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REPORTS

DATE:

FEB 2002



February 18, 2002

Conoco, Inc., San Juan/Lobo Business Unit
Attn: Mr. Gary Ledbetter, Field SHEAR Specialist
3315 Bloomfield Hwy.
Farmington, N.M. 87401

RE: 2001 Annual Ground Water Report
Conoco Location: Shephard & Kelsey #1
Unit L, Sec. 29, T29N, R11W, NMPM, San Juan Co., NM

Project: 2-1362

Dear Mr. Ledbetter,

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 2001, 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 2001 Activities:

Per NMOCD direction ground water monitoring was resumed during 2001. Ground water monitoring was conducted during the months of June, September, and December of 2001. The June sampling event included MW-NE, DG 1, SB 12, UG 1, UG 2, and DG-MW. No top of casing elevation has been found for DG-MW.

Based on the June 2002 sampling event findings, the September and December events were limited to the sampling of SB 12, MW-NE, and DG 1.

SB 12 continues to have BTEX contamination above New Mexico Water Quality Control Commission (NMWQCC) standards.

SAMPLING:

In accordance with the monitoring plan, water levels were measured in the 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 was 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 2001 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 2001 ground water monitoring results and trends, associated with a former production pit at the Shephard & Kelsey #1 well location:

1. SB 12 continues to show BTEX contamination above the New Mexico Water Quality Control Commission (NMWQCC) standards.
2. Ground water monitoring should continue until NMOCD's requirement to have four consecutive quarters with BTEX contamination levels below NMWQCC standards have been met.
3. When sampling requirements have been completed, prepare a Final Pit Closure Form to be submitted to NMOCD for approval.
4. Following NMOCD's approval for closure, plug and abandon all monitoring wells in accordance with NMOCD regulations.

Limitations and Closure:

This annual groundwater report documents the results of ground water monitoring for the referenced Conoco well location during the calendar year 2001. 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.

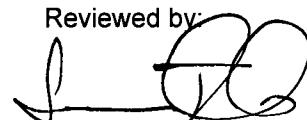
If there are any questions regarding this status report, please contact either John Hagstrom or Larry Trujillo at On Site Technologies, (505) 325-5667. Thank you for your consideration.

Respectfully-submitted,



John Hagstrom.
Environmental Technician

Reviewed by:



Lawrence "Larry" Trujillo
Environmental Specialist

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, 3, & 4: Ground Water Potentiometric Maps
Laboratory Results, QA/QC, Chain of Custody

Acknowledgment:
CONOCO, Inc.

Dave Judkut SHEAR Specialist
(Name/Title)

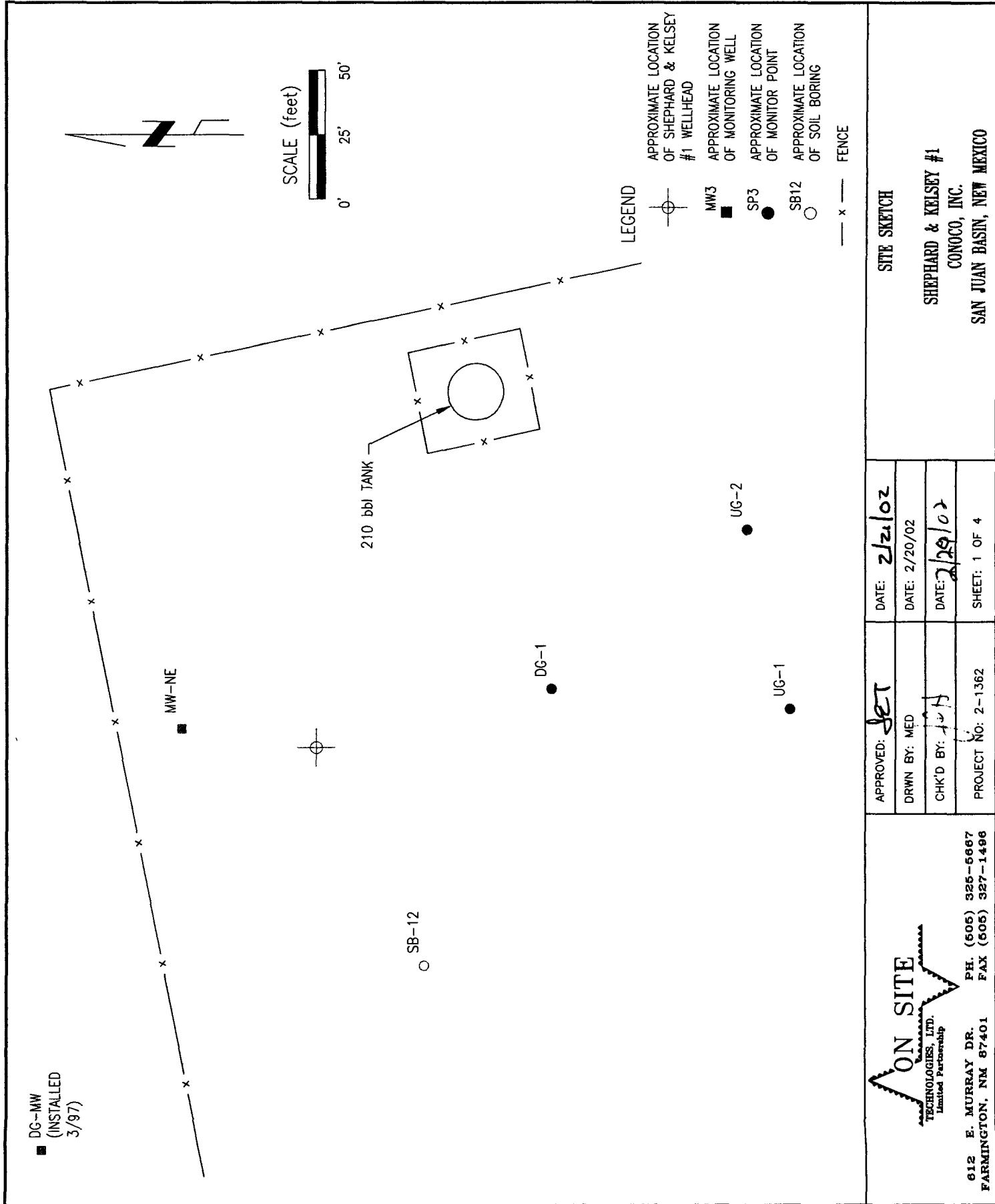
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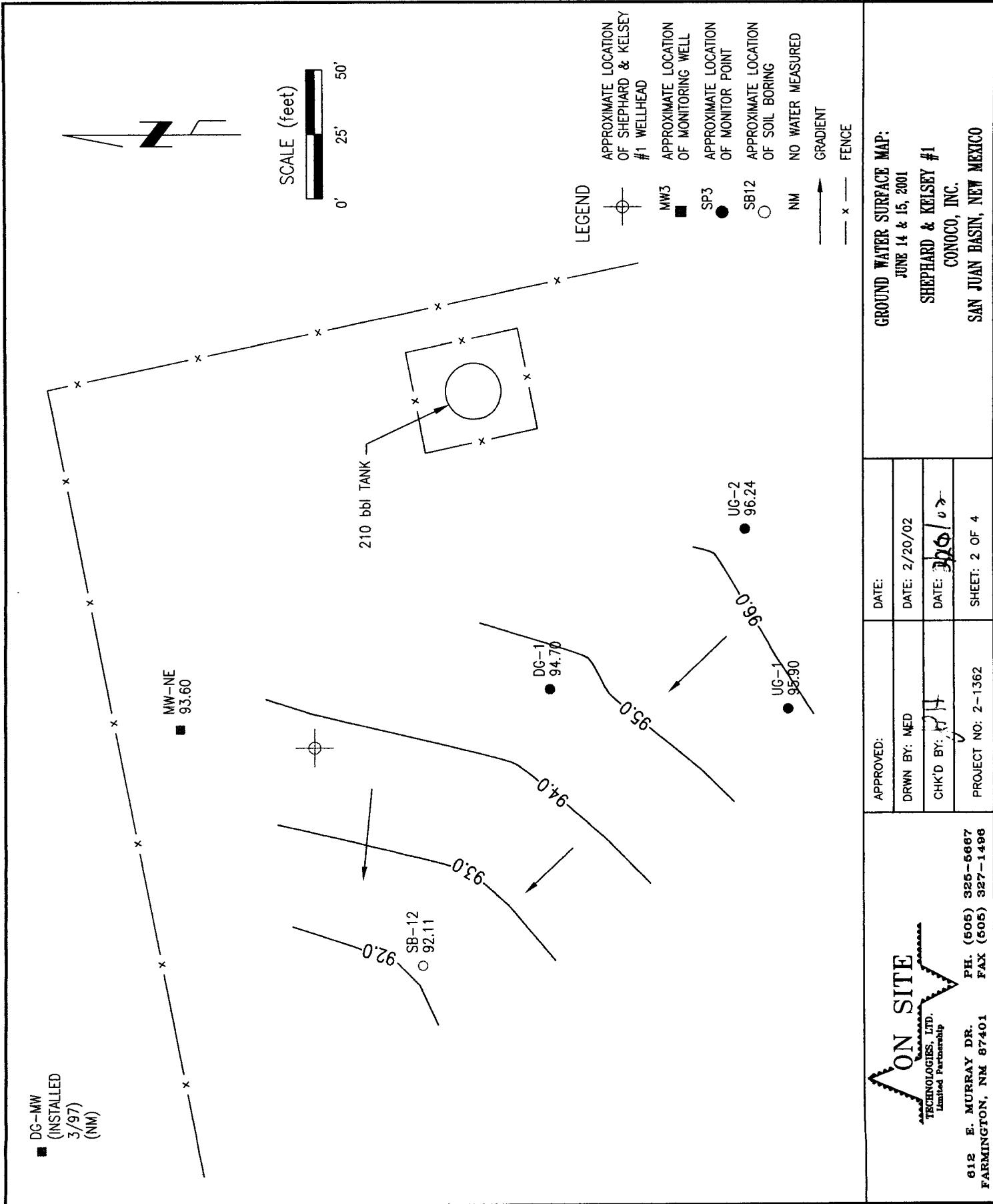
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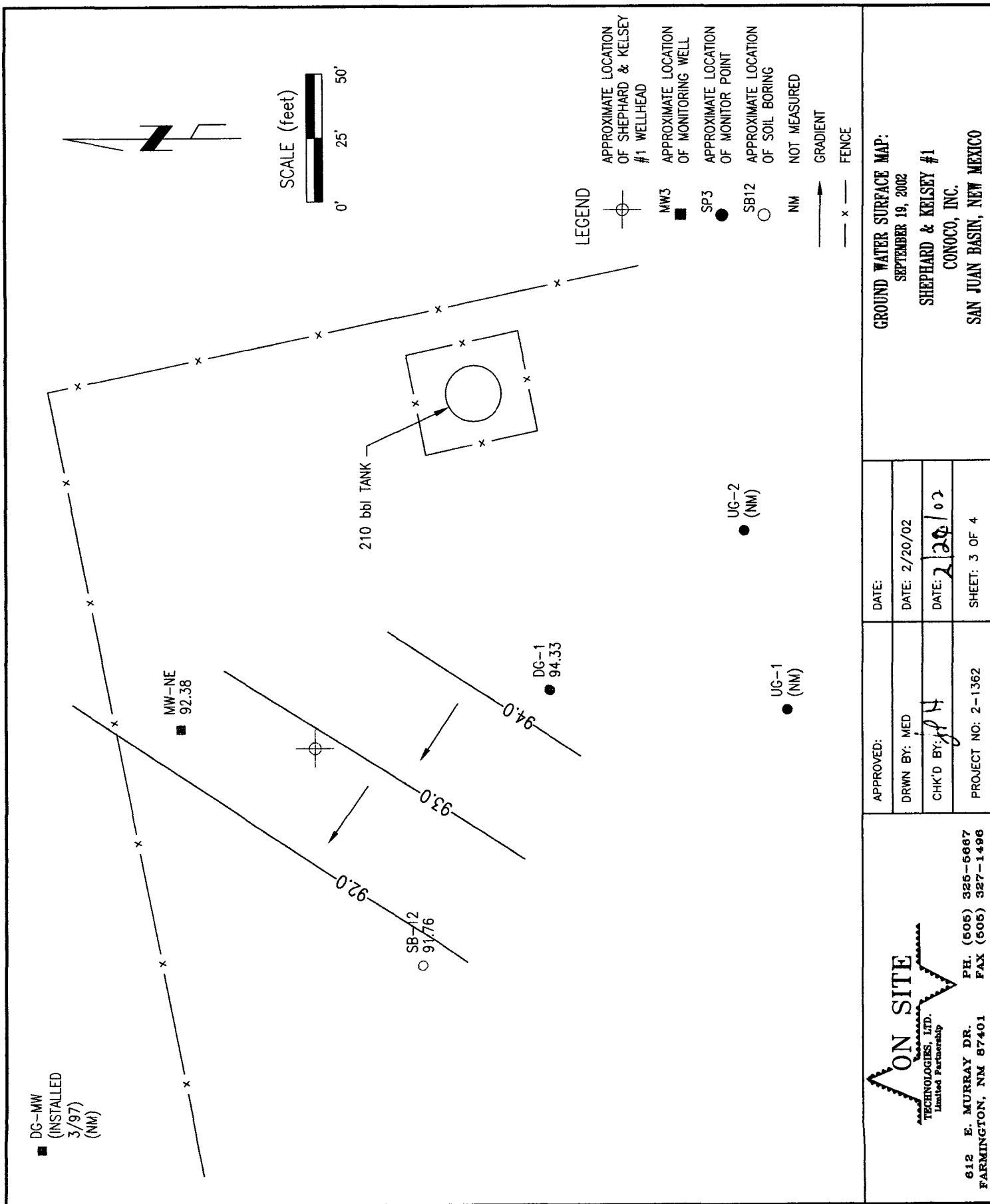
References

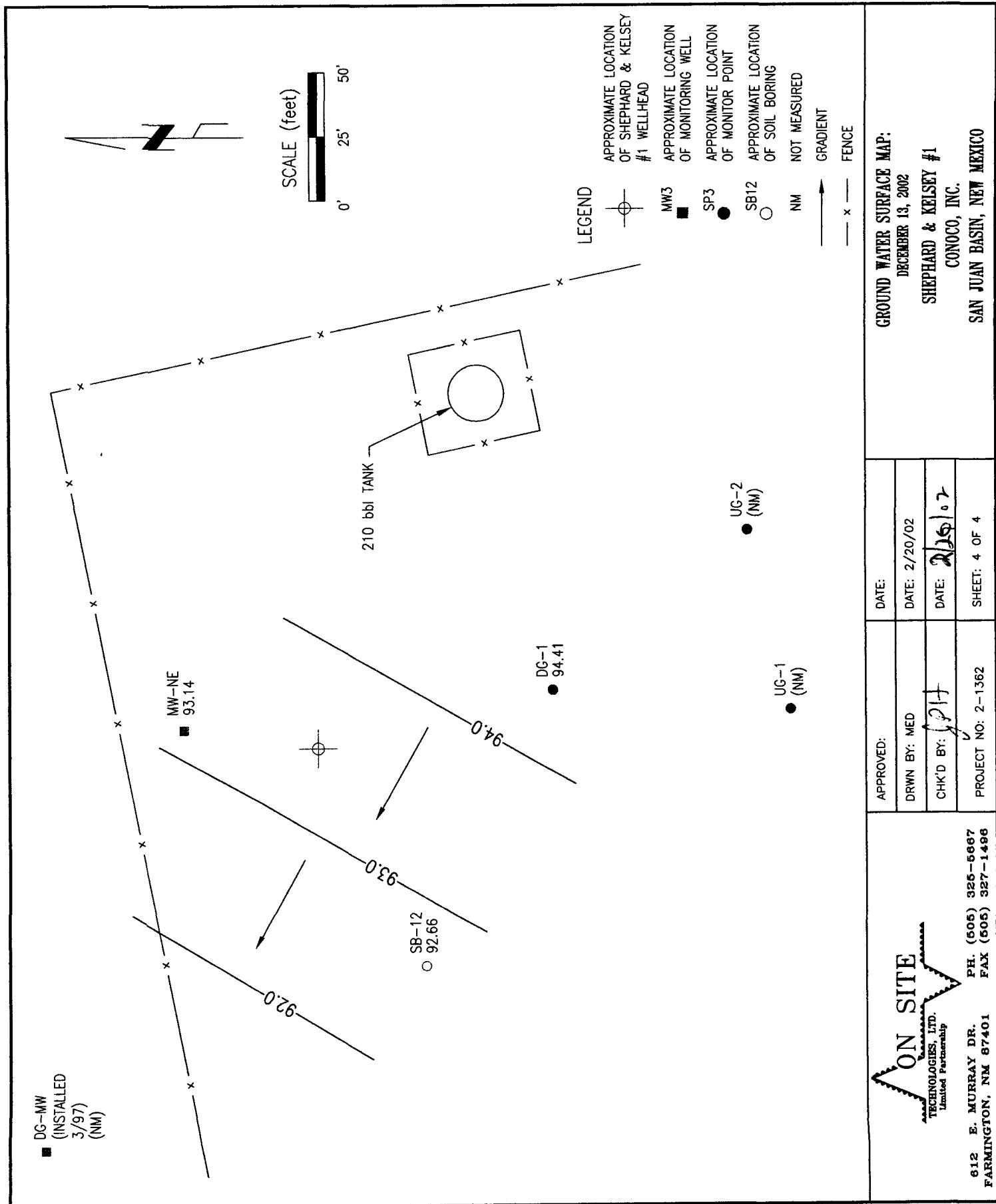
On Site Technologies, Ltd., March 21, 1998, letter to Mr. C. John Coy, SHEAR Specialist, Conoco, Inc., Midland Division, regarding: *Monitoring Well Installation & Status of Sampling, Conoco Location, Shephard & Kelsey #1, Unit L, Sec. 29, T29N, R11W, NMPM, San Juan Co., NM.*

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.*









**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) (BTOC)*	Relative Groundwater Elevation (ft)
MW-NE	100.0	5.42		4.0	06/12/96 09/16/97	2.54 NM	97.46
					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
					6/14/01	6.4	93.60
					9/19/01	7.62	92.38
					12/13/01	6.86	93.14
DG 1	100.895	9.05		4.0	6/15/01 9/19/01 12/13/01	6.15 6.57 6.49	94.70 94.33 94.41
SB 12	99.01	11.31		4.0	6/14/01 9/19/01 12/13/01	6.9 7.25 6.39	92.11 91.76 92.62
UG 1	101.71	9.83		4.0	6/14/01	5.81	95.90
UG 2	101.23	9.84		4.0	6/14/01	4.99	96.24
DG-MW	unknown	5.42		4.0	6/15/01	2.25	

BGS - approximate measurements taken as Below Ground Surface

BTOC - Below Top of Casing

NM - Not Measured

gw11362.doc

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
06/15/01	0106018-01A	DG #1		BDL	BDL	54.0	285.0	339.0
09/19/01	0109026-03A	DG#1		BDL	BDL	BDL	BDL	BDL
12/13/01	0112015-03A	DG#1		BDL	BDL	BDL	BDL	BDL
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	

BDL Below Detection Limits

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
06/14/01	0106016-01A	UG 1		BDL	BDL	BDL	BDL	0
06/14/01	0106016-02A	UG 2		BDL	BDL	BDL	BDL	0
06/14/01	0106016-03A	MW-NE		9.6	BDL	8.3	1.9	19.8
09/19/01	0109026-01A	MW-NE		24.0	0.7	18.0	26.5	69.2
12/13/01	0112015-01A	MW-NE		10.0	BDL	6.0	4.7	20.7
06/14/01	0106016-04A	SB 12		42.0	5.50	72.0	370.0	489.5
09/19/01	0109026-02A	SB 12		110.0	BDL	120.0	810.0	1040.0
12/13/01	0112015-02A	SB 12		28.0	BDL	63.0	322.9	413.9
06/15/01	0106018-02A	DG-MW		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

OFF: (505) 325-5667
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LAB: (505) 325-1556
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July 04, 2001

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

RE: 4-1427; Conoco Shephard & Kelsey 1

Order No.: 0106016

Dear John Hagstrom,

On Site Technologies, LTD. received 4 samples on 6/14/2001 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

P.O. BOX 2606 • FARMINGTON, NM 87499
EMAIL: ONSITE@ONSITELTD.COM

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667
FAX: (505) 327-1496



LAB: (505) 325-1556
FAX: (505) 327-1496

On Site Technologies, LTD.

Date: 04-Jul-01

CLIENT: On Site Technologies Limited
Project: 4-1427; Conoco Shephard & Kelsey 1
Lab Order: 0106016

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.

Any quality control and/or data qualifiers associated with this laboratory order will be flagged in the analytical result page(s) or the quality control summary report(s).

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ANALYTICAL REPORT

Date: 04-Jul-01

Client:	On Site Technologies Limited	Client Sample Info:	Shephard & Kelsey 1
Work Order:	0106016	Client Sample ID:	UG 1
Lab ID:	0106016-01A	Matrix:	AQUEOUS
Project:	4-1427; Conoco Shephard & Kelsey 1	Collection Date:	6/14/2001 2:25:00 PM
		COC Record:	11342

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
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AROMATIC VOLATILES BY GC/PID						Analyst: DM
		SW8021B				
Benzene	ND	0.5		µg/L	1	6/27/2001
Toluene	ND	0.5		µg/L	1	6/27/2001
Ethylbenzene	ND	0.5		µg/L	1	6/27/2001
m,p-Xylene	ND	1		µg/L	1	6/27/2001
o-Xylene	ND	0.5		µg/L	1	6/27/2001

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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LAB: (505) 325-1556
FAX: (505) 327-1496

ANALYTICAL REPORT

Date: 04-Jul-01

Client:	On Site Technologies Limited	Client Sample Info:	Shephard & Kelsey 1
Work Order:	0106016	Client Sample ID:	UG 2
Lab ID:	0106016-02A	Matrix:	AQUEOUS
Project:	4-1427; Conoco Shephard & Kelsey 1	Collection Date:	6/14/2001 2:50:00 PM
		COC Record:	11342

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID						
			SW8021B			Analyst: DM
Benzene	ND	0.5		µg/L	1	6/26/2001
Toluene	ND	0.5		µg/L	1	6/26/2001
Ethylbenzene	ND	0.5		µg/L	1	6/26/2001
m,p-Xylene	ND	1		µg/L	1	6/26/2001
o-Xylene	ND	0.5		µg/L	1	6/26/2001

Qualifiers: PQL - Practical Quantitation Limit S - Spike Recovery outside accepted recovery limits
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J - Analyte detected below Practical Quantitation Limit E - Value above quantitation range
B - Analyte detected in the associated Method Blank Surr: - Surrogate

2 of 4

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LAB: (505) 325-1556
FAX: (505) 327-1496

ANALYTICAL REPORT

Date: 04-Jul-01

Client:	On Site Technologies Limited	Client Sample Info:	Shephard & Kelsey 1
Work Order:	0106016	Client Sample ID:	MW-NE
Lab ID:	0106016-03A	Matrix:	AQUEOUS
Project:	4-1427; Conoco Shephard & Kelsey 1	Collection Date:	6/14/2001 3:10:00 PM
		COC Record:	11342

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID						
			SW8021B			Analyst: DM
Benzene	9.6	0.5		µg/L	1	6/27/2001
Toluene	ND	0.5		µg/L	1	6/27/2001
Ethylbenzene	8.3	0.5		µg/L	1	6/27/2001
m,p-Xylene	1.9	1		µg/L	1	6/27/2001
o-Xylene	ND	0.5		µg/L	1	6/27/2001

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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LAB: (505) 325-1556
FAX: (505) 327-1496

ANALYTICAL REPORT

Date: 04-Jul-01

Client:	On Site Technologies Limited	Client Sample Info:	Shephard & Kelsey 1
Work Order:	0106016	Client Sample ID:	SB 12
Lab ID:	0106016-04A	Matrix:	AQUEOUS
Project:	4-1427; Conoco Shephard & Kelsey 1	Collection Date:	6/14/2001 4:00:00 PM
		COC Record:	11342

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID						
			SW8021B			Analyst: DM
Benzene	42	2.5		µg/L	5	6/26/2001
Toluene	5.5	2.5		µg/L	5	6/26/2001
Ethylbenzene	72	2.5		µg/L	5	6/26/2001
m,p-Xylene	370	5		µg/L	5	6/26/2001
o-Xylene	ND	2.5		µg/L	5	6/26/2001

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

4 of 4

P.O. BOX 2606 • FARMINGTON, NM 87499

EMAIL: ONSITE@ONSITELTD.COM

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

On Site Technologies, LTD.

Date: 04-Jul-01

QC SUMMARY REPORT

Method Blank

Sample ID: MB1	Batch ID: GC-1_010626	Test Code: SW8021B	Units: µg/L	Analysis Date 6/26/2001			Prep Date:				
Client ID:	Run ID: GC-1_010626A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte	Result										
Benzene	ND	0.5									J
Ethylbenzene	.2547	0.5									J
m,p-Xylene	.2921	1									J
Methyl tert-Butyl Ether	ND	1									J
o-Xylene	.3507	0.5									J
Toluene	.116	0.5									J

Sample ID: MB1	Batch ID: GC-1_010627	Test Code: SW8021B	Units: µg/L	Analysis Date 6/27/2001			Prep Date:				
Client ID:	Run ID: GC-1_010627A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte	Result										
Benzene	ND	0.5									J
Ethylbenzene	.118	0.5									J
m,p-Xylene	.1558	1									J
Methyl tert-Butyl Ether	ND	1									J
o-Xylene	ND	0.5									J
Toluene	.0835	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
J - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

CLIENT: On Site Technologies Limited

0106016

Work Order: 4-1427; Conoco Sheppard & Kelsey 1

QC SUMMARY REPORT

Sample Matrix Spike

Date: 04-Jul-01

Sample ID: 0106014-03AMS							Analysis Date 6/26/2001						
Client ID:		Batch ID: GC-1_010626		Test Code: SW8021B		Units: µg/L		SeqNo:		Prep Date:			
Analyte		Result		PQL		SPK value		SPK Ref Val		%REC			
Benzene		420	5	400		29.11		97.7%	70	130			
Ethylbenzene		532.6	5	400		81.25		112.8%	70	130			
m,p-Xylene		2918	10	800		2062		107.0%	70	130			
Methyl tert-Butyl Ether		396.6	10	400		1.349		98.8%	70	130			
o-Xylene		424	5	400		2.196		105.4%	70	130			
Toluene		429.3	5	400		11.43		104.5%	70	130			
Sample ID: 0106014-03AMSD							Analysis Date 6/26/2001						
Client ID:		Batch ID: GC-1_010626A		Test Code: SW8021B		Units: µg/L		SeqNo:		Prep Date:			
Analyte		Result		PQL		SPK value		SPK Ref Val		%REC			
Benzene		412.5	5	400		29.11		95.9%	70	130			
Ethylbenzene		524.7	5	400		81.25		110.9%	70	130			
m,p-Xylene		2860	10	800		2062		99.8%	70	130			
Methyl tert-Butyl Ether		395.6	10	400		1.349		98.6%	70	130			
o-Xylene		417.1	5	400		2.196		103.7%	70	130			
Toluene		419.1	5	400		11.43		101.9%	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

QC SUMMARY REPORT
Sample Matrix Spike

CLIENT: On Site Technologies Limited
Work Order: 0106016
Project: 4-1427; Conoco Shephard & Kelsey 1

Sample ID: 0106014-02AMS		Batch ID: GC-1_010627		Test Code: SW8021B		Units: µg/L		Analysis Date: 6/27/2001		Prep Date:			
Client ID:		Run ID:	GC-1_010627A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte	Result												
Benzene	818.1	10	800	22.78	99.4%	70	130						
Ethylbenzene	1299	10	800	491.4	100.9%	70	130						
m,p-Xylene	5471	20	1600	3944	95.4%	70	130						
Methyl tert-Butyl Ether	780.8	20	800	0	97.6%	70	130						
o-Xylene	834.8	10	800	4.008	103.8%	70	130						
Toluene	827.2	10	800	4.98	102.8%	70	130						
Sample ID: 0106014-02AMSD		Batch ID: GC-1_010627		Test Code: SW8021B		Units: µg/L		Analysis Date: 6/27/2001		Prep Date:			
Client ID:		Run ID:	GC-1_010627A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte	Result												
Benzene	807.8	10	800	22.78	98.1%	70	130						
Ethylbenzene	1281	10	800	491.4	98.7%	70	130						
m,p-Xylene	5382	20	1600	3944	89.9%	70	130						
Methyl tert-Butyl Ether	780.7	20	800	0	97.6%	70	130						
o-Xylene	826.7	10	800	4.008	102.8%	70	130						
Toluene	816.4	10	800	4.98	101.4%	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.

CLIENT: On Site Technologies Limited
Work Order: 0106016
Project: 4-1427; Conoco Shephard & Kelsey 1

Date: 04-Jul-01

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: LCS WATER		Batch ID: GC-1_010626	Test Code: SW8021B	Units: µg/L			Analysis Date 6/26/2001		Prep Date:						
Client ID:	Run ID:	GC-1_010626A			Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	41.01	0.5	40	0					102.5%			80		120	
Ethylbenzene	42.36	0.5	40	0.2547					105.3%			80		120	
m,p-Xylene	82.97	1	80	0.2921					103.3%			80		120	
Methyl tert-Butyl Ether	40.18	1	40	0					100.5%			80		120	
o-Xylene	42.49	0.5	40	0.3507					105.3%			80		120	
Toluene	41.71	0.5	40	0.116					104.0%			80		120	
Sample ID: LCS WATER		Batch ID: GC-1_010627	Test Code: SW8021B	Units: µg/L			Analysis Date 6/27/2001		Prep Date:						
Client ID:	Run ID:	GC-1_010627A			Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	42.76	0.5	40	0					106.9%			80		120	
Ethylbenzene	43.26	0.5	40	0.118					107.8%			80		120	
m,p-Xylene	84.62	1	80	0.1558					105.6%			80		120	
Methyl tert-Butyl Ether	41.6	1	40	0					104.0%			80		120	
o-Xylene	43.25	0.5	40	0					108.1%			80		120	
Toluene	42.8	0.5	40	0.0835					106.8%			80		120	

Quantifiers:
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
I of I

On Site Technologies, LTD.

CLIENT: On Site Technologies Limited
Work Order: 0106016
Project: 4-1427; Conoco Sheppard & Kelsey 1

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Date: 04-Jul-01

Sample ID: CCV1 BTEX_0105	Batch ID: GC-1_010626	Test Code: SW8021B	Units: µg/L		Analysis Date	6/26/2001	Prep Date:					
Client ID:	Run ID: GC-1_010626A	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	21.92	0.5	20	0	109.6%	85	115					
Ethylbenzene	22.96	0.5	20	0	114.8%	85	115					
m,p-Xylene	45.32	1	40	0	113.3%	85	115					
Methyl tert-Butyl Ether	20.94	1	20	0	104.7%	85	115					
o-Xylene	22.7	0.5	20	0	113.5%	85	115					
Toluene	22.42	0.5	20	0	112.1%	85	115					
1,4-Difluorobenzene	113.7	0	120	0	94.7%	70	130					
4-Bromochlorobenzene	129.3	0	120	0	107.7%	70	130					
Fluorobenzene	112	0	120	0	93.4%	70	130					
Sample ID: CCV2 BTEX_0105	Batch ID: GC-1_010626	Test Code: SW8021B	Units: µg/L		Analysis Date	6/26/2001	Prep Date:					
Client ID:	Run ID: GC-1_010626A	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.31	0.5	20	0	101.5%	85	115					
Ethylbenzene	21.8	0.5	20	0	109.0%	85	115					
m,p-Xylene	42.4	1	40	0	106.0%	85	115					
Methyl tert-Butyl Ether	20.69	1	20	0	103.5%	85	115					
o-Xylene	21.35	0.5	20	0	106.7%	85	115					
Toluene	20.78	0.5	20	0	103.9%	85	115					
1,4-Difluorobenzene	113.3	0	120	0	94.4%	70	130					
4-Bromochlorobenzene	123.5	0	120	0	102.9%	70	130					
Fluorobenzene	111.6	0	120	0	93.0%	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

1 of 3

QC SUMMARY REPORT
Continuing Calibration Verification Standard

CLIENT: On Site Technologies Limited
Work Order: 0106016
Project: 4-1427; Conoco Shephard & Kelsey 1

Sample ID: CCV3 BTEX_0105		Batch ID: GC-1_010626		Test Code: SW8021B		Units: µg/L		Analysis Date: 6/26/2001		Prep Date:					
Client ID:		Run ID:		GC-1_010626A		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
	Analyte	Result													
Benzene		40.72	0.5	40	0				101.8%	85	115				
Ethylbenzene		41.76	0.5	40	0				104.4%	85	115				
m,p-Xylene		81.55	1	80	0				101.9%	85	115				
Methyl tert-Butyl Ether		40.37	1	40	0				100.9%	85	115				
o-Xylene		42.06	0.5	40	0				105.2%	85	115				
Toluene		41.18	0.5	40	0				103.0%	85	115				
1,4-Difluorobenzene		113.3	0	120	0				94.4%	70	130				
4-Bromochlorobenzene		123.2	0	120	0				102.7%	70	130				
Fluorobenzene		112.2	0	120	0				93.5%	70	130				
Sample ID: CCV1 BTEX_0105		Batch ID: GC-1_010627		Test Code: SW8021B		Units: µg/L		Analysis Date: 6/27/2001		Prep Date:					
Client ID:		Run ID:		GC-1_010627A		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
	Analyte	Result													
Benzene		21.38	0.5	20	0				106.9%	85	115				
Ethylbenzene		22.26	0.5	20	0				111.3%	85	115				
m,p-Xylene		43.85	1	40	0				109.6%	85	115				
Methyl tert-Butyl Ether		20.24	1	20	0				101.2%	85	115				
o-Xylene		22.25	0.5	20	0				111.2%	85	115				
Toluene		21.87	0.5	20	0				109.3%	85	115				
1,4-Difluorobenzene		112.1	0	120	0				93.4%	70	130				
4-Bromochlorobenzene		122.8	0	120	0				102.4%	70	130				
Fluorobenzene		112.6	0	120	0				93.8%	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
Work Order: 0106016
Project: 4-1427; Conoco Shephard & Kelsey 1

QC SUMMARY REPORT
Continuing Calibration Verification Standard

Sample ID: CCV2_BTEX_0105	Batch ID: GC-1_010627	Test Code: SW8021B	Units: µg/L	Analysis Date 6/27/2001				Prep Date:		
Client ID:	Run ID:	GC-1_010627A		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte	Result	PQL	SPK value	SPK Ref Val						
Benzene	20.62	0.5	20	0	103.1%	85	115			
Ethylbenzene	21.42	0.5	20	0	107.1%	85	115			
m,p-Xylene	42.33	1	40	0	105.8%	85	115			
Methyl tert-Butyl Ether	20.54	1	20	0	102.7%	85	115			
o-Xylene	21.69	0.5	20	0	108.4%	85	115			
Toluene	21.2	0.5	20	0	106.0%	85	115			
1,4-Difluorobenzene	113	0	120	0	94.2%	70	130			
4-Bromochlorobenzene	121.3	0	120	0	101.1%	70	130			
Fluorobenzene	111.7	0	120	0	93.1%	70	130			
Sample ID: CCV3_BTEX_0105	Batch ID: GC-1_010627	Test Code: SW8021B	Units: µg/L	Analysis Date 6/27/2001				Prep Date:		
Client ID:	Run ID:	GC-1_010627A		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte	Result	PQL	SPK value	SPK Ref Val						
Benzene	39.57	0.5	40	0	98.9%	85	115			
Ethylbenzene	41.04	0.5	40	0	102.6%	85	115			
m,p-Xylene	80.35	1	80	0	100.4%	85	115			
Methyl tert-Butyl Ether	38.87	1	40	0	97.2%	85	115			
o-Xylene	41.33	0.5	40	0	103.3%	85	115			
Toluene	40.4	0.5	40	0	101.0%	85	115			
1,4-Difluorobenzene	112.8	0	120	0	94.0%	70	130			
4-Bromochlorobenzene	124.6	0	120	0	103.8%	70	130			
Fluorobenzene	111.9	0	120	0	93.2%	70	130			

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

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B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 04-Jul-01

CLIENT: On Site Technologies Limited
Work Order: 0106016
Project: 4-1427; Conoco Shephard & Kelsey
Test No: SW8021B

QC SUMMARY REPORT
SURROGATE RECOVERIES
Aromatic Volatiles by GC/PID

Sample ID	14FBZ	4BCBZ	FLBZ
0106014-01A	93.8	113	93.6
0106014-02A	94.8	102	93.6
0106014-02AMS	93	103	93.2
0106014-02AMSD	94	103	92.9
0106014-03A	92.6	102	93.6
0106014-03AMS	91.8	103	91.3
0106014-03AMSD	92	104	91.1
0106014-04A	91.3	112	90.6
0106015-01A	91.5	96.6	93.3
0106016-01A	93.4	102	94
0106016-02A	94	103	93.6
0106016-03A	93.8	101	92.9
0106016-04A	91.7	100	91.9
0106017-01A	96.8	104	95.8
0106018-01A	92.7	100	96
0106018-02A	94.3	105	94.4
0106037-01A	95.7	104	94
0106037-02A	89.8	96.3	89.7
0106037-03A	93.2	99.6	91.9
0106037-04A	91.5	97.9	91
0106037-05A	93.8	99.2	91.9
0106037-06A	95.7	102	94
0106037-07A	92.8	100	93.7
0106037-08A	94.1	98	93
0106037-09A	95.2	98.9	93.8
0106037-10A	95.6	103	94.1
0106037-11A	95.2	101	93.6

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

* Surrogate recovery outside acceptance limits

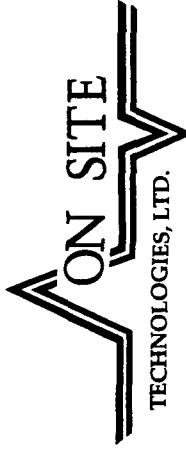
CLIENT: On Site Technologies Limited
Work Order: 0106016
Project: 4-1427; Conoco Shephard & Kelsey
Test No: SW8021B

QC SUMMARY REPORT
SURROGATE RECOVERIES
Aromatic Volatiles by GC/PID

Sample ID	14FBZ	4BCBZ	FLBZ
0106037-12A	94.1	109	92.5
0106037-13A	92.6	102	93.5
0106040-01A	94.9	103	93.1
0106040-02A	93.6	105	94.6
0106040-04A	94.5	101	94
0106040-05A	95.2	102	93.7
0106040-06A	93.6	101	94.2
CCV1 BTEX_01052	93.4	102	93.8
CCV2 BTEX_01052	94.2	101	93.1
CCV3 BTEX_01052	94	104	93.2
LCS WATER	94.3	105	92.9
MB1	94.9	104	94.3

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

* Surrogate recovery outside acceptance limits



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Date: 1/1/01
Page: 1 of 1

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Name Company	Address	Dept.	City, State, Zip	Company	Mailing Address	City, State, Zip	Telephone No.
PROJECT LOCATION: <u>East Side of New Mexico</u>		REPORT TO <u>RENSI</u>		RESULTS TO <u>RENSI</u>		Telefax No.	
ANALYSIS REQUESTED <div style="text-align: center; margin-bottom: 10px;"> </div> SAMPLER'S SIGNATURE: 							
SAMPLE IDENTIFICATION 		SAMPLE DATE TIME MATRIX PRES.		Number of Containers LAB ID <div style="text-align: center; margin-bottom: 10px;"> </div> 1650			
Relinquished by: 		Date/Time <u>1/1/01</u>		Received by: 		Date/Time <u>1/1/01</u>	
Relinquished by: 		Date/Time <u>1/1/01</u>		Received by: 		Date/Time <u>1/1/01</u>	
Relinquished by: 		Date/Time <u>1/1/01</u>		Received by: 		Date/Time <u>1/1/01</u>	
Method of Shipment: 		Rush	24-48 Hours	10 Working Days	By Date		
Authorized by: 		Special Instructions / Remarks: <u>(Client Signature Must Accompany Request)</u>					

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Date: 11/11/01

Page: 1 of 1

Purchase Order No.: <u>411127</u>		Project No. <u>411127</u>		Name <u>John Doe</u> Company		Name <u>John Doe</u> Company																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
SEND INVOICE TO <u>John Doe</u>		Dept. <u>Analyst</u>		Mailing Address <u>123 Main St.</u>		Mailing Address <u>123 Main St.</u>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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Relinquished by: John Doe Date/Time 11/11/01 Received by: John Doe Date/Time 11/11/01
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 Relinquished by: John Doe Date/Time 11/11/01 Received by: John Doe Date/Time 11/11/01
 Method of Shipment: Rush 24-48 Hours 10 Working Days By Date _____

Authorized by: John Doe Date 11/11/01 Client Signature Must Accompany Request

Distribution: White - On Site

Yellow - LAB

Pink - Sampler

Goldenrod - Client

OFF: (505) 325-5667
FAX: (505) 327-1496



LAB: (505) 325-1556
FAX: (505) 327-1496

July 21, 2001

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

RE: 4-1362; Conoco Shephard & Kelsey 1

Order No.: 0106018

Dear John Hagstrom,

On Site Technologies, LTD. received 2 samples on 6/15/2001 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

P.O. BOX 2606 • FARMINGTON, NM 87499
EMAIL: ONSITE@ONSITELTD.COM

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667
FAX: (505) 327-1496



LAB: (505) 325-1556
FAX: (505) 327-1496

On Site Technologies, LTD.

Date: 21-Jul-01

CLIENT: On Site Technologies Limited
Project: 4-1362; Conoco Shephard & Kelsey 1
Lab Order: 0106018

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.

Any quality control and/or data qualifiers associated with this laboratory order will be flagged in the analytical result page(s) or the quality control summary report(s).

OFF: (505) 325-5667
FAX: (505) 327-1496



LAB: (505) 325-1556
FAX: (505) 327-1496

ANALYTICAL REPORT

Date: 21-Jul-01

Client:	On Site Technologies Limited	Client Sample Info:	Shephard & Kelsey 1
Work Order:	0106018	Client Sample ID:	DG 1
Lab ID:	0106018-01A	Matrix:	AQUEOUS
Project:	4-1362; Conoco Shephard & Kelsey 1	Collection Date:	6/15/2001 9:30:00 AM
		COC Record:	11346

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
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AROMATIC VOLATILES BY GC/PID						SW8021B	Analyst: DM
Benzene	ND	0.5		µg/L	1	6/27/2001	
Toluene	ND	0.5		µg/L	1	6/27/2001	
Ethylbenzene	54	0.5		µg/L	1	6/27/2001	
m,p-Xylene	210	1		µg/L	1	6/27/2001	
o-Xylene	75	0.5		µg/L	1	6/27/2001	

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 2

P.O. BOX 2606 • FARMINGTON, NM 87499

EMAIL: ONSITE@ONSITELTD.COM

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667
FAX: (505) 327-1496



LAB: (505) 325-1556
FAX: (505) 327-1496

ANALYTICAL REPORT

Date: 21-Jul-01

Client:	On Site Technologies Limited	Client Sample Info:	Shephard & Kelsey 1
Work Order:	0106018	Client Sample ID:	DG-MW
Lab ID:	0106018-02A	Matrix:	AQUEOUS
Project:	4-1362; Conoco Shephard & Kelsey 1	Collection Date:	6/15/2001 9:50:00 AM
		COC Record:	11346

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
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AROMATIC VOLATILES BY GC/PID		SW8021B			Analyst: DM	
Benzene	ND	0.5	μg/L	1	6/26/2001	
Toluene	ND	0.5	μg/L	1	6/26/2001	
Ethylbenzene	ND	0.5	μg/L	1	6/26/2001	
m,p-Xylene	ND	1	μg/L	1	6/26/2001	
o-Xylene	ND	0.5	μg/L	1	6/26/2001	

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

2 of 2

P.O. BOX 2606 • FARMINGTON, NM 87499

EMAIL: ONSITE@ONSITELTD.COM

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

On Site Technologies, LTD.

CLIENT: On Site Technologies Limited

Work Order: 0106018

Project: 4-1429; Conoco Shephard & Kelsey 1

Date: 04-Jul-01

QC SUMMARY REPORT

Method Blank

Sample ID: MB1	Batch ID: GC-1_010626	Test Code: SW8021B	Units: µg/L	Analysis Date 6/26/2001			Prep Date:				
Client ID:	Run ID: GC-1_010626A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.5									J
Ethylbenzene	.2547	0.5									J
m,p-Xylene	.2921	1									
Methyl tert-Butyl Ether	ND	1									
o-Xylene	.3507	0.5									J
Toluene	.116	0.5									J
Sample ID: MB1	Batch ID: GC-1_010627	Test Code: SW8021B	Units: µg/L	Analysis Date 6/27/2001			Prep Date:				
Client ID:	Run ID: GC-1_010627A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.5									
Ethylbenzene	.118	0.5									J
m,p-Xylene	.1558	1									J
Methyl tert-Butyl Ether	ND	1									
o-Xylene	ND	0.5									
Toluene	.0835	0.5									

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

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

B - Analyte detected in the associated Method Blank

1 of 1

On Site Technologies, LTD.

CLIENT: On Site Technologies Limited
Work Order: 0106018
Project: 4-1429; Conoco Shephard & Kelsey 1

Date: 04-Jul-01

QC SUMMARY REPORT

Sample Matrix Spike

QC SUMMARY REPORT										Sample Matrix Spike			
Sample ID: 0106014-03AMS	Batch ID: GC-1_010626	Test Code: SW8021B	Units: µg/L	Analysis Date 6/26/2001				Prep Date:					
Client ID:	Run ID: GC-1_010626A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual		
Analyte	Result												
Benzene	420	5	400	29.11	97.7%	70	130						
Ethylbenzene	532.6	5	400	81.25	112.8%	70	130						
m,p-Xylene	2918	10	800	2062	107.0%	70	130						
Methyl tert-Butyl Ether	396.6	10	400	1.349	98.8%	70	130						
o-Xylene	424	5	400	2.196	105.4%	70	130						
Toluene	429.3	5	400	11.43	104.5%	70	130						
Sample ID: 0106014-03AMSD	Batch ID: GC-1_010626	Test Code: SW8021B	Units: µg/L	Analysis Date 6/26/2001				Prep Date:					
Client ID:	Run ID: GC-1_010626A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual		
Analyte	Result												
Benzene	412.5	5	400	29.11	95.9%	70	130						
Ethylbenzene	524.7	5	400	81.25	110.9%	70	130						
m,p-Xylene	2860	10	800	2062	99.8%	70	130						
Methyl tert-Butyl Ether	395.6	10	400	1.349	98.6%	70	130						
o-Xylene	417.1	5	400	2.196	103.7%	70	130						
Toluene	419.1	5	400	11.43	101.9%	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

QC SUMMARY REPORT
Sample Matrix Spike

CLIENT: On Site Technologies Limited
Work Order: 0106018
Project: 4-1429; Conoco Shephard & Kelsey 1

Sample ID: 0106014-02AMSD		Batch ID: GC-1_010627	Test Code: SWB021B	Units: µg/L			Analysis Date 6/27/2001		Prep Date:					
Client ID:		Run ID:	GC-1_010627A		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
	Analyte	Result												
Benzene		818.1	10	800	22.78	99.4%	70	70	130					
Ethylbenzene		1299	10	800	491.4	100.9%	70	70	130					
m,p-Xylene		5471	20	1600	3944	95.4%	70	70	130					
Methyl tert-Butyl Ether		780.8	20	800	0	97.6%	70	70	130					
o-Xylene		834.8	10	800	4.008	103.8%	70	70	130					
Toluene		827.2	10	800	4.98	102.8%	70	70	130					
Sample ID: 0106014-02AMSD		Batch ID: GC-1_010627	Test Code: SWB021B	Units: µg/L			Analysis Date 6/27/2001		Prep Date:					
Client ID:		Run ID:	GC-1_010627A											
	Analyte	Result												
Benzene		807.8	10	800	22.78	98.1%	70	70	130					
Ethylbenzene		1281	10	800	491.4	98.7%	70	70	130					
m,p-Xylene		5382	20	1600	3944	89.9%	70	70	130					
Methyl tert-Butyl Ether		780.7	20	800	0	97.6%	70	70	130					
o-Xylene		826.7	10	800	4.008	102.8%	70	70	130					
Toluene		816.4	10	800	4.98	101.4%	70	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.

CLIENT: On Site Technologies Limited
Work Order: 0106018
Project: 4-1429; Conoco Shephard & Kelsey 1

QC SUMMARY REPORT

Laboratory Control Spike - generic

Date: 04-Jul-01

Sample ID: LCS WATER							Analysis Date 6/26/2001							Prep Date:									
Client ID:		Batch ID: GC-1_010626		Test Code: SW8021B		Units: µg/L		SeqNo:		Analysis Date 6/26/2001		Prep Date:											
Analyte		Result		PQL		SPK value		SPK Ref Val		%REC		LowLimit		HighLimit		RPD Ref Val		%RPD		RPDLimit		Qual	
Benzene		41.01	0.5	40	0	0.2547	102.5%	80	120														
Ethylbenzene		42.36	0.5	40	0.2921	105.3%	80	120															
m,p-Xylene		82.97	1	80	0.2921	103.3%	80	120															
Methyl tert-Butyl Ether		40.18	1	40	0	100.5%	80	120															
o-Xylene		42.49	0.5	40	0.3507	105.3%	80	120															
Toluene		41.71	0.5	40	0.116	104.0%	80	120															
Sample ID: LCS WATER							Analysis Date 6/27/2001							Prep Date:									
Client ID:		Batch ID: GC-1_010627		Test Code: SW8021B		Units: µg/L		SeqNo:		Analysis Date 6/27/2001		Prep Date:											
Analyte		Result		PQL		SPK value		SPK Ref Val		%REC		LowLimit		HighLimit		RPD Ref Val		%RPD		RPDLimit		Qual	
Benzene		42.76	0.5	40	0	106.9%	80	120															
Ethylbenzene		43.26	0.5	40	0.118	107.8%	80	120															
m,p-Xylene		84.62	1	80	0.1558	105.6%	80	120															
Methyl tert-Butyl Ether		41.6	1	40	0	104.0%	80	120															
o-Xylene		43.25	0.5	40	0	108.1%	80	120															
Toluene		42.8	0.5	40	0.0835	106.8%	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
I of I

On Site Technologies, LTD.

CLIENT: On Site Technologies Limited

Work Order: 0106018

Project: 4-1429; Conoco Shephard & Kelsey 1

Date: 04-Jul-01

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV1_BTEX_0105	Batch ID: GC-1_010626	Test Code: SW8021B	Units: µg/L			Analysis Date: 6/26/2001	SeqNo: 39191	Prep Date:
Client ID: 0106018	Run ID: GC-1_010626A							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val
Benzene	21.92	0.5	20	0	109.6%	85	115	
Ethylbenzene	22.96	0.5	20	0	114.8%	85	115	
m,p-Xylene	45.32	1	40	0	113.3%	85	115	
Methyl tert-Butyl Ether	20.94	1	20	0	104.7%	85	115	
o-Xylene	22.7	0.5	20	0	113.5%	85	115	
Toluene	22.42	0.5	20	0	112.1%	85	115	
1,4-Difluorobenzene	113.7	0	120	0	94.7%	70	130	
4-Bromochlorobenzene	129.3	0	120	0	107.7%	70	130	
Fluorobenzene	112	0	120	0	93.4%	70	130	

Sample ID: CCV2_BTEX_0105	Batch ID: GC-1_010626	Test Code: SW8021B	Units: µg/L			Analysis Date: 6/26/2001	SeqNo: 39192	Prep Date:
Client ID: 0106018	Run ID: GC-1_010626A							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val
Benzene	20.31	0.5	20	0	101.5%	85	115	
Ethylbenzene	21.8	0.5	20	0	109.0%	85	115	
m,p-Xylene	42.4	1	40	0	106.0%	85	115	
Methyl tert-Butyl Ether	20.69	1	20	0	103.5%	85	115	
o-Xylene	21.35	0.5	20	0	106.7%	85	115	
Toluene	20.78	0.5	20	0	103.9%	85	115	
1,4-Difluorobenzene	113.3	0	120	0	94.4%	70	130	
4-Bromochlorobenzene	123.5	0	120	0	102.9%	70	130	
Fluorobenzene	111.6	0	120	0	93.0%	70	130	

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

I of 3

CLIENT: On Site Technologies Limited
Work Order: 0106018
Project: 4-1429; Conoco Shephard & Kelsey 1

QC SUMMARY REPORT
Continuing Calibration Verification Standard

Sample ID: CCV3 BTEX_0105		Batch ID: GC-1_010626	Test Code: SW8021B	Units: µg/L	Analysis Date 6/26/2001		Prep Date:				
Client ID:		Run ID: 0106018	Run ID: GC-1_010626A		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte		Result	PQL	SPK value	SPK Ref Val						
Benzene		40.72	0.5	40	0	101.8%	85	115			
Ethylbenzene		41.76	0.5	40	0	104.4%	85	115			
m,p-Xylene		81.55	1	80	0	101.9%	85	115			
Methyl tert-Butyl Ether		40.37	1	40	0	100.9%	85	115			
o-Xylene		42.06	0.5	40	0	105.2%	85	115			
Toluene		41.18	0.5	40	0	103.0%	85	115			
1,4-Difluorobenzene		113.3	0	120	0	94.4%	70	130			
4-Bromochlorobenzene		123.2	0	120	0	102.7%	70	130			
Fluorobenzene		112.2	0	120	0	93.5%	70	130			

Sample ID: CCV1 BTEX_0105		Batch ID: GC-1_010627	Test Code: SW8021B	Units: µg/L	Analysis Date 6/27/2001		Prep Date:				
Client ID:		Run ID: 0106018	Run ID: GC-1_010627A		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte		Result	PQL	SPK value	SPK Ref Val						
Benzene		21.38	0.5	20	0	106.9%	85	115			
Ethylbenzene		22.26	0.5	20	0	111.3%	85	115			
m,p-Xylene		43.85	1	40	0	109.6%	85	115			
Methyl tert-Butyl Ether		20.24	1	20	0	101.2%	85	115			
o-Xylene		22.25	0.5	20	0	111.2%	85	115			
Toluene		21.87	0.5	20	0	109.3%	85	115			
1,4-Difluorobenzene		112.1	0	120	0	93.4%	70	130			
4-Bromochlorobenzene		122.8	0	120	0	102.4%	70	130			
Fluorobenzene		112.6	0	120	0	93.8%	70	130			

Quantifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

QC SUMMARY REPORT
Continuing Calibration Verification Standard

CLIENT: On Site Technologies Limited
Work Order: 0106018
Project: 4-1429; Conoco Shephard & Kelsey 1

Sample ID:	CCV2 BTEX_0105	Batch ID:	GC-1_010627	Test Code:	SW8021B	Units:	µg/L				Analysis Date:	6/27/2001	Prep Date:	
Client ID:		Run ID:	GC-1_010627A								SeqNo:	39236		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC		LowLimit	HighLimit	RPD Ref Val		%RPD	RPDLimit	Qual
Benzene		20.62	0.5	20	0	103.1%		85	115					
Ethylbenzene		21.42	0.5	20	0	107.1%		85	115					
m,p-Xylene		42.33	1	40	0	105.8%		85	115					
Methyl tert-Butyl Ether		20.54	1	20	0	102.7%		85	115					
o-Xylene		21.69	0.5	20	0	108.4%		85	115					
Toluene		21.2	0.5	20	0	106.0%		85	115					
1,4-Difluorobenzene		113	0	120	0	94.2%		70	130					
4-Bromochlorobenzene		121.3	0	120	0	101.1%		70	130					
Fluorobenzene		111.7	0	120	0	93.1%		70	130					
Sample ID:	CCV3 BTEX_0105	Batch ID:	GC-1_010627	Test Code:	SW8021B	Units:	µg/L				Analysis Date:	6/27/2001	Prep Date:	
Client ID:		Run ID:	GC-1_010627A								SeqNo:	39237		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC		LowLimit	HighLimit	RPD Ref Val		%RPD	RPDLimit	Qual
Benzene		39.57	0.5	40	0	98.9%		85	115					
Ethylbenzene		41.04	0.5	40	0	102.6%		85	115					
m,p-Xylene		80.35	1	80	0	100.4%		85	115					
Methyl tert-Butyl Ether		38.87	1	40	0	97.2%		85	115					
o-Xylene		41.33	0.5	40	0	103.3%		85	115					
Toluene		40.4	0.5	40	0	101.0%		85	115					
1,4-Difluorobenzene		112.8	0	120	0	94.0%		70	130					
4-Bromochlorobenzene		124.6	0	120	0	103.8%		70	130					
Fluorobenzene		111.9	0	120	0	93.2%		70	130					

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

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

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 04-Jul-01

CLIENT: On Site Technologies Limited

Work Order: 0106018

Project: 4-1429; Conoco Shephard & Kelsey

Test No: SW8021B

**QC SUMMARY REPORT
SURROGATE RECOVERIES**

Aromatic Volatiles by GC/PID

Sample ID	14FBZ	4BCBZ	FLBZ
0106014-01A	93.8	113	93.6
0106014-02A	94.8	102	93.6
0106014-02AMS	93	103	93.2
0106014-02AMSD	94	103	92.9
0106014-03A	92.6	102	93.6
0106014-03AMS	91.8	103	91.3
0106014-03AMSD	92	104	91.1
0106014-04A	91.3	112	90.6
0106015-01A	91.5	96.6	93.3
0106016-01A	93.4	102	94
0106016-02A	94	103	93.6
0106016-03A	93.8	101	92.9
0106016-04A	91.7	100	91.9
0106017-01A	96.8	104	95.8
0106018-01A	92.7	100	96
0106018-02A	94.3	105	94.4
0106037-01A	95.7	104	94
0106037-02A	89.8	96.3	89.7
0106037-03A	93.2	99.6	91.9
0106037-04A	91.5	97.9	91
0106037-05A	93.8	99.2	91.9
0106037-06A	95.7	102	94
0106037-07A	92.8	100	93.7
0106037-08A	94.1	98	93
0106037-09A	95.2	98.9	93.8
0106037-10A	95.6	103	94.1
0106037-11A	95.2	101	93.6

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

* Surrogate recovery outside acceptance limits

CLIENT: On Site Technologies Limited
Work Order: 0106018
Project: 4-1429; Conoco Shephard & Kelsey
Test No: SW8021B

QC SUMMARY REPORT
SURROGATE RECOVERIES

Aromatic Volatiles by GC/PID

Sample ID	14FBZ	4BCBZ	FLBZ
0106037-12A	94.1	109	92.5
0106037-13A	92.6	102	93.5
0106040-01A	94.9	103	93.1
0106040-02A	93.6	105	94.6
0106040-04A	94.5	101	94
0106040-05A	95.2	102	93.7
0106040-06A	93.6	101	94.2
CCV1 BTEX_01052	93.4	102	93.8
CCV2 BTEX_01052	94.2	101	93.1
CCV3 BTEX_01052	94	104	93.2
LCS WATER	94.3	105	92.9
MB1	94.9	104	94.3

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



CHAIN OF CUSTODY RECORD

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

Date: _____

Page: _____ of _____

Purchase Order No.:		Project No.:		Name _____ Company _____		Name _____ Company _____																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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Distribution: White - On Site Yellow - LAB Pink - Sampler Goldentrod - Client

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



OFF: (505) 325-5667
FAX: (505) 327-1496

LAB: (505) 325-1556
FAX: (505) 327-1496

September 26, 2001

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

RE: 4-1427; Conoco Shephard & Kelsy #1

Order No.: 0109026

Dear John Hagstrom,

On Site Technologies, LTD. received 3 samples on 9/19/2001 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

P.O. BOX 2606 • FARMINGTON, NM 87499

EMAIL: ONSITE@ONSITELTD.COM

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667
FAX: (505) 327-1496



LAB: (505) 325-1556
FAX: (505) 327-1496

On Site Technologies, LTD.

Date: 26-Sep-01

CLIENT: On Site Technologies Limited
Project: 4-1427; Conoco Shephard & Kelsy #1
Lab Order: 0109026

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.

Any quality control and/or data qualifiers associated with this laboratory order will be flagged in the analytical result page(s) or the quality control summary report(s).

OFF: (505) 325-5667
FAX: (505) 327-1496



LAB: (505) 325-1556
FAX: (505) 327-1496

ANALYTICAL REPORT

Date: 26-Sep-01

Client:	On Site Technologies Limited	Client Sample Info:	Shephard & Kelsey #1
Work Order:	0109026	Client Sample ID:	MW NE
Lab ID:	0109026-01A	Matrix:	AQUEOUS
Project:	4-1427; Conoco Shephard & Kelsy #1	Collection Date:	9/19/2001 12:00:00 PM
		COC Record:	11550

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
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AROMATIC VOLATILES BY GC/PID						SW8021B	Analyst: HR
Benzene	24	0.5		µg/L	1	9/22/2001	
Toluene	0.7	0.5		µg/L	1	9/22/2001	
Ethylbenzene	18	0.5		µg/L	1	9/22/2001	
m,p-Xylene	21	1		µg/L	1	9/22/2001	
o-Xylene	5.5	0.5		µg/L	1	9/22/2001	

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 3

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EMAIL: ONSITE@ONSITELTD.COM

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667
FAX: (505) 327-1496



LAB: (505) 325-1556
FAX: (505) 327-1496

ANALYTICAL REPORT

Date: 26-Sep-01

Client:	On Site Technologies Limited	Client Sample Info:	Shephard & Kelsey #1
Work Order:	0109026	Client Sample ID:	SB 12
Lab ID:	0109026-02A	Matrix:	AQUEOUS
Project:	4-1427; Conoco Shephard & Kelsy #1	Collection Date:	9/19/2001 12:28:00 PM
		COC Record:	11550

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID						
Benzene	110	5		µg/L	10	9/23/2001
Toluene	ND	5		µg/L	10	9/23/2001
Ethylbenzene	120	5		µg/L	10	9/23/2001
m,p-Xylene	810	10		µg/L	10	9/23/2001
o-Xylene	ND	5		µg/L	10	9/23/2001

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
Surf: - Surrogate

2 of 3

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667
FAX: (505) 327-1496



LAB: (505) 325-1556
FAX: (505) 327-1496

ANALYTICAL REPORT

Date: 26-Sep-01

Client:	On Site Technologies Limited	Client Sample Info:	Shephard & Kelsey #1
Work Order:	0109026	Client Sample ID:	DG 1
Lab ID:	0109026-03A	Matrix:	AQUEOUS
Project:	4-1427; Conoco Shephard & Kelsy #1	Collection Date:	9/19/2001 12:40:00 PM
		COC Record:	11550

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
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AROMATIC VOLATILES BY GC/PID						SW8021B	Analyst: HR
Benzene	ND	0.5		µg/L	1	9/22/2001	
Toluene	ND	0.5		µg/L	1	9/22/2001	
Ethylbenzene	ND	0.5		µg/L	1	9/22/2001	
m,p-Xylene	ND	1		µg/L	1	9/22/2001	
o-Xylene	ND	0.5		µg/L	1	9/22/2001	

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	Surf: - Surrogate

3 of 3

P.O. BOX 2606 • FARMINGTON, NM 87499

EMAIL: ONSITE@ONSITELTD.COM

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

On Site Technologies, LTD.

CLIENT: On Site Technologies Limited
Work Order: 0109026
Project: 4-1427; Conoco Shephard & Kelsy #1

Date: 26-Sep-01

QC SUMMARY REPORT

Method Blank

Sample ID: MB1	Batch ID: GC-1_010922	Test Code: SW8021B	Units: µg/L	Analysis Date 9/22/2001			Prep Date:				
Client ID:	Run ID: GC-1_010922A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte	Result										
Benzene	.0521	0.5									J
Ethylbenzene	.2728	0.5									J
m,p-Xylene	ND	1									J
Methyl tert-Butyl Ether	.3639	1									J
o-Xylene	ND	0.5									J
Toluene	.1163	0.5									J

Sample ID: MB1	Batch ID: GC-1_010923	Test Code: SW8021B	Units: µg/L	Analysis Date 9/23/2001			Prep Date:				
Client ID:	Run ID: GC-1_010923A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte	Result										
Benzene	.0422	0.5									J
Ethylbenzene	ND	0.5									J
m,p-Xylene	ND	1									J
Methyl tert-Butyl Ether	ND	1									J
o-Xylene	ND	0.5									J
Toluene	.1251	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
I of 1

On Site Technologies, LTD.

CLIENT: On Site Technologies Limited
Work Order: 0109026
Project: 4-1427; Conoco Shephard & Kelsy #1

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: 0109023-09AMSD Batch ID: GC-1_010922 Test Code: SW8021B Units: µg/L										Sample ID: 0109026 Batch ID: GC-1_010922A Test Code: SW8021B Units: µg/L										Sample Matrix Spike												
Client ID:		Run ID:	GC-1_010922A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	Analysis Date	SeqNo:	42585	Prep Date:	Client ID:		Run ID:	GC-1_010922A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	Analysis Date	SeqNo:	42586	Prep Date:			
Analyte		Result													Analyte		Result															
Benzene		2174	25	2000	94.19	104.0%	78	117								Benzene		2150	25	2000	94.19	102.8%	78	117								
Ethylbenzene		2143	25	2000	53.24	104.5%	79	121								Ethylbenzene		2232	25	2000	53.24	108.9%	79	121								
m,p-Xylene		4164	50	4000	73.06	102.3%	80	115								m,p-Xylene		4337	50	4000	73.06	106.6%	80	115								
Methyl tert-Butyl Ether		4784	50	2000	3178	80.3%	84	114								Methyl tert-Butyl Ether		5116	50	2000	3178	96.9%	84	114								
o-Xylene		2090	25	2000	10.14	104.0%	88	116								o-Xylene		2181	25	2000	10.14	108.5%	88	116								
Toluene		1980	25	2000	11.38	98.4%	88	113								Toluene		2198	25	2000	11.38	109.3%	88	113								

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

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

B - Analyte detected in the associated Method Blank

CLIENT: On Site Technologies Limited
Work Order: 0109026
Project: 4-1427; Conoco Shephard & Kelsy #1

QC SUMMARY REPORT
 Sample Matrix Spike

Sample ID: 0109025-11AMSD		Batch ID: GC-1_010923		Test Code: SW8021B		Units: µg/L		Analysis Date: 9/23/2001		Prep Date:	
Client ID:		Run ID: GC-1_010923A						SeqNo: 42597			
Analyte		Result		PQL SPK value		SPK Ref Val		%REC		LowLimit HighLimit RPD Ref Val	
Benzene	206.7	2.5	200	23	91.8%	78	117				
Ethylbenzene	487.5	2.5	200	280	103.7%	79	121				
m,p-Xylene	403.9	5	400	8.8	98.8%	80	115				
Methyl tert-Butyl Ether	227.5	5	200	0	113.8%	84	114				
o-Xylene	201	2.5	200	2	99.5%	88	116				
Toluene	201.5	2.5	200	23	89.3%	88	113				
Sample ID: 0109025-11AMSD		Batch ID: GC-1_010923		Test Code: SW8021B		Units: µg/L		Analysis Date: 9/23/2001		Prep Date:	
Client ID:		Run ID: GC-1_010923A						SeqNo: 42598			
Analyte		Result		PQL SPK value		SPK Ref Val		%REC		LowLimit HighLimit RPD Ref Val	
Benzene	203.5	2.5	200	23	90.2%	78	117				
Ethylbenzene	481.4	2.5	200	280	100.7%	79	121				
m,p-Xylene	400.5	5	400	8.8	97.9%	80	115				
Methyl tert-Butyl Ether	226.9	5	200	0	113.4%	84	114				
o-Xylene	199.2	2.5	200	2	98.6%	88	116				
Toluene	205.7	2.5	200	23	91.3%	88	113				

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

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

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

CLIENT: On Site Technologies Limited
Work Order: 0109026
Project: 4-1427; Conoco Shephard & Kelsy #1

Date: 26-Sep-01

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: LCS WATER		Batch ID: GC-1_010922		Test Code: SW8021B		Units: µg/L		Analysis Date 9/22/2001		Prep Date:	
Client ID:		Run ID:	GC-1_010922A	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val
Analyte											
Benzene		41.33	0.5	40	0.0521	103.2%		92		113	
Ethylbenzene		41.29	0.5	40	0.2728	102.5%		94		114	
m,p-Xylene		80.41	1	80	0	100.5%		92		111	
Methyl tert-Butyl Ether		39.52	1	40	0.3639	97.9%		91		112	
o-Xylene		42.36	0.5	40	0	105.9%		97		112	
Toluene		41.24	0.5	40	0.1163	102.8%		95		111	
Sample ID: LCS WATER		Batch ID: GC-1_010923		Test Code: SW8021B		Units: µg/L		Analysis Date 9/23/2001		Prep Date:	
Client ID:		Run ID:	GC-1_010923A	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val
Analyte											
Benzene		42.24	0.5	40	0.0422	105.5%		92		113	
Ethylbenzene		42.53	0.5	40	0	106.3%		94		114	
m,p-Xylene		83.42	1	80	0	104.3%		92		111	
Methyl tert-Butyl Ether		39.69	1	40	0	99.2%		91		112	
o-Xylene		42.37	0.5	40	0	105.9%		97		112	
Toluene		41.99	0.5	40	0.1251	104.7%		95		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
I of I

On Site Technologies, LTD.

CLIENT: On Site Technologies Limited
Work Order: 0109026
Project: 4-1427; Conoco Shephard & Kelsy #1

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Date: 26-Sep-01

Sample ID: CCV1 BTEX_0107	Batch ID: GC-1_010922	Test Code: SW8021B	Units: µg/L		Analysis Date	9/22/2001	SeqNo:	42580	Prep Date:		
Client ID: 0109026	Run ID: GC-1_010922A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	41.8	0.5	40	0	104.5%	85	115				
Ethylbenzene	42.32	0.5	40	0	105.8%	85	115				
m,p-Xylene	83.15	1	80	0	103.9%	85	115				
Methyl tert-Butyl Ether	39.41	1	40	0	98.5%	85	115				
o-Xylene	42.33	0.5	40	0	105.8%	85	115				
Toluene	41.76	0.5	40	0	104.4%	85	115				
1,4-Difluorobenzene	113.2	0	120	0	94.3%	77	112				
4-Bromochlorobenzene	125.9	0	120	0	105.0%	88	116				
Fluorobenzene	113.5	0	120	0	94.6%	87	102				
Sample ID: CCV2 BTEX_0107	Batch ID: GC-1_010922	Test Code: SW8021B	Units: µg/L		Analysis Date	9/22/2001	SeqNo:	42581	Prep Date:		
Client ID: 0109026	Run ID: GC-1_010922A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	42.04	0.5	40	0	105.1%	85	115				
Ethylbenzene	42.31	0.5	40	0	105.8%	85	115				
m,p-Xylene	82.9	1	80	0	103.6%	85	115				
Methyl tert-Butyl Ether	40.34	1	40	0	100.9%	85	115				
o-Xylene	42.2	0.5	40	0	105.5%	85	115				
Toluene	41.86	0.5	40	0	104.6%	85	115				
1,4-Difluorobenzene	113.5	0	120	0	94.6%	77	112				
4-Bromochlorobenzene	125.3	0	120	0	104.4%	88	116				
Fluorobenzene	114.2	0	120	0	95.1%	87	102				

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
I of 3

CLIENT: On Site Technologies Limited
Work Order: 0109026
Project: 4-1427; Conoco Shephard & Kelsy #1

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV3 BTEX_0107		Batch ID: GC-1_010922	Test Code: SW8021B	Units: µg/L			Analysis Date 9/22/2001		Prep Date:		
Client ID:		Run ID:	GC-1_010922A		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte		Result	PQL	SPK value	SPK Ref Val						
Benzene		40.48	0.5	40	0	101.2%	85	115			
Ethylbenzene		40.59	0.5	40	0	101.5%	85	115			
m,p-Xylene		79.53	1	80	0	99.4%	85	115			
Methyl tert-Butyl Ether		40.1	1	40	0	100.3%	85	115			
o-Xylene		40.82	0.5	40	0	102.1%	85	115			
Toluene		40.26	0.5	40	0	100.6%	85	115			
1,4-Difluorobenzene		11.3	0	120	0	94.2%	77	112			
4-Bromochlorobenzene		126.3	0	120	0	105.2%	88	116			
Fluorobenzene		114.2	0	120	0	95.2%	87	102			
Sample ID: CCV1 BTEX_0109		Batch ID: GC-1_010923	Test Code: SW8021B	Units: µg/L			Analysis Date 9/23/2001		Prep Date:		
Client ID:		Run ID:	GC-1_010923A		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte		Result	PQL	SPK value	SPK Ref Val						
Benzene		40.18	0.5	40	0	100.5%	85	115			
Ethylbenzene		40.44	0.5	40	0	101.1%	85	115			
m,p-Xylene		79.25	1	80	0	99.1%	85	115			
Methyl tert-Butyl Ether		37.8	1	40	0	94.5%	85	115			
o-Xylene		40.29	0.5	40	0	100.7%	85	115			
Toluene		39.92	0.5	40	0	99.8%	85	115			
1,4-Difluorobenzene		113.5	0	120	0	94.6%	77	112			
4-Bromochlorobenzene		127.1	0	120	0	105.9%	88	116			
Fluorobenzene		114.8	0	120	0	95.6%	87	102			

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: On Site Technologies Limited
Work Order: 0109026
Project: 4-1427, Conoco Shephard & Kelsy #1

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV2_BTEX_0109	Batch ID: GC-1_010923	Test Code: SW8021B	Units: µg/L									Analysis Date 9/23/2001	Prep Date:
Client ID:	Run ID:	GC-1_010923A										SeqNo: 42594	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD	Ref Val	%RPD	RPDLimit	Qual	
Benzene	40.86	0.5	40	0	102.2%	85	115						
Ethylbenzene	41.15	0.5	40	0	102.9%	85	115						
m,p-Xylene	80.56	1	80	0	100.7%	85	115						
Methyl tert-Butyl Ether	39.41	1	40	0	98.5%	85	115						
o-Xylene	41	0.5	40	0	102.5%	85	115						
Toluene	40.69	0.5	40	0	101.7%	85	115						
1,4-Difluorobenzene	113.5	0	120	0	94.6%	77	112						
4-Bromochlorobenzene	126.7	0	120	0	105.6%	88	116						
Fluorobenzene	114.7	0	120	0	95.6%	87	102						

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: 26-Sep-01

CLIENT: On Site Technologies Limited

Work Order: 0109026

Project: 4-1427; Conoco Shephard & Kelsy

Test No: SW8021B

**QC SUMMARY REPORT
SURROGATE RECOVERIES**

Aromatic Volatiles by GC/PID

Sample ID	14FBZ	4BCBZ	FLBZ
0109001-01A	96	108	97.5
0109023-09A	95.4	105	96.4
0109023-09AMS	94.8	105	95
0109023-09AMSD	99	110	95.6
0109025-09A	95.9	106	96.9
0109025-10A	95.7	112	96.6
0109025-11A	94	98.8	93.1
0109025-11AMS	90.2	104	93.7
0109025-11AMSD	90.6	101	96.9
0109025-12A	97.7	104	100
0109025-13A	95.7	107	96.2
0109026-01A	92.8	108	94.8
0109026-02A	91.6	101	93.5
0109026-03A	95.5	107	97
0109027-01A	96	104	96.9
0109027-02A	95.6	105	96.7
0109027-03A	91.9	105	93.7
0109027-04A	92.5	106	93.6
0109028-01A	89.6	104	90.8
0109030-12A	95.8	105	97
0109030-19A	96.3	106	96.9
CCV1 BTEX_01070	94.3	105	94.6
CCV1 BTEX_01092	94.6	106	95.6
CCV2 BTEX_01070	94.6	104	95.1
CCV2 BTEX_01092	94.6	106	95.6
CCV3 BTEX_01070	94.2	105	95.2
LCS WATER	94.6	106	95.5

Acronym	Surrogate	QC Limits
14FBZ	= 1,4-Difluorobenzene	77-112
4BCBZ	= 4-Bromochlorobenzene	88-116
FLBZ	= Fluorobenzene	87-102

* Surrogate recovery outside acceptance limits

CLIENT: On Site Technologies Limited
Work Order: 0109026
Project: 4-1427; Conoco Shephard & Kelsy
Test No: SW8021B

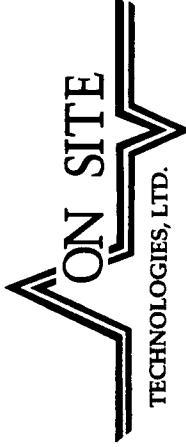
QC SUMMARY REPORT
SURROGATE RECOVERIES
Aromatic Volatiles by GC/PID

Sample ID	14FBZ	4BCBZ	FLBZ
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MB1	95.6	104	97
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Acronym	Surrogate	QC Limits
14FBZ	= 1,4-Difluorobenzene	77-112
4BCBZ	= 4-Bromochlorobenzene	88-116
FLBZ	= Fluorobenzene	87-102

* Surrogate recovery outside acceptance limits



ON SITE TECHNOLOGIES, LTD.

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

CHAIN OF CUSTODY RECORD

Date: 7/1/97

Page: 1 of 1

Purchase Order No.:	Project No. <u>1001-0001</u>			Name	Title					
INVOICE TO			Company			Name				
SEND TO			Mailing Address			Company				
Address			City, State, Zip			Mailing Address				
City, State, Zip			Telephone No.			City, State, Zip				
PROJECT LOCATION: <u>East Side of Main Street</u>			Telephone No.			Telephone No.				
ANALYSIS REQUESTED										
REPORT TO			Number of Containers			LAB ID				
			SAMPLE	DATE	TIME	MATRIX	PRES.			
SAMPLE IDENTIFICATION										
SAMPLER'S SIGNATURE: <u>John Doe</u>										
PROJECT LOCATION: <u>East Side of Main Street</u>										
ANALYSIS REQUESTED										
REPORT TO										
Number of Containers										
LAB ID										
Reinquished by:	Date/Time:	Received by:	Date/Time:	Reinquished by:	Date/Time:	Received by:	Date/Time:	Reinquished by:	Date/Time:	
Reinquished by:	Date/Time:	Received by:	Date/Time:	Reinquished by:	Date/Time:	Received by:	Date/Time:	Method of Shipment:		
Authorized by:	Date:	Special Instructions / Remarks:	(Client Signature Must Accompany Request)							
Distribution: White - On Site Yellow - LAB Pink - Sampler Goldenrod - Client										
To Re-order Call 325-9800 or Fax 325-9744 alphaGraphix • FORM # 10										



CHAIN OF CUSTODY RECORD

Date: 1/15/01612 E. Murray Dr. • P.O. Box 2606 • Farmington, NM 87499
LAB: (505) 325-5667 • FAX: (505) 327-1496

Purchase Order No.:		Project No. (1-11-11)		Name		Title		
SEND INVOICE TO	Company	Address	City, State, Zip	Telephone No.	Mailing Address	City, State, Zip	Telefax No.	
	REPORT RESULTS TO							
	ANALYSIS REQUESTED							
	PROJECT LOCATION: <i>On-Site Sampling Lab</i>							
SAMPLER'S SIGNATURE: <i>[Signature]</i>								
SAMPLE IDENTIFICATION								
		SAMPLE		DATE		TIME	MATRIX	
							PRES.	
Relinquished by:		Received by:		Date/Time:		Date/Time:		
Relinquished by:		Received by:		Date/Time:		Date/Time:		
Relinquished by:		Received by:		Date/Time:		Date/Time:		
Method of Shipment:		Rush	24-48 Hours	10 Working Days	By Date			
Authorized by: <u>John H. Johnson</u> Date <u>1/15/01</u> (Client Signature Must Accompany Request)								
Special Instructions / Remarks: <i>[Large handwritten area for notes]</i>								

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

To Re-Order Call 325-9600 or Fax 325-9764 **AlphaGraphics** FORM #01



OFF: (505) 325-5667
FAX: (505) 327-1496

LAB: (505) 325-1556
FAX: (505) 327-1496

December 17, 2001

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

RE: 2-1362; Conoco Shephard & Kelsey 1

Order No.: 0112015

Dear John Hagstrom,

On Site Technologies, LTD. received 3 samples on 12/13/2001 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 "JC".

David Cox



OFF: (505) 325-5667
FAX: (505) 327-1496

LAB: (505) 325-1556
FAX: (505) 327-1496

On Site Technologies, LTD.

Date: 17-Dec-01

CLIENT: On Site Technologies Limited
Project: 2-1362; Conoco Shephard & Kelsey 1
Lab Order: 0112015

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.

Any quality control and/or data qualifiers associated with this laboratory order will be flagged in the analytical result page(s) or the quality control summary report(s).



OFF: (505) 325-5667
FAX: (505) 327-1496

LAB: (505) 325-1556
FAX: (505) 327-1496

ANALYTICAL REPORT

Date: 17-Dec-01

Client:	On Site Technologies Limited	Client Sample Info:	Conoco Shephard & Kelsey 1
Work Order:	0112015	Client Sample ID:	MW-NE
Lab ID:	0112015-01A	Matrix:	AQUEOUS
Project:	2-1362; Conoco Shephard & Kelsey 1	Collection Date:	12/13/2001 12:15:00 PM
		COC Record:	11695

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
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AROMATIC VOLATILES BY GC/PID		SW8021B			Analyst: HNR	
		10	0.5	µg/L	1	12/15/2001
Benzene		ND	0.5	µg/L	1	12/15/2001
Toluene		6	0.5	µg/L	1	12/15/2001
Ethylbenzene		4.1	1	µg/L	1	12/15/2001
m,p-Xylene		0.6	0.5	µg/L	1	12/15/2001
o-Xylene						

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 3

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EMAIL: ONSITE@ONSITELTD.COM

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -



OFF: (505) 325-5667
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FAX: (505) 327-1496

ANALYTICAL REPORT

Date: 17-Dec-01

Client:	On Site Technologies Limited	Client Sample Info:	Conoco Shephard & Kelsey 1
Work Order:	0112015	Client Sample ID:	SB-12
Lab ID:	0112015-02A	Matrix:	AQUEOUS
Project:	2-1362; Conoco Shephard & Kelsey 1	Collection Date:	12/13/2001 12:35:00 PM
		COC Record:	11695

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID						
			SW8021B			Analyst: HNR
Benzene	28	0.5		µg/L	1	12/15/2001
Toluene	ND	0.5		µg/L	1	12/15/2001
Ethylbenzene	63	0.5		µg/L	1	12/15/2001
m,p-Xylene	320	1		µg/L	1	12/15/2001
o-Xylene	2.9	0.5		µg/L	1	12/15/2001

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

2 of 3

P.O. BOX 2606 • FARMINGTON, NM 87499

EMAIL: ONSITE@ONSITELTD.COM

- TECHNOLOGY BLANDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667
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ON SITE
TECHNOLOGIES, LTD.

LAB: (505) 325-1556
FAX: (505) 327-1496

ANALYTICAL REPORT

Date: 17-Dec-01

Client:	On Site Technologies Limited	Client Sample Info:	Conoco Shephard & Kelsey 1
Work Order:	0112015	Client Sample ID:	DG-1
Lab ID:	0112015-03A	Matrix:	AQUEOUS
Project:	2-1362; Conoco Shephard & Kelsey 1	Collection Date:	12/13/2001 12:55:00 PM
		COC Record:	11695

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
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AROMATIC VOLATILES BY GC/PID		SW8021B				Analyst: HNR
Benzene	ND	0.5	µg/L	1	12/15/2001	
Toluene	ND	0.5	µg/L	1	12/15/2001	
Ethylbenzene	ND	0.5	µg/L	1	12/15/2001	
m,p-Xylene	ND	1	µg/L	1	12/15/2001	
o-Xylene	ND	0.5	µg/L	1	12/15/2001	

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

3 of 3

P.O. BOX 2606 • FARMINGTON, NM 87499

EMAIL: ONSITE@ONSITELTD.COM

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

On Site Technologies, Ltd.

Date: 17-Dec-01

QC SUMMARY REPORT
Method Blank

CLIENT: On Site Technologies Limited
Work Order: 0112015
Project: 2-1362; Conoco Shephard & Kelsey 1

Sample ID: MB_011215	Batch ID: GC-1_011215	Test Code: SW8021B	Units: µg/L	Analysis Date 12/15/2001				Prep Date: 12/15/01		
Client ID:	Run ID: 0112015	GC-1_011215A	SeqNo: 45894	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte	Result	PQL	SPK value	SPK Ref Val						
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	ND	0.5								
1,4-Difluorobenzene	102.1	0								
4-Bromochlorobenzene	112.6	0								
Fluorobenzene	102	0								

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: 0112015
Project: 2-1362; Conoco Shephard & Kelsey 1

Date: 17-Dec-01

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: 0112009-09AMS							Sample ID: 0112015							Sample ID: 011215A							Sample ID: 011215B							Analysis Date 12/15/2001							Prep Date: 12/15/01						
Client ID:			Run ID:			Test Code:			Units: µg/L			SeqNo:			Analysis Date			LowLimit			HighLimit			RPD Ref Val			%RPD			RPDLimit			Qual								
Analyte			Result			PQL			SPK value			SPK Ref Val			%REC																										
Benzene		1866	25		2000	20		92.3%		70		130																													
Ethylbenzene		1793	25		2000	10		89.2%		70		130																													
m,p-Xylene		2279	50		4000	10		56.7%		70		130																			S										
Methyl tert-Butyl Ether		2575	50		2000	560		100.7%		70		130																													
o-Xylene		1829	25		2000	0		91.5%		70		130																													
Toluene		1833	25		2000	30		90.1%		70		130																													
1,4-Difluorobenzene		5131	0		5500	0		93.3%		77		112																													
4-Bromochlorobenzene		5752	0		5500	0		104.6%		88		116																													
Fluorobenzene		5209	0		5500	0		94.7%		87		102																													
Sample ID: 0112009-09AMSD							Batch ID: GC-1_011215							Test Code: SW8021B							Units: µg/L							Analysis Date 12/15/2001							Prep Date: 12/15/01						
Client ID:			Run ID:			Test Code:			Units: µg/L			SeqNo:			Analysis Date			LowLimit			HighLimit			RPD Ref Val			%RPD			RPDLimit			Qual								
Analyte			Result			PQL			SPK value			SPK Ref Val			%REC																										
Benzene		1812	25		2000	20		89.6%		70		130																													
Ethylbenzene		1753	25		2000	10		87.1%		70		130																			6										
m,p-Xylene		2226	50		4000	10		55.4%		70		130																			7										
Methyl tert-Butyl Ether		2549	50		2000	560		99.4%		70		130																			S										
o-Xylene		1783	25		2000	0		89.1%		70		130																			5										
Toluene		1771	25		2000	30		87.0%		70		130																			6										
1,4-Difluorobenzene		5130	0		5500	0		93.3%		77		112																			0										
4-Bromochlorobenzene		5702	0		5500	0		103.7%		88		116																			0										
Fluorobenzene		5171	0		5500	0		94.0%		87		102																			0										

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
I of I

On Site Technologies, Ltd.

Date: 17-Dec-01

QC SUMMARY REPORT
Laboratory Control Spike - generic

CLIENT: On Site Technologies Limited
Work Order: 0112015
Project: 2-1362; Conoco Shephard & Kelsey 1

Sample ID: LCS_011215	Batch ID: GC-1_011215	Test Code: SW8021B	Units: µg/L	Analysis Date 12/15/2001			Prep Date: 12/15/01				
Client ID:	Run ID: GC-1_011215A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte	Result										
Benzene	36.56	0.5	40	0	91.4%	80	120				
Ethylbenzene	36.68	0.5	40	0	91.7%	80	120				
m,p-Xylene	76.03	1	80	0	95.0%	80	120				
Methyl tert-Butyl Ether	39.98	1	40	0	100.0%	80	120				
o-Xylene	38.68	0.5	40	0	96.7%	80	120				
Toluene	36.89	0.5	40	0	92.2%	80	120				
1,4-Difluorobenzene	101	0	110	0	91.8%	77	112				
4-Bromochlorobenzene	112.6	0	110	0	102.4%	88	116				
Fluorobenzene	103.1	0	110	0	93.7%	87	102				

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
I of I

On Site Technologies, Ltd.

Date: 17-Dec-01

CLIENT: On Site Technologies Limited
Work Order: 0112015
Project: 2-1362; Conoco Shephard & Kelsey 1

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV1_011215	Batch ID: GC-1_011215	Test Code: SW8021B	Units: µg/L	Analysis Date 12/15/2001			Prep Date: 12/15/01		
Client ID:	Run ID: 0112015	Run ID: GC-1_011215A		SeqNo:	45888				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD
Benzene	18.58	0.5	20	0	92.9%	85	115		
Ethylbenzene	18.92	0.5	20	0	94.6%	85	115		
m,p-Xylene	38.68	1	40	0	96.7%	85	115		
Methyl tert-Butyl Ether	20.89	1	20	0	104.5%	85	115		
o-Xylene	19.9	0.5	20	0	99.5%	85	115		
Toluene	18.67	0.5	20	0	93.3%	85	115		
1,4-Difluorobenzene	101.8	0	110	0	92.6%	77	112		
4-Bromochlorobenzene	112.5	0	110	0	102.3%	88	116		
Fluorobenzene	103.6	0	110	0	94.2%	87	102		
Sample ID: CCV2_011215	Batch ID: GC-1_011215	Test Code: SW8021B	Units: µg/L	Analysis Date 12/15/2001			Prep Date: 12/15/01		
Client ID:	Run ID: 0112015	Run ID: GC-1_011215A		SeqNo:	45889				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD
Benzene	18.08	0.5	20	0	90.4%	85	115		
Ethylbenzene	17.94	0.5	20	0	89.7%	85	115		
m,p-Xylene	36.74	1	40	0	91.8%	85	115		
Methyl tert-Butyl Ether	20.46	1	20	0	102.3%	85	115		
o-Xylene	18.83	0.5	20	0	94.1%	85	115		
Toluene	18.12	0.5	20	0	90.6%	85	115		
1,4-Difluorobenzene	103.1	0	110	0	93.7%	77	112		
4-Bromochlorobenzene	114.4	0	110	0	104.1%	88	116		
Fluorobenzene	104.5	0	110	0	95.0%	87	102		

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

I of 3

CLIENT: On Site Technologies Limited
Work Order: 0112015
Project: 2-1362; Conoco Shephard & Kelsey 1

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV3_011215		Batch ID: GC-1_011215		Test Code: SW8021B		Units: µg/L		Analysis Date 12/15/2001		Prep Date: 12/15/01				
Client ID:		Run ID:	GC-1_011215A	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene				36.84	0.5	40	0	92.1%	85	115				
Ethylbenzene				36.2	0.5	40	0	90.5%	85	115				
m,p-Xylene				75.27	1	80	0	94.1%	85	115				
Methyl tert-Butyl Ether				39.04	1	40	0	97.6%	85	115				
o-Xylene				38.14	0.5	40	0	95.4%	85	115				
Toluene				36.72	0.5	40	0	91.8%	85	115				
1,4-Difluorobenzene				101.6	0	110	0	92.4%	77	112				
4-Bromochlorobenzene				110.6	0	110	0	100.5%	88	116				
Fluorobenzene				103.1	0	110	0	93.8%	87	102				
Sample ID: CCV4_011215		Batch ID: GC-1_011215		Test Code: SW8021B		Units: µg/L		Analysis Date 12/15/2001		Prep Date: 12/15/01				
Client ID:		Run ID:	GC-1_011215A	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene				19.11	0.5	20	0	95.5%	85	115				
Ethylbenzene				19.15	0.5	20	0	95.8%	85	115				
m,p-Xylene				39.66	1	40	0	99.2%	85	115				
Methyl tert-Butyl Ether				21.18	1	20	0	105.9%	85	115				
o-Xylene				20.19	0.5	20	0	100.9%	85	115				
Toluene				18.72	0.5	20	0	93.6%	85	115				
1,4-Difluorobenzene				103.2	0	110	0	93.9%	77	112				
4-Bromochlorobenzene				111.2	0	110	0	101.1%	88	116				
Fluorobenzene				104.9	0	110	0	95.3%	87	102				

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

CLIENT: On Site Technologies Limited
Work Order: 0112015
Project: 2-1362; Conoco Shephard & Kelsey 1

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV5_011215	Batch ID: GC-1_011215	Test Code: SW8021B	Units: µg/L	Analysis Date 12/15/2001			Prep Date: 12/15/01		
Client ID:	Run ID: GC-1_011215A			SeqNo:	45892		%RPD	RPDLimit	Qual
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	
Benzene	18.42	0.5	20	0	92.1%	85	115		
Ethylbenzene	18.4	0.5	20	0	92.0%	85	115		
m,p-Xylene	37.78	1	40	0	94.5%	85	115		
Methyl tert-Butyl Ether	20.74	1	20	0	103.7%	85	115		
o-Xylene	19.17	0.5	20	0	95.8%	85	115		
Toluene	18.36	0.5	20	0	91.8%	85	115		
1,4-Difluorobenzene	102	0	110	0	92.7%	77	112		
4-Bromochlorobenzene	111.8	0	110	0	101.7%	88	116		
Fluorobenzene	103.4	0	110	0	94.0%	87	102		

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: 17-Dec-01

CLIENT: On Site Technologies Limited

Work Order: 0112015

Project: 2-1362; Conoco Shephard & Kelsey 1

Test No: SW8021B

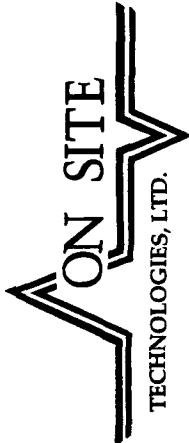
**QC SUMMARY REPORT
SURROGATE RECOVERIES**

Aromatic Volatiles by GC/PID

Sample ID	14FBZ	4BCBZ	FLBZ
0112009-01A	93.2	98.8	94.3
0112009-02A	93.4	104	94.4
0112009-03A	93.8	102	94.9
0112009-04A	94.2	105	95.1
0112009-05A	93.9	102	94.7
0112009-06A	93	103	95.1
0112009-07A	94.3	103	95.5
0112009-08A	92.6	103	94.4
0112009-09A	95.4	105	95.5
0112009-09AMS	93.3	104	94.7
0112009-09AMSD	93.3	104	94
0112010-01A	94.3	101	94.3
0112012-01A	92.5	103	93.9
0112013-01A	94.4	104	95.4
0112014-01A	84.3	98.2	94.5
0112015-01A	92.2	98.9	93.8
0112015-02A	86.6	97.5	93.6
0112015-03A	94.8	105	95.3
0112016-01A	95.2	101	95.5
CCV1_011215	92.6	102	94.2
CCV2_011215	93.7	104	95
CCV3_011215	92.4	100	93.8
CCV4_011215	93.8	101	95.3
CCV5_011215	92.7	102	94
LCS_011215	91.8	102	93.7
MB_011215	92.8	102	92.7

Acronym	Surrogate	QC Limits
14FBZ	= 1,4-Difluorobenzene	77-112
4BCBZ	= 4-Bromochlorobenzene	88-116
FLBZ	= Fluorobenzene	87-102

* Surrogate recovery outside acceptance limits



CHAIN OF CUSTODY RECORD

Date: _____
Page: _____ of _____

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

Purchase Order No.:		Project No.:		Name		Title	
Name Company		Project No.		Name Company			
Address		Dept.		Mailing Address			
City, State, Zip		Telephone No.		City, State, Zip		Telephone No.	
PROJECT LOCATION:							
ANALYSIS REQUESTED							
REPORT TO							
RESULTS TO							
Number of Containers							
SAMPLE IDENTIFICATION							
SAMPLE							
DATE		TIME		MATRIX		PRES.	
SAMPLER'S SIGNATURE:							
Relinquished by:							
Date/Time		Date/Time		Received by:		Date/Time	
Relinquished by:							
Date/Time		Date/Time		Received by:		Date/Time	
Relinquished by:							
Date/Time		Date/Time		Received by:		Date/Time	
Method of Shipment:							
Rush	24-48 Hours	10 Working Days	By Date				
Special Instructions / Remarks:							
Authorized by: _____ Date _____ (Client Signature Must Accompany Request)							
Distribution: White - On Site Yellow - LAB Pink - Sampler Goldendrod - Client							
To Re-order Call 325-9760 or Fax 325-9764 alphaGraphix* FORM # 01							



CHAIN OF CUSTODY RECORD

Date: _____

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

TECHNOLOGIES, LTD.

Page: _____ of _____

Purchase Order No.:		Project No.:		RESULTS TO		Name		Title	
Name Company Address City, State, Zip	Dept.	Mailing Address City, State, Zip	Telephone No.	Telephone No.	Telefax No.	Company	Mailing Address	City, State, Zip	Title
REPORT									
PROJECT LOCATION:									
SAMPLER'S SIGNATURE: _____									
SAMPLE IDENTIFICATION		SAMPLE		LAB ID					
		DATE	TIME	MATRIX	PRES.				
SEND OF INVOICE									
PROJECT NUMBER:									
CONTAINER NUMBER:									
ANALYSIS REQUESTED									
Number of Containers									
Special Instructions / Remarks: _____ Authorized by: _____ Date _____ (Client Signature Must Accompany Request)									
Method of Shipment:		Rush	24-48 Hours	10 Working Days	By Date				
Relinquished by:		Date/Time	Received by:		Date/Time				
Relinquished by:		Date/Time	Received by:		Date/Time				
Relinquished by:		Date/Time	Received by:		Date/Time				
Distribution: White - On Site Yellow - LAB Pink - Sampler Goldenrod - Client									