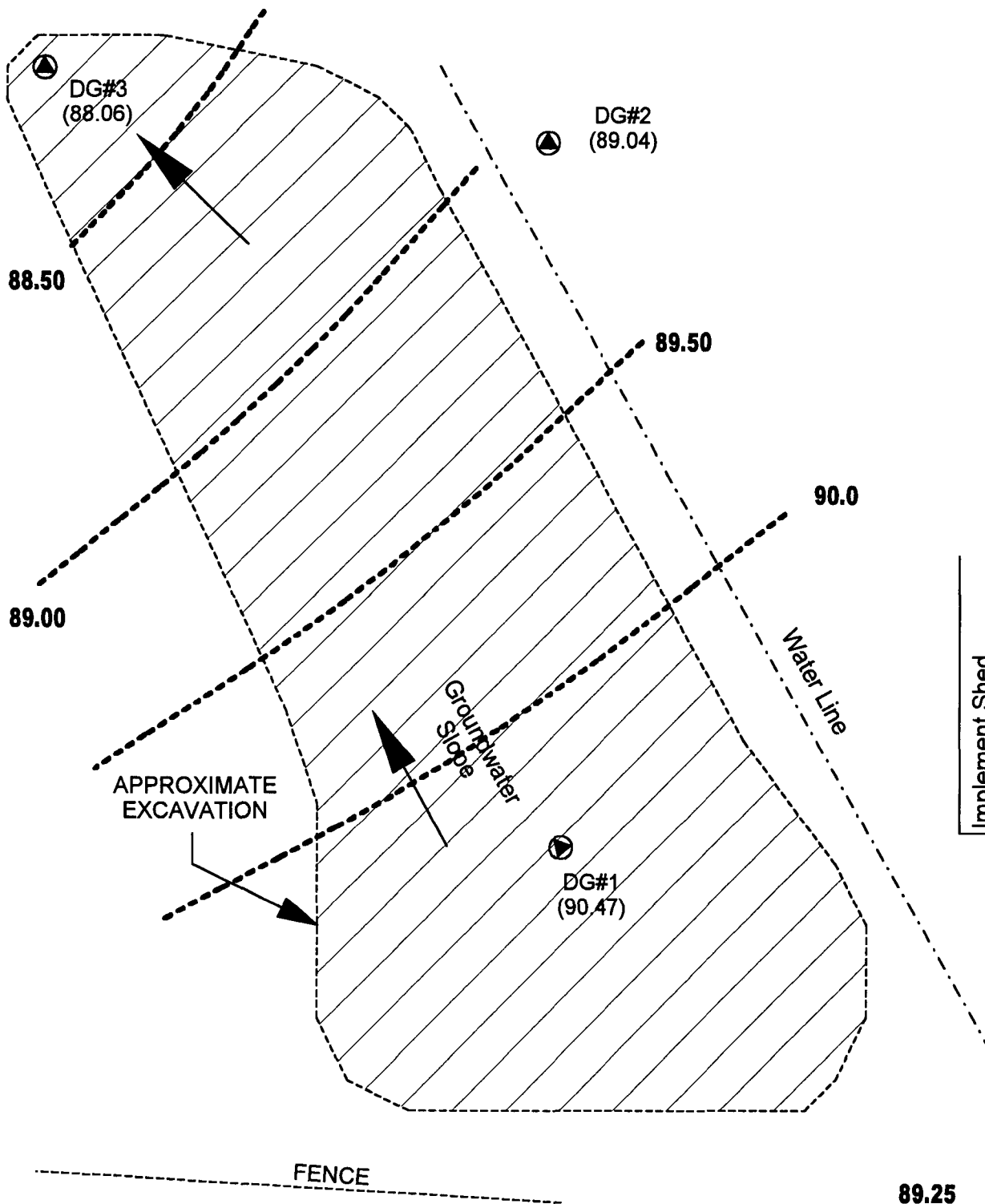
 ON SITE TECHNOLOGIES, LTD. P.O. BOX 2606, FARMINGTON, NM 87499 (505) 325-5667		Ground Water Potentiometric Map March 25, 1998	
CONOCO, INC. SALMON #1 SAN JUAN CO., NM	PROJECT: 1998 Ground Water Report		DRWN: July 25, 97
	PROJECT NO: 2-1377		DRWN BY: MKL
	FIGURE: 2		REVISED: Feb. 9, 1999



 ON SITE TECHNOLOGIES, LTD. P.O. BOX 2006, FARMINGTON, NM 87499 (505) 325-5667	
CONOCO, INC. SALMON #1 SAN JUAN CO., NM	Ground Water Potentiometric Map June 9, 1998
	DRWN: July 25, 97
	DRWN BY: MKL
	REVISED: Feb. 9, 1999
PROJECT: 1998 Ground Water Report	
PROJECT NO: 2-1377	
FIGURE: 2 (A)	

UG#1
(Removed)

UG#2 (Removed)



Implement Shed

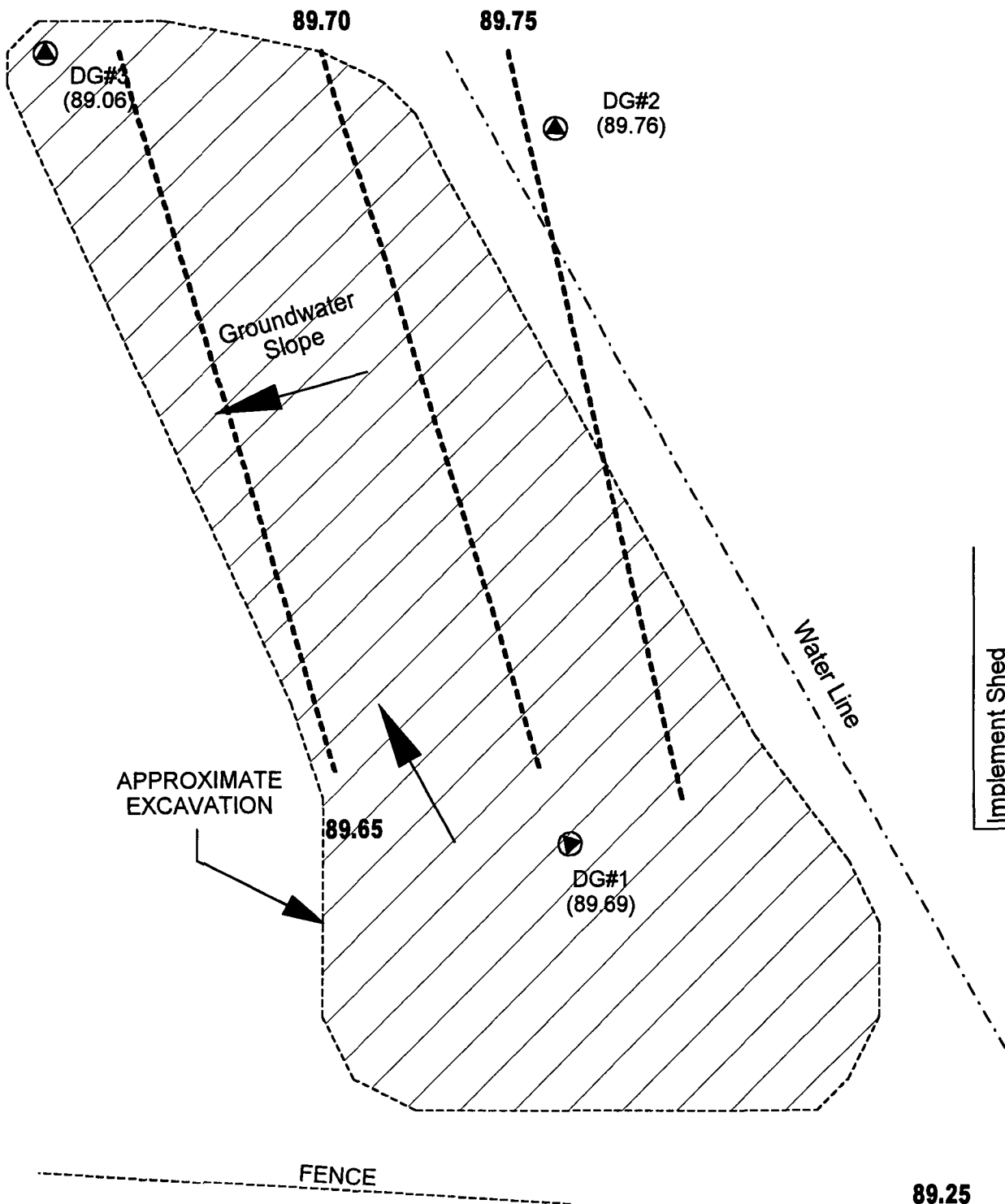
 ON SITE TECHNOLOGIES, LTD. P.O. BOX 2606, FARMINGTON, NM 87499 (505) 325-5667		Ground Water Potentiometric Map September 14, 1998	
CONOCO, INC. SALMON #1 SAN JUAN CO., NM	PROJECT: 1998 Ground Water Report	DRWN: July 25, 97	
	PROJECT NO: 2-1377	DRWN BY: MKL	
	FIGURE: 2 (B)	REVISED: Feb. 9, 1999	

UG#1
(Removed)

UG#2 (Removed)

APPROXIMATE SCALE
1" = 20'

Ground water surface contours (0.25 ft)



APPROXIMATE SCALE
1" = 20'

Ground water surface contours (0.25 ft)

UG#1
(Removed)

UG#2 (Removed)

 ON SITE TECHNOLOGIES, LTD. P.O. BOX 2606, FARMINGTON, NM 87499 (505) 325-5667	
CONOCO, INC. SALMON #1 SAN JUAN CO., NM	Ground Water Potentiometric Map December 30, 1998
	PROJECT: 1998 Ground Water Report
	PROJECT NO: 2-1377
	FIGURE: 2 (c)
DRWN: July 25, 97 DRWN BY: MKL REVISED: Feb. 9, 1999	

OFF: (505) 325-5667



LAB: (505) 325-1556

April 02, 1998

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

RE: 4-1377

Order No.: 9803058

Dear Larry Trujillo,

On Site Technologies, LTD. received 3 samples on 3/25/98 for the analyses presented in the following report.

The Samples were analyzed for the following tests:

BTEX (SW8020A)

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

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

Sincerely,

A handwritten signature in dark ink, appearing to read "D. Cox", is written over the name David Cox.

David Cox

OFF: (505) 325-5667



LAB: (505) 325-1556

Date: 02-Apr-98

CLIENT: Conoco, Inc.

Project: 4-1377

Lab Order: 9803058

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: 02-Apr-98

Client:	Conoco, Inc.	Client Sample Info:	Salmon #1
Work Order:	9803058	Client Sample ID:	DG #1
Lab ID:	9803058-01A	Matrix:	AQUEOUS
Project:	4-1377	Collection Date:	3/25/98 9:45:00 AM
		COC#:	6922

Parameter	Result	Limit	Qual	Units	DF	Date Analyzed
BTEX		SW8020A		Analyst: DC		
Benzene	9.7	0.5		µg/L	1	4/1/98
Toluene	4.7	0.5		µg/L	1	4/1/98
Ethylbenzene	4.3	0.5		µg/L	1	4/1/98
m,p-Xylene	12	1		µg/L	1	4/1/98
o-Xylene	0.5	0.5		µg/L	1	4/1/98
Surr: Fluorobenzene	86.2	70-130		%REC	1	4/1/98
Surr: 1,4-Difluorobenzene	88.2	70-130		%REC	1	4/1/98
Surr: 4-Bromochlorobenzene	88.5	70-130		%REC	1	4/1/98

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

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: 02-Apr-98

Client:	Conoco, Inc.	Client Sample Info:	Salmon #1
Work Order:	9803058	Client Sample ID:	DG #2
Lab ID:	9803058-02A	Matrix:	AQUEOUS
Project:	4-1377	Collection Date:	3/25/98 9:51:00 AM
		COC#:	6922

Parameter	Result	Limit	Qual	Units	DF	Date Analyzed
BTEX		SW8020A		Analyst: DC		
Benzene	330	5		µg/L	10	4/1/98
Toluene	5.5	0.5		µg/L	1	4/1/98
Ethylbenzene	4.3	0.5		µg/L	1	4/1/98
m,p-Xylene	5.4	1		µg/L	1	4/1/98
o-Xylene	ND	0.5		µg/L	1	4/1/98
Surr: Fluorobenzene	87.9	70-130		%REC	1	4/1/98
Surr: 1,4-Difluorobenzene	91.3	70-130		%REC	1	4/1/98
Surr: 4-Bromochlorobenzene	88.1	70-130		%REC	1	4/1/98

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

1 of 1

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TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 02-Apr-98

Client:	Conoco, Inc.	Client Sample Info:	Salmon #1
Work Order:	9803058	Client Sample ID:	DG #3
Lab ID:	9803058-03A	Matrix:	AQUEOUS
Project:	4-1377	Collection Date:	3/25/98 10:00:00 AM
		COC#:	6922

Parameter	Result	Limit	Qual	Units	DF	Date Analyzed
BTEX		SW8020A				Analyst: DC
Benzene	ND	0.5		µg/L	1	4/1/98
Toluene	ND	0.5		µg/L	1	4/1/98
Ethylbenzene	ND	0.5		µg/L	1	4/1/98
m,p-Xylene	ND	1		µg/L	1	4/1/98
o-Xylene	ND	0.5		µg/L	1	4/1/98
Surr: Fluorobenzene	89.0	70-130		%REC	1	4/1/98
Surr: 1,4-Difluorobenzene	90.1	70-130		%REC	1	4/1/98
Surr: 4-Bromochlorobenzene	91.2	70-130		%REC	1	4/1/98

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

On Site Technologies, LTD.

Date: 02-Apr-98

CLIENT: Conoco, Inc.

Work Order: 9803058

Project: 4-1377

QC SUMMARY REPORT

Method Blank

Sample ID: MB1	Batch ID: GC-1_980401	Test Code: SW8020A	Units: µg/L	Analysis Date: 4/1/98	Prep Date:						
Client ID:	9803058	Run ID: GC-1_980401A		SeqNo: 475							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	.0924	0.5									J
Ethylbenzene	ND	0.5									
m,p-Xylene	.1593	1									J
o-Xylene	.0733	0.5									J
Toluene	.1143	0.5									J

Qualifiers:

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

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

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 02-Apr-98

CLIENT: Conoco, Inc.

Work Order: 9803058

Project: 4-1377

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: 9803058-02AMS		Batch ID: GC-1_980401		Test Code: SW8020A		Units: µg/L		Analysis Date: 4/1/98		Prep Date:	
Client ID: DG #2		9803058		Run ID: GC-1_980401A				SeqNo: 476			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	741.1	5	400	334.2	101.7%	56	128				
Ethylbenzene	425.1	5	400	5.536	104.9%	78	107				
m,p-Xylene	814.1	10	800	8.207	100.7%	67	118				
o-Xylene	418.9	5	400	1.381	104.4%	78	107				
Toluene	421.3	5	400	8.606	103.2%	74	116				

Sample ID: 9803058-02AMSD		Batch ID: GC-1_980401		Test Code: SW8020A		Units: µg/L		Analysis Date: 4/1/98		Prep Date:	
Client ID: DG #2		9803058		Run ID: GC-1_980401A				SeqNo: 477			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	720.5	5	400	334.2	96.6%	56	128	741.1	2.8%	12	
Ethylbenzene	412.7	5	400	5.536	101.8%	78	107	425.1	3.0%	11	
m,p-Xylene	790.5	10	800	8.207	97.8%	67	118	814.1	2.9%	10	
o-Xylene	408.8	5	400	1.381	101.8%	78	107	418.9	2.5%	14	
Toluene	409.8	5	400	8.606	100.3%	74	116	421.3	2.8%	14	

Qualifiers:

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

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

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 02-Apr-98

CLIENT: Conoco, Inc.
Work Order: 9803058
Project: 4-1377

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: LCS WATER	Batch ID: GC-1_980401	Test Code: SW8020A	Units: µg/L	Analysis Date: 4/1/98	Prep Date:
Client ID: 9803058	Run ID: GC-1_980401A	PQL	SPK value	SPK Ref Val	SeqNo: 474
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Benzene	39.91	0.5	40	0.0924	99.6% 56 128
Ethylbenzene	40.23	0.5	40	0	100.6% 78 107
m,p-Xylene	77.53	1	80	0.1593	96.7% 67 118
o-Xylene	40.21	0.5	40	0.0733	100.3% 78 107
Toluene	39.87	0.5	40	0.1143	99.4% 74 116

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

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

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 02-Apr-98

CLIENT: Conoco, Inc.

Work Order: 9803058

Project: 4-1377

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV1 QC0529/30		Batch ID: GC-1_980401	Test Code: SW8020A	Units: µg/L	Analysis Date: 4/1/98		Prep Date:	
Client ID: 9803058		Run ID: GC-1_980401A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit
Analyte	Result							
Benzene	21.59		0.5	20	0	107.9%	85	115
Ethylbenzene	21.96		0.5	20	0	109.8%	85	115
m,p-Xylene	41.86		1	40	0	104.7%	85	115
o-Xylene	21.76		0.5	20	0	108.8%	85	115
Toluene	21.54		0.5	20	0	107.7%	85	115
1,4-Difluorobenzene	90.27		0	100	0	90.3%	70	130
4-Bromochlorobenzene	90.23		0	100	0	90.2%	70	130
Fluorobenzene	89		0	100	0	89.0%	70	130

Sample ID: CCV2 QC0529/30		Batch ID: GC-1_980401	Test Code: SW8020A	Units: µg/L	Analysis Date: 4/1/98		Prep Date:	
Client ID: 9803058		Run ID: GC-1_980401A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit
Analyte	Result							
Benzene	20.76		0.5	20	0	103.8%	85	115
Ethylbenzene	21.05		0.5	20	0	105.2%	85	115
m,p-Xylene	40.11		1	40	0	100.3%	85	115
o-Xylene	20.98		0.5	20	0	104.9%	85	115
Toluene	20.66		0.5	20	0	103.3%	85	115
1,4-Difluorobenzene	90.41		0	100	0	90.4%	70	130
4-Bromochlorobenzene	90.8		0	100	0	90.8%	70	130
Fluorobenzene	88.86		0	100	0	88.9%	70	130

Qualifiers:

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

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

B - Analyte detected in the associated Method Blank

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

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

[illegible]

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

TECHNOLOGIES, LTD.

6557 W. Maple • P. O. Box 2606 • Farmington NM 87499
LAB: (505) 325-5667 • FAX: (505) 325-6256

[illegible]

Distribution:	White – On Site	Yellow – LAB	Pink – Sampler	Goldenrod – Client
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Date: _____

TECHNOLOGIES, LTD.

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

[illegible]

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



LAB: (505) 325-1556

June 16, 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: 2-1377; Conoco

Order No.: 9806031

Dear Larry Trujillo,

On Site Technologies, LTD. received 2 samples on 6/10/98 for the analyses presented in the following report.

The Samples were analyzed for the following tests:
BTEX (SW8020A)

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

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

Sincerely,

David Cox

OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 16-Jun-98

CLIENT: On Site Technologies, Limited Partnership

Project: 2-1377; Conoco

Lab Order: 9806031

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: 16-Jun-98

Client:	On Site Technologies, Limited Partnership	Client Sample Info:	Salmon #1
Work Order:	9806031	Client Sample ID:	DG #2
Lab ID:	9806031-02A	Matrix:	AQUEOUS
Project:	2-1377; Conoco	Collection Date:	6/9/98 1:33:00 PM
		COC Record:	5137

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
BTEX		SW8020A				Analyst: DC
Benzene	160	0.5		µg/L	1	6/14/98
Toluene	0.8	0.5		µg/L	1	6/14/98
Ethylbenzene	2.4	0.5		µg/L	1	6/14/98
m,p-Xylene	ND	1		µg/L	1	6/14/98
o-Xylene	ND	0.5		µg/L	1	6/14/98

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

1 of 1

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 16-Jun-98

Client:	On Site Technologies, Limited Partnership	Client Sample Info:	Salmon #1
Work Order:	9806031	Client Sample ID:	DG #1
Lab ID:	9806031-01A	Matrix:	AQUEOUS
Project:	2-1377; Conoco	Collection Date:	6/9/98 1:20:00 PM
		COC Record:	5137

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
BTEX		SW8020A				Analyst: DC
Benzene	4.1	0.5		µg/L	1	6/14/98
Toluene	1.7	0.5		µg/L	1	6/14/98
Ethylbenzene	3	0.5		µg/L	1	6/14/98
m,p-Xylene	6.8	1		µg/L	1	6/14/98
o-Xylene	ND	0.5		µg/L	1	6/14/98

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

1 of 1

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

On Site Technologies, LTD.

Date: 16-Jun-98

CLIENT: On Site Technologies, Limited Partnership

Work Order: 9806031

Project: 2-1377; Conoco

QC SUMMARY REPORT

Method Blank

Sample ID: MB1	Batch ID: GC-1_980614	Test Code: SW8020A	Units: µg/L	Analysis Date: 6/14/98	Prep Date:
Client ID:	9806031	Run ID: GC-1_980614B		SeqNo: 2996	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Benzene	.0426	0.5			J
Ethylbenzene	.0628	0.5			J
m,p-Xylene	.1828	1			J
o-Xylene	.0816	0.5			J
Toluene	.1025	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: 9806031
Project: 2-1377; Conoco

Date: 16-Jun-98

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: 9806014-02AMS		Batch ID: GC-1_980614	Test Code: SW8020A	Units: µg/L	Analysis Date: 6/14/98		Prep Date:	
Client ID: 9806031		Run ID: GC-1_980614B	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit
Analyte		Result					RPD Ref Val	%RPD
Benzene		813	10	800	4.052	101.1%	128	128
Ethylbenzene		812.9	10	800	4.38	101.1%	107	107
m,p-Xylene		1577	20	1600	17.67	97.5%	118	118
o-Xylene		806.4	10	800	2.606	100.5%	107	107
Toluene		806.6	10	800	3.922	100.3%	116	116

Sample ID: 9806014-02AMSD		Batch ID: GC-1_980614	Test Code: SW8020A	Units: µg/L	Analysis Date: 6/14/98		Prep Date:	
Client ID: 9806031		Run ID: GC-1_980614B	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit
Analyte		Result					RPD Ref Val	%RPD
Benzene		788.5	10	800	4.052	98.1%	813	3.1%
Ethylbenzene		811.3	10	800	4.38	100.9%	812.9	0.2%
m,p-Xylene		1559	20	1600	17.67	96.3%	1577	1.2%
o-Xylene		791.3	10	800	2.606	98.6%	806.4	1.9%
Toluene		783.7	10	800	3.922	97.5%	806.6	2.9%

Qualifiers:

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

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

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 16-Jun-98

CLIENT: On Site Technologies, Limited Partnership
Work Order: 9806031
Project: 2-1377; Conoco

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: LCS	Batch ID: GC-1_980614	Test Code: SW8020A	Units: µg/L	Analysis Date: 6/14/98	Prep Date:
Client ID: 9806031	Run ID: GC-1_980614B	PQL	SPK value	SeqNo: 2995	
Analyte	Result	PQL	SPK value	SPK Ref Val	RPD Ref Val
Benzene	40.87	0.5	40	0.0426	128
Ethylbenzene	40.4	0.5	40	0.0628	107
m,p-Xylene	78.11	1	80	0.1828	118
o-Xylene	40.26	0.5	40	0.0816	107
Toluene	40.14	0.5	40	0.1025	116
		%REC	LowLimit	HighLimit	%RPD RPDLimit Qual
		102.1%	56	128	
		100.8%	78	107	
		97.4%	67	118	
		100.5%	78	107	
		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
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: 9806031
Project: 2-1377; Conoco

Date: 16-Jun-98

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV1 QC0529/30		Batch ID: GC-1_980614		Test Code: SW8020A		Units: µg/L		Analysis Date: 6/14/98		Prep Date:	
Client ID: 9806031		Run ID: GC-1_980614B		PQL		SPK value		SeqNo: 2992			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	21.32	0.5	20	0	106.6%	85	115				
Ethylbenzene	21.51	0.5	20	0	107.6%	85	115				
m,p-Xylene	41.34	1	40	0	103.3%	85	115				
o-Xylene	21.34	0.5	20	0	106.7%	85	115				
Toluene	21.1	0.5	20	0	105.5%	85	115				
1,4-Difluorobenzene	92.58	0	100	0	92.6%	70	130				
4-Bromochlorobenzene	80.52	0	100	0	80.5%	70	130				
Fluorobenzene	93.34	0	100	0	93.3%	70	130				

Sample ID: CCV2 QC0529/30		Batch ID: GC-1_980614		Test Code: SW8020A		Units: µg/L		Analysis Date: 6/14/98		Prep Date:	
Client ID: 9806031		Run ID: GC-1_980614B		PQL		SPK value		SeqNo: 2993			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.83	0.5	20	0	104.1%	85	115				
Ethylbenzene	22.1	0.5	20	0	110.5%	85	115				
m,p-Xylene	43.85	1	40	0	109.6%	85	115				
o-Xylene	21.84	0.5	20	0	109.2%	85	115				
Toluene	21.56	0.5	20	0	107.8%	85	115				
1,4-Difluorobenzene	92.73	0	100	0	92.7%	70	130				
4-Bromochlorobenzene	79.29	0	100	0	79.3%	70	130				
Fluorobenzene	92.28	0	100	0	92.3%	70	130				

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

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

B - Analyte detected in the associated Method Blank

CLIENT: On Site Technologies, Limited Partnership

Work Order: 9806031

Project: 2-1377; Conoco

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV3 QC0529/30		Batch ID: GC-1_980614		Test Code: SW8020A		Units: µg/L		Analysis Date: 6/14/98			Prep Date:	
Client ID:		9806031		Run ID:		GC-1_980614B		SeqNo: 2994				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Benzene	42.1	0.5	40	0	105.3%	85	115					
Ethylbenzene	42.85	0.5	40	0	107.1%	85	115					
m,p-Xylene	81.5	1	80	0	101.9%	85	115					
o-Xylene	41.48	0.5	40	0	103.7%	85	115					
Toluene	41.48	0.5	40	0	103.7%	85	115					
1,4-Difluorobenzene	92.78	0	100	0	92.8%	70	130					
4-Bromochlorobenzene	80.77	0	100	0	80.8%	70	130					
Fluorobenzene	92.47	0	100	0	92.5%	70	130					

Qualifiers:

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

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

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 16-Jun-98

CLIENT: On Site Technologies, Limited Partnership
Work Order: 9806031
Project: 2-1377; Conoco
Test No: SW8020A

QC SUMMARY REPORT SURROGATE RECOVERIES

BTEX

Sample ID	14FBZ	4BCBZ	FLBZ
9806014-01A	92.3	79.7	93.4
9806014-02AMS	92.4	75.1	92.7
9806014-02AMSD	92.8	80.4	92.5
9806019-01A	93.8	78.8	93.3
9806019-02A	93	77.9	93.3
9806030-02A	93.6	79.3	93
9806030-03A	93.8	85.6	93.1
9806031-01A	90.9	85.3	91.5
9806031-02A	90.1	85.3	90.6
9806032-01A	93.1	86.7	93.6
9806033-01A	93.4	84.7	93.2
9806034-01A	90.7	83.9	91.5
CCV1 QC0529/30	92.6	80.5	93.3
CCV2 QC0529/30	92.7	79.3	92.3
CCV3 QC0529/30	92.8	80.8	92.5
LCS	92.4	79.8	92.9
MB1	93	80.9	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

TECHNOLOGIES, LTD.

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

[illegible]

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

Purchase Order No.:		Job No.		2-1277	
Name		Larry Tregill, Jr.		Title	
Company		Cubana		Company	
Address		Cubana		Mailing Address	
City, State, Zip		Cubana		City, State, Zip	
Telephone No.		Cubana		Telephone No.	
Telex No.		Cubana		Telex No.	
FAX No.		Cubana		FAX No.	
E-Mail Address		Cubana		E-Mail Address	
Internet Address		Cubana		Internet Address	
World Wide Web		Cubana		World Wide Web	
Other		Cubana		Other	
Comments		Cubana		Comments	
Special Instructions		Cubana		Special Instructions	
Remarks		Cubana		Remarks	
Lab ID		Cubana		Lab ID	
Analysis Requested		Cubana		Analysis Requested	
Number of Containers		Cubana		Number of Containers	
Sample Identification		Cubana		Sample Identification	
Sample		Cubana		Sample	
DATE		Cubana		DATE	
TIME		Cubana		TIME	
MATRIX		Cubana		MATRIX	
PRES.		Cubana		PRES.	
Relinquished by:		Cubana		Relinquished by:	
Relinquished by:		Cubana		Relinquished by:	
Relinquished by:		Cubana		Relinquished by:	
Method of Shipment:		Cubana		Method of Shipment:	
Authorized by:		Cubana		Authorized by:	
Date		Cubana		Date	
(Client Signature Must Accompany Request)		Cubana		(Client Signature Must Accompany Request)	

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

TECHNOLOGIES, LTD.

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

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

OFF: (505) 325-5667



LAB: (505) 325-1556

September 25, 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: 4-1377; Conoco

Order No.: 9809031

Dear Larry Trujillo,

On Site Technologies, LTD. received 3 samples on 9/14/98 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", written over a horizontal line.

David Cox

OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 25-Sep-98

CLIENT: On Site Technologies, Limited Partnership

Project: 4-1377; Conoco

Lab Order: 9809031

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: 25-Sep-98

Client:	On Site Technologies, Limited Partnership	Client Sample Info:	Salmon #1
Work Order:	9809031	Client Sample ID:	DG #3
Lab ID:	9809031-03A	Matrix:	AQUEOUS
Project:	4-1377; Conoco	Collection Date:	9/14/98 12:59:00 PM
		COC Record:	5554

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

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

1 of 1

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 25-Sep-98

Client:	On Site Technologies, Limited Partnership	Client Sample Info:	Salmon #1
Work Order:	9809031	Client Sample ID:	DG #1
Lab ID:	9809031-01A	Matrix:	AQUEOUS
Project:	4-1377; Conoco	Collection Date:	9/14/98 12:21:00 PM
		COC Record:	5554

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
BTEX		SW8020A				Analyst: DC
Benzene	3.5	1		µg/L	1	9/21/98
Toluene	4.2	1		µg/L	1	9/21/98
Ethylbenzene	2.3	1		µg/L	1	9/21/98
m,p-Xylene	3.9	2		µg/L	1	9/21/98
o-Xylene	1	1		µg/L	1	9/21/98

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

P.O. BOX 2606 • FARMINGTON, NM 87499

-- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT --

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 25-Sep-98

Client:	On Site Technologies, Limited Partnership	Client Sample Info:	Salmon #1
Work Order:	9809031	Client Sample ID:	DG #2
Lab ID:	9809031-02A	Matrix:	AQUEOUS
Project:	4-1377; Conoco	Collection Date:	9/14/98 12:40:00 PM
		COC Record:	5554

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
BTEX		SW8020A				Analyst: DC
Methyl tert-Butyl Ether	ND	5		µg/L	5	9/21/98
Benzene	ND	5		µg/L	5	9/21/98
Toluene	ND	5		µg/L	5	9/21/98
Ethylbenzene	ND	5		µg/L	5	9/21/98
m,p-Xylene	ND	10		µg/L	5	9/21/98
o-Xylene	ND	5		µg/L	5	9/21/98

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

On Site Technologies, LTD.

Date: 25-Sep-98

CLIENT: On Site Technologies, Limited Partnership

Work Order: 9809031

Project: 4-1377; Conoco

QC SUMMARY REPORT

Method Blank

Sample ID: MB1	Batch ID: GC-1_980921	Test Code: SW8020A	Units: µg/L	Analysis Date 9/21/98	Prep Date:
Client ID: 9809031	Run ID: GC-1_980921A			SeqNo: 6730	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Benzene	.0421	1			J
Ethylbenzene	.0623	1			J
m,p-Xylene	.1705	2			J
o-Xylene	.1247	1			J
Toluene	.1509	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: 9809031
Project: 4-1377; Conoco

Date: 25-Sep-98

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: 9809031-02AMS		Batch ID: GC-1_980921	Test Code: SW8020A	Units: µg/L	Analysis Date 9/21/98		Prep Date:					
Client ID: DG #2	9809031	Run ID: GC-1_980921A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte	Result											
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		Analysis Date 9/21/98		Prep Date:	
Client ID: DG #2		9809031		Run ID: GC-1_980921A				SeqNo: 6732			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	184.1	5	200	0.4255	91.8%	56	128	191.1	3.7%	12	
Ethylbenzene	206.4	5	200	0.4985	103.0%	78	107	211.5	2.4%	11	
m,p-Xylene	404.8	10	400	2.556	100.6%	67	118	414.5	2.4%	10	
o-Xylene	196.7	5	200	0.3315	98.2%	78	107	201.8	2.6%	14	
Toluene	199.3	5	200	1.194	99.1%	74	116	204.9	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.

Date: 25-Sep-98

CLIENT: On Site Technologies, Limited Partnership
Work Order: 9809031
Project: 4-1377; Conoco

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: **9809031** Run ID: **GC-1_980921A** SeqNo: **6729**

Analyte	Result	PQL	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				
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				

s @ 24/25 MB
 N12
 9/28/98

Qualifiers:

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

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

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 25-Sep-98

CLIENT: On Site Technologies, Limited Partnership
Work Order: 9809031
Project: 4-1377; Conoco

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV1 QC0606/07		Batch ID: GC-1_980921	Test Code: SW8020A	Units: µg/L	Analysis Date 9/21/98		Prep Date:				
Client ID:		9809031	Run ID: GC-1_980921A		SeqNo: 6726						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
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	Analysis Date 9/21/98		Prep Date:				
Client ID:		9809031	Run ID: GC-1_980921A		SeqNo: 6727						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
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				S
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

CLIENT: On Site Technologies, Limited Partnership

Work Order: 9809031

Project: 4-1377; 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:		9809031	Run ID:	GC-1_980921A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte	Result													
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				S
Fluorobenzene	84.05			0		100	0	84.0%	70	130				

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

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

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 25-Sep-98

CLIENT: On Site Technologies, Limited Partnership

Work Order: 9809031

Project: 4-1377; 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
9809027-05A	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
CCV1 QC0606/07	88.9	79.5	85.4
CCV2 QC0606/07	88.7	69.6 *	85.4
CCV3 QC0606/07	87.8	63.4 *	84
LCS WATER	89.3	81.8	85.5
MB1	88.3	74.6	84.8

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

* Surrogate recovery outside acceptance limits

CHAIN OF CUSTODY RECORD

5554

ON SITE

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

Date: 9/14/98 Page 1 of 1

Purchase Order No.:		Job No. 4-1377		Name Larry Treggill		Title	
SEND INVOICE TO		Company Conoco		Company Conoco		Company	
Address		Dept.		Mailing Address		Mailing Address	
City, State, Zip				City, State, Zip		City, State, Zip	
Telephone No.				Telephone No.		Telephone No.	
Telefax No.				Telefax No.		Telefax No.	
Sampling Location: Salina #1				ANALYSIS REQUESTED			
Sampler:				Containers			
SAMPLE IDENTIFICATION				LAB ID			
DATE				DATE			
TIME				TIME			
MATRIX				MATRIX			
PRES.				PRES.			
DG #1				HCL			
DG #2				HCL			
DG #3				HCL			
Date/Time 9/14/98 12:21				Date/Time 9/14/98 12:21			
Date/Time 9/14/98 12:40				Date/Time 9/14/98 12:40			
Date/Time 9/14/98 12:59				Date/Time 9/14/98 12:59			
Relinquished by: Larry Treggill				Received by:			
Relinquished by:				Received by:			
Relinquished by:				Received by:			
Method of Shipment:				Rush			
Authorized by:				Date			
(Client Signature Must Accompany Request)				Date			
Distribution: White - On Site Yellow - LAB Pink - Sampler Goldenrod - Client				Distribution: White - On Site Yellow - LAB Pink - Sampler Goldenrod - Client			

TECHNOLOGIES, LTD.

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

Purchase Order No.:		Job No.		Name		Title	
SEND INVOICE TO		Company		Company			
Address		Dept.		Mailing Address			
City, State, Zip				City, State, Zip			
Sampling Location:		City, State, Zip		Telephone No.		Telefax No.	
Sampler:		City, State, Zip		Telephone No.		Telefax No.	
SAMPLE IDENTIFICATION		DATE		SAMPLE DATE		PRES.	
LAB ID		LAB ID		LAB ID		LAB ID	
ANALYSIS REQUESTED		ANALYSIS REQUESTED		ANALYSIS REQUESTED		ANALYSIS REQUESTED	
Number of Containers		Number of Containers		Number of Containers		Number of Containers	
REPORT RESULTS TO		REPORT RESULTS TO		REPORT RESULTS TO		REPORT RESULTS TO	
Name		Name		Name		Name	
Company		Company		Company		Company	
Mailing Address		Mailing Address		Mailing Address		Mailing Address	
City, State, Zip		City, State, Zip		City, State, Zip		City, State, Zip	
Telephone No.		Telephone No.		Telephone No.		Telephone No.	
Telefax No.		Telefax No.		Telefax No.		Telefax No.	
Received by:		Received by:		Received by:		Received by:	
Date/Time		Date/Time		Date/Time		Date/Time	
Relinquished by:		Relinquished by:		Relinquished by:		Relinquished by:	
Date/Time		Date/Time		Date/Time		Date/Time	
Relinquished by:		Relinquished by:		Relinquished by:		Relinquished by:	
Date/Time		Date/Time		Date/Time		Date/Time	
Method of Shipment:		Method of Shipment:		Method of Shipment:		Method of Shipment:	
Authorized by:		Authorized by:		Authorized by:		Authorized by:	
Date		Date		Date		Date	
(Client Signature Must Accompany Request)		(Client Signature Must Accompany Request)		(Client Signature Must Accompany Request)		(Client Signature Must Accompany Request)	

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

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: 2-1377; Conoco: Salmon 1

Order No.: 9812057

Dear Larry Trujillo,

On Site Technologies, LTD. received 1 sample on 12/30/98 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", is written over a horizontal line.

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: 2-1377; Conoco: Salmon 1

Lab Order: 9812057

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: 07-Jan-99

Client:	On Site Technologies, Limited Partnership	Client Sample Info:	Salmon #1
Work Order:	9812057	Client Sample ID:	DG #2
Lab ID:	9812057-01A	Matrix:	AQUEOUS
Project:	2-1377; Conoco: Salmon 1	Collection Date:	12/30/98 9:15:00 AM
		COC Record:	5646

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
BTEX		SW8021B				Analyst: DC
Benzene	23	0.5		µg/L	1	1/4/99
Toluene	ND	0.5		µg/L	1	1/4/99
Ethylbenzene	2.8	0.5		µg/L	1	1/4/99
m,p-Xylene	ND	1		µg/L	1	1/4/99
o-Xylene	0.9	0.5		µg/L	1	1/4/99

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

1 of 1

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

On Site Technologies, LTD.

Date: 07-Jan-99

CLIENT: On Site Technologies, Limited Partnership

Work Order: 9812057

Project: 2-1377; Conoco: Salmon 1

QC SUMMARY REPORT

Method Blank

Sample ID: MB1	Batch ID: GC-1_990104	Test Code: SW8021B	Units: µg/L	Analysis Date 1/4/99	Prep Date:
Client ID:	9812057	Run ID: GC-1_990104A		SeqNo: 9849	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val RPDLimit Qual
Benzene	.037	0.5			J
Ethylbenzene	ND	0.5			
m,p-Xylene	ND	1			
Methyl tert-Butyl Ether	.0537	0.5			J
o-Xylene	ND	0.5			
Toluene	.0536	0.5			J

Qualifiers:

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

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

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 07-Jan-99

CLIENT: On Site Technologies, Limited Partnership

Work Order: 9812057

Project: 2-1377; Conoco: Salmon 1

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: 9812061-01AMS		Batch ID: GC-1_990104		Test Code: SW8021B		Units: µg/L		Analysis Date 1/4/99		Prep Date:	
Client ID:		9812057		Run ID:		GC-1_990104A		SeqNo: 9850			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	5279	50	4000	1200	102.0%	73	115				
Ethylbenzene	4892	50	4000	760	103.3%	74	117				
m,p-Xylene	9862	100	8000	1800	100.8%	76	112				
Methyl tert-Butyl Ether	4304	50	4000	440	96.6%	62	122				
o-Xylene	4501	50	4000	450	101.3%	83	112				
Toluene	4932	50	4000	860	101.8%	71	120				

Sample ID: 9812061-01AMSD		Batch ID: GC-1_990104		Test Code: SW8021B		Units: µg/L		Analysis Date 1/4/99		Prep Date:	
Client ID:		9812057		Run ID: GC-1_990104A				SeqNo: 9851			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	5207	50	4000	1200	100.2%	73	115	5279	1.4%	12	
Ethylbenzene	4737	50	4000	760	99.4%	74	117	4892	3.2%	11	
m,p-Xylene	9561	100	8000	1800	97.0%	76	112	9862	3.1%	10	
Methyl tert-Butyl Ether	4353	50	4000	440	97.8%	62	122	4304	1.1%	15	
o-Xylene	4602	50	4000	450	103.8%	83	112	4501	2.2%	14	
Toluene	4872	50	4000	860	100.3%	71	120	4932	1.2%	14	

Qualifiers:
ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 07-Jan-99

CLIENT: On Site Technologies, Limited Partnership

Work Order: 9812057

Project: 2-1377; Conoco: Salmon 1

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: LCS WATER		Batch ID: GC-1_990104	Test Code: SW8021B	Units: µg/L	Analysis Date 1/4/99	Prep Date:					
Client ID:	9812057	Run ID:	GC-1_990104A		SeqNo: 9848						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	41.57	0.5	40	0.04	103.8%	84	110				
Ethylbenzene	41.84	0.5	40	0	104.6%	86	113				
m,p-Xylene	81.93	1	80	0	102.4%	81	114				
Methyl tert-Butyl Ether	40.62	0.5	40	0.05	101.4%	69	129				
o-Xylene	41.28	0.5	40	0	103.2%	86	112				
Toluene	41.1	0.5	40	0.05	102.6%	85	111				

Qualifiers:

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

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

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 07-Jan-99

CLIENT: On Site Technologies, Limited Partnership
 Work Order: 9812057
 Project: 2-1377; Conoco: Salmon 1

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV1 QC0606/07		Batch ID: GC-1_990104		Test Code: SW8021B		Units: µg/L		Analysis Date 1/4/99		Prep Date:	
Client ID:		9812057	Run ID:	GC-1_990104A				SeqNo:	9844		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	21.75	0.5	20	0	108.7%	85	115				
Ethylbenzene	21.45	0.5	20	0	107.3%	85	115				
m,p-Xylene	41.26	1	40	0	103.1%	85	115				
Methyl tert-Butyl Ether	21.22	0.5	20	0	106.1%	85	115				
o-Xylene	21.02	0.5	20	0	105.1%	85	115				
Toluene	20.99	0.5	20	0	105.0%	85	115				
1,4-Difluorobenzene	96.38	0	100	0	96.4%	70	130				
4-Bromochlorobenzene	97.36	0	100	0	97.4%	70	130				
Fluorobenzene	95	0	100	0	95.0%	70	130				

Sample ID: CCV2 QC0606/07		Batch ID: GC-1_990104	Test Code: SW8021B	Units: µg/L	Analysis Date 1/4/99		Prep Date:				
Client ID:		9812057	Run ID: GC-1_990104A		SeqNo: 9845						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	21.33	0.5	20	0	106.6%	85	115				
Ethylbenzene	20.49	0.5	20	0	102.5%	85	115				
m,p-Xylene	39.28	1	40	0	98.2%	85	115				
Methyl tert-Butyl Ether	20.62	0.5	20	0	103.1%	85	115				
o-Xylene	20.2	0.5	20	0	101.0%	85	115				
Toluene	20.32	0.5	20	0	101.6%	85	115				
1,4-Difluorobenzene	97.07	0	100	0	97.1%	70	130				
4-Bromochlorobenzene	97.33	0	100	0	97.3%	70	130				
Fluorobenzene	95.67	0	100	0	95.7%	70	130				

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

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

B - Analyte detected in the associated Method Blank

CLIENT: On Site Technologies, Limited Partnership

Work Order: 9812057

Project: 2-1377; Conoco: Salmon 1

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV3 QC0606/07		Batch ID: GC-1_990104		Test Code: SW8021B		Units: µg/L		Analysis Date 1/4/99		Prep Date:	
Client ID:		9812057		Run ID: GC-1_990104A				SeqNo: 9846			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	21.2	0.5	20	0	106.0%	85	115				
Ethylbenzene	21.34	0.5	20	0	106.7%	85	115				
m,p-Xylene	41.1	1	40	0	102.8%	85	115				
Methyl tert-Butyl Ether	18.04	0.5	20	0	90.2%	85	115				
o-Xylene	21.05	0.5	20	0	105.3%	85	115				
Toluene	20.82	0.5	20	0	104.1%	85	115				
1,4-Difluorobenzene	96.52	0	100	0	96.5%	70	130				
4-Bromochlorobenzene	97.31	0	100	0	97.3%	70	130				
Fluorobenzene	94.51	0	100	0	94.5%	70	130				

Sample ID: CCV4 QC0606/07		Batch ID: GC-1_990104		Test Code: SW8021B		Units: µg/L		Analysis Date 1/4/99		Prep Date:	
Client ID:		9812057		Run ID:		GC-1_990104A		SeqNo:		9847	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.69	0.5	20	0	103.4%	85	115				
Ethylbenzene	20.74	0.5	20	0	103.7%	85	115				
m,p-Xylene	39.99	1	40	0	100.0%	85	115				
Methyl tert-Butyl Ether	20.21	0.5	20	0	101.1%	85	115				
o-Xylene	21.95	0.5	20	0	109.8%	85	115				
Toluene	20.4	0.5	20	0	102.0%	85	115				
1,4-Difluorobenzene	96.04	0	100	0	96.0%	70	130				
4-Bromochlorobenzene	97.98	0	100	0	98.0%	70	130				
Fluorobenzene	94.43	0	100	0	94.4%	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

On Site Technologies, LTD.

Date: 07-Jan-99

CLIENT: On Site Technologies, Limited Partnership

Work Order: 9812057

Project: 2-1377; Conoco: Salmon 1

Test No: SW8021B

**QC SUMMARY REPORT
SURROGATE RECOVERIES****BTEX**

Sample ID	14FBZ	4BCBZ	FLBZ
9812055-04A	96.2	96.7	94.8
9812056-01A	95.2	98.2	94.4
9812056-08A	95.4	95.4	94.5
9812057-01A	93.3	94.7	92.7
9812060-05A	96.1	98.2	94.8
9812060-06A	98	101	96.6
9812061-01A	102	99.5	98.8
9812061-01AMS	95.9	97.6	94.7
9812061-01AMSD	97	97.3	96
9812061-02A	95.1	96	93.8
9812061-03A	96.3	98	95.4
9812061-04A	96.7	98.3	94.8
CCV1 QC0606/07	96.4	97.4	95
CCV2 QC0606/07	97.1	97.3	95.7
CCV3 QC0606/07	96.5	97.3	94.5
CCV4 QC0606/07	96	98	94.4
LCS WATER	96.2	98.9	94.7
MB1	96.6	95.6	94.9

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

* Surrogate recovery outside acceptance limits

9705

ON SITE

TECHNOLOGIES, LTD.

657 W. Maple • P. O. Box 2606 • Farmington NM 87499
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Distribution:	White – On Site	Yellow – LAB	Pink – Sampler	Goldenrod – Client
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