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97

REPORTS

DATE:

FEB. 1999

ON SITE
TECHNOLOGIES, LTD.

February 4, 1999

Conoco, Inc., Mid-Continent Region
Attn: Ms. Shirley Ebert, Field SHEAR Specialist
3315 Bloomfield Hwy.
Farmington, N.M. 87401

RECEIVED

FEB 19 1999

ENVIRONMENTAL BUREAU
OIL CONSERVATION DIVISION

RE: 1998 Annual Ground Water Report
Conoco Location: Shephard & Kelsey #1
Unit L, Sec. 29, 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 covers 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* (here after known as the monitoring plan), submitted to the New Mexico Oil Conservation Division on October 15, 1998.

Summary Of 1998 Activities:

Groundwater monitoring was conducted during the months of March, June, and September of 1998.

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

On Site Technologies, Ltd., March 21, 1998, letter to Mr. C. John Coy, SHEAR Specialist, Conoco, Inc., Midland Division, regarding: *Monitoring Well Installation & Status of Sampling, Conoco Location, Shephard & Kelsey #1, Unit L, Sec. 29, T29N, R11W, NMPM, San Juan Co., NM.*

On Site Technologies, Ltd., February 1, 1998, letter to Ms. Shirley Ebert, SHEAR Specialist, Conoco, Inc., Midland Division, regarding: *1997 Annual Ground Water Report, Conoco Location, Shephard & Kelsey #1, Unit L, Sec. 29, T29N, R11W, NMPM, San Juan Co., NM.*

SAMPLING:

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

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

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.

PO Box 2606
Farmington, NM

505-325-5667

FAX: 505-327-1496

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 Shephard & Kelsey #1 well location:

1. BTEX contamination appears to be below the New Mexico Water Quality Control Commission (NMWQCC) standards.
2. No or limited down gradient movement of BTEX contamination has occurred.
3. NMOCD's requirement to have four consecutive quarters with BTEX contamination levels below NMWQCC standards have been met.
4. In accordance with the monitoring plan, groundwater monitoring of this location should be considered completed.
5. Groundwater monitoring well should be plugged and abandoned in accordance with appropriate regulation

Limitations and Closure:

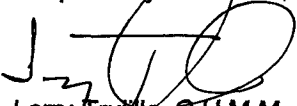
This annual groundwater report documents the results of ground water monitoring for the referenced Conoco well location during the calendar year 1998. This report follows the Comprehensive Ground Water Remediation and Long-Term Monitoring Plan for Conoco Locations in the San Juan Basin, New Mexico, dated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

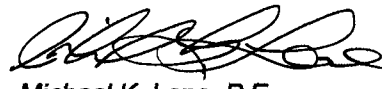
This document has been prepared by On Site Technologies for the exclusive use of Conoco, Inc., as it pertains to the referenced well location operated by Conoco.

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

Reviewed by:


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 (not Available)
Laboratory Results, QA/QC, Chain of Custody

Conoco, Inc. Shephard & Kelsey 1
On Site Technologies, Ltd.

February 4, 1999
Project 2-1362

Acknowledgment:
CONOCO, Inc.

Shirley Ebert SEAL Specialist
(Name/Title)

2/17/99
(Date)

LET/let 21362-98.doc

On Site Technologies, Ltd.

Table 1

Groundwater Level Summary
Shephard & Kelsey #1
Unit L, Sec. 29, 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) (BTDC)*	Relative Groundwater Elevation (ft)
MW#1	100.0	5.42		4.0	06/12/96	2.54	97.46
					09/16/97	NM	
					12/02/97	2.31	97.69
					3/13/98	2.19	97.81
					6/9/98	2.12	97.81
					9/14/98	3.28	97.88
BGS - approximate measurements taken as Below Ground Surface							
BTDC - Below Top of Casing							
NM - Not Measured							

On Site Technologies

Table 2

BTEX Analytical Summary
Shephard & Kelsey #1

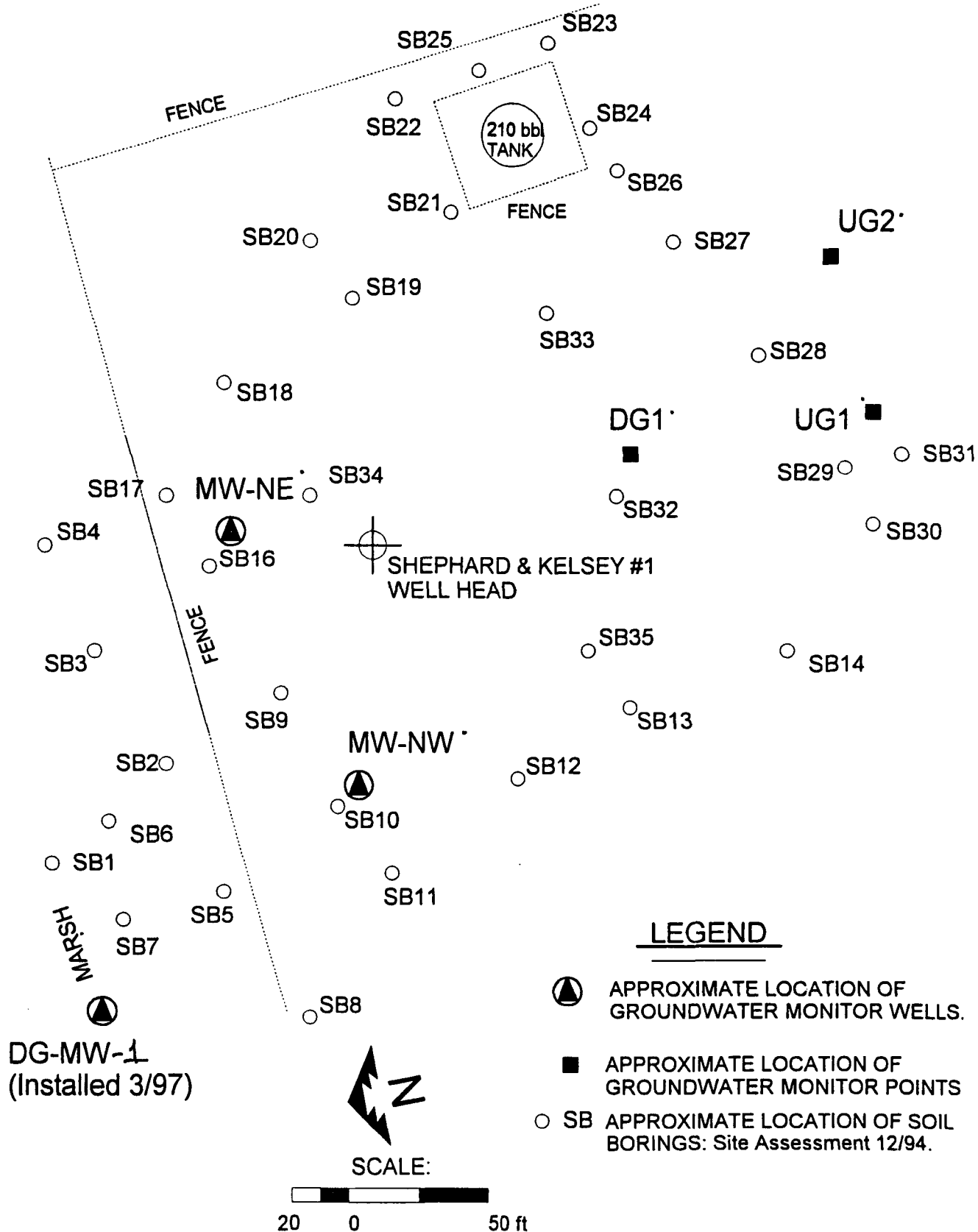
Unit L, Sec. 29, T29N, R11W

Sample Date	Sample ID#	Monitor Well	Remarks	BTEX per EPA 8020 (ppb)				
				Benzene	Toluene	Ethylbenzene	Total Xylene	Total BTEX
07/18/97	0396G01420	DG#1	IML	10.5	36.3	280.0	1077.6	1405.4
07/18/96	0369G01419	MW#1	IML	191.0	BDL	77.9	100.0	368.9
03/20/97	14002	MW#1	On Site Lab.	< 0.2	< 0.2	< 0.2	0.2	0.2
06/12/97	14941	MW#1	On Site Lab.	BDL	BDL	BDL	0.2	0.2
09/16/97	*		NOT SAMPLED					
12/05/97	17002	MW#1	On Site Lab.	BDL	BDL	0.2	0.2	0.4
3/13/98	9803055-01A	MW#1	On Site Lab.	BDL	BDL	BDL	BDL	BDL
6/9/98	9806032-1A	MW#1	On Site Lab.	BDL	BDL	BDL	BDL	BDL
9/14/98	9809030-01A	MW#1	On Site Lab.	BDL	BDL	BDL	BDL	BDL
WQCC	ACTION	LEVELS		10.0	750.0	750.0	620.0	

* Well not sampled 9/16/97 due to area around well flooded.

BDL Below Detection Limits

CONOCO INC. SHEPHARD & KELSEY #1 SAN JUAN BASIN, NM		SITE SKETCH	 ON SITE TECHNOLOGIES, LTD. P.O. BOX 2606, FARMINGTON, NM 87499 (505) 325-5667	
PROJECT: 1997 Ground Water Report				DRWN: DEC 20, 1994
PROJECT NO: 4-1429				DRWN BY: MKL
SHEET: 1	FILE: 41140SK1			REVISED: Feb. 10, 98



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: 2-1362; Conoco

Order No.: 9809030

Dear Larry Trujillo,

On Site Technologies, LTD. received 1 sample 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 dark 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: 2-1362; Conoco

Lab Order: 9809030

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:	S&K #1
Work Order:	9809030	Client Sample ID:	MW-1
Lab ID:	9809030-01A	Matrix:	AQUEOUS
Project:	2-1362; Conoco	Collection Date:	9/14/98 11:10:00 AM
		COC Record:	5553

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

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: 9809030

Project: 2-1362; 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:	9809030	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.

Date: 25-Sep-98

CLIENT: On Site Technologies, Limited Partnership

Work Order: 9809030

Project: 2-1362; Conoco

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: 9809030		Run ID: GC-1_980921A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit
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: 9809031-02AMS		Batch ID: GC-1_980921	Test Code: SW8020A	Units: µg/L	Analysis Date 9/21/98		Prep Date:	
Client ID: 9809030		Run ID: GC-1_980921A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit
Analyte	Result							
Benzene	184.1		5	200	0.4255	91.8%	56	128
Ethylbenzene	206.4		5	200	0.4985	103.0%	78	107
m,p-Xylene	404.8		10	400	2.556	100.6%	67	118
o-Xylene	196.7		5	200	0.3315	98.2%	78	107
Toluene	199.3		5	200	1.194	99.1%	74	116

Qualifiers:

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

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

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 25-Sep-98

CLIENT: On Site Technologies, Limited Partnership
Work Order: 9809030
Project: 2-1362; 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:	9809030	Run ID: GC-1_980921A		SeqNo: 6729						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
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			

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: 9809030
Project: 2-1362; 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:		9809030		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:		9809030		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: 9809030

Project: 2-1362, 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:		9809030		Run ID: GC-1_980921A				SeqNo: 6728			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Limit	RPD Ref Val	%RPD	RPDLimit Qual
Benzene	37.58	1	40	0	93.9%	85	115				
Ethylbenzene	41.94	1	40	0	104.8%	85	115				
m,p-Xylene	82.28	2	80	0	102.9%	85	115				
o-Xylene	40.08	1	40	0	100.2%	85	115				
Toluene	40.64	1	40	0	101.6%	85	115				
1,4-Difluorobenzene	87.81	0	100	0	87.8%	70	130				
4-Bromochlorobenzene	63.38	0	100	0	63.4%	70	130				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: 9809030

Project: 2-1362; 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

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
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CHAIN OF CUSTODY RECORD

5533

ON SITE

TECHNOLOGIES, LTD.

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

Date: 9/10/01

Page 1 of 1

Purchase Order No.:		Job No. <u>6-1262</u>		Name <u>Larry Taylor</u>		Title	
SEND INVOICE TO		Company <u>Conoco</u>		Company <u>Conoco</u>		Company	
Address		Dept.		Mailing Address			
City, State, Zip				City, State, Zip		Telephone No.	
Sampling Location: <u>CONCO</u>				Telephone No.		Telefax No.	
Sampler: <u>Larry Taylor</u>		ANALYSIS REQUESTED					
Number of Containers		RESULTS TO					
SAMPLE IDENTIFICATION		SAMPLE		MATRIX		PRES.	
DATE		TIME					
LAB ID							
Relinquished by: <u>Larry Taylor</u>		Date/Time <u>9/10/01</u>		Received by:		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:		(Client Signature <u>Must</u> Accompany Request)		Date		Special Instructions:	

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: 2-1362; Conoco

Order No.: 9806032

Dear Larry Trujillo,

On Site Technologies, LTD. received 1 sample 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: 2-1362; Conoco

Lab Order: 9806032

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:	Shephard & Kelsey #1
Work Order:	9806032	Client Sample ID:	#1
Lab ID:	9806032-01A	Matrix:	AQUEOUS
Project:	2-1362; Conoco	Collection Date:	6/9/98 11:43:00 AM
		COC Record:	5136

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
BTEX		SW8020A				Analyst: DC
Benzene	ND	0.5		µg/L	1	6/14/98
Toluene	ND	0.5		µg/L	1	6/14/98
Ethylbenzene	ND	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

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: 9806032
Project: 2-1362; 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:	9806032	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: 9806032
Project: 2-1362; 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:		9806032		Run ID:		GC-1_980614B		SeqNo: 2997														
Analyte		Result		PQL		SPK value		SPK Ref Val		%REC		LowLimit		HighLimit		RPD Ref Val		%RPD		RPDLimit		Qual
Benzene		813		10		800		4.052		101.1%		56		128								
Ethylbenzene		812.9		10		800		4.38		101.1%		78		107								
m,p-Xylene		1577		20		1600		17.67		97.5%		67		118								
o-Xylene		806.4		10		800		2.606		100.5%		78		107								
Toluene		806.6		10		800		3.922		100.3%		74		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:		9806032		Run ID:		GC-1_980614B		SeqNo: 2998														
Analyte		Result		PQL		SPK value		SPK Ref Val		%REC		LowLimit		HighLimit		RPD Ref Val		%RPD		RPDLimit		Qual
Benzene		788.5		10		800		4.052		98.1%		56		128		813		3.1%		12		
Ethylbenzene		811.3		10		800		4.38		100.9%		78		107		812.9		0.2%		11		
m,p-Xylene		1559		20		1600		17.67		96.3%		67		118		1577		1.2%		10		
o-Xylene		791.3		10		800		2.606		98.6%		78		107		806.4		1.9%		14		
Toluene		783.7		10		800		3.922		97.5%		74		116		806.6		2.9%		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: 16-Jun-98

CLIENT: On Site Technologies, Limited Partnership
Work Order: 9806032
Project: 2-1362; 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:	9806032	Run ID: GC-1_980614B		SeqNo: 2995	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Benzene	40.87	0.5	40	0.0426	102.1% 56 128
Ethylbenzene	40.4	0.5	40	0.0628	100.8% 78 107
m,p-Xylene	78.11	1	80	0.1828	97.4% 67 118
o-Xylene	40.26	0.5	40	0.0816	100.5% 78 107
Toluene	40.14	0.5	40	0.1025	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

On Site Technologies, LTD.

CLIENT: On Site Technologies, Limited Partnership
Work Order: 9806032
Project: 2-1362; 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:		9806032		Run ID:		GC-1_980614B		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:		9806032		Run ID:		GC-1_980614B		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: 9806032

Project: 2-1362, 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:		9806032		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: 9806032
Project: 2-1362; 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]

Disribution:	White – On Site	Yellow – LAB	Pink -- Sampler	Goldenrod – Client
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657 W. Maple • P. O. Box 2606 • Farmington NM 87499
LAB: (505) 325-5667 • FAX: (505) 325-6256

[illegible]

ON SITE

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

March 25, 1998

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

RE: 2-1362

Order No.: 9803045

Dear Larry Trujillo,

On Site Technologies, LTD. received 1 sample on 3/13/98 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

Date: 25-Mar-98

CLIENT: Conoco, Inc.
Project: 2-1362
Lab Order: 9803045

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-Mar-98

Client:	Conoco, Inc.	Client Sample Info:	Shephard & Kelsey 1
Work Order:	9803045	Client Sample ID:	MW #1
Lab ID:	9803045-01A	Matrix:	AQUEOUS
Project:	2-1362	Collection Date:	3/13/98 1:35:00 PM
		COC#:	6907

Parameter	Result	Limit	Qual	Units	DF	Date Analyzed
BTEX		SW8020A		Analyst: DC		
Benzene	ND	0.5		µg/L	1	3/19/98
Toluene	ND	0.5		µg/L	1	3/19/98
Ethylbenzene	ND	0.5		µg/L	1	3/19/98
m,p-Xylene	ND	1		µg/L	1	3/19/98
o-Xylene	ND	0.5		µg/L	1	3/19/98
Surr: Fluorobenzene	93.4	70-130		%REC	1	3/19/98
Surr: 1,4-Difluorobenzene	93.9	70-130		%REC	1	3/19/98
Surr: 4-Bromochlorobenzene	92.6	70-130		%REC	1	3/19/98

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	

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

On Site Technologies, LTD.

Date: 25-Mar-98

CLIENT: Conoco, Inc.

Work Order: 9803045

Project: 2-1362

QC SUMMARY REPORT

Method Blank

Sample ID: MB1	Batch ID: GC-1_980319	Test Code: SW8020A	Units: µg/L	Analysis Date: 3/19/98	Prep Date:
Client ID:	9803045	Run ID: GC-1_980319A		SeqNo: 93	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC
Benzene	.1309	0.5			
Ethylbenzene	.1039	0.5			
m,p-Xylene	.2979	1			
o-Xylene	.1068	0.5			
Toluene	.1636	0.5			
				RPD Ref Val	RPDLimit
					Qual

J J J J 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: 25-Mar-98

CLIENT: Conoco, Inc.

Work Order: 9803045

Project: 2-1362

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: 9803032-06AMS		Batch ID: GC-1_980319		Test Code: SW8020A		Units: µg/L		Analysis Date: 3/19/98		Prep Date:	
Client ID:		9803045		Run ID: GC-1_980319A				SeqNo: 94			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	942.9	10	800	105.3	104.7%	56	128				
Ethylbenzene	921.7	10	800	92.88	103.6%	78	107				
m,p-Xylene	2403	20	1600	765.4	102.4%	67	118				
o-Xylene	957.2	10	800	124	104.2%	78	107				
Toluene	937.4	10	800	108.7	103.6%	74	116				

Sample ID: 9803032-06AMSD		Batch ID: GC-1_980319		Test Code: SW8020A		Units: µg/L		Analysis Date: 3/19/98		Prep Date:	
Client ID:		9803045		Run ID: GC-1_980319A				SeqNo: 95			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	891.1	10	800	105.3	98.2%	56	128	942.9	5.6%	15	
Ethylbenzene	893.1	10	800	92.88	100.0%	78	107	921.7	3.2%	15	
m,p-Xylene	2296	20	1600	765.4	95.7%	67	118	2403	4.6%	15	
o-Xylene	907.8	10	800	124	98.0%	78	107	957.2	5.3%	15	
Toluene	886.7	10	800	108.7	97.2%	74	116	937.4	5.6%	15	

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-Mar-98

CLIENT: Conoco, Inc.

Work Order: 9803045

Project: 2-1362

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: LCS WATER		Batch ID: GC-1_980319	Test Code: SW8020A	Units: µg/L	Analysis Date: 3/19/98			Prep Date:			
Client ID:		9803045	Run ID: GC-1_980319A		SeqNo: 92						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	41.51	0.5	40	0.1309	103.4%	39	150				
Ethylbenzene	42.39	0.5	40	0.1039	105.7%	32	160				
m,p-Xylene	80.93	1	80	0.2979	100.8%	35	145				
o-Xylene	41.37	0.5	40	0.1068	103.2%	35	145				
Toluene	41.16	0.5	40	0.1636	102.5%	46	148				

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-Mar-98

CLIENT: Conoco, Inc.

Work Order: 9803045

Project: 2-1362

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV1 QC0529/30		Batch ID: GC-1_980319		Test Code: SW8020A		Units: µg/L		Analysis Date: 3/19/98		Prep Date:	
Client ID: 9803045		Run ID: GC-1_980319A		PQL		SPK value		SeqNo: 87			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.65	0.5	20	0	103.3%	85	115				
Ethylbenzene	20.65	0.5	20	0	103.2%	85	115				
m,p-Xylene	39.56	1	40	0	98.9%	85	115				
o-Xylene	20.62	0.5	20	0	103.1%	85	115				
Toluene	20.4	0.5	20	0	102.0%	85	115				
1,4-Difluorobenzene	93.88	0	100	0	93.9%	70	130				
4-Bromochlorobenzene	90.08	0	100	0	90.1%	70	130				
Fluorobenzene	92.88	0	100	0	92.9%	70	130				

Sample ID: CCV2 QC0529/30		Batch ID: GC-1_980319		Test Code: SW8020A		Units: µg/L		Analysis Date: 3/19/98		Prep Date:	
Client ID: 9803045		Run ID: GC-1_980319A		PQL		SPK value		SeqNo: 88			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	21.63	0.5	20	0	108.2%	85	115				
Ethylbenzene	22.12	0.5	20	0	110.6%	85	115				
m,p-Xylene	41.81	1	40	0	104.5%	85	115				
o-Xylene	21.67	0.5	20	0	108.3%	85	115				
Toluene	21.33	0.5	20	0	106.6%	85	115				
1,4-Difluorobenzene	94.01	0	100	0	94.0%	70	130				
4-Bromochlorobenzene	91.89	0	100	0	91.9%	70	130				
Fluorobenzene	92.94	0	100	0	92.9%	70	130				

Qualifiers:

NID - 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: 9803045

Project: 2-1362

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV3 QC0529/30		Batch ID: GC-1_980319		Test Code: SW8020A		Units: µg/L		Analysis Date: 3/19/98		Prep Date:	
Client ID: 9803045		Run ID: GC-1_980319A		SeqNo: 89							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.44	0.5	20	0	102.2%	85	115				
Ethylbenzene	20.82	0.5	20	0	104.1%	85	115				
m,p-Xylene	39.42	1	40	0	98.6%	85	115				
o-Xylene	20.48	0.5	20	0	102.4%	85	115				
Toluene	20.22	0.5	20	0	101.1%	85	115				
1,4-Difluorobenzene	93.73	0	100	0	93.7%	70	130				
4-Bromochlorobenzene	89.69	0	100	0	89.7%	70	130				
Fluorobenzene	92.81	0	100	0	92.8%	70	130				

Sample ID: CCV4 QC0529/30		Batch ID: GC-1_980319		Test Code: SW8020A		Units: µg/L		Analysis Date: 3/19/98		Prep Date:	
Client ID: 9803045		Run ID: GC-1_980319A		SeqNo: 90							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.52	0.5	20	0	102.6%	85	115				
Ethylbenzene	23.27	0.5	20	0	116.4%	85	115				
m,p-Xylene	42.37	1	40	0	105.9%	85	115				
o-Xylene	22.3	0.5	20	0	111.5%	85	115				
Toluene	20.38	0.5	20	0	101.9%	85	115				
1,4-Difluorobenzene	93.65	0	100	0	93.7%	70	130				
4-Bromochlorobenzene	90.57	0	100	0	90.6%	70	130				
Fluorobenzene	92.76	0	100	0	92.8%	70	130				

SV
CAL FILMED
CCV5
BY 3/25/98

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

CLIENT: Conoco, Inc.

Work Order: 9803045

Project: 2-1362

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV5 QC0529/30		Batch ID: GC-1_980319		Test Code: SW8020A		Units: µg/L		Analysis Date: 3/19/98		Prep Date:	
Client ID:		9803045		Run ID: GC-1_980319A				SeqNo: 91			
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	21.29	0.5	20	0	106.5%	85	115				
m,p-Xylene	40.57	1	40	0	101.4%	85	115				
o-Xylene	21.49	0.5	20	0	107.4%	85	115				
Toluene	21.12	0.5	20	0	105.6%	85	115				
1,4-Difluorobenzene	93.61	0	100	0	93.6%	70	130				
4-Bromochlorobenzene	87.33	0	100	0	87.3%	70	130				
Fluorobenzene	92.92	0	100	0	92.9%	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

Purchase Order No.:		Job No. 2-12-62	
SEND INVOICE TO		Name Larry Tugbill	
Company Canco		Dept.	
Address			
City, State, Zip		Telephone No.	
Sampling Location: Shepherd - Kelly 1		Telefax No.	
Sampler: Larry Tugbill		ANALYSIS REQUESTED	
REPORT RESULTS TO		Name Title	
Company Canco		Company Canco	
Mailing Address		Mailing Address	
City, State, Zip		City, State, Zip	
Telephone No.		Telefax No.	
Number of Containers		LAB ID	
1		1803845-01A	
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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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