3R - 93

REPORTS

DATE:

2000

4-1355

District I
P.O. Box 1980, Hobbs, NM
District II
P.O. Drawer DD, Artesia, NM 88211
District III
1000 Rio Brazos Rd, Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

SUBMIT 1 COPY TO APPROPRIATE DISTRICT OFFICE AND 1 COPY TO
SANTA FE OFFICE

(Revised 3/9/94)

PIT REMEDIATION AND CLOSURE REPORT

Operator: Conoco Inc **Telephone:** (505) 325-5813

Address: 3315 Bloomfield Highway, Farmington, NM 87401

Facility Or: San Juan 28-7-19
Well Name

Location: Unit or Qtr/Qtr Sec G Sec 25 T28N R7W County San Juan

Pit Type: Separator____ Dehydrator____ Other Blow Down Pit

Land Type: BLM X State____, Fee____, Other_____

Pit Location: Pit dimensions: length 10', width 9', depth 4'
(Attach diagram)
Reference: wellhead X, other_____

Footage from reference: 88'

Direction from reference: **Approximately 50 degrees West of South**

Depth To Ground Water: (Vertical distance from contaminants to seasonal high water elevation of ground water)	Less than 50 feet 50 feet to 99 feet Greater than 100 feet	(20 points) (10 points) (0 points) **10**
Wellhead Protection Area: (Less than 200 feet from a private domestic water source, or; less than 1000 feet from all other water sources)	Yes No	(20 points) (0 points) **0**
Distance To Surface Water: (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)	Less than 200 feet 200 feet to 1000 feet Greater than 1000 feet	(20 points) (10 points) (0 points) **0**

RANKING SCORE (TOTAL POINTS): 10

San Juan 28-7-19
Conoco Inc.

Date Remediation Started: 6/8/1995 **Date Completed:** 3/13/00

Remediation Method: Excavation _____ Approx. cubic yards _____
(Check all appropriate sections)
Landfarmed _____ Insitu Bioremediation **X**

Other _____
_____

Remediation Location: Onsite _____ Offsite _____
(ie. landfarmed onsite, name and location of offsite facility) _____

General Description Of Remedial Action:
During June, 1995, the referenced location, located on Bureau of Land Management lands, was assessed by Conoco and it was determined that the blow down pit was contaminated. Flow was stopped and pit was back filled . A single groundwater monitoring well was set in the approximate center of the pit of the pit. By record, groundwater sampling was conducted from August 1995, to March 2000

Ground Water Encountered: No **X** Yes Depth _'

Final Pit:
Closure Sampling:
(if multiple samples, attach sample results and diagram of sample locations and depths)

Sample location ***Refer to attached report***

Sample depth ***Refer to attached report***

Sample Date` ‖ Sample Time

Sample Results

Benzene (ppm) _____
Total BTEX (ppm) _____
Field headspace (ppm) _____

TPH _____

Ground Water Sample: Yes ____ No ____ (If yes, attach sample results)

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF

DATE 27 April 2001
SIGNATURE: John E Cofer

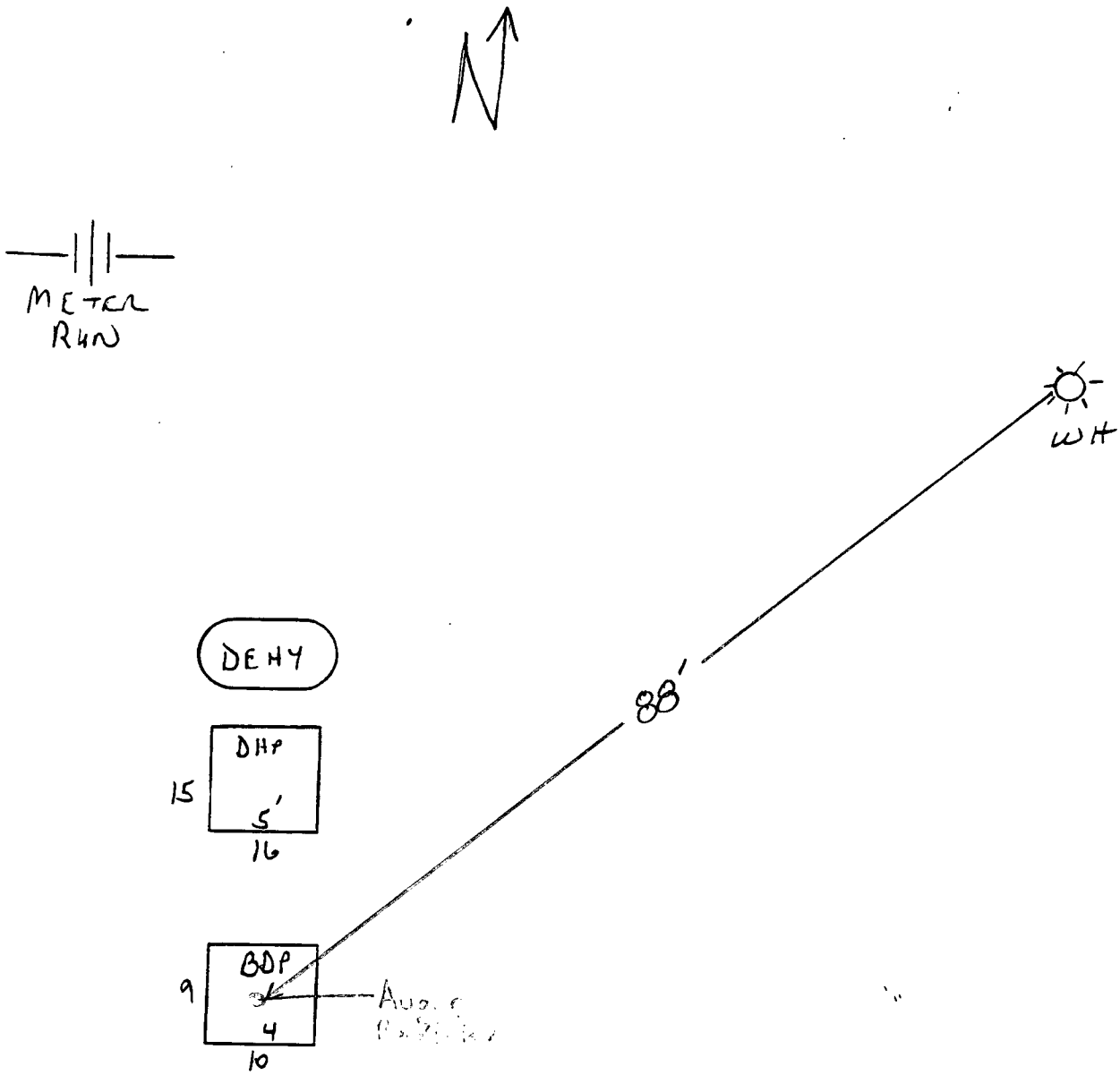
PRINTEDNAME: John E. Cofer TITLE Environmental Coord.

(OCD.)

WELL LOCATION: San Juan 28-7 # 19 S 25 T 28N R 7W UNIT G

DATE STARTED: _____ DATE COMPLETED: _____

Location/Excavation Data



o SOIL SAMPLE LOCATION

Δ BACKGROUND SAMPLE LOCATIO

ON SITE
TECHNOLOGIES, LTD.

March 2, 2001

Conoco, Inc., San Juan/Lobo Business Unit
Attn.: Mr. Gary Ledbetter SHEAR Specialist
3314 Bloomfield Hwy.
Farmington, NM 87401

Project #: 2-1358

RE: 2000 Annual Ground Water Report and Request for Closure
Conoco Location: San Juan 28-7 #19
Unit G, Sec. 25, T28N, R7W, NMPM, San Juan Co., NM

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 covered the prior 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*, submitted to the New Mexico Oil Conservation Division on October 15, 1997.

SUMMARY OF EVENTS:

During June, 1995, the referenced location was assessed by Conoco and it was determined that the blow down pit was contaminated. Flow was stopped and pit was back filled. A single groundwater monitoring well was set in the approximate center of the pit of the pit. During the installation of the monitoring well soil sample were collected at 8, 18, 30 and 36 feet below the ground surface (BGS) and by record field screened for volatile organic compounds. Bedrock (weathered sandstone) was encountered at 38 feet BGS. No evidence of laboratory results for soil samples were located in the Conoco local files. . Records indicate that groundwater monitoring was conducted from August, 1995 to March, 2000.

Due to the time frame that the initial site assessment was conducted, laboratory results and QA/QC documents for soil and water sampling could not be located in local Conoco files and may have been previously submitted to the New Mexico Oil Conservation Division (NMCOD).

Laboratory results of the groundwater monitoring event from August, 1995 indicated that volatile organics, Benzene and Toluene above New Mexico Water Quality Control Commission (NMWQCC) standards present. Laboratory result from groundwater sampling event March, 1996 to March, 1999 showed a steady decline in volatile organic contamination, but volatile organic contamination levels for Benzene remained above NMWQCC standards.
Sampling events, June, 1999, September, 1999, December, 1999 and March 2000, laboratory results showed volatile organics of concern were below NMWQCC standards.

SAMPLING:

Following the approved Conoco plan, during each sampling event, water levels were measured on all monitoring wells prior to purging and sampling. Samples were collected in laboratory supplied containers, preserved as needed, and proper chain-of-custody protocol followed. The laboratory analyses ordered, followed the Conoco Ground Water Plan.

PO Box 2606
Farmington, NM 87499

505-325-5667

FAX: 505-327-1496

Table 1, summarizes the monitoring well data and water levels measured during each sampling event. Table 2, summarizes the laboratory results for BTEX compounds from all water sampling completed at the referenced site, including assessment data.

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. Previous groundwater sampling laboratory results have been submitted to NMOCD.

CONCLUSIONS:

The following conclusions are based on 2000 ground water monitoring results and trends, site observations, information gathered from available records, available laboratory results, and *ON SITE* 's past experience on similar sites.

1. BTEX contamination of ground water has been below NMWQCC standards for the last four sampling events (June 1999, September 1999, December 1999, and March 2000).
2. The referenced location has continued to show hydrocarbon contamination at or below NMWQCC groundwater quality standards.
3. The site was met requirements of Conoco's Comprehensive Ground Water Remediation and Long-Term Monitoring for Conoco Locations in the San Juan Basin, New Mexico of four (4) consecutive quarters of water quality at or below NMWQCC standards

RECOMMENDATIONS:

On behalf of Conoco Inc., *ON SITE TECHNOLOGIES LIMITED PARTNERSHIP* requests that the referenced location be closed. Conoco's has met the requirements of the approved Comprehensive Ground Water Remediation and Long-Term Monitoring for Conoco Locations in the San Juan Basin, New Mexico, four (4) consecutive quarters of water quality at or below NMWQCC standards at the referenced site and permission be grated that groundwater monitoring wells be plugged and abandoned in accordance with current regulations and guidelines

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 Conoco Ground Water 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,

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

Reviewed by:

Michael K. Lane, P.E.
Senior Engineer

ON SITE TECHNOLOGIES LIMITED PARTNERSHIP

Attachments:
Table 1: Monitoring Well Details and Ground Water Levels Summary
Table 2: Ground Water BTEX Analytical Summary
Figure 1: Site Sketch
Figure 2: Ground Water Potentiometric Map (Not Applicable)
Boring Logs and Monitoring Well Diagrams (Not Available)
Laboratory Results, QA/QC, Chain of Custody

Acknowledgment:
CONOCO, Inc.

_____
(Name/Title)

_____
(Date)

REFERENCES:

New Mexico Oil Conservation Division, January 31, 1997, Letter to Mr. Neal. Goates, Senior Environmental Specialist, Conoco, Inc. Midland Division, regarding: Ground *Water Contamination Assessment San Juan Unit Wells #219, #47, #19, #126, Conoco Location, San Juan 28-7 #19, Unit G, Sec. 25, T28N, R7W, NMPM, San Juan Co., NM.*

On Site Technologies, Ltd., February 1, 1998, letter to Ms. Shirley Ebert, SHEAR Specialist, Conoco, Inc., Midland Division, regarding1997 Annual Ground Water Report, *Conoco Location, San Juan 28-7-19, Unit G, Sec. 25, T28N, R7W, NMPM, San Juan Co., NM.*

On Site Technologies, Ltd., February 7, 1999, letter to Ms. Shirley Ebert, SHEAR Specialist, Conoco, Inc., Midland Division, regarding1998 Annual Ground Water Report, *Conoco Location, San Juan 28-7-19, Unit G, Sec. 25, T28N, R7W, NMPM, San Juan Co., NM.*

On Site Technologies, Ltd., January 6, 2000, letter to Ms. Shirley Ebert, SHEAR Specialist, Conoco, Inc., Midland Division, regarding 1999 Annual Ground Water Report, *Conoco Location, San Juan 28-7-19, Unit G, Sec. 25, T28N, R7W, NMPM, San Juan Co., NM.*

Table1

Ground Water Level Summary
San Juan 28-7-19
Unit G, Sec. 25, T28N, R7W

Well Number	Elevation at ground surface (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	6214.0	86.09	2" PVC	N/A	03/26/97	79.01	6134.99
					06/10/97	78.90	3135.10
					10/9/97	79.03	6134.97
					12/22/97	79.01	6134.99
					3/9/98	79.13	6134.87
					6/9/98	79.19	6134.87
					9/14/98	79.19	6134.84
					12/9/98	79.23	6134.77
					3/1/99	79.46	6134.54
					6/7/99	79.28	6134.72
					9/10/99	79.32	6134.68
					12/13/99	78.94	6135.06
					3/13/00	79.01	6134.99

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

Table 2

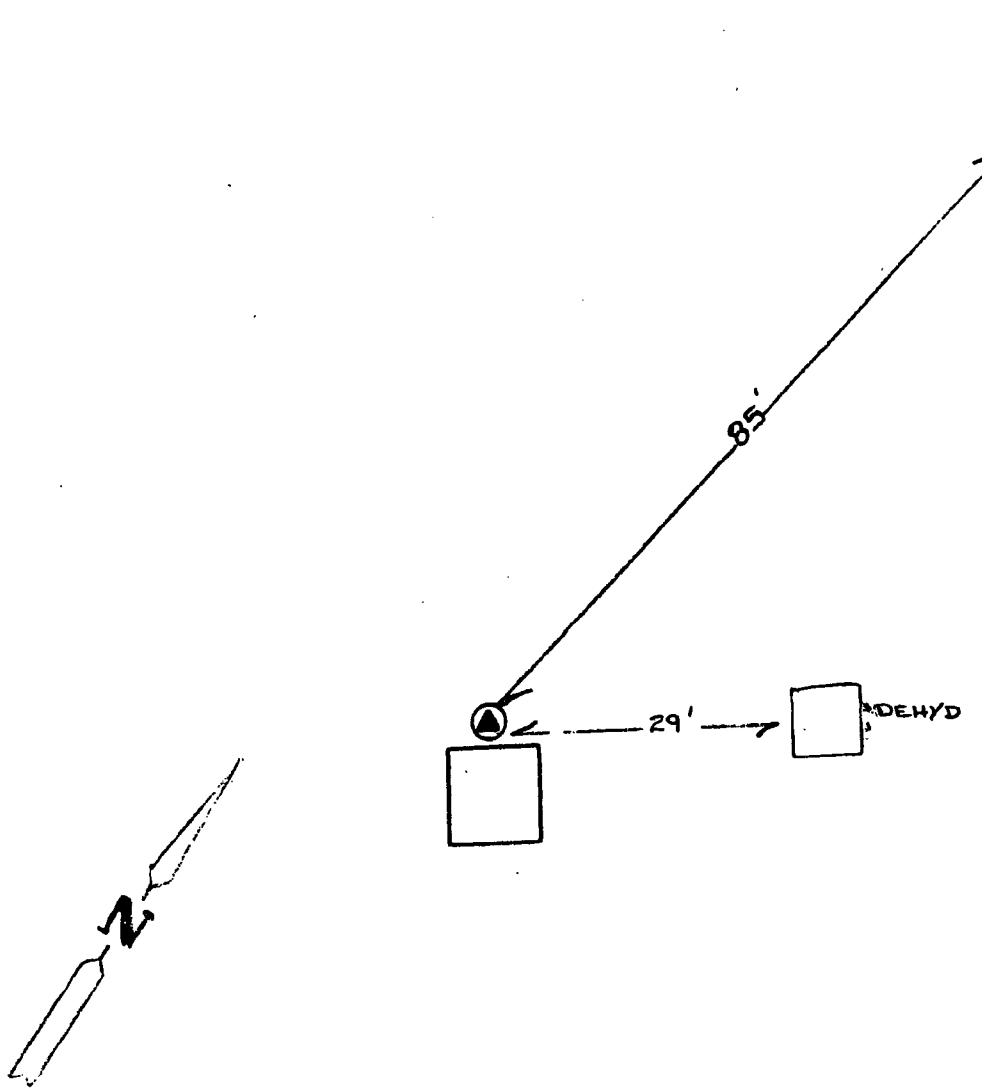
BTEX Analytical Summary

San Juan 28-7-19

Unit G, Sec. 25, T28N, R7W

Sample Date	Sample ID#	Monitor Well	Remarks	BTEX per EPA 8020 (ppb)			
				Benzene	Toluene	Ethylbenzene	Total Xylene
08/11/95	G01373	MW#1	IML	65.2	973.0	33.5	124.5
03/12/96	039600376		IML	14.0	12.0	11.0	78.0
07/17/96	039601348		IML	0.4	0.3	0.7	0.8
03/26/97	14046		On Site Lab.	48.1	25.9	1.0	406
04/21/97	14293		On Site Lab.	168.0	119.0	3.7	27.0
06/10/97	14895		On Site Lab.	27.4	13.8	1.0	3.0
10/9/97	16562		On Site Lab.	49.5	8.1	1.8	4.7
12/22/97	17207		On Site Lab.	59.2	23.9	1.4	8.5
3/9/98	9803028-01A		On Site Lab.	6.5	2.4	0.9	1.0
6/9/98	9806042-01A		On Site Lab.	22.0	7.1	BDL	3.2
9/14/98	9809028-01A		On Site Lab.	24.0	8.4	BDL	5.0
12/9/98	9812023-01A		On Site Lab.	35.0	12.0	BDL	6.2
3/1/99	9903002-01A		On Site Lab.	21.0	18.0	0.6	3.6
6/7/99	9906018-01A		On Site Lab.	3.0	2.1	1.2	3.4
9/10/99	9909036-01A		On Site Lab.	2.1	BDL	BDL	0.6
12/13/99	9909036-01A		On Site Lab.	6.2	3.3	BDL	BDL
3/13/00	0003016-01A		On Site Lab.	2.9	1.1	BDL	BDL
WQCC	ACTION	LEVELS		10.0	750.0	750.0	620.0

BDL Below Detection Levels



SITE MAP

SAN JUAN 28-T-19

NOT TO SCALE

ALL DISTANCES APPROXIMATED

OFF: (505) 325-5667

ON SITE
TECHNOLOGIES, LTD.

LAB: (505) 325-1556

March 17, 2000

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

RE: 2-1358; San Juan 28-7-19 Order No.: 0003016

Dear Larry Trujillo,

On Site Technologies, LTD. received 1 sample on 3/13/2000 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,

David Cox

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

On Site Technologies, LTD. **Date:** *20-Mar-00*

CLIENT: Conoco, Inc.
Project: 2-1358; San Juan 28-7-19
Lab Order: 0003016

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.

P.O. BOX 2606 • FARMINGTON, NM 87499

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Date: *17-Mar-00*

Client:	Conoco, Inc.	**Client Sample Info:**	San Juan 28-7-19
Work Order:	0003016	**Client Sample ID:**	MW-1
Lab ID:	0003016-01A **Matrix:** AQUEOUS	**Collection Date:**	3/13/2000 8:30:00 AM
Project:	2-1358; San Juan 28-7-19	**COC Record:**	10569

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		**SW8021B**				Analyst: **DC**
Benzene	2.9	0.5		µg/L	1	3/14/2000
Toluene	1.1	0.5		µg/L	1	3/14/2000
Ethylbenzene	ND	0.5		µg/L	1	3/14/2000
m,p-Xylene	ND	1		µg/L	1	3/14/2000
o-Xylene	ND	0.5		µg/L	1	3/14/2000

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

P.O. BOX 2606 • FARMINGTON, NM 87499

On Site Technologies, LTD.

Date: *17-Mar-00*

CLIENT: Conoco, Inc.
Work Order: 0003016
Project: 2-1358; San Juan 28-7-19

QC SUMMARY REPORT
Method Blank

Sample ID: **MB1** Batch ID: **GC-1_000314** Test Code: **SW8021B** Units: **µg/L** Analysis Date **3/14/2000** Prep Date:

Client ID: **0003016** Run ID: **GC-1_000314A** SeqNo: **25646**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	.0396	0.5									J
Ethylbenzene	.065	0.5									J
m,p-Xylene	.1824	1									J
Methyl tert-Butyl Ether	ND	1									
o-Xylene	.1453	0.5									J
Toluene	.2372	0.5									J

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

On Site Technologies, LTD.

Date: *17-Mar-00*

CLIENT: Conoco, Inc.
Work Order: 0003016
Project: 2-1358; San Juan 28-7-19

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: **0003019-01AMS** Batch ID: **GC-1_000314** Test Code: **SW8021B** Units: **µg/L** Analysis Date **3/14/2000** Prep Date:

Client ID: **0003016** Run ID: **GC-1_000314A** SeqNo: **25647**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	235.3	2.5	200	44	95.7%	73	126				
Ethylbenzene	333.9	2.5	200	140	96.9%	88	113				
m,p-Xylene	1218	5	400	800	104.6%	83	112				
Methyl tert-Butyl Ether	205.3	5	200	16	94.6%	81	125				
o-Xylene	310.7	2.5	200	110	100.3%	93	110				
Toluene	208.1	2.5	200	0	104.0%	76	126				

Sample ID: **0003019-01AMSD** Batch ID: **GC-1_000314** Test Code: **SW8021B** Units: **µg/L** Analysis Date **3/14/2000** Prep Date:

Client ID: **0003016** Run ID: **GC-1_000314A** SeqNo: **25648**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	224.8	2.5	200	44	90.4%	73	126	235.3	4.6%	6	
Ethylbenzene	320.1	2.5	200	140	90.1%	88	113	333.9	4.2%	5	
m,p-Xylene	1168	5	400	800	92.1%	83	112	1218	4.2%	7	
Methyl tert-Butyl Ether	200.2	5	200	16	92.1%	81	125	205.3	2.5%	9	
o-Xylene	302	2.5	200	110	96.0%	93	110	310.7	2.8%	6	
Toluene	200.2	2.5	200	0	100.1%	76	126	208.1	3.9%	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.

Date: *17-Mar-00*

CLIENT: Conoco, Inc.
Work Order: 0003016
Project: 2-1358; San Juan 28-7-19

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: **LCS WATER** Batch ID: **GC-1_000314** Test Code: **SW8021B** Units: **µg/L** Analysis Date **3/14/2000** Prep Date:

Client ID: **0003016** Run ID: **GC-1_000314A** SeqNo: **25645**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	38.31	0.5	40	0.0396	95.7%	89	112				
Ethylbenzene	39.42	0.5	40	0.065	98.4%	93	112				
m,p-Xylene	74.86	1	80	0.1824	93.3%	88	108				
Methyl tert-Butyl Ether	38.63	1	40	0	96.6%	87	115				
o-Xylene	39.41	0.5	40	0.1453	98.2%	93	112				
Toluene	39.19	0.5	40	0.2372	97.4%	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.

Date: *17-Mar-00*

CLIENT: Conoco, Inc.
Work Order: 0003016
Project: 2-1358; San Juan 28-7-19

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: **CCV1 BTEX_0001** Batch ID: **GC-1_000314** Test Code: **SW8021B** Units: **µg/L** Analysis Date **3/14/2000** Prep Date:

Client ID: **0003016** Run ID: **GC-1_000314A** SeqNo: **25642**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.67	0.5	20	0	103.4%	85	115				
Ethylbenzene	21.4	0.5	20	0	107.0%	85	115				
m,p-Xylene	40.35	1	40	0	100.9%	85	115				
Methyl tert-Butyl Ether	20.84	1	20	0	104.2%	85	115				
o-Xylene	21.37	0.5	20	0	106.9%	85	115				
Toluene	21.11	0.5	20	0	105.6%	85	115				
1,4-Difluorobenzene	89.09	0	100	0	89.1%	80	105				
4-Bromochlorobenzene	89.47	0	100	0	89.5%	78	108				
Fluorobenzene	86.62	0	100	0	86.6%	78	108				

Sample ID: **CCV2 BTEX_0001** Batch ID: **GC-1_000314** Test Code: **SW8021B** Units: **µg/L** Analysis Date **3/14/2000** Prep Date:

Client ID: **0003016** Run ID: **GC-1_000314A** SeqNo: **25643**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	19.59	0.5	20	0	98.0%	85	115				
Ethylbenzene	20.23	0.5	20	0	101.2%	85	115				
m,p-Xylene	38.08	1	40	0	95.2%	85	115				
Methyl tert-Butyl Ether	20.17	1	20	0	100.8%	85	115				
o-Xylene	20.22	0.5	20	0	101.1%	85	115				
Toluene	19.94	0.5	20	0	99.7%	85	115				
1,4-Difluorobenzene	88.71	0	100	0	88.7%	80	105				
4-Bromochlorobenzene	90.52	0	100	0	90.5%	78	108				
Fluorobenzene	86.87	0	100	0	86.9%	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: Conoco, Inc.
Work Order: 0003016
Project: 2-1358; San Juan 28-7-19

QC SUMMARY REPORT
Continuing Calibration Verification Standard

Sample ID: **CCV3 BTEX_0001** Batch ID: **GC-1_000314** Test Code: **SW8021B** Units: **µg/L** Analysis Date **3/14/2000** Prep Date:

Client ID: **0003016** Run ID: **GC-1_000314A** SeqNo: **25644**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	38.76	0.5	40	0	96.9%	85	115				
Ethylbenzene	39.61	0.5	40	0	99.0%	85	115				
m,p-Xylene	74.89	1	80	0	93.6%	85	115				
Methyl tert-Butyl Ether	38.99	1	40	0	97.5%	85	115				
o-Xylene	39.58	0.5	40	0	99.0%	85	115				
Toluene	39.39	0.5	40	0	98.5%	85	115				
1,4-Difluorobenzene	88.62	0	100	0	88.6%	80	105				
4-Bromochlorobenzene	89.92	0	100	0	89.9%	78	108				
Fluorobenzene	86.49	0	100	0	86.5%	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: 17-Mar-00

CLIENT: Conoco, Inc.
Work Order: 0003016
Project: 2-1358; San Juan 28-7-19
Test No: SW8021B

QC SUMMARY REPORT SURROGATE RECOVERIES

Aromatic Volatiles by GC/PID

Sample ID	14FBZ	4BCBZ	FLBZ
0003009-01A	89.8	90.3	87.4
0003009-02A	85.6	83.5	87.2
0003009-03A	90.1	89.4	87.6
0003009-04A	89.6	91.4	87.6
0003009-05A	89.9	90	87.5
0003009-06A	89.4	90.4	87.9
0003010-01A	89.4	90.2	87.2
0003010-02A	89.3	90.3	87.4
0003010-03A	89.2	89.8	87.4
0003012-03A	90.1	89.9	87.3
0003012-04A	88.8	88.6	87.3
0003012-05A	86.8	89	85.4
0003012-06A	87	88.9	85.4
0003013-07A	89.8	90	87
0003016-01A	88.1	89.9	86.8
0003017-01A	90.2	91.1	87.3
0003018-01A	86.6	88.6	84.2
0003019-01A	90.2	90.6	91.5
0003019-01AMS	85.9	88.6	88.4
0003019-01AMSD	86.2	89.7	88.7
0003020-01A	86.9	87.8	84.9
CCV1 BTEX_00010	89.1	89.5	86.6
CCV2 BTEX_00010	88.7	90.5	86.9
CCV3 BTEX_00010	88.6	89.9	86.5
LCS WATER	88.1	90.2	85.8
MB1	89.2	89.6	87

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

*** Surrogate recovery outside acceptance limits**

/

10569

CHAIN OF CUSTODY RECORD

ON SITE TECHNOLOGIES, LTD.

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.		
SEND INVOICE TO: Name		REPORT RESULTS TO: Name	Title
Company	Dept.	Company	
Address		Mailing Address	
City, State, Zip		City, State, Zip	
		Telephone No.	Telefax No.

PROJECT LOCATION:

SAMPLER'S SIGNATURE:

SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	SAMPLE PRES.	Number of Containers	ANALYSIS REQUESTED	LAB ID

Relinquished by:	Date/Time	Received by:	Date/Time
Relinquished by:	Date/Time	Received by:	Date/Time
Relinquished by:	Date/Time	Received by:	Date/Time

Method of Shipment:

Rush ☐ 24-48 Hours ☐ 10 Working Days ☐ By Date ☐

Authorized by: _____ Date _____
(Client Signature Must Accompany Request)

Special Instructions / Remarks:

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

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		Telephone No.	Telefax No.

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