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REPORTS

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ENVIRONMENTAL BUREAU
OIL CONSERVATION DIVISION

February 26, 2001

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

RE: 2000 Annual Ground Water Report
Conoco Location: NELL-HALL #1,
Unit M, Sec. 07, T30N, R11W, NMPM, San Juan Co., NM

Project #: 2-1363

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 the calendar year of 2000, and follows the format outlined in the *Comprehensive Ground Water Remediation and Long-Term Monitoring Plan for Conoco Locations in the San Juan Basin, New Mexico* (hereafter known as the monitoring plan), submitted to the New Mexico Oil Conservation Division on October 15, 1997.

SUMMARY OF 2000 ACTIVITIES:

Ground water sampling events were conducted in March, June, September of 2000 and January 2001. Samples were not taken during the March 2000 and January 2001 sampling event, due to the lack of measurable water.

Historically ground water levels in the area fluctuate, leading to periods of the year when there is no measurable water in any of the monitoring wells and sparge points. The winter months are routinely the months with the lowest water levels.

SAMPLING:

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

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

Copies of all laboratory reports for the calendar year 2000, along with all laboratory QA/QC documentation and chains-of-custody, are attached with this report.

SUMMARY AND CONCLUSIONS:

The following conclusions are based on the 2000 ground water monitoring results and trends associated with a former production pit at the Nell-Hall #1 well location:

1. MW-1 and SP-7 continue to show BTEX contamination levels above the New Mexico Water Quality Control Commission (NMWQCC) standards.

PO Box 2606
Farmington, NM 87499

505-325-5667

FAX: 505-327-1496

2. BTEX contamination of ground water fluctuates with the fluctuation of the ground water elevation.
3. The ground water during 2000 fluctuated seasonally with changes in irrigation and flow in the Animas River.

RECOMMENDATION:

1. Continue sampling of monitoring wells and sparge points until four sampling events demonstrates that contamination levels are below NMWCC standards.

LIMITATIONS AND CLOSURE:

This annual groundwater report documents the results of ground water monitoring for the referenced Conoco well location during the calendar year 2000. This report follows the monitoring plan, 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 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, 3, 4, 5 Ground Water Potentiometric Map
 Laboratory Results, QA/QC, Chain of Custody

Conoco, Inc.: Nell-Hall #1
On Site Technologies, Ltd.
2000 Annual Ground Water Report

February 26, 2001
Project 2-1363

Acknowledgment:
CONOCO, Inc.

Dary Ledbetter Shear Specialist
(Name/Title)
2/27/01
(Date)

LET/let: 41363-99.doc

REFERENCES:

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, Nell-Hall #1, Unit M, Sec. 07, T30N, R11W, NMPPM, San Juan Co., NM.*

On Site Technologies, Ltd., February 9, 1999, letter to Ms. Shirley Ebert, SHEAR Specialist, Conoco, Inc., Midland Division, regarding 1998 Annual Ground Water Report, *Conoco Location, Nell-Hall #1, Unit M, Sec. 07, T30N, R11W, NMPPM, San Juan Co., NM.*

On Site Technologies, Ltd., January 10, 2000, letter to Ms. Shirley Ebert, SHEAR Specialist, Conoco, Inc., Midland Division, regarding 1999 Annual Ground Water Report, *Conoco Location, Nell-Hall #1, Unit M, Sec. 07, T30N, R11W, NMPPM, San Juan Co., NM*

Table1
Groundwater Level SUMMARY
Neill-Hall #1
Unit M, Sec. 07, T30N, 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#1	97.63	28.61	2" PVC	18.61 to 28.61	03/27/97	NMW	
RESURVEY 6/16/98	97.88				08/07/97	19.11	78.52
					09/16/97	21.09	76.54
					12/30/97	NMW	
					06/12/98	23.56	74.07
					6/16/98	23.56	74.32
					9/28/98	14.86	83.02
					12/30/98	29.23	68.65
					3/3/99	NMW	
					6/6/99	24.02	73.86
					9/15/99	22.88	75.00
					12/13/99	NMW	
					3/13/00	NMW	
					6/5/00	24.50	73.88
					9/11/00	15.72	84.99
					01/23/00	NMW	

BGS - approximate measurements taken as Below Ground Surface
BTOC - Below Top of Casing
NM - Not Measured
NMW - No Measurable Water

Table 1
Groundwater Level SUMMARY
 Neil-Hall #1
 Unit M, Sec. 07, T30N, 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#2	96.96	27.31	2 nd PVC	17.31 to 27.31	03/27/97	NMW	
RESURVEY 6/16/98	97.12				08/07/97	19.17	77.79
					09/16/97	20.79	76.17
					12/30/97	NMW	
					06/12/98	22.31	73.21
					6/16/98	23.66	73.46
					9/28/98	14.97	82.15
					12/30/98	NMW	
					3/3/99	NMW	
					6/6/99	23.11	74.01
					9/15/99	22.73	74.39
					12/13/99	NMW	
					3/13/00	NMW	
					6/5/00	24.99	72.13
					9/11/00	16.78	86.59
					01/23/00	NMW	

BGS - approximate measurements taken as Below Ground Surface

BTOC - Below Top of Casing

NM - Not Measured

NMW - No Measurable Water

Table1
 Groundwater Level SUMMARY
 Neil-Hall #1
 Unit M, Sec. 07, T30N, 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#3	97.48	27.03	2" PVC	17.03 to 27.03	03/27/97	NMW	
RESURVEY	97.88				08/07/97	20.02	77.46
6/16/98					09/16/97	21.40	76.08
					12/30/97	NMW	
					06/12/98	24.51	72.97
					6/16/98	24.51	73.37
					9/28/98	15.40	82.48
					12/30/98	NMW	
					3/3/99	NMW	
					6/6/99	22.61	75.27
					9/15/99	23.45	74.43
					12/13/99	NMW	
					3/13/00	NMW	
					6/5/00	25.93	71.95
					9/11/00	17.32	88.17
					01/23/00	NMW	

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BTOC - Below Top of Casing

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Table 1
 Groundwater Level SUMMARY
 Nell-Hall #1
 Unit M, Sec. 07, T30N, R11W

Well Number	Top of Casing* (ft)	Total Depth of Well (ft)*	Well Type	Screen Interval (ft) (BGS)*	Sample Date	Depth to Groundwater (ft) (BTOC)*	Relative Groundwater Elevation (ft)
SP 1	94.91	26.99	2" PVC	16.99 to 26.99	6/16/98	25.92	73.52
	Well broken off	approximately	12 inches		9/28/98	12.73	82.18
Well	buried	6/12/99			12/30/98	NMW	
SP 2	95.92	27.52	2" PVC	17.52 to 27.52	6/16/98	22.76	73.16
					9/28/98	14.19	81.73
					12/30/98	NMW	
					3/3/99	NMW	
					6/6/99	23.32	72.60
					9/15/99	21.81	74.11
					12/13/99	NMW	
					3/13/00	NMW	
					6/5/00	23.89	72.03
					9/1/00	15.44	83.84
					01/23/00	NMW	

BGS - approximate measurements taken as Below Ground Surface

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Table1
Groundwater Level SUMMARY
Neill-Hall #1
Unit M, Sec. 07, T30N, 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)
SP 3	95.82	25.29	2" PVC	15.29 to 25.29	6/16/98	22.86	72.96
				9/28/98	13.08	82.74	
				12/30/98	25.11	70.71	
				3/3/99	NMW		
				6/6/99	21.67	74.15	
				9/15/99	21.49	74.33	
				12/13/99	NMW		
				3/13/00	NMW		
				6/5/00	24.11	71.71	
				9/11/00	15.61	86.14	
				01/23/00	NMW		
SP 4	96.03	25.36	2" PVC	15.36 to 25.36	6/16/98	22.09	73.94
				9/28/98	13.33	82.70	
				12/30/98	NMW		
				3/3/99	NMW		
				6/6/99	22.47	73.56	
				9/15/99	21.32	74.71	
				12/13/99	NMW		
				3/13/00	NMW		
				6/5/00	23.02	71.88	
				9/11/00	13.96	84.63	
				01/23/00	NMW		

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Table1
Groundwater Level SUMMARY
Nell-Hall #1
Unit M, Sec. 07, T30N, 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)
SP 6	95.90	28.12	2" PVC	18.12 to 28.12	6/16/98	22.77	73.13
				9/28/98	14.00	81.90	
				12/30/98	28.22	67.68	
				3/3/99	NMW		
				6/6/99	22.21	73.69	
				9/15/99	21.65	74.25	
				12/13/99	NMW		
				3/13/00	NMW		
				6/5/00	24.02	71.56	
				9/11/00	15.46	71.56	
				01/23/00	NMW		
SP 7	96.06	26.92	2" PVC	16.92 to 26.92	6/16/98	22.67	73.39
				9/28/98	13.27	82.46	
				12/30/98	NMW		
				3/3/99	NMW		
				6/6/99	22.42	73.64	
				9/15/99	21.23	74.83	
				12/13/99	NMW		
				3/13/00	NMW		
				6/5/00	24.50	71.56	
				9/11/00	14.42	83.56	
				01/23/00	NMW		

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Table1
Groundwater Level SUMMARY
Neill-Hall #1
Unit M, Sec. 07, T30N, 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)
SP 8	96.12	25.92	2" PVC	15.92 to 25.92	6/16/98	22.73	73.39
					9/28/98	13.60	82.52
					12/30/98	NMW	
					3/3/99	NMW	
					6/6/99	22.68	73.44
					9/15/99	21.51	74.61
					12/13/99	NMW	
					3/13/00	NMW	
					6/5/00	23.89	72.23
					9/11/00	15.14	85.34
					01/23/00	NMW	

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BTOC - Below Top of Casing

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Table 2
BTEX Analytical Summary
Neil-Hall #1
Unit M, Sec.07, T30N, R11W

Sample Date	Sample ID#	Monitor Well	Remarks	BTEX per EPA 8020 (ppb)			Total Xylene
				Benzene	Toluene	Ethylbenzene	
06/14/96	0396G01016	MW#1	IML	26.6	27.7	757.0	9310.0
06/28/96	0369G01208		IML	BDL	42.0	720.0	14404.0
07/12/96	0369G01336		IML	BDL	15.2	168.0	BDL
04/01/97		On Site Lab.	No Sample			Taken	
08/07/97	15686			19.0	17.0	49.0	1197.0
09/16/97	16200			77.0	15.0	195.0	2140.0
12/30/97			No Sample			Taken	
06/12/98	980653-01A			39.0	18.0	320.0	2902.8
09/28/98	9809078-01A			3.3	38.0	8.2	111.2
6/16/99	9906061-04A			76.0	16.0	230.0	2006.4
9/15/99	9909057-04A			20.0	17.0	86.0	524.0
6/5/00	0006012-02A			100.0	16.0	120.0	3007.2
9/11/00	0009019-04A			46.0	12.0	19.0	600.0
06/14/97	0396G01017	MW#2	IML	9.0	1.6	26.1	1.1
06/28/96	0396G01209		IML	BDL	0.4	1.6	0.4
07/12/96	0396G01337		IML	0.5	BDL	1.7	0.8
04/01/97		On Site Lab.	No Sample			Taken	
08/07/97	15687		BDL	BDL	0.8	0.9	
09/16/97	16201			36.0	0.2	33.8	2704
12/30/97			No Sample			Taken	
06/12/98	9806053-02A		BDL	BDL	BDL	BDL	
9/28/98	9809078-02A	ACTION LEVELS	BDL	750.0	750.0	620.0	

BDL: Below Detection Limits

Table 2
 BTEX Analytical Summary
 Neil-Hall #1
 Unit M, Sec.07, T30N, R11W

Sample Date	Sample ID#	Monitor Well	Remarks	BTEX per EPA 8020 (ppb)			
				Benzene	Toluene	Ethylbenzene	Total Xylene
06/14/96	0396G01017	MW#3	1ML	31.3	BDL	BDL	BDL
06/28/96	0396G1210		1ML	BDL	BDL	BDL	BDL
07/12/96	0396G01338		1ML	BDL	BDL	BDL	BDL
04/01/97		On Site Lab.	No Sample	BDL	BDL	Taken	
08/07/97	15688		BDL	BDL	BDL	BDL	BDL
09/16/97	16202		BDL	BDL	BDL	BDL	BDL
12/30/97			No Sample	BDL	BDL	Taken	
06/12/98	9806053-03A		BDL	BDL	BDL	BDL	BDL
9/28/98	9809078-03A		BDL	BDL	BDL	BDL	BDL
9/28/98	9809078-05A	SP#1	On Site Lab.	BDL	4.2	4.0	BDL
9/28/98	9809078-04A	SP#2	On Site Lab.	BDL	BDL	2.2	BDL
6/16/99	9906061-01A			7.8	BDL	BDL	1.7
9/15/99	9909057-01A			21	2.2	130.0	265.5
6/16/99	9906061-02A	SP#6	On Site Lab.	580.0	BDL	270.0	3000.0
9/15/99	9909057-02A			1.2	0.5	10.0	14.6
9/11/00	0009019-01A			0.6	BDL	12.0	26.6
WQCC	ACTION LEVELS			10.0	750.0	750.0	620.0

BDL: Below Detection Limits

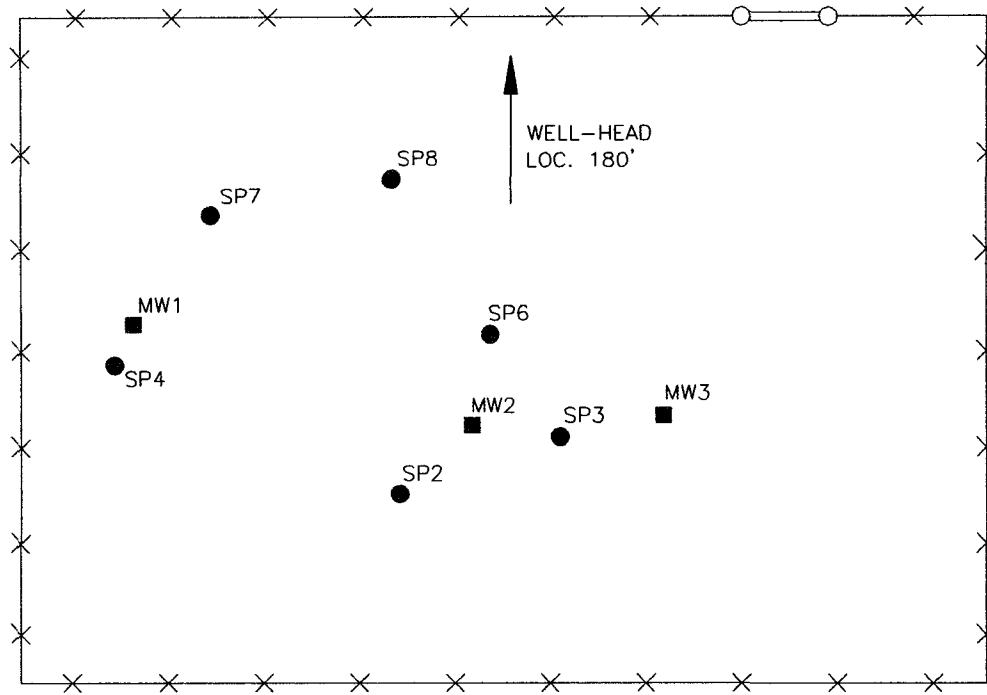
Note: No samples taken during the December 30, 1998 sampling event

Table 2
 BTEX Analytical Summary
 Nell-Hall #1
 Unit M, Sec.07, T30N, R11W

Sample Date	Sample ID#	Monitor Well	Remarks	BTEX per EPA 8020 (ppb)			
				Benzene	Toluene	Ethylbenzene	Total Xylene
9/28/98	9809078-06A	SP#7	On Site Lab.	120.0	19.0	15.0	3300.0
6/16/99	9906061-03A			200.0	40.0	240.0	7313.0
9/15/99	9909057-03A			140.0	19.0	260.0	5110.0
6/5/00	0006012-01A			68.0	BDL	220.0	3900.0
9/11/00	0009019-03A			71.0	11.0	72.0	1500.0
6/5/00	0006012-03A	SP#8	On Site Lab.	16.0	BDL	31.0	170.0
9/11/00	0009019-02A			BDL	BDL	3.0	36.0
	WQCC ACTION LEVELS			10.0	750.0	750.0	620.0

BDL: Below Detection Limits

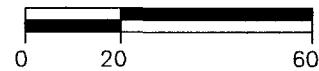
Note: No samples taken during the December 30, 1998 sampling event



LEGEND

- MW3 MONITORING WELL LOCATION
- SP3 SPARGE POINT LOCATION
- FENCE

SCALE (feet)



NOTE: SP#1 REMOVED.

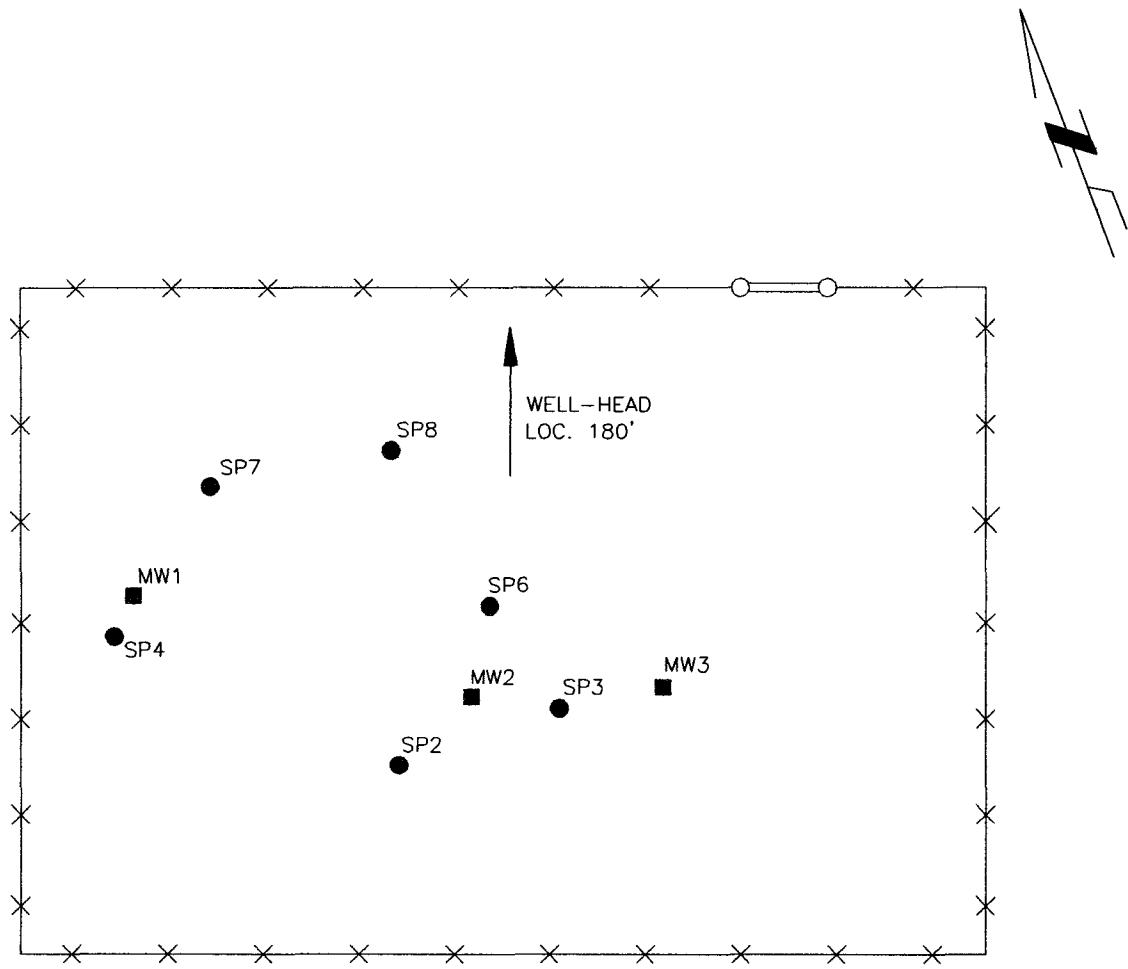


612 E. MURRAY DR. PH. (505) 327-1072
FARMINGTON, NM 87401 FAX (505) 327-1496

APPROVED:	DATE:
DRWN BY: MED	DATE: 2/23/01
CHK'D BY:	DATE:
PROJECT NO: 2-1363	SHEET: 1 OF 5

SITE MAP

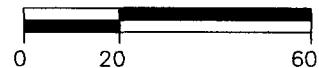
NELL HALL #1



LEGEND

- MW3 MONITORING WELL LOCATION
- SP3 SPARGE POINT LOCATION
- FENCE

SCALE (feet)



NOTE:
SP#1 REMOVED.

NO MEASURABLE WATER LEVELS
RECORDED AT TIME OF WELL READINGS.

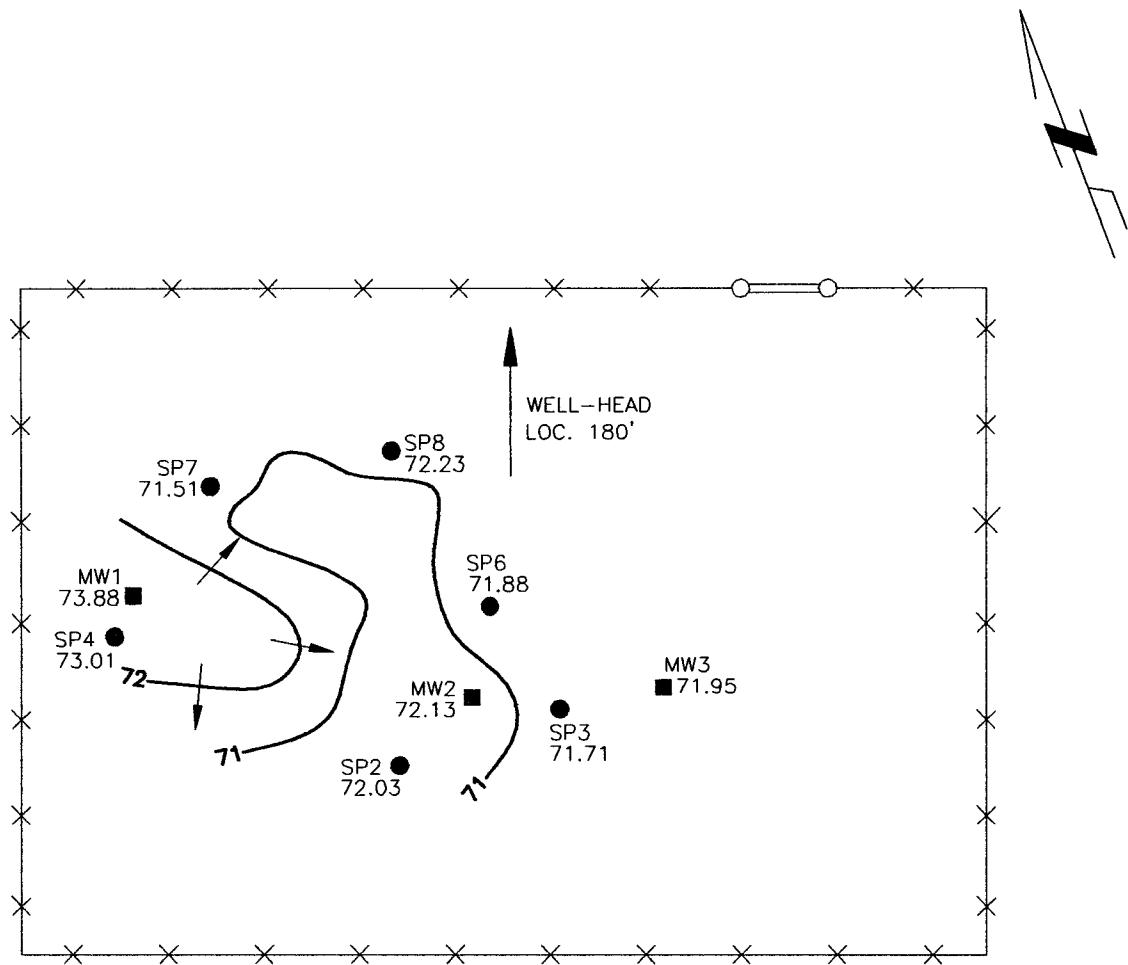


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FARMINGTON, NM 87401 FAX (505) 327-1496

APPROVED:	DATE:
DRWN BY: MED	DATE: 2/23/01
CHK'D BY:	DATE:
PROJECT NO: 2-1363	SHEET: 2 OF 5

GROUND WATER POTENTIOMETER MAP
MARCH, 2000

NELL HALL #1



LEGEND

- MW3** MONITORING WELL LOCATION
- SP3** SPARGE POINT LOCATION
- X—X** FENCE
- 72** GROUND WATER SURFACE CONTOUR
- GRADIENT

SCALE (feet)

 0 20 60

NOTE: SP#1 REMOVED.

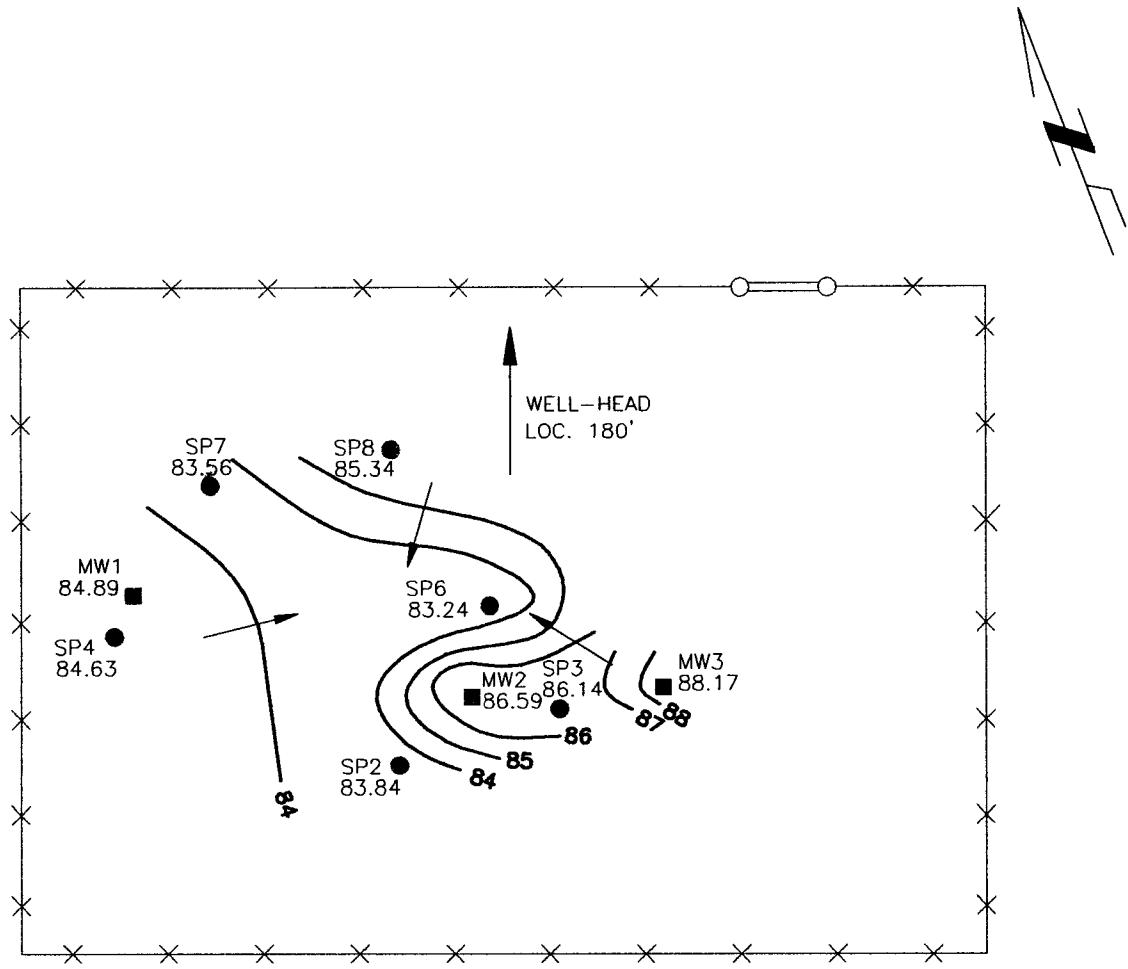


612 E. MURRAY DR. PH. (505) 327-1072
FARMINGTON, NM 87401 FAX (505) 327-1496

APPROVED:	DATE:
DRWN BY: MED	DATE: 2/23/01
CHK'D BY:	DATE:
PROJECT NO: 2-1363	SHEET: 3 OF 5

GROUND WATER POTENTIOMETER MAP
JUNE, 2000

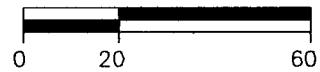
NELL HALL #1



LEGEND

- MW3** MONITORING WELL LOCATION
- SP3** SPARGE POINT LOCATION
- X-X** FENCE
- 86 —** GROUND WATER SURFACE CONTOUR
- GRADIENT

SCALE (feet)



NOTE: SP#1 REMOVED.

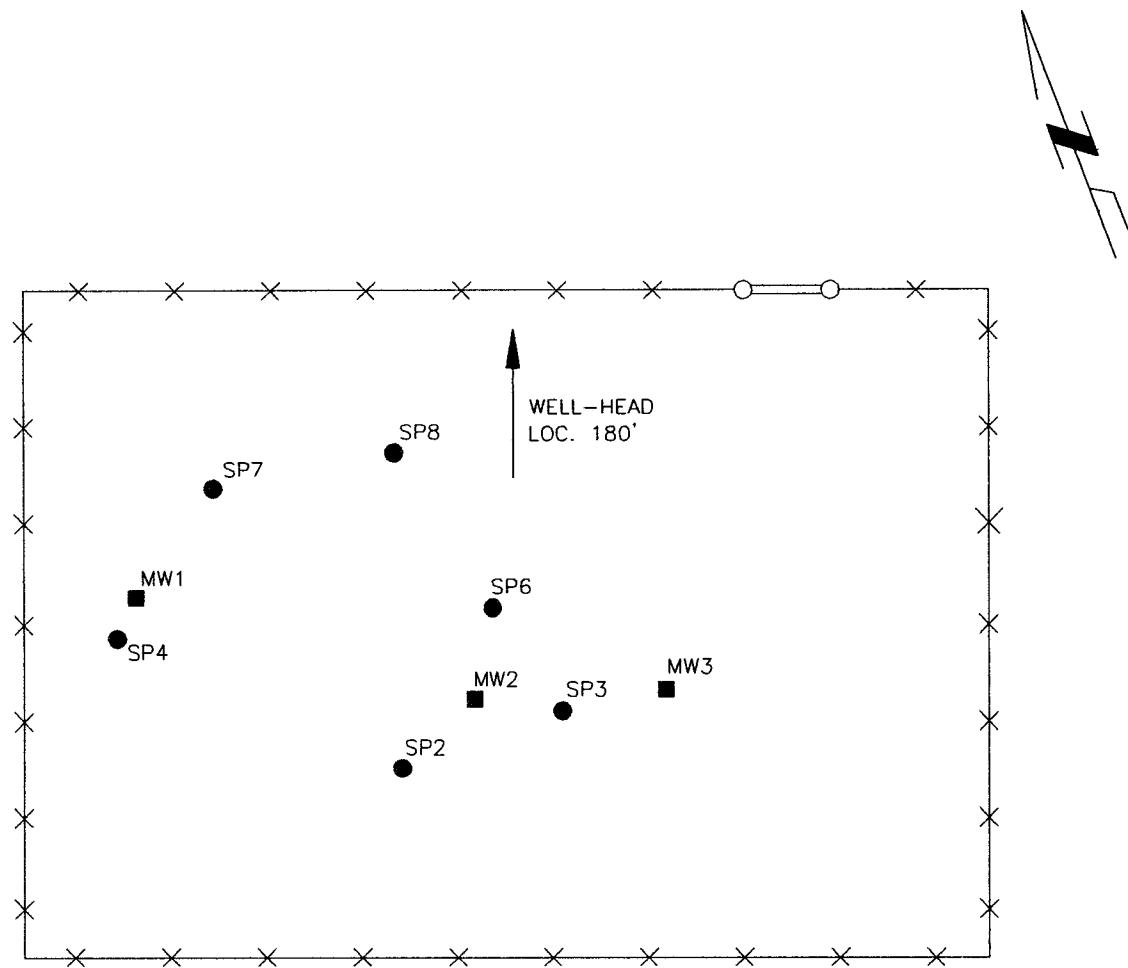


612 E. MURRAY DR. PH. (505) 327-1072
FARMINGTON, NM 87401 FAX (505) 327-1496

APPROVED:	DATE:
DRWN BY: MED	DATE: 2/23/01
CHK'D BY:	DATE:
PROJECT NO: 2-1363	SHEET: 4 OF 5

GROUND WATER POTENTIOMETER MAP
SEPTEMBER, 2000

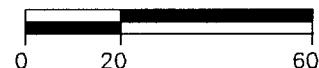
NELL HALL #1



LEGEND

MW3	MONITORING WELL LOCATION
SP3	SPARGE POINT LOCATION
X	FENCE

SCALE (feet)



NOTE:

SP#1 REMOVED.

NO MEASURABLE WATER LEVELS
RECORDED AT TIME OF WELL READINGS.



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

APPROVED:	DATE:
DRWN BY: MED	DATE: 2/23/01
CHK'D BY:	DATE:
PROJECT NO: 2-1363	SHEET: 5 OF 5

GROUND WATER POTENTIOMETER MAP
JANUARY, 2001

NELL HALL #1

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



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

September 25, 2000

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

RE: Nell Hall; 2-1363

Order No.: 0009019

Dear Larry Trujillo,

On Site Technologies, LTD. received 4 samples on 9/11/2000 for the analyses presented in the following report.

The Samples were analyzed for the following tests:

Aromatic Volatiles by GC/PID (SW8021B)

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

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

Sincerely,

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

David Cox

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



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

On Site Technologies, LTD.

Date: 25-Sep-00

CLIENT: Conoco, Inc.
Project: Nell Hall; 2-1363
Lab Order: 0009019

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).

1 of 1

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667
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LAB: (505) 325-1556
FAX: (505) 327-1496

ANALYTICAL REPORT

Date: 25-Sep-00

Client:	Conoco, Inc.	Client Sample Info:	Nell Hall
Work Order:	0009019	Client Sample ID:	SP-6
Lab ID:	0009019-01A	Matrix:	AQUEOUS
Project:	Nell Hall; 2-1363		
		Collection Date:	9/11/2000 9:15:00 AM
		COC Record:	10916

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
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AROMATIC VOLATILES BY GC/PID						Analyst: DM
		SW8021B				
Benzene	0.6	0.5		µg/L	1	9/18/2000
Toluene	ND	0.5		µg/L	1	9/18/2000
Ethylbenzene	12	0.5		µg/L	1	9/18/2000
m,p-Xylene	26	1		µg/L	1	9/18/2000
o-Xylene	0.6	0.5		µg/L	1	9/18/2000

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

1 of 4

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

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ANALYTICAL REPORT

Date: 25-Sep-00

Client:	Conoco, Inc.	Client Sample Info:	Nell Hall
Work Order:	0009019	Client Sample ID:	SP-8
Lab ID:	0009019-02A	Matrix:	AQUEOUS
Project:	Nell Hall; 2-1363		

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	9/19/2000	
Toluene	ND	0.5		µg/L	1	9/19/2000	
Ethylbenzene	3	0.5		µg/L	1	9/19/2000	
m,p-Xylene	36	1		µg/L	1	9/19/2000	
o-Xylene	ND	0.5		µg/L	1	9/19/2000	

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 4

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

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

ANALYTICAL REPORT

Date: 25-Sep-00

Client:	Conoco, Inc.	Client Sample Info:	Nell Hall
Work Order:	0009019	Client Sample ID:	SP-7
Lab ID:	0009019-03A	Matrix:	AQUEOUS
Project:	Nell Hall; 2-1363	Collection Date:	9/11/2000 9:35:00 AM
		COC Record:	10916

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
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AROMATIC VOLATILES BY GC/PID		SW8021B			Analyst: DM	
Benzene	71	5		µg/L	10	9/18/2000
Toluene	11	5		µg/L	10	9/18/2000
Ethylbenzene	72	5		µg/L	10	9/18/2000
m,p-Xylene	1500	10		µg/L	10	9/18/2000
o-Xylene	ND	5		µg/L	10	9/18/2000

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 4

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

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FAX: (505) 327-1496

ANALYTICAL REPORT

Date: 25-Sep-00

Client:	Conoco, Inc.	Client Sample Info:	Nell Hall
Work Order:	0009019	Client Sample ID:	MW-1
Lab ID:	0009019-04A	Matrix:	AQUEOUS
Project:	Nell Hall; 2-1363	Collection Date:	9/11/2000 9:45:00 AM
		COC Record:	10916

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID						
			SW8021B			Analyst: DM
Benzene	46	5		µg/L	10	9/18/2000
Toluene	12	5		µg/L	10	9/18/2000
Ethylbenzene	19	5		µg/L	10	9/18/2000
m,p-Xylene	600	10		µg/L	10	9/18/2000
o-Xylene	ND	5		µg/L	10	9/18/2000

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

4 of 4

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

On Site Technologies, LTD.

CLIENT: Conoco, Inc.
Work Order: 0009019
Project: Neil Hall, 2-1363

Date: 25-Sep-00

QC SUMMARY REPORT
Method Blank

Sample ID: MB1	Batch ID: GC-1_000918	Test Code: SW8021B	Units: µg/L	Analysis Date 9/18/2000				Prep Date:				
Client ID:		Run ID: GC-1_000918A		SeqNo:	31258	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte		Result	PQL	SPK value	SPK Ref Val							J
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		.0826		0.5								J
Sample ID: MB1	Batch ID: GC-1_000919	Test Code: SW8021B	Units: µg/L	Analysis Date 9/19/2000				Prep Date:				
Client ID:		Run ID: GC-1_000919A		SeqNo:	31270	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte		Result	PQL	SPK value	SPK Ref Val							J
Benzene		ND		0.5								
Ethylbenzene		ND		0.5								
m,p-Xylene		.2295		1								
Methyl tert-Butyl Ether		ND		1								
o-Xylene		ND		0.5								
Toluene		.1539		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 I

On Site Technologies, LTD.

QC SUMMARY REPORT

Sample Matrix Spike

Date: 25-Sep-00

CLIENT: Conoco, Inc.
 Work Order: 0009019
 Project: Neil Hall; 2-1363

Sample ID: 0009019-04AMSD		Batch ID: GC-1_000918		Test Code: SW8021B		Units: µg/L		Analysis Date 9/18/2000		Prep Date:			
Client ID: MW-1	Run ID: 0009019	Run ID: GC-1_000918A	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	437	5	400	46.21	97.7%	88	112						
Ethylbenzene	425.2	5	400	19.04	101.6%	86	113						
m,p-Xylene	1386	10	800	604.1	97.7%	85	108						
Methyl tert-Butyl Ether	430.5	10	400	0	107.6%	86	117						
o-Xylene	439.2	5	400	1.64	109.4%	92	110						
Toluene	414.6	5	400	11.6	100.8%	88	116						
Sample ID: 0009019-04AMSD		Batch ID: GC-1_000918		Test Code: SW8021B		Units: µg/L		Analysis Date 9/18/2000		Prep Date:			
Client ID: MW-1	Run ID: 0009019	Run ID: GC-1_000918A	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	433.4	5	400	46.21	96.8%	88	112	437	0.8%	6			
Ethylbenzene	422.3	5	400	19.04	100.8%	86	113	425.2	0.7%	6			
m,p-Xylene	1380	10	800	604.1	97.0%	85	108	1386	0.4%	6			
Methyl tert-Butyl Ether	434.2	10	400	0	108.6%	86	117	430.5	0.9%	7			
o-Xylene	426.5	5	400	1.64	106.2%	92	110	439.2	2.9%	6			
Toluene	410.6	5	400	11.6	99.7%	88	116	414.6	1.0%	6			

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

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

B - Analyte detected in the associated Method Blank

QC SUMMARY REPORT
Sample Matrix Spike

CLIENT: Conoco, Inc.
Work Order: 0009019
Project: Nell Hall; 2-1363

Sample ID: 0009018-01AMS		Batch ID: GC-1_000919	Test Code: SW8021B	Units: µg/L			Analysis Date 9/19/2000		Prep Date:		
Client ID:		0009019	Run ID: GC-1_000919A		SeqNo:	31271					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	210.6	2.5	200	23	93.8%	88	112				
Ethylbenzene	297.7	2.5	200	100	98.9%	86	113				
m,p-Xylene	965.9	5	400	590	94.0%	85	108				
Methyl tert-Butyl Ether	210.1	5	200	10	100.1%	86	117				
o-Xylene	249.5	2.5	200	62	93.7%	92	110				
Toluene	205.3	2.5	200	0	102.6%	88	116				
Sample ID: 0009018-01AMSD		Batch ID: GC-1_000919	Test Code: SW8021B	Units: µg/L			Analysis Date 9/19/2000		Prep Date:		
Client ID:		0009019	Run ID: GC-1_000919A		SeqNo:	31272					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	206.7	2.5	200	23	91.9%	88	112	210.6	1.8%	6	
Ethylbenzene	293.5	2.5	200	100	96.8%	86	113	297.7	1.4%	6	
m,p-Xylene	952.2	5	400	590	90.5%	85	108	965.9	1.4%	6	
Methyl tert-Butyl Ether	215.2	5	200	10	102.6%	86	117	210.1	2.4%	7	
o-Xylene	247.1	2.5	200	62	92.6%	92	110	249.5	1.0%	6	
Toluene	203.3	2.5	200	0	101.7%	88	116	205.3	1.0%	6	

Qualifiers:

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

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

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

CLIENT: Conoco, Inc.

Work Order: 0009019

Project: Neil Hall; 2-1363

Date: 25-Sep-00

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: LCS WATER	Batch ID: GC-1_000918	Test Code: SW8021B	Units: µg/L	Analysis Date 9/18/2000				Prep Date:			
Client ID:		Run ID: GC-1_000918A		SeqNo:	31257			SeqNo:	31259		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	39.98	0.5	40	0	99.9%	96	111				
Ethylbenzene	40.95	0.5	40	0	102.4%	96	111				
m,p-Xylene	80.24	1	80	0	100.3%	92	105				
Methyl tert-Butyl Ether	42.47	1	40	0	106.2%	93	113				
o-Xylene	40.15	0.5	40	0	100.4%	97	110				
Toluene	39.83	0.5	40	0.0826	99.4%	97	109				
Sample ID: LCS WATER	Batch ID: GC-1_000919	Test Code: SW8021B	Units: µg/L	Analysis Date 9/19/2000				Prep Date:			
Client ID:		Run ID: GC-1_000919A		SeqNo:	31269			SeqNo:	31269		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	40.11	0.5	40	0	100.3%	96	111				
Ethylbenzene	40.97	0.5	40	0	102.4%	96	111				
m,p-Xylene	80.3	1	80	0.2295	100.1%	92	105				
Methyl tert-Butyl Ether	42.17	1	40	0	105.4%	93	113				
o-Xylene	39.99	0.5	40	0	100.0%	97	110				
Toluene	39.95	0.5	40	0.1539	99.5%	97	109				

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

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

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

CLIENT: Conoco, Inc.
Work Order: 0009019
Project: Nell Hall; 2-1363

Date: 25-Sep-00

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: CCV1 BTEX_007	Batch ID: GC-1_000918	Test Code: SW8021B	Units: µg/L	Analysis Date 9/18/2000			Prep Date:		
Client ID:	Run ID: 0009019	GC-1_000918A		SeqNo:	31254		%RPD	RPDLimit	Qual
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	
Benzene	21.06	0.5	20	0	105.3%	85	115		
Ethybenzene	21.53	0.5	20	0	107.7%	85	115		
m,p-Xylene	42.36	1	40	0	105.9%	85	115		
Methyl tert-Butyl Ether	22.51	1	20	0	112.5%	85	115		
o-Xylene	21.37	0.5	20	0	106.9%	85	115		
Toluene	20.98	0.5	20	0	104.9%	85	115		
1,4-Difluorobenzene	86.05	0	100	0	86.0%	79	101		
4-Bromochlorobenzene	91.15	0	100	0	91.2%	78	99		
Fluorobenzene	84.39	0	100	0	84.4%	76	103		

Sample ID: CCV2 BTEX_007	Batch ID: GC-1_000918	Test Code: SW8021B	Units: µg/L	Analysis Date 9/18/2000			Prep Date:		
Client ID:	Run ID: 0009019	GC-1_000918A		SeqNo:	31255		%RPD	RPDLimit	Qual
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	
Benzene	20.19	0.5	20	0	100.9%	85	115		
Ethybenzene	20.48	0.5	20	0	102.4%	85	115		
m,p-Xylene	40.61	1	40	0	101.5%	85	115		
Methyl tert-Butyl Ether	22.19	1	20	0	111.0%	85	115		
o-Xylene	20.32	0.5	20	0	101.6%	85	115		
Toluene	20.12	0.5	20	0	100.6%	85	115		
1,4-Difluorobenzene	85.97	0	100	0	86.0%	79	101		
4-Bromochlorobenzene	89.68	0	100	0	89.7%	78	99		
Fluorobenzene	84.58	0	100	0	84.6%	76	103		

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: Conoco, Inc.
Work Order: 0009019
Project: Nell Hall; 2-1363

QC SUMMARY REPORT
Continuing Calibration Verification Standard

Sample ID: CCV3 BTEX_0007		Batch ID: GC-1_000918		Test Code: SW8021B		Units: µg/L		Analysis Date: 9/18/2000		Prep Date:					
Client ID:		Run ID:		GC-1_000918A		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
	Analyte	Result													
Benzene		38.84	0.5	40	0		97.1%		85		115				
Ethylbenzene		39.44	0.5	40	0		98.6%		85		115				
m,p-Xylene		77.84	1	80	0		97.3%		85		115				
Methyl tert-Butyl Ether		42.93	1	40	0		107.3%		85		115				
o-Xylene		38.89	0.5	40	0		97.2%		85		115				
Toluene		38.87	0.5	40	0		97.2%		85		115				
1,4-Difluorobenzene		86.1	0	100	0		86.1%		79		101				
4-Bromochlorobenzene		90	0	100	0		90.0%		78		99				
Fluorobenzene		84.12	0	100	0		84.1%		76		103				
Sample ID: CCV1 BTEX_0007		Batch ID: GC-1_000919		Test Code: SW8021B		Units: µg/L		Analysis Date: 9/19/2000		Prep Date:					
Client ID:		Run ID:		GC-1_000919A		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
	Analyte	Result													
Benzene		20.4	0.5	20	0		102.0%		85		115				
Ethylbenzene		20.8	0.5	20	0		104.0%		85		115				
m,p-Xylene		40.95	1	40	0		102.4%		85		115				
Methyl tert-Butyl Ether		21.31	1	20	0		106.5%		85		115				
o-Xylene		20.47	0.5	20	0		102.3%		85		115				
Toluene		20.26	0.5	20	0		101.3%		85		115				
1,4-Difluorobenzene		86.08	0	100	0		86.1%		79		101				
4-Bromochlorobenzene		91.44	0	100	0		91.4%		78		99				
Fluorobenzene		84.14	0	100	0		84.1%		76		103				

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
Continuing Calibration Verification Standard

CLIENT: Conoco, Inc.
Work Order: 0009019
Project: Nell Hall; 2-1363

	Sample ID: CCW2 BTEX_0007	Batch ID: GC-1_000919	Test Code: SW8021B	Units: µg/L		Analysis Date 9/19/2000	Prep Date:				
Client ID:	0009019	Run ID:	GC-1_000919A			SeqNo:	31268				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.01	0.5	20	0	100.0%	85	115				
Ethylbenzene	20.4	0.5	20	0	102.0%	85	115				
m,p-Xylene	40.16	1	40	0	100.4%	85	115				
Methyl tert-Butyl Ether	21.15	1	20	0	105.8%	85	115				
o-Xylene	20.09	0.5	20	0	100.4%	85	115				
Toluene	19.88	0.5	20	0	99.4%	85	115				
1,4-Difluorobenzene	86.42	0	100	0	86.4%	79	101				
4-Bromochlorobenzene	87.47	0	100	0	87.5%	78	99				
Fluorobenzene	83.99	0	100	0	84.0%	76	103				

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
3 of 3

CLIENT: Conoco, Inc.
Work Order: 0009019
Project: Nell Hall; 2-1363
Test No: SW8021B

QC SUMMARY REPORT
SURROGATE RECOVERIES
Aromatic Volatiles by GC/PID

Sample ID	14FBZ	4BCBZ	FLBZ
0009016-03A	83.8	88	86.2
0009017-01A	85.9	88.3	84.3
0009018-01A	81.2	86.8	80.5
0009018-01AMS	80.4	89	79
0009018-01AMSD	80.4	89.8	79.6
0009019-01A	86.3	94.2	84.8
0009019-02A	87.3	90.9	85.5
0009019-03A	85.8	90.1	85.6
0009019-04A	85.6	89.6	84.4
0009019-04AMS	84.6	91.1	83
0009019-04AMSD	85.6	91.2	84.4
0009020-01A	86.5	91.6	84.6
0009020-02A	86.5	91.3	84.5
0009020-03A	84.6	92.7	82.4
0009021-01A	86.3	91.4	84.8
0009021-02A	87	89.4	84.8
0009021-03A	86.3	91	85.3
0009021-04A	87.1	89.8	85.1
0009021-05A	86.4	89.7	85.3
0009021-06A	86.3	90.8	84.2
0009021-07A	85.8	89.2	84.1
0009024-01A	85.7	89	84.4
0009024-02A	82.4	88.7	80.4
0009024-03A	85	89.2	83
0009026-01A	86.4	91.9	84.8
0009026-02A	85.4	90.2	83.2
0009026-03A	87.5	88.3	85.2

Acronym	Surrogate	QC Limits
14FBZ	= 1,4-Difluorobenzene	79-101
4BCBZ	= 4-Bromochlorobenzene	78-99
FLBZ	= Fluorobenzene	76-103

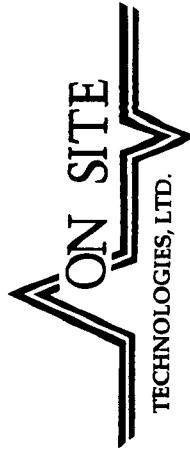
CLIENT: Conoco, Inc.
Work Order: 0009019
Project: Nell Hall; 2-1363
Test No: SW8021B

QC SUMMARY REPORT
SURROGATE RECOVERIES
Aromatic Volatiles by GC/PID

Sample ID	14FBZ	4BCBZ	FLBZ
CCV1 BTEX_00070	86.1	91.4	84.1
CCV2 BTEX_00070	86.4	87.5	84
CCV3 BTEX_00070	86.1	90	84.1
LCS WATER	85.6	92.2	84.1
MB1	86.1	91.3	84.8

Acronym	Surrogate	QC Limits
14FBZ	= 1,4-Difluorobenzene	79-101
4BCBZ	= 4-Bromochlorobenzene	78-99
FLBZ	= Fluorobenzene	76-103

* Surrogate recovery outside acceptance limits



CHAIN OF CUSTODY RECORD

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

Purchase Order No.:		Project No.:		Name Company		Title																																																																																																	
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OFF: (505) 325-5667
FAX: (505) 327-1496

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

June 20, 2000

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

RE: 2-1363; Nell Hall

Order No.: 0006012

Dear Larry Trujillo,

On Site Technologies, LTD. received 3 samples on 6/5/2000 for the analyses presented in the following report.

The Samples were analyzed for the following tests:

Aromatic Volatiles by GC/PID (SW8021B)

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

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

Sincerely,

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

David Cox

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



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

On Site Technologies, LTD.

Date: 20-Jun-00

CLIENT: On Site Technologies Limited
Project: 2-1363; Nell Hall
Lab Order: 0006012

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).

1 of 1

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667
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LAB: (505) 325-1556
FAX: (505) 327-1496

ANALYTICAL REPORT

Date: 21-Jun-00

Client:	On Site Technologies Limited	Client Sample Info:	Nell Hall
Work Order:	0006012	Client Sample ID:	SP-7
Lab ID:	0006012-01A	Matrix:	AQUEOUS
Project:	2-1363; Nell Hall	Collection Date:	6/5/2000 1:20:00 PM
		COC Record:	10730

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID						
Benzene	68	25		µg/L	50	6/11/2000
Toluene	ND	25		µg/L	50	6/11/2000
Ethylbenzene	220	25		µg/L	50	6/11/2000
m,p-Xylene	3900	50		µg/L	50	6/11/2000
o-Xylene	ND	25		µg/L	50	6/11/2000

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

1 of 1

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

ANALYTICAL REPORT

Date: 20-Jun-00

Client:	On Site Technologies Limited	Client Sample Info:	Nell Hall
Work Order:	0006012	Client Sample ID:	MW-1
Lab ID:	0006012-02A	Matrix:	AQUEOUS
Project:	2-1363; Nell Hall	Collection Date:	6/5/2000 1:45:00 PM
		COC Record:	10730

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID						
			SW8021B			Analyst: DC
Benzene	100	5		µg/L	10	6/11/2000
Toluene	16	5		µg/L	10	6/11/2000
Ethylbenzene	120	5		µg/L	10	6/11/2000
m,p-Xylene	3000	10		µg/L	10	6/11/2000
o-Xylene	7.2	5		µg/L	10	6/11/2000

Qualifiers: PQL - Practical Quantitation Limit S - Spike Recovery outside accepted recovery limits
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2 of 3

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OFF: (505) 325-5667
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LAB: (505) 325-1556
FAX: (505) 327-1496

ANALYTICAL REPORT

Date: 20-Jun-00

Client:	On Site Technologies Limited	Client Sample Info:	Nell Hall
Work Order:	0006012	Client Sample ID:	SP-8
Lab ID:	0006012-03A	Matrix:	AQUEOUS
Project:	2-1363; Nell Hall	Collection Date:	6/5/2000 2:00:00 PM
		COC Record:	10730

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID						
			SW8021B			Analyst: DM
Benzene	16	0.5		µg/L	1	6/12/2000
Toluene	ND	0.5		µg/L	1	6/12/2000
Ethylbenzene	31	0.5		µg/L	1	6/12/2000
m,p-Xylene	170	1		µg/L	1	6/12/2000
o-Xylene	ND	0.5		µg/L	1	6/12/2000

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
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B - Analyte detected in the associated Method Blank Surr: - Surrogate

3 of 3

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

On Site Technologies, LTD.

CLIENT: On Site Technologies Limited
Work Order: 0006012
Project: 2-1363; Nell Hall

QC SUMMARY REPORT
Method Blank

Date: 20-Jun-00

Sample ID: MB1	Batch ID: GC-1_000611	Test Code: SWI8021B	Units: µg/L	Analysis Date: 6/11/2000			Prep Date:				
Client ID:	Run ID: GC-1_000611A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte	Result										
Benzene	.0637	0.5									J
Ethylbenzene	.0623	0.5									J
m,p-Xylene	.196	1									J
Methyl tert-Butyl Ether	ND	1									
o-Xylene	.0939	0.5									J
Toluene	.1549	0.5									J
Sample ID: MB1	Batch ID: GC-1_000612	Test Code: SWI8021B	Units: µg/L	Analysis Date: 6/12/2000			Prep Date:				
Client ID:	Run ID: GC-1_000612A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte	Result										
Benzene	.0396	0.5									J
Ethylbenzene	.0711	0.5									J
m,p-Xylene	ND	1									
Methyl tert-Butyl Ether	ND	1									
o-Xylene	ND	0.5									
Toluene	.0739	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: 0006012
Project: 2-1363; Nell Hall

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: 0006013-03AMS	Batch ID: GC-1_000611	Test Code: SW8021B	Units: µg/L	Analysis Date: 6/11/2000				Prep Date:				
Client ID:	Run ID: 0006012	Run ID: GC-1_000611A		SeqNo:	28500	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte	Result	PQL	SPK value	SPK Ref Val								
Benzene	6433	50	4000	2368	101.6%	73	126					
Ethylbenzene	4675	50	4000	678.8	99.9%	88	113					
m,p-Xylene	10100	100	8000	2226	98.5%	83	112					
Methyl tert-Butyl Ether	4145	100	4000	258.9	97.2%	81	125					
o-Xylene	4492	50	4000	438.8	101.3%	93	110					
Toluene	6509	50	4000	2430	102.0%	76	126					
Sample ID: 0006013-03AMSD	Batch ID: GC-1_000611	Test Code: SW8021B	Units: µg/L	Analysis Date: 6/11/2000				Prep Date:				
Client ID:	Run ID: 0006012	Run ID: GC-1_000611A		SeqNo:	28501	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte	Result	PQL	SPK value	SPK Ref Val								
Benzene	6267	50	4000	2368	97.5%	73	126					
Ethylbenzene	4556	50	4000	678.8	96.9%	88	113					
m,p-Xylene	9862	100	8000	2226	95.4%	83	112					
Methyl tert-Butyl Ether	4095	100	4000	258.9	95.9%	81	125					
o-Xylene	4403	50	4000	438.8	99.1%	93	110					
Toluene	6349	50	4000	2430	98.0%	76	126					

Qualifiers:

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

B - Analyte detected in the associated Method Blank

Date: 20-Jun-00

CLIENT: On Site Technologies Limited
Work Order: 0006012
Project: 2-1363; Nell Hall

QC SUMMARY REPORT
 Sample Matrix Spike

Sample ID: 0006020-02AMS		Batch ID: GC-1_000612		Test Code: SW8021B		Units: µg/L		Analysis Date: 6/12/2000		Prep Date:					
Client ID:		Run ID:		GC-1_000612A		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte		Result													
Benzene		205.6	2.5	200	13		96.3%		73	126					
Ethylbenzene		187.4	2.5	200	9		89.2%		88	113					
m,p-Xylene		402.1	5	400	20		95.5%		83	112					
Methyl tert-Butyl Ether		208.2	5	200	2		103.1%		81	125					
o-Xylene		207.5	2.5	200	11		98.2%		93	110					
Toluene		206.7	2.5	200	10		98.3%		76	126					
Sample ID: 0006020-02AMSD		Batch ID: GC-1_000612		Test Code: SW8021B		Units: µg/L		Analysis Date: 6/12/2000		Prep Date:					
Client ID:		Run ID:		GC-1_000612A		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte		Result													
Benzene		204	2.5	200	13		95.5%		73	126		205.6	0.8%	6	
Ethylbenzene		182.8	2.5	200	9		86.9%		88	113		187.4	2.5%	5	S
m,p-Xylene		397.9	5	400	20		94.5%		83	112		402.1	1.0%	7	
Methyl tert-Butyl Ether		211.9	5	200	2		105.0%		81	125		208.2	1.8%	9	
o-Xylene		209	2.5	200	11		99.0%		93	110		207.5	0.7%	6	
Toluene		205.1	2.5	200	10		97.6%		76	126		206.7	0.8%	6	

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

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

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

CLIENT: On Site Technologies Limited
Work Order: 00066012
Project: 2-1363; Nell Hall

Date: 20-Jun-00

QC SUMMARY REPORT
 Laboratory Control Spike - generic

Sample ID: LCS WATER		Batch ID: GC-1_000611A		Test Code: SW8021B		Units: µg/L		Analysis Date: 6/11/2000		Prep Date:			
Client ID:		Run ID:	GC-1_000611A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	41	0.5	40	0.0637	102.3%	89	112						
Ethylbenzene	40.91	0.5	40	0.0623	102.1%	93	112						
m,p-Xylene	80.6	1	80	0.1196	100.6%	88	108						
Methyl tert-Butyl Ether	41.85	1	40	0	104.6%	87	115						
o-Xylene	41.25	0.5	40	0.0999	102.9%	93	112						
Toluene	41.21	0.5	40	0.1549	102.6%	92	111						
Sample ID: LCS WATER		Batch ID: GC-1_000612		Test Code: SW8021B		Units: µg/L		Analysis Date: 6/12/2000		Prep Date:			
Client ID:		Run ID:	GC-1_000612A	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	39.93	0.5	40	0.0396	99.7%	89	112						
Ethylbenzene	40.45	0.5	40	0.0711	100.9%	93	112						
m,p-Xylene	78.29	1	80	0	97.9%	88	108						
Methyl tert-Butyl Ether	39.47	1	40	0	98.7%	87	115						
o-Xylene	40.59	0.5	40	0	101.5%	93	112						
Toluene	40.4	0.5	40	0.0739	100.8%	92	111						

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

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

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

CLIENT: On Site Technologies Limited
Work Order: 0006012
Project: 21363: Nell Hall

Date: 20-Jun-00

QC SUMMARY REPORT

Continuing Calibration Verification Standard

CULTURE AND CIVILISATION IN THE MEDITERRANEAN

Sample ID: CCV1 BTEX_0004		Batch ID: GC-1_000611		Test Code: SW8021B		Units: µg/L		Analysis Date: 6/11/2000		Prep Date:	
Client ID:		0006012		Run ID:	GC-1_000611A			SeqNo:	28495		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20	0.5	20	0	100.0%	85	115				
Ethylbenzene	20.1	0.5	20	0	100.5%	85	115				
m,p-Xylene	39.34	1	40	0	98.4%	85	115				
Methyl tert-Butyl Ether	20.51	1	20	0	102.6%	85	115				
o-Xylene	20.32	0.5	20	0	101.6%	85	115				
Toluene	20.15	0.5	20	0	100.7%	85	115				
1,4-Difluorobenzene	90.27	0	100	0	90.3%	80	105				
4-Bromochlorobenzene	86.68	0	100	0	86.7%	78	108				
Fluorobenzene	90.45	0	100	0	90.4%	78	108				

Sample ID: CCV2 BTEX_0004		Batch ID: GC-1_000611		Test Code: SW8021B		Units: µg/L		Analysis Date: 6/11/2000		Prep Date:	
Client ID:		0006012		Run ID:	GC-1_000611A			SeqNo:	28496		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	19.73	0.5	20	0	98.6%	85	115				
Ethylbenzene	19.78	0.5	20	0	98.9%	85	115				
m,p-Xylene	38.53	1	40	0	96.3%	85	115				
Methyl tert-Butyl Ether	20.32	1	20	0	101.6%	85	115				
o-Xylene	20.12	0.5	20	0	100.6%	85	115				
Toluene	19.9	0.5	20	0	99.5%	85	115				
1,4-Difluorobenzene	89.99	0	100	0	90.0%	80	105				
4-Bromochlorobenzene	82.9	0	100	0	82.9%	78	108				
Fluorobenzene	89.18	0	100	0	89.2%	78	108				

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

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

B - Analyte detected in the associated Method Blank

CLIENT: On Site Technologies Limited
Work Order: 0006012
Project: 2-1363; Nell Hall

QC SUMMARY REPORT
Continuing Calibration Verification Standard

Sample ID: CCV3 BTEX_0004		Batch ID: GC-1_000611	Test Code: SW8021B	Units: µg/L			Analysis Date: 6/11/2000		Prep Date:		
Client ID:		Run ID:	GC-1_000611A		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte		Result	PQL	SPK value	SPK Ref Val						
Benzene		42.22	0.5	40	0	105.6%	85	115			
Ethylbenzene		42.32	0.5	40	0	105.8%	85	115			
m,p-Xylene		82.02	1	80	0	102.5%	85	115			
Methyl tert-Butyl Ether		41.88	1	40	0	104.7%	85	115			
o-Xylene		42.6	0.5	40	0	106.5%	85	115			
Toluene		42.54	0.5	40	0	106.3%	85	115			
1,4-Difluorobenzene		89.76	0	100	0	89.8%	80	105			
4-Bromochlorobenzene		87.82	0	100	0	87.8%	78	108			
Fluorobenzene		88.91	0	100	0	88.9%	78	108			
Sample ID: CCV1 BTEX_0004		Batch ID: GC-1_000612	Test Code: SW8021B	Units: µg/L			Analysis Date: 6/12/2000		Prep Date:		
Client ID:		Run ID:	GC-1_000612A		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Analyte		Result	PQL	SPK value	SPK Ref Val						
Benzene		20.04	0.5	20	0	100.2%	85	115			
Ethylbenzene		20.53	0.5	20	0	102.6%	85	115			
m,p-Xylene		39.53	1	40	0	98.8%	85	115			
Methyl tert-Butyl Ether		20.16	1	20	0	100.8%	85	115			
o-Xylene		20.7	0.5	20	0	103.5%	85	115			
Toluene		20.42	0.5	20	0	102.1%	85	115			
1,4-Difluorobenzene		89.79	0	100	0	89.8%	80	105			
4-Bromochlorobenzene		87	0	100	0	87.0%	78	108			
Fluorobenzene		88.66	0	100	0	88.7%	78	108			

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: 0006012
Project: 2-1363; Nell Hall

QC SUMMARY REPORT
Continuing Calibration Verification Standard

Sample ID: CCV2 BTEX_0004	Batch ID: GC-1_000612	Test Code: SW8021B	Units: µg/L	Analysis Date: 6/12/2000			Prep Date:		
Client ID:		Run ID: GC-1_000612A		SeqNo:	28523		%RPD	RPDLimit	Qual
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	
Benzene	19.98	0.5	20	0	99.9%	85	115		
Ethylbenzene	20.48	0.5	20	0	102.4%	85	115		
m,p-Xylene	39.64	1	40	0	99.1%	85	115		
Methyl tert-Butyl Ether	21.55	1	20	0	107.7%	85	115		
o-Xylene	20.81	0.5	20	0	104.1%	85	115		
Toluene	20.38	0.5	20	0	101.9%	85	115		
1,4-Difluorobenzene	89.68	0	100	0	89.7%	80	105		
4-Bromochlorobenzene	87.48	0	100	0	87.5%	78	108		
Fluorobenzene	88.1	0	100	0	88.1%	78	108		

Sample ID: CCV3 BTEX_0004	Batch ID: GC-1_000612	Test Code: SW8021B	Units: µg/L	Analysis Date: 6/12/2000			Prep Date:		
Client ID:		Run ID: GC-1_000612A		SeqNo:	28524		%RPD	RPDLimit	Qual
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	
Benzene	39.97	0.5	40	0	99.9%	85	115		
Ethylbenzene	40.46	0.5	40	0	101.1%	85	115		
m,p-Xylene	77.8	1	80	0	97.3%	85	115		
Methyl tert-Butyl Ether	41.57	1	40	0	103.9%	85	115		
o-Xylene	40.92	0.5	40	0	102.3%	85	115		
Toluene	40.55	0.5	40	0	101.4%	85	115		
1,4-Difluorobenzene	89.34	0	100	0	89.3%	80	105		
4-Bromochlorobenzene	86.73	0	100	0	86.7%	78	108		
Fluorobenzene	88.11	0	100	0	88.1%	78	108		

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: 20-Jun-00

CLIENT: On Site Technologies Limited
Work Order: 0006012
Project: 2-1363; Nell Hall
Test No: SW8021B

QC SUMMARY REPORT
SURROGATE RECOVERIES
Aromatic Volatiles by GC/PID

Sample ID	14FBZ	4BCBZ	FLBZ
0006005-11A	90.6	84.7	104
0006005-12A	89.3	82.6	88.4
0006006-01A	90.7	81.9	89.5
0006006-02A	90.7	85.4	90.3
0006006-03A	90.6	85	90.1
0006006-04A	90.1	81.5	89.5
0006006-05A	90.4	83.8	89.7
0006007-01A	82.5	84.3	96.4
0006007-02A	89.8	86.6	90.9
0006007-03A	90.2	84.2	90.2
0006012-01A	90.8	85.3	89.9
0006012-02A	90.7	88.4	90.8
0006012-03A	89.5	86	88.3
0006013-01A	90.6	85.2	89.9
0006013-02A	90.8	84.6	90.2
0006013-03A	89.7	82.5	89.1
0006013-03AMS	89.3	83.2	89
0006013-03AMSD	89.5	82.5	89
0006013-04A	90.6	85.1	89.2
0006013-05A	90.2	83.5	90
0006013-06A	87.8	85.3	87
0006020-02AMS	88.2	85.1	87
0006020-02AMSD	88	84.6	87
0006021-01A	83.6	86.2	83.8
0006021-02A	88.7	83.6	87
0006021-03A	88	87.2	87
0006021-04A	87.7	81.5	86.4

Acronym	Surrogate	QC Limits
14FBZ	= 1,4-Difluorobenzene	80-105
4BCBZ	= 4-Bromochlorobenzene	78-108
FLBZ	= Fluorobenzene	78-108

* Surrogate recovery outside acceptance limits

CLIENT: On Site Technologies Limited
Work Order: 0006012
Project: 2-1363; Nell Hall
Test No: SW8021B

QC SUMMARY REPORT
SURROGATE RECOVERIES
Aromatic Volatiles by GC/PID

Sample ID	14FBZ	4BCBZ	FLBZ
0006021-05A	88.2	83.7	87.1
0006021-06A	89.9	84.1	88.8
0006021-07A	90.2	84	88.6
0006021-08A	87.2	84.7	86.5
0006021-09A	90.1	83.5	88.5
0006021-10A	86.4	84.3	85.6
0006023-01A	90.8	85.2	90
0006023-02A	90	85.6	89.1
0006023-03A	89.9	86	89.1
0006023-04A	90	86.1	88.7
0006023-05A	90.1	86.2	89.1
0006023-06A	90.4	86.8	89.1
0006026-02A	87.2	83.4	86.2
CCV1 BTEX_00040	89.8	87	88.6
CCV2 BTEX_00040	89.7	87.5	88.1
CCV3 BTEX_00040	89.3	86.7	88.1
LCS WATER	89.4	87.6	88.4
MB1	90.1	86.4	89.1

Acronym	Surrogate	QC Limits
14FBZ	= 1,4-Difluorobenzene	80-105
4BCBZ	= 4-Bromochlorobenzene	78-108
FLBZ	= Fluorobenzene	78-108



CHAIN OF CUSTODY RECORD

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