3R - 94

REPORTS

DATE:

April 27, 2001

ON SITE
TECHNOLOGIES, LTD.

February 27, 2001

MAY - 1 2001

Mr. Bill Olson
New Mexico Oil Conservation Division
2040 South Pacheco
Santa Fe, New Mexico 87505

RE: Pit Remediation & Closure Reports

On behalf of Conoco ***On Site Technologies Limited Partnership***, is submitting the enclosed Pit Remediation & Closure Reports.

LOCATION NAME	LEGAL DESCRIPTION	RECOMMENDATION
San Juan 28-7#126	Unit M, S 1, T27N, R7W	Pit Remediation & Closure Report
San Juan 28-7#219	Unit N, S 20, T28N, R7W	Pit Remediation & Closure Report
San Juan 28-7#19	Unit G, S 25, T28N, R7W	Pit Remediation & Closure Report
San Juan 28-7#47	Unit A, S 20, T28N, R7W	Pit Remediation & Closure Report

If there are any questions or concerns on this matter, feel free to contact us at (505) 325-5667.

Thank you for your time and considerations.

Respectfully submitted,

Lawrence "Larry" Trujillo, CHMM
Environmental Specialist
On Site Technologies Limited Partnership

CC:
Gary Ledbetter, SHEAR, Conoco Inc., 3315 Bloomfield HWY, Farmington, NM 87401
John Cofer, Sr. Environmental Specialist, Conoco Inc., 3315 Bloomfield HWY, Farmington, NM 874
Denny Foust, NMOCD 1000 Rio Brazos, Aztec, NM 87410
Bill Liess, BLM 1235 La Plata HWY, Farmington, NM 87401
File

PO Box 2606
Farmington, NM 87499

505-325-5667

FAX: 505-327-1496

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, New Mexico 87401

Facility Or: San Juan 28-7-47
Well Name

Location: Unit or Qtr/Qtr Sec A Sec 20 T28N R7W County San Juan

Pit Type: Separator____ Dehydrator____ Other Blowdown pressure relief

Land Type: BLM X, State____, Fee____, Other_____

Pit Location: Pit dimensions: length 10, width 10', depth 4'
(Attach diagram)

Reference: wellhead X, other: ***See Attached Report***

Footage from reference: 75

Direction from reference: 35 Degrees West of North

Depth To Ground Water: (Vertical distance from contaminants to seasonal high water elevation of ground water)	Less than 50 feet (20 points) 50 feet to 99 feet (10 points) Greater than 100 feet (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 (20 points) No (0 points) 0
Distance To Surface Water: (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)	Less than 200 feet (20 points) 200 feet to 1000 feet (10 points) Greater than 1000 feet (0 points) 0
	RANKING SCORE (TOTAL POINTS): 10

San Juan 28-7-19
Conoco Inc.

Date Remediation Started: 6/8/95 **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/blow down releif 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 Annual Ground water report for Sampling and laboratory result
s.
Sample depth

Sample Date | Sample Time

Sample Results
Benzene (ppm) _____
Total BTEX (ppm) _____
Field headspace (ppm) _____
TPH _____

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

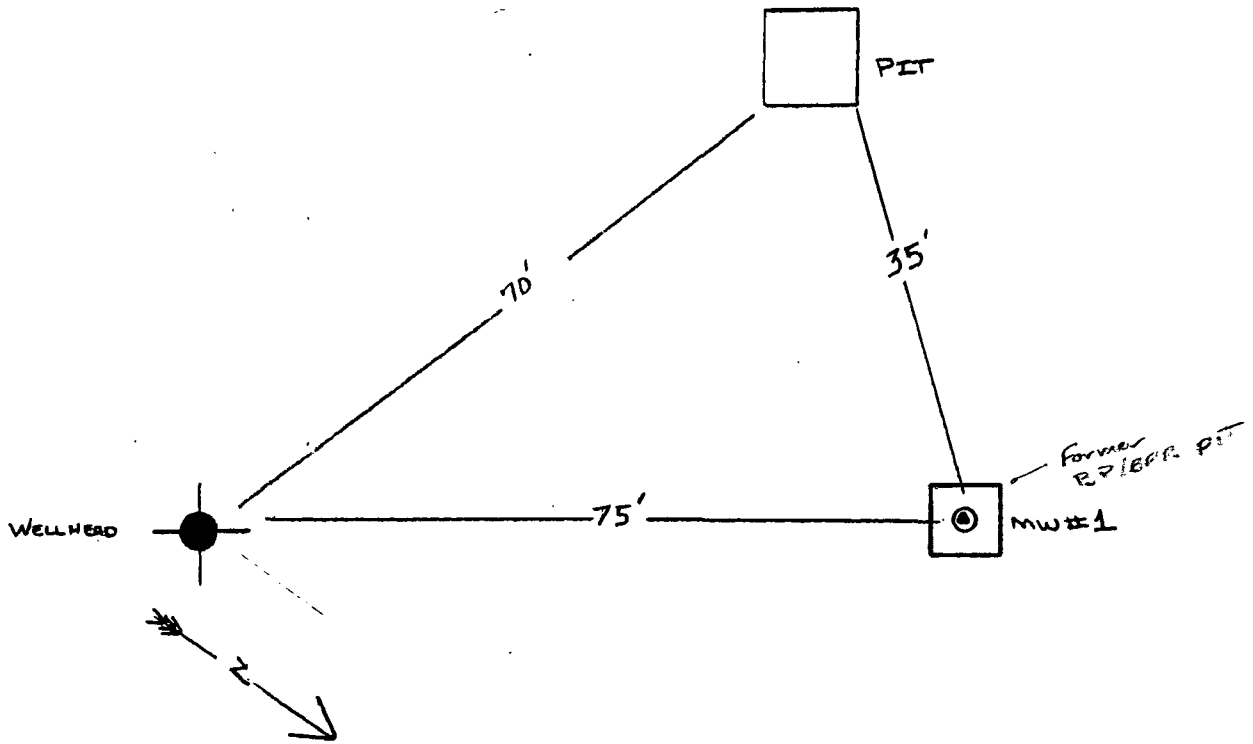
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF

DATE: 27 April 2001

SIGNATURE John E Cofer

PRINTED NAME John E. Cofer TITLE Environmental Coord.

(OCD)



SITE MAP
San Juan 28-7-47
Not to scale
ALL Distances Approximated

ON SITE
TECHNOLOGIES, LTD.

March 2, 2001

Conoco, Inc., San Juan/Lobo Business Unit
Attn.: Mr. Gary Ledbetter, Field SHEAR Specialist
3314 Bloomfield Hwy.
Farmington, NM 87401 Project #; 2-1359

RE: 2000 Annual Ground Water Report and Request for Final Closure.
Conoco Location: San Juan 28-7-47
Unit A, Sec. 20, 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 13, 18, 29 and 38 feet below the ground surface (BGS) and by record field screened for volatile organic compounds. Drilling stopped at 40 feet BGS, maximum extent of drill rigs reach. 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 organic, Benzene above New Mexico Water Quality Control Commission (NMWQCC) standards present. Laboratory result from groundwater sampling event March, 1996 to March, 1999 showed a fluctuation in volatile organic contamination 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.

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 the 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

RECOMMENDATION:

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 geotechnical, petroleum and environmental engineering, and hydrogeology.

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

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

Respectfully submitted,

Lawrence "Larry" Trujillo, C.H.M.M.
Project Manager
On Site Technologies, Limited Partnership

Reviewed by:

Michael K. Lane, P.E.
Senior Engineer

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)

LET/let: 41359-98.doc

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 #47, Unit A, Sec. 20, T28N, R7W, NMPM, San Juan Co., NM.*

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

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 A, Sec. 20, 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 A, Sec. 20, 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, regarding1999 Annual Ground Water Report, *Conoco Location, San Juan 28-7-19, Unit A, Sec. 20, T28N, R7W, NMPM, San Juan Co., NM.*

On Site Technologies
Table 1
Ground Water Level Summary
San Juan 28-7-47
Unit A, Sec. 20, 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	6049.00	84.79			03/26/97	69.59	5979.41
					06/10/97	69.67	5979.33
					10/9/97	79.03	5969. 97
					12/22/97	69.32	5979.68
					3/12/98	69.37	5979.63
					6/9/98	55.08	5993.92
					9/14/98	69.69	5979.31
					12/9/98	68.87	5980.13
					3/1/99	69.28	5979.72
					6/7/99	69.31	5979.69
					9/10/99	69.32	5979.68
					12/13/99	69.11	5979.89
					3/13/00	69.37	5979.63

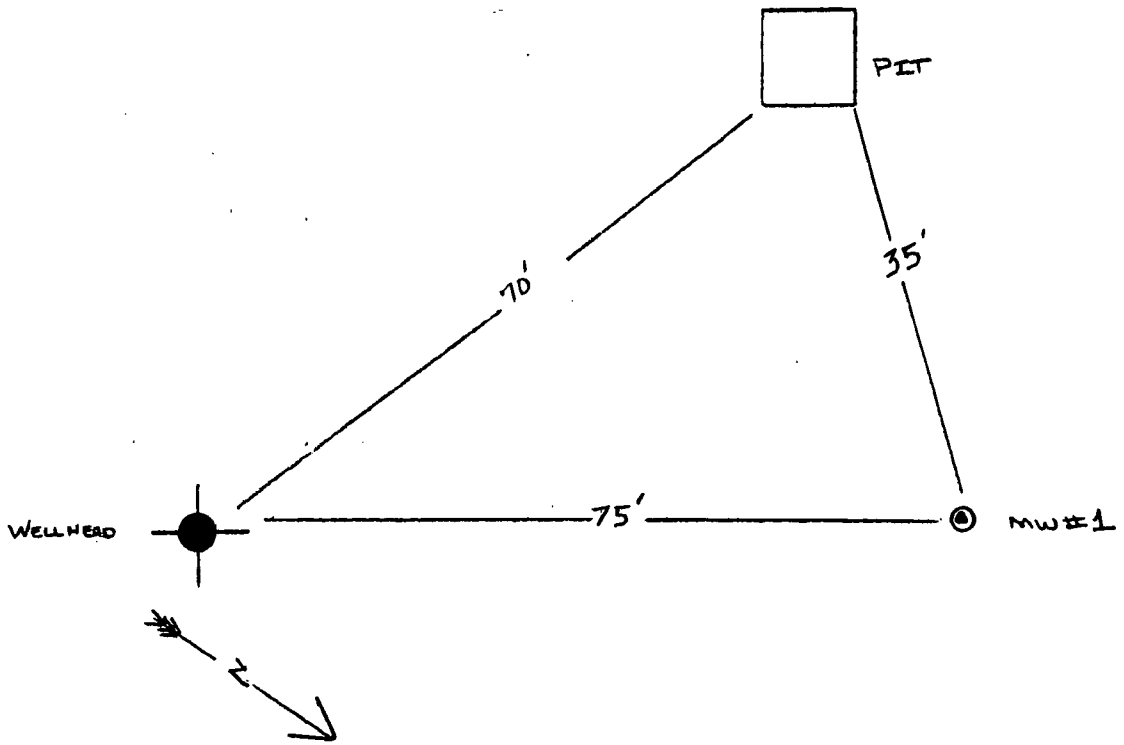
BTOC - Below Top of Casing
NM - Not Measured

gwl1359.doc

On Site Technologies
Table 2
BTEX Analytical Summary
San Juan 28-7-47
Unit A, Sec. 20, T28N, R7W

Sample Date	Sample ID#	Monitor Well	Remarks	BTEX per EPA 8020 (ppb)			
				Benzene	Toluene	Ethylbenzene	Total Xylene
08/15/95	G01392	MW#1	IML	12.2	186.0	BDL	27.7
03/22/96	0396G00321		IML	86.8	896.0	BDL	177.8
03/26/97	14047		On Site Lab.	301.2	821.2	27.0	182.1
04/21/97	14294		On Site Lab.	91.1	291.1	8.0	101.4
06/10/97	14894		On Site Lab.	68.0	196.0	7.0	73.0
10/09/97	16561		On Site Lab.	113.0	344.0	10.0	84.0
12/22/97	17208		On Site Lab.	161.0	355.0	16.0	100.0
3/12/98	9803029-01A		On Site Lab.	120.0	270.0	14.0	81.0
6/9/98	9806033-01A		On Site Lab.	BDL	BDL	BDL	BDL
9/14/98	9809029-01A		On Site Lab.	30.0	19.0	6.1	9.5
12/9/98	9812022-01A		On Site Lab	17.0	33.0	2.4	11.4
3/1/99	9903003-01A		On Site Lab	14.0	59.0	1.4	11.9
6/7/99	9906019-01A		On Site Lab	5.4	11.0	0.8	1.0
9/10/99	9909037-01A		On Site Lab	3.4	6.1	BDL	0.6
12/13/99	9912014-01A		On Site Lab	3.9	12	BDL	2.3
3/13/00	003017-01A		On Site Lab	2.1	8.0	BDL	BDL
WQCC	ACTION	LEVELS		10.0	750.0	750.0	620.0

BDL, Below Detection Levels



SITE MAP
San Juan 28-7-47
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: 2-1359; San Juan 28-7-47 Order No.: 0003017

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:** *17-Mar-00*

CLIENT: Conoco, Inc.
Project: 2-1359; San Juan 28-7-47
Lab Order: 0003017

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.

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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 28-7-47
Work Order:	0003017	**Client Sample ID:**	MW-1
Lab ID:	0003017-01A **Matrix:** AQUEOUS	**Collection Date:**	3/13/2000 9:30:00 AM
Project:	2-1359; San Juan 28-7-47	**COC Record:**	10570

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		**SW8021B**				Analyst: **DC**
Benzene	2.1	0.5		µg/L	1	3/14/2000
Toluene	8	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

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On Site Technologies, LTD.

Date: *17-Mar-00*

CLIENT: Conoco, Inc.
Work Order: 0003017
Project: 2-1359; San Juan 28-7-47

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: **0003017** 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: 0003017
Project: 2-1359; San Juan 28-7-47

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: **0003017** 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: **0003017** 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: 0003017
Project: 2-1359; San Juan 28-7-47

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: **0003017** 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: 0003017
Project: 2-1359; San Juan 28-7-47

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: **0003017** 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: **0003017** 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: 0003017
Project: 2-1359; San Juan 28-7-47

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: **0003017** 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: 0003017
Project: 2-1359; San Juan 28-7-47
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**

1

10570

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: 2/10/20

Page: 1 of 1

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

10570

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

3R - 94

REPORTS

DATE:

April 28, 1997

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Attn:	*Michael K. Lane*	Date:	28-Apr-97
Company:	*On Site Technologies, Ltd. c/o Conoco*	COC No.:	*6322*
Address:	*612 E. Murray Drive*	Sample No.:	*14294*
City, State	*Farmington, NM 87401*	Job No.:	*2-1000*

Project Name:	***Conoco - San Juan 28-7 #47***				
Project Location:	***Monitor Well***				
Sampled by:	ML	Date:	21-Apr-97	Time:	11:10
Analyzed by:	DC	Date:	26-Apr-97		
Sample Matrix:	*Liquid*				

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
Benzene	91.1	ug/L	0.2	ug/L
Toluene	291.1	ug/L	0.2	ug/L
Ethylbenzene	8.0	ug/L	0.2	ug/L
m,p-Xylene	66.4	ug/L	0.2	ug/L
o-Xylene	35.0	ug/L	0.2	ug/L
TOTAL	491.5	ug/L		

ND - Not Detected at Limit of Quantitation

Method - *SW-846 EPA Method 8020A Aromatic Volatile Organics by Gas Chromatography*

Approved By:
Date: 4/28/97

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

QUALITY ASSURANCE REPORT

for EPA Method 8020

Date Analyzed: 26-Apr-97

Internal QC No.: 0527-STD
Surrogate QC No.: 0528-STD
Reference Standard QC No.: 0529/30-QC

Method Blank

Parameter	Result	Unit of Measure
Average Amount of All Analytes In Blank	0.2	ppb

Calibration Check

Parameter	Unit of Measure	True Value	Analyzed Value	% Diff	Limit
Benzene	ppb	20.0	18.1	10	15%
Toluene	ppb	20.0	18.8	6	15%
Ethylbenzene	ppb	20.0	19.0	5	15%
m,p-Xylene	ppb	40.0	36.9	8	15%
o-Xylene	ppb	20.0	19.0	5	15%

Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	%RSD	Limit
Benzene	86	84	(39-150)	2	20%
Toluene	89	87	(46-148)	1	20%
Ethylbenzene	90	89	(32-160)	1	20%
m,p-Xylene	89	88	(35-145)	1	20%
o-Xylene	86	85	(35-145)	1	20%

Surrogate Recoveries

Laboratory Identification	S1 Percent Recovered	S2 Percent Recovered	Laboratory Identification	S1 Percent Recovered	S2 Percent Recovered
Limit Percent Recovered	(70-130)		Limit Percent Recovered	(70-130)	
14294-6322	95				

(RE) 1/28/97

S1: Flourobenzene

CHAIN OF CUSTODY RECORD

3322

ON SITE TECHNOLOGIES, LTD.

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

Date: 4/21/97

Page 1 of 1

Purchase Order No.:	Job No. 2-1359		
SEND INVOICE TO: Name	c/o Michael Lowe - On Site	REPORT RESULTS TO: Name	Michael Lowe — Title Sampler
Company	Conoco — Dept.	Company	On Site
Address		Mailing Address	
City, State, Zip		City, State, Zip	
		Telephone No.	Telefax No.

Sampling Location: San Juan 28-7 #47
Monitor Well

Sampler:

SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	MATRIX	PRES.	Number of Containers	8020 BTEX	LAB ID
Monitor Well	4/21/97	1110	Wtr	HCl	2	✓	14294-10327

Relinquished by:	Date/Time 4/21/97 1650	Received by: Heidi Rees	Date/Time 4/21/97 1700
Relinquished by:	Date/Time	Received by:	Date/Time
Relinquished by:	Date/Time	Received by:	Date/Time

Method of Shipment:

Authorized by: Date 4/21/97
(Client Signature Must Accompany Request)

Rush	24-48 Hours	10 Working Days	Special Instructions:

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

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Attn:	*Michael Lane*	Date:	1-Apr-97
Company:	*On Site Technologies, Ltd. c/o Conoco*	COC No.:	*5100*
Address:	*612 E. Murray Drive*	Sample No.:	*14047*
City, State:	*Farmington, NM 87401*	Job No.:	*4-1359*

Project Name:	***Conoco - 28-7 #47***				
Project Location:	***MW-1***				
Sampled by:	HR	Date:	26-Mar-97	Time:	14:15
Analyzed by:	DC	Date:	31-Mar-97		
Sample Matrix:	*Liquid*				

Parameter	*Result*	*Unit of Measure*	*Detection Limit*	*Unit of Measure*
Benzene	301.2	ug/L	0.2	ug/L
Toluene	821.2	ug/L	0.2	ug/L
Ethylbenzene	27.0	ug/L	0.2	ug/L
m,p-Xylene	182.1	ug/L	0.2	ug/L
o-Xylene	95.0	ug/L	0.2	ug/L
TOTAL	1426.5	ug/L		

Method - *SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography*

Approved By:

Date: 4/1/97

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

QUALITY ASSURANCE REPORT

for EPA Method 8020

Date Analyzed: 31-Mar-97

Internal QC No.: 0527-STD
Surrogate QC No.: 0528-STD
Reference Standard QC No.: 0529/30-QC

Method Blank

Parameter	*Result*	*Unit of Measure*
Average Amount of All Analytes In Blank	<0.2	ppb

Calibration Check

Parameter	*Unit of Measure*	*True Value*	*Analyzed Value*	*% Diff*	*Limit*
Benzene	ppb	20.0	18.0	10	15%
Toluene	ppb	20.0	19.1	5	15%
Ethylbenzene	ppb	20.0	19.5	3	15%
m,p-Xylene	ppb	40.0	37.6	6	15%
o-Xylene	ppb	20.0	19.3	3	15%

Matrix Spike

Parameter	*1- Percent Recovered*	*2 - Percent Recovered*	*Limit*	*%RSD*	*Limit*
Benzene	87	80	(39-150)	3	20%
Toluene	90	81	(46-148)	2	20%
Ethylbenzene	96	89	(32-160)	5	20%
m,p-Xylene	93	86	(35-145)	4	20%
o-Xylene	95	88	(35-145)	4	20%

Surrogate Recoveries

Laboratory Identification	*S1 Percent Recovered*	*S2 Percent Recovered*	*Laboratory Identification*	*S1 Percent Recovered*	*S2 Percent Recovered*
Limit Percent Recovered	(70-130)		*Limit Percent Recovered*	(70-130)	
14047-5100	95				

S1: *Flourobenzene*

4/1/97

CHAIN OF CUSTODY RECORD

5100

ON SITE TECHNOLOGIES, LTD.

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

Date: 5/26/01

Page 1 of 1

Purchase Order No.:	Job No. 21-1551	REPORT RESULTS TO	Name [illegible] Title
SEND INVOICE TO	Name		Company [illegible]
	Company / Dept.		Mailing Address [illegible]
	Address		City, State, Zip [illegible]
	City, State, Zip		Telephone No. / Telefax No.
Sampling Location: [illegible]			
Sampler: Mc			

SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	MATRIX	PRES.	Number of Containers	BTEX	LAB ID
[illegible] MW-1	[illegible]	[illegible]	[illegible]	[illegible]	2	✓	[illegible]

ANALYSIS REQUESTED

Relinquished by: Linda Kaes	Date/Time [illegible]	Received by:	Date/Time 5/29 1155
Relinquished by:	Date/Time	Received by:	Date/Time
Relinquished by:	Date/Time	Received by:	Date/Time

Method of Shipment:

Authorized by: Linda Kaes Date 5/26/01
(Client Signature Must Accompany Request)

Rush	24-48 Hours	10 Working Days	Special Instructions:

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

Inter·Mountain Laboratories, Inc.

2506 W. Main Street
Farmington, New Mexico 87401

VOLATILE AROMATIC HYDROCARBONS

Conoco, Inc.

Project ID:	Not Given	Report Date:	07/26/96
Sample ID:	28-7 #47 MW1	Date Sampled:	07/17/96
Lab ID:	0396G01347	Date Received:	07/17/96
Sample Matrix:	Water	Date Extracted:	NA
Condition:	Cool/Intact	Date Analyzed:	7/18-25/96

Target Analyte	Concentration (ppb)	Detection Limit (ppb)
Benzene	108	20.0
Toluene	589	20.0
Ethylbenzene	ND	20.0
m,p-Xylenes	51.8	20.0
o-Xylene	25.8	20.0

ND - Analyte not detected at the stated detection limit.

Quality Control:

Surrogate	Percent Recovery	Acceptance Limits
Bromofluorobenzene	106.0%	75 -125%

Reference: Method 5030, Purge and Trap; Method 8020, Aromatic Volatile Organics; Test Methods for Evaluating Solid Wastes, SW-846, United States Environmental Protection Agency, September 1986.

Comments:

Analyst

Review

Inter-Mountain Laboratories, Inc

2506 W. Main Street
Farmington, New Mexico 87401

TOTAL PETROLEUM HYDROCARBONS
Quality Assurance/Quality Control

Client:	**Conoco, Inc.**	Date Reported:	07/26/96
Project:	Not Given	Date Sampled:	07/16/96
Matrix:	Soil	Date Received:	07/17/96
Condition:	Intact/Cool	Date Extracted:	07/19/96
		Date Analyzed:	07/19/96

Duplicate Analysis

Lab ID	Sample Result	Duplicate Result	Units	% Difference
0396G01350	822	784	mg/Kg	4.8%

Method Blank Analysis

Lab ID	Result	Units	Detection Limit
Method Blank	ND	mg/Kg	20

Spike Analysis

Lab ID	Found Conc. mg/Kg	Sample Conc. mg/Kg	Spike Amount mg/Kg	Percent ecover	Acceptance Limits
0396G01350	975	883	200	77%	70-130%

Known Analysis

Lab ID	Found Conc. mg/Kg	Known Conc. mg/Kg	Percent ecover	Acceptance Limits
QC	20.1	20.6	98%	70-130%

References:

Method 418.1: Petroleum Hydrocarbons, Total Recoverable, USEPA Chemical Analysis of Water and Waste, 1978.

Method 3550: Ultrasonic Extraction of Non-Volatile and Semi-Volatile Organic Compounds from Solids, USEPA SW-846, Rev. 1, July 1992.

Analyst: _____ Reviewed: _____

Inter-Mountain Laboratories, Inc

2506 W. Main Street
Farmington, New Mexico 87401

TOTAL PETROLEUM HYDROCARBONS
Quality Assurance/Quality Control

Client:	**Conoco, Inc.**	Date Reported:	07/26/96
Project:	Not Given	Date Sampled:	07/16/96
Matrix:	Soil	Date Received:	07/17/96
Condition:	Intact/Cool	Date Extracted:	07/19/96
		Date Analyzed:	07/19/96

Duplicate Analysis

Lab ID	Sample Result	Duplicate Result	Units	% Difference
0396G01360	324	311	mg/Kg	4.0%

Method Blank Analysis

Lab ID	Result	Units	Detection Limit
Method Blank	ND	mg/Kg	20

Spike Analysis

Lab ID	Found Conc. mg/Kg	Sample Conc. mg/Kg	Spike Amount mg/Kg	Percent ecover	Acceptance Limits
0396G01360	516	324	250	77%	70-130%

Known Analysis

Lab ID	Found Conc. mg/Kg	Known Conc. mg/Kg	Percent ecover	Acceptance Limits
QC	20.1	20.6	98%	70-130%

References:

Method 418.1: Petroleum Hydrocarbons, Total Recoverable, USEPA Chemical Analysis of Water and Waste, 1978.

Method 3550: Ultrasonic Extraction of Non-Volatile and Semi-Volatile Organic Compounds from Solids, USEPA SW-846, Rev. 1, July 1992.

Analyst: _____ Reviewed: _____

Inter-Mountain Laboratories, Inc.

2506 W. Main Street
Farmington, New Mexico 87401

Quality Control / Quality Assurance

Known Analysis
BTEX

Client: Conoco, Inc.
Project: Not Given

Date Reported: 07/26/96
Date Analyzed: 07/18/96

Known Analysis

Parameter	Found Concentration (ppb)	Known Concentration (ppb)	Percent Recovery	Acceptance Limits
Benzene	6.5	6.0	108%	70-130%
Toluene	7.3	6.0	121%	70-130%
Ethylbenzene	6.6	6.0	110%	70-130%
m+p-Xylene	11.6	12.0	97%	70-130%
o-Xylene	7.1	6.0	118%	70-130%

Quality Control:

Surrogate	Percent Recovery	Acceptance Limits
Bromofluorobenzene	82.5%	75-125%

Reference: Method 5030, Purge and Trap: Method 8020, Aromatic Volatile Organics; Test Methods for Evaluating Solid Wastes, SW-846, United States Environmental Protection Agency, September 1986.

Comments:

Reported by _____

Reviewed by _____

Inter-Mountain Laboratories, Inc.

2506 W. Main Street
Farmington, New Mexico 87401

VOLATILE AROMATIC HYDROCARBONS
QUALITY CONTROL REPORT

Method Blank Analysis

Sample Matrix: Water
Lab ID: Method Blank

Report Date: 07/26/96
Date Analyzed: 07/18/96

Target Analyte	Concentration (ppb)	Detection Limit (ppb)
Benzene	ND	0.2
Toluene	ND	0.2
Ethylbenzene	ND	0.2
m,p-Xylenes	ND	0.2
o-Xylene	ND	0.2

ND - Analyte not detected at the stated detection limit.

Quality Control:

Surrogate	Percent Recovery	Acceptance Limits
Bromofluorobenzene	96.5%	75-125%

Reference: Method 5030, Purge and Trap; Method 8020, Aromatic Volatile Organics; Test Methods for Evaluating Solid Wastes, SW-846, United States Environmental Protection Agency, September 1986.

Comments:

Analyst

Review

Inter-Mountain Laboratories, Inc.

2506 W. Main Street
Farmington, New Mexico 87401

VOLATILE AROMATIC HYDROCARBONS
QUALITY CONTROL REPORT

Matrix Spike Analysis

Lab ID: 0396G01343
Sample Matrix: Water
Condition: Cool/Intact

Report Date: 07/26/96
Date Analyzed: 07/18-25/96

Target Analyte	Spiked Sample Result in ppb	Sample result in ppb	Spike Added (ppb)	% Recovery	Acceptance Limits (%)
Benzene	168	4.54	150	109%	70-130
Toluene	194	9.47	150	123%	70-130
Ethylbenzene	173	ND	150	115%	70-130
m,p-Xylenes	299	ND	300	99.7%	70-130
o-Xylene	181	2.00	150	119%	70-130

ND - Analyte not detected at the stated detection limit.
NA - Not applicable or not calculated.

Quality Control:	Surrogate	Percent Recovery	Acceptance Limits
	Bromofluorobenzene	106.4%	75 -125%

Reference: Method 5030, Purge and Trap; Method 8020, Aromatic Volatile Organics; Test Methods for Evaluating Solid Wastes, SW-846, United States Environmental Protection Agency, September 1986.

Comments:

Analyst

Review

Inter·Mountain Laboratories, Inc.

2506 W. Main Street
Farmington, New Mexico 87401

VOLATILE AROMATIC HYDROCARBONS
QUALITY CONTROL REPORT

Duplicate Analysis

Lab ID: 0396G01343
Sample Matrix: Water
Condition: Cool/Intact

Report Date: 07/26/96
Date Analyzed: 07/18-25/96

Target Analyte	Duplicate Concentration (ppb)	Original Concentration (ppb)	% Difference
Benzene	4.8	5.6	15.4
Toluene	8.7	10.1	14.9
Ethylbenzene	ND	ND	NA
m,p-Xylenes	ND	1.2	NA
o-Xylene	2.0	2.3	14.0

ND - Analyte not detected at the stated detection limit.
NA - Not applicable or not calculated.

Quality Control:

Surrogate	Percent Recovery	Acceptance Limits
Bromofluorobenzene	82.8%	75 -125%

Reference: Method 5030, Purge and Trap; Method 8020, Aromatic Volatile Organics; Test Methods for Evaluating Solid Wastes, SW-846, United States Environmental Protection Agency, September 1986.

Comments:

Analyst

Review

(conoco)

Environmental Sample Chain of Custody and Log

Research and Engineering

Project Number

Type or Print Data

Facility Name: Conoco	Telephone Number: (505) 324-5813
Facility Address: 3315 Bloomfield Hwy	Transporter Name / Transporter Address
Facility Supervisor: John Coy	Telephone Number / Method of Shipping
Process Producing Sample	Special Shipping Instructions
Employee(s) Sampling: Neal Coates / Brent Dunagan	Remarks
Other Employee(s) Handling	

Sample I.D. No. and Description	Date	Time	Sample Type	Total Volume	Containers Type	No.	Analysis Req. ▶ Preservative	BTEX - Wtr	soil TPH	
28-7 #47 MW 1	7-16-96	9:30am	Wtr.	40mL	Glss	1	HCl 1:1	1		
28-7 # 72A - LF	7-16-96	9:45am	soil	8 oz	Glss	1	none		1	
28-7 # 72 - LF	7-16-96	10:00am	soil	8 oz	Glss	1	none		1	
28-7 # 19 - ~~F~~MW 1	7-16-96	1100 am	Wtr	40 mL	Glss	1	HCl 1:1	1		
28-7 # 167 Pit 1	7-16-96	100 pm	soil	8 oz	Glss	1	none		1	
28-7 # 167 pit 2	7-16-96	105 pm	soil	8 oz	Glss	1	none		1	
28-7 # 167 pit 3	7-16-96	110 pm	soil	8 oz	Glss	1	none		1	
28-7 # 202 pit 2	7-16-96	145pm	soil	8 oz	Glss	1	none		1	
28-7 # 202 pit 1	7-16-96	140pm	soil	8 oz	Glss	1	none		1	
28-7 # 67 Pit 1	7-16-96	130pm	soil	8 oz	Glss	1	none		1	
28-7 # 170 pit 1	7-16-96	230pm	soil	8 oz	Glss	1	none		1	
28-7 # 170 pit 2	7-16-96	235pm	soil	8 oz	Glss	1	none		1	
28-7 # 122 pit 1	7-16-96	300pm	soil	8 oz	Glss	1	none		1	
28-7 # 173 pit 1	7-16-96	330pm	soil	8 oz	Glss	1	none		1	
28-7 # 173 pit 2	7-16-96	335pm	soil	8 oz	Glss	1	none		1	Conf + Untest
28-7 # 173 pit 3	7-16-96	340pm	soil	8 oz	Glss	1	none		1	
28-7 # 196 pit 1	7-16-96	430pm	soil	8 oz	Glss	1	none		1	
28-7 # 196 pit 2	7-16-96	435pm	soil	8 oz	Glss	1	none		1	
28-7 # 120 MW 1	7-16-96	545pm	Wtr.	40 mL	Glss	1	HCl 1:1	1		

Signatures

Bottles Relinquished by	Date/Time	Bottles Received by	Date/Time	Condition of Samples Upon Arrival at Final Destination
[signature]	7/17/96 8:30am	Chris Rayner	7-17-96 0830	
Relinquished by	Date/Time	Received by	Date/Time	
Relinquished by	Date/Time	Received by	Date/Time	Signature / Date
Relinquished by	Date/Time	Received by	Date/Time	Temp. of Samples on Arrival (Temp. sensitive analysis only)
Relinquished by	Date/Time	Received by	Date/Time	
Relinquished by	Date/Time	Received by	Date/Time	Signature / Date

5 157 X3, 10 91

ANALYZING LAB COPY

Inter-Mountain Laboratories, Inc.

2506 W. Main Street
Farmington, New Mexico 87401

VOLATILE AROMATIC HYDROCARBONS

Conoco, Inc.

Project ID:	Water BTEX	Report Date:	04/24/96
Sample ID:	SJ 28-7 #47	Date Sampled:	04/15/96
Lab ID:	0396W00614	Date Received:	04/15/96
Sample Matrix:	Water	Date Extracted:	NA
Condition:	Cool/Intact	Date Analyzed:	04/17/96

Target Analyte	Concentration (ppb)	Detection Limit (ppb)
Benzene	85.1	2.0
Toluene	845	2.0
Ethylbenzene	7.1	2.0
m,p-Xylenes	122	2.0
o-Xylene	40.2	2.0

ND - Analyte not detected at the stated detection limit.

Quality Control:

Surrogate	Percent Recovery	Acceptance Limits
Bromofluorobenzene	105.8	75 -125%

Reference: Method 5030, Purge and Trap; Method 8020, Aromatic Volatile Organics; Test Methods for Evaluating Solid Wastes, SW-846, United States Environmental Protection Agency, September 1986.

Comments:

Analyst

Review

Inter·Mountain
Laboratories, Inc.

2506 West Main Street
Farmington, New Mexico 87401
Tel. (505) 326-4737

25 April 1996

John Coy
Conoco Inc.
3315 Bloomfield Hwy
Farmington, NM 87401

Mr. Coy:

Enclosed please find the report for the sample received by our laboratory for analysis on April15, 1996.

If you have any questions about the results of these analyses, please don't hesitate to call me at your convenience.

Sincerely,

Anna Schaerer

Anna Schaerer
Organic Analyst/IML-Farmington

Enclosure

xc: File

Inter·Mountain Laboratories, Inc.

2506 W. Main Street
Farmington, New Mexico 87401

VOLATILE AROMATIC HYDROCARBONS
QUALITY CONTROL REPORT

Duplicate Analysis

Lab ID: 0396W00606
Sample Matrix: Water
Condition: Cool/Intact

Report Date: 04/24/96
Date Analyzed: 04/15/96

Target Analyte	Duplicate Concentration (ppb)	Original Concentration (ppb)	% Difference
Benzene	8.7	11.2	25.1
Toluene	2.5	3.1	21.4
Ethylbenzene	1.7	2.1	21.1
m,p-Xylenes	19.4	24.1	21.6
o-Xylene	4.1	5.0	19.8

ND - Analyte not detected at the stated detection limit.
NA - Not applicable or not calculated.

Quality Control:	Surrogate	Percent Recovery	Acceptance Limits
	Bromofluorobenzene	90%	75 -115%

Reference: Method 5030, Purge and Trap; Method 8020, Aromatic Volatile Organics; Test Methods for Evaluating Solid Wastes, SW-846, United States Environmental Protection Agency, September 1986.

Comments:

Analyst

Review

Inter-Mountain Laboratories, Inc.

2506 W. Main Street
Farmington, New Mexico 87401

VOLATILE AROMATIC HYDROCARBONS
QUALITY CONTROL REPORT

Matrix Spike Analysis

Lab ID: 0396W00602
Sample Matrix: Water
Condition: Cool/Intact

Report Date: 04/24/96
Date Analyzed: 04/15/96

Target Analyte	Spiked Sample Result in ng	Sample result in ng	Spike Added (ng)	% Recovery	Acceptance Limits (%)
Benzene	30.87	7.94	30	76.4%	70-130
Toluene	30.44	4.24	30	87.3%	70-130
Ethylbenzene	27.20	1.73	30	84.9%	70-130
m,p-Xylenes	52.88	1.33	60	85.9%	70-130
o-Xylene	45.18	17.08	30	93.7%	70-130

ND - Analyte not detected at the stated detection limit.
NA - Not applicable or not calculated.

Quality Control:	Surrogate	Percent Recovery	Acceptance Limits
	Bromofluorobenzene	97%	75 -125%

Reference: Method 5030, Purge and Trap; Method 8020, Aromatic Volatile Organics; Test Methods for Evaluating Solid Wastes, SW-846, United States Environmental Protection Agency, September 1986.

Comments:

Analyst

Review

Inter·Mountain Laboratories, Inc.

2506 W. Main Street
Farmington, New Mexico 87401

VOLATILE AROMATIC HYDROCARBONS
QUALITY CONTROL REPORT

Method Blank Analysis

Sample Matrix: Water
Lab ID: Method Blank

Report Date: 04/24/96
Date Analyzed: 04/17/96

Target Analyte	Concentration (ppb)	Detection Limit (ppb)
Benzene	ND	0.2
Toluene	ND	0.2
Ethylbenzene	ND	0.2
m,p-Xylenes	ND	0.2
o-Xylene	ND	0.2

ND - Analyte not detected at the stated detection limit.

Quality Control:

Surrogate	Percent Recovery	Acceptance Limits
Bromofluorobenzene	106.0	75-125%

Reference: Method 5030, Purge and Trap; Method 8020, Aromatic Volatile Organics; Test Methods for Evaluating Solid Wastes, SW-846, United States Environmental Protection Agency, September 1986.

Comments:

Analyst

Review

Inter-Mountain Laboratories, Inc.

2506 W. Main Street
Farmington, New Mexico 87401

Quality Control / Quality Assurance

Known Analysis
BTEX

Client: **Conoco, Inc.**
Project: Water BTEX

Date Reported: 04/24/96
Date Analyzed: 04/17/96

Known Analysis

Parameter	Found Concentration (ppb)	Known Concentration (ppb)	Percent Recovery	Acceptance Limits
Benzene	12.68	12.0	**106%**	70-130%
Toluene	13.92	12.0	**116%**	70-130%
Ethylbenzene	13.10	12.0	**109%**	70-130%
m+p-Xylene	26.2	24.0	**109%**	70-130%
o-Xylene	13.28	12.0	**111%**	70-130%

Quality Control:

Surrogate	Percent Recovery	Acceptance Limits
Bromofluorobenzene	113.8	75-125%

Reference: Method 5030, Purge and Trap: Method 8020, Aromatic Volatile Organics; Test Methods for Evaluating Solid Wastes, SW-846, United States Environmental Protection Agency, September 1986.

Comments:

Reported by _____

Reviewed by _____

conoco

Environmental Sample Chain of Custody and
Research and Engineering

No. 3816

Project Number

Facility Name	Telephone Number	Transporter Name	Telephone Number
Conoco Inc	(505) 324-5813	SAMR	( ) -
Facility Address		**Transporter Address**	
3315 Bloomfield Hwy, Farmington NM, 87401			
Facility Supervisor		**Method of Shipping**	
CJL		Hand Deliver	
Process Producing Sample	**Special Shipping Instructions**		
WTR BTEX			
Employee(s) Sampling	**Remarks**		
CJ Coy			
Other Employee(s) Handling			

Sample I.D. No. and Description	Date	Time	Sample Type	Total Volume	Containers Type	Containers No.	Analysis Req. ▶ Preservative	WTR BTEX
1) 55287 #47	4-15-96	12:00pm	WTR BTEX		GLASS	1	1:1 HCL	1

Cool + Intact

Bottles Relinquished by	Date/Time	Bottles Received by	Date/Time	Condition of Samples Upon Arrival at Final Destination
CJ Coy	4/15/96 1:25 PM			
Chris Raynor	4/15/96 1325	Received by	Date/Time	
Relinquished by	Date/Time	Received by	Date/Time	Signature / Date
Relinquished by	Date/Time	Received by	Date/Time	Temp. of Samples on Arrival (Temp. sensitive analysis only)
Relinquished by	Date/Time	Received by	Date/Time	
Relinquished by	Date/Time	Received by	Date/Time	Signature / Date

-157 X3, 10-91

ANALYZING LAB COPY

Inter-Mountain Laboratories, Inc.

2506 W. Main Street
Farmington, New Mexico 87401

VOLATILE AROMATIC HYDROCARBONS

Conoco

Project ID:	Water-BTEX	Report Date:	03/29/96
Sample ID:	#1 SJ 28-7 #47	Date Sampled:	03/22/96
Lab ID:	0396G00321	Date Received:	03/22/96
Sample Matrix:	Water	Date Extracted:	NA
Condition:	Cool/Intact	Date Analyzed:	03/25/96

Target Analyte	Concentration (ppb)	Detection Limit (ppb)
Benzene	86.8	10.0
Toluene	896	10.0
Ethylbenzene	ND	10.0
m,p-Xylenes	140	10.0
o-Xylene	37.8	10.0

ND - Analyte not detected at the stated detection limit.

Quality Control:

Surrogate	Percent Recovery	Acceptance Limits
Bromofluorobenzene	100.2	75 -125%

Reference: Method 5030, Purge and Trap; Method 8020, Aromatic Volatile Organics; Test Methods for Evaluating Solid Wastes, SW-846, United States Environmental Protection Agency, September 1986.

Comments:

lyst

Review

conoco

Environmental Sample Chain of Custody and
Research and Engineering

No. 251

Project Number

Type or Print Data

Facility Name	Telephone Number	Transporter Name	Telephone Number
Conoco Inc	(505) 324-5813	Conoco Inc	( ) -
Facility Address		**Transporter Address**	
3315 Bloomfield Hwy, Farmington, NM, 87401		Same	
Facility Supervisor		**Method of Shipping**	
C J Coy		Hand Deliver	
Process Producing Sample	**Special Shipping Instructions**		
WTR-BTEX	—		
Employee(s) Sampling	**Remarks**		
C J C	—		
Other Employee(s) Handling			
—			

Sample I.D. No. and Description	Date	Time	Sample Type	Total Volume	Containers Type	Containers No.	Analysis Req. ▶ Preservative	WTR BTEX
#1 SJ28-7 #47	3/22/96	11:00 Am	WTR-BTEX		Glass	1	1:1 HCL	1

Signatures

Bottles Relinquished by	Date/Time	Bottles Received by	Date/Time	Condition of Samples Upon Arrival at Final Destination
C J Coy	3/22/96 1:10 Pm	Alona Bartell	3/22/96 1:10pm	cool/intact
Relinquished by	Date/Time	Received by	Date/Time	
Relinquished by	Date/Time	Received by	Date/Time	Signature / Date
Relinquished by	Date/Time	Received by	Date/Time	Temp. of Samples on Arrival (Temp. sensitive analysis only)
Relinquished by	Date/Time	Received by	Date/Time	
Relinquished by	Date/Time	Received by	Date/Time	Signature / Date

5-157 X2 10-91

ANALYZING LAB COPY

Inter-Mountain Laboratories, Inc

2506 W. Main Street
Farmington, New Mexico 87401

Conoco Inc.

Case Narrative

On March 13, 1995, four samples were submitted to Inter-Mountain Laboratories - Farmington for analysis. The samples were received intact. Analyses for Benzene-Toluene-Ethylbenzene-Xylenes (BTEX) was performed on the samples as per the accompanying Chain of Custody document. The samples were sent to College Station, Texas to be analyzed because of instrument problems. Sample SJ 28-7 #47 was received broken. Another sample was brought in March 22, 1996 for analysis.

BTEX analysis on the samples were performed by EPA Method 5030, Purge and Trap, and EPA Method 8020, Aromatic Volatile Hydrocarbons, using an OI Analytical 4560 Purge and Trap and a Hewlett-Packard 5890 Gas Chromatograph, equipped with a photoionization detector. Detectable levels of BTEX analytes were found in the samples as indicated in the enclosed report.

It is the policy of this laboratory to employ, whenever possible, preparatory and analytical methods which have been approved by regulatory agencies. The methods used in the analyses of the samples reported herein are found in Test Methods for Evaluation of Solid Waste, SW-846, USEPA, 1986 and Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, USEPA, 1983.

Quality control reports appear at the end of the analytical package and may be identified by title. If there are any questions regarding the information presented in this package, please feel free to call at your convenience.

Sincerely,

Anna Schaerer

Anna Schaerer
Organic Analyst

Inter-Mountain Laboratories, Inc

2506 W. Main Street
Farmington, New Mexico 87401

VOLATILE AROMATIC HYDROCARBONS
QUALITY CONTROL REPORT

Duplicate Analysis

Lab ID: 0396W00422
Sample Matrix: Water
Condition: Cool/Intact

Report Date: 03/29/96
Date Analyzed: 03/27/96

Target Analyte	Duplicate Concentration (ppb)	Original Concentration (ppb)	% Difference
Benzene	ND	ND	NA
Toluene	ND	ND	NA
Ethylbenzene	ND	ND	NA
m,p-Xylenes	ND	ND	NA
o-Xylene	ND	ND	NA

ND - Analyte not detected at the stated detection limit.
NA - Not applicable or not calculated.

Quality Control:	Surrogate	Percent Recovery	Acceptance Limits
	Bromofluorobenzene	120.5%	75 -115%

Reference: Method 5030, Purge and Trap; Method 8020, Aromatic Volatile Organics; Test Methods for Evaluating Solid Wastes, SW-846, United States Environmental Protection Agency, September 1986.

Comments:

Analyst

Review

Inter-Mountain Laboratories, Inc

2506 W. Main Street
Farmington, New Mexico 87401

VOLATILE AROMATIC HYDROCARBONS
QUALITY CONTROL REPORT

Matrix Spike Analysis

Lab ID: 0396W00422
Sample Matrix: Water
Condition: Cool/Intact

Report Date: 03/29/96
Date Analyzed: 03/27/96

Target Analyte	Spiked Sample Result in ng	Sample result in ng	Spike Added (ng)	% Recovery	Acceptance Limits (%)
Benzene	57.66	0.86	60	94.7%	70-130
Toluene	53.22	0.00	60	88.7%	70-130
Ethylbenzene	55.14	0.00	60	91.9%	70-130
m,p-Xylenes	114.38	0.00	120	95.3%	70-130
o-Xylene	55.79	0.00	60	93.0%	70-130

ND - Analyte not detected at the stated detection limit.
NA - Not applicable or not calculated.

Quality Control:

Surrogate	Percent Recovery	Acceptance Limits
Bromofluorobenzene	107.6%	75 -125%

Reference: Method 5030, Purge and Trap; Method 8020, Aromatic Volatile Organics; Test Methods for Evaluating Solid Wastes, SW-846, United States Environmental Protection Agency, September 1986.

Comments:

Analyst

Review

Inter-Mountain Laboratories, Inc

2506 W. Main Street
Farmington, New Mexico 87401

VOLATILE AROMATIC HYDROCARBONS
QUALITY CONTROL REPORT

Method Blank Analysis

Sample Matrix:	Water	Report Date:	03/29/96
Lab ID:	Method Blank	Date Analyzed:	03/25/96

Target Analyte	Concentration (ppb)	Detection Limit (ppb)
Benzene	0.2	0.2
Toluene	ND	0.2
Ethylbenzene	ND	0.2
m,p-Xylenes	ND	0.2
o-Xylene	ND	0.2

ND - Analyte not detected at the stated detection limit.

Quality Control:

Surrogate	Percent Recovery	Acceptance Limits
Bromofluorobenzene	* NA	75-125%

Reference: Method 5030, Purge and Trap; Method 8020, Aromatic Volatile Organics; Test Methods for Evaluating Solid Wastes, SW-846, United States Environmental Protection Agency, September 1986.

Comments: * Surrogate was not added to this run.

Analyst

Review

Inter-Mountain Laboratories, Inc

2506 W. Main Street
Farmington, New Mexico 87401

Quality Control / Quality Assurance

Known Analysis
BTEX

Client: Conoco
Project: Water-BTEX

Date Reported: 03/28/96
Date Analyzed: 03/25/96

Known Analysis

Parameter	Found Concentration (ppb)	Known Concentration (ppb)	Percent Recovery	Acceptance Limits
Benzene	6.37	6.0	106%	70-130%
Toluene	5.84	6.0	97%	70-130%
Ethylbenzene	5.81	6.0	97%	70-130%
m+p-Xylene	12.3	12.0	102%	70-130%
o-Xylene	5.89	6.0	98%	70-130%

Quality Control:	Surrogate	Percent Recovery	Acceptance Limits
	Bromofluorobenzene	101.0	75-125%

Reference: Method 5030, Purge and Trap: Method 8020, Aromatic Volatile Organics; Test Methods for Evaluating Solid Wastes, SW-846, United States Environmental Protection Agency, September 1986.

Comments:

Reported by _____

Reviewed by _____

imi

Inter-Mountain Laboratories, Inc.

Inorganics Laboratory
11183 SH 30 College Station, Texas 77845
Phone (409) 776-8945 Fax (409) 774-4705

Organics Laborato
3304 Longmire Drive College Station, Texas 778-
Phone (409) 774-4999 Fax (409) 696-09(

QUALITY CONTROL REPORT - METHOD BLANK
VOLATILE AROMATIC HYDROCARBONS

Sample Number MB0320
Sample Matrix: Water

Report Date: 03/20/96
Date Analyzed: 03/20/96
Time Analyzed: 10:04 AM

Analyte	Concentration (mg/L)	Detection Limit (mg/L)
Benzene	ND	0.001
Toluene	ND	0.001
Ethylbenzene	ND	0.001
p,m-xylene	ND	0.001
o-xylene	ND	0.001

ND - Analyte not detected at stated detection limit

Quality Control:

Surrogate	Percent Recovery	Acceptance Limits
a,a,a-Trifluorotoluene	102%	75 - 125%
Bromofluorobenzene	99%	70 - 120%

Reference: Method 5030A, Purge and Trap.
Method 8020A, Aromatic Volatile Organics.
SW-846, Test Methods for Evaluating Solid Waste, United States Environmental Protection Agency, Final Update II, September 1994.

Comments:

Analyst

Ramona R. Dennis
Review

imi

Inter-Mountain Laboratories, Inc.

Inorganics Laboratory
11183 SH 30 College Station, Texas 77845
Phone (409) 776-8945 Fax (409) 774-4705

Organics Laboratory
3304 Longmire Drive College Station, Texas 77845
Phone (409) 774-4999 Fax (409) 696-0967

QUALITY CONTROL REPORT - BLANK SPIKE
VOLATILE AROMATIC HYDROCARBONS

Sample Number: Blank Spike
Sample Matrix: Water

Report Date: 03/20/96
Date Extracted: 03/20/96
Date Analyzed: 03/20/96
Time Analyzed: 2:34 PM

Analyte	Spike Added ppb	Sample Result ppb	Spike Result ppb	Percent Recovery	Acceptance Limit
Benzene	0.020	ND	0.021	105%	39-150%
Toluene	0.020	ND	0.021	104%	46-148%
Ethylbenzene	0.020	ND	0.020	102%	32-160%
m-Xylene	0.020	ND	0.021	104%	50-150%
o-Xylene	0.020	ND	0.020	102%	50-150%

Quality Control:

Surrogate	Percent Recovery	Acceptance Limits
a,a,a-Trifluorotoluene	100%	75 - 125%
Bromofluorobenzene	105%	70 - 120%

Reference: Method 5030A, Purge and Trap.
Method 8020A, Aromatic Volatile Organics.
SW-846, Test Methods for Evaluating Solid Waste, United States Environmental Protection Agency, Final Update II, September 1994.

Comments:

Analyst

Ramona R. Reeves
Review

imL

Inter-Mountain Laboratories, Inc.

Inorganics Laboratory
11183 SH 30 College Station, Texas 77845
(409) 776-8945 Fax (409) 774-4705

Organics Laborator
3304 Longmire Drive College Station, Texas 7784
Phone (409) 774-4999 Fax (409) 696-096

QUALITY CONTROL REPORT - BLANK SPIKE DUPLICATE
VOLATILE AROMATIC HYDROCARBONS

Sample Number: Blank Spike Duplicate
Sample Matrix: Water

Report Date: 03/20/96
Date Extracted: 03/20/96
Date Analyzed: 03/20/96
Time Analyzed: 3:15 PM

Analyte	Spike Recovery (%)	Duplicate Recovery (%)	Percent Difference
Benzene	105%	109%	3%
Toluene	104%	108%	4%
Ethylbenzene	102%	107%	4%
m-Xylene	104%	109%	4%
o-Xylene	102%	107%	4%

Quality Control:

Surrogate	Percent Recovery	Acceptance Limits
a,a,a-Trifluorotoluene	101%	75 - 125%
Bromofluorobenzene	102%	70 - 120%

Reference: Method 5030A, Purge and Trap.
Method 8020A, Aromatic Volatile Organics.
SW-846, Test Methods for Evaluating Solid Waste, United States Environmental Protection Agency, Final Update II, September 1994.

Comments:

Analyst

Ramona R. Dennis
Review

conoco

Environmental Sample Chain of Custody and L
Research and Engineering

No. 77

Project Number

Facility Name: CONOCO INC.	Telephone Number: (505) 324-5813	Transporter Name: CONOCO INC.	Telephone Number: ( ) -
Facility Address: 3315 BLOOMFIELD HWY FARMINGTON, NM 87401		Transporter Address: SAME	
Facility Supervisor: C. J Coy		Method of Shipping: HAND DELIVER	
Process Producing Sample: WATER BTEX	Special Shipping Instructions: —		
Employee(s) Sampling: CJ Coy	Remarks: —		
Other Employee(s) Handling: —			

Sample I.D. No. and Description	Date	Time	Sample Type	Total Volume	Containers Type	Containers No.	Analysis Req. ▶ Preservative	WTR BTEX	
1) SJ28-7 #219	3/12/96	11:05 AM	WTR-BTEX		GLASS	1	1:1 HCL	1	
2) SJ28-7 #47	3/12/96	12:45 PM	WTR. BTEX		"	"	"	1	Broken when shipped TCS
3) SJ28-7 #19	3/12/96	2:25 PM	WTR-BTEX		"	"	"	1	
4) SJ28-7 #126	3/12/96	4:[illegible] PM	WTR BTEX		"	"	"	1	

Bottles Relinquished by: Carl J Coy	Date/Time: 3/13/96 11:00 AM	Bottles Received by: Anna Schaerer	Date/Time: 3/13/96 1100	Condition of Samples Upon Arrival at Final Destination	
Relinquished by	Date/Time	Received by	Date/Time		
Relinquished by	Date/Time	Received by	Date/Time	Signature	Date
Relinquished by	Date/Time	Received by	Date/Time	Temp. of Samples on Arrival (Temp. sensitive analysis only)	
Relinquished by	Date/Time	Received by	Date/Time		
Relinquished by	Date/Time	Received by	Date/Time	Signature	Date