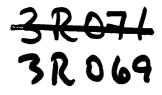
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ANNUAL MONITORING REPORT

03/27/2008



ANNUAL GROUNDWATER MONITORING REPORT

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CONOCOPHILLIPS HAMPTON #4 M AZTEC, NEW MEXICO OCD # RECEIVED

APR 02 2008

Oil Conservation Division

Environmental Bureau

Prepared for:

ConocoPhillips

420 South Keeler Avenue Bartlesville, OK 74004

Prepared by:



6121 Indian School Rd. NE, Suite 200 Albuquerque, NM 87110 Tetra Tech Project No. 1158690062

March 27, 2008

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- 2. Site Layout Map
- 3. Groundwater Elevation Contour Map

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2. Groundwater Laboratory Analytical Results Summary

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Appendix A. Laboratory Analysis Reports

ANNUAL GROUNDWATER MONITORING REPORT HAMPTON #4M, AZTEC, NEW MEXICO

I.0 INTRODUCTION

This report presents the results of quarterly groundwater monitoring events conducted by Lode Star LLC in March and June 2007, and by Tetra Tech, Inc. (Tetra Tech) in November 2007 and January 2008, at the ConocoPhillips Hampton #4M site near Aztec, New Mexico,

The site is located approximately ¹/₄ mile south of Hampton Arroyo and 2 miles southeast of Aztec, New Mexico. The site consists of a gas production well and associated equipment and installations. The location and general features of the Hampton #4M site are shown on Figures 1 and 2, respectively.

I.I Site Background

The environmental investigation at this site began in 1997 with the implementation of various stages of excavation, installation of a monitoring well network, and development of a quarterly groundwater monitoring program for the well network and a local seep to monitor the progression of natural remediation at the site. The current monitor well network consists of wells MW-1, MW-5, MW-7, MW-9, MW-11, MW-12, MW-15, MW-16, and TMW-1, which are sampled quarterly. A seep on location is also sampled on a quarterly basis.

2.0 MONITORING SUMMARY AND SAMPLING METHODOLOGY / RESULTS

2.1 Monitoring Summary

Quarterly groundwater sampling was conducted in March, June, and November 2007 and in January 2008. Groundwater samples were collected from monitoring wells MW-1, MW-5, MW-7, MW-9, MW-11, MW-12, MW-15, MW-16, TMW-1, and a seep on location. During the November 2007 and January 2008 sampling event, water levels were measured by Tetra Tech in monitoring wells MW-1, MW-5, MW-7, MW-9, MW-11, MW-12, MW-15, MW-16, and TMW-1. Calculated groundwater elevations for each monitoring well are presented on Table 1. A groundwater elevation contour map was generated using the November 2007 water level data and is presented on Figure 2.

2.2 Groundwater Sampling Methodology

Monitoring wells MW-1, MW-5, MW-7, MW-9, MW-11, MW-12, MW-15, MW-16, and TMW-1 were purged of three volumes of water and sampled. A 1.5-inch clear, poly-vinyl, disposable bailer was used to purge each well and to collect the groundwater sample. The purge water generated during the event was disposed of in the waste water tank located on site (Figure 2). The groundwater samples were placed in laboratory prepared bottles, packed on ice, and shipped with chain-of-custody documentation. All samples collected were analyzed for the presence of benzene, toluene, ethylbenezene, and xylenes (BTEX) by Environmental Protection Agency (EPA) Method 8260B. Analysis of the March and June 2007 samples was

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performed by ACZ Laboratories, Inc. in Steambout Springs, Colorado. Analysis of the November 2007 and January 2008 samples was performed by Lancaster Laboratories in Lancaster, Pennsylvania.

2.3 Groundwater Sampling Analytical Results

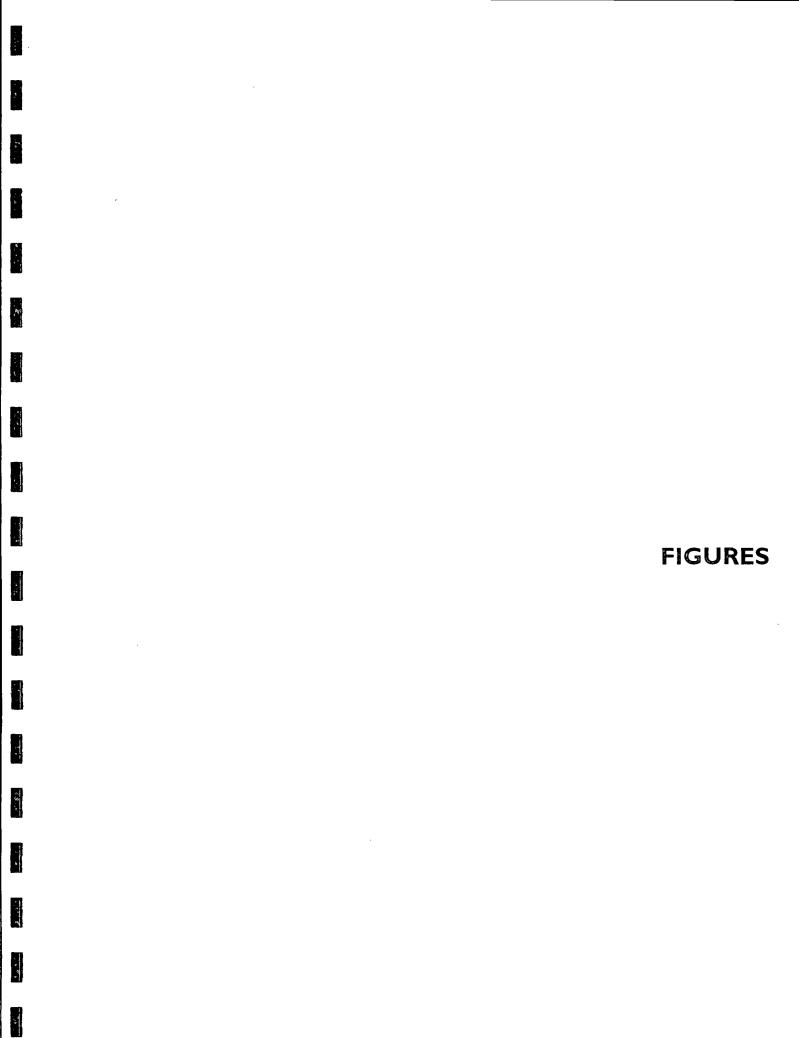
Samples collected during the 2007 monitoring period indicate the following results:

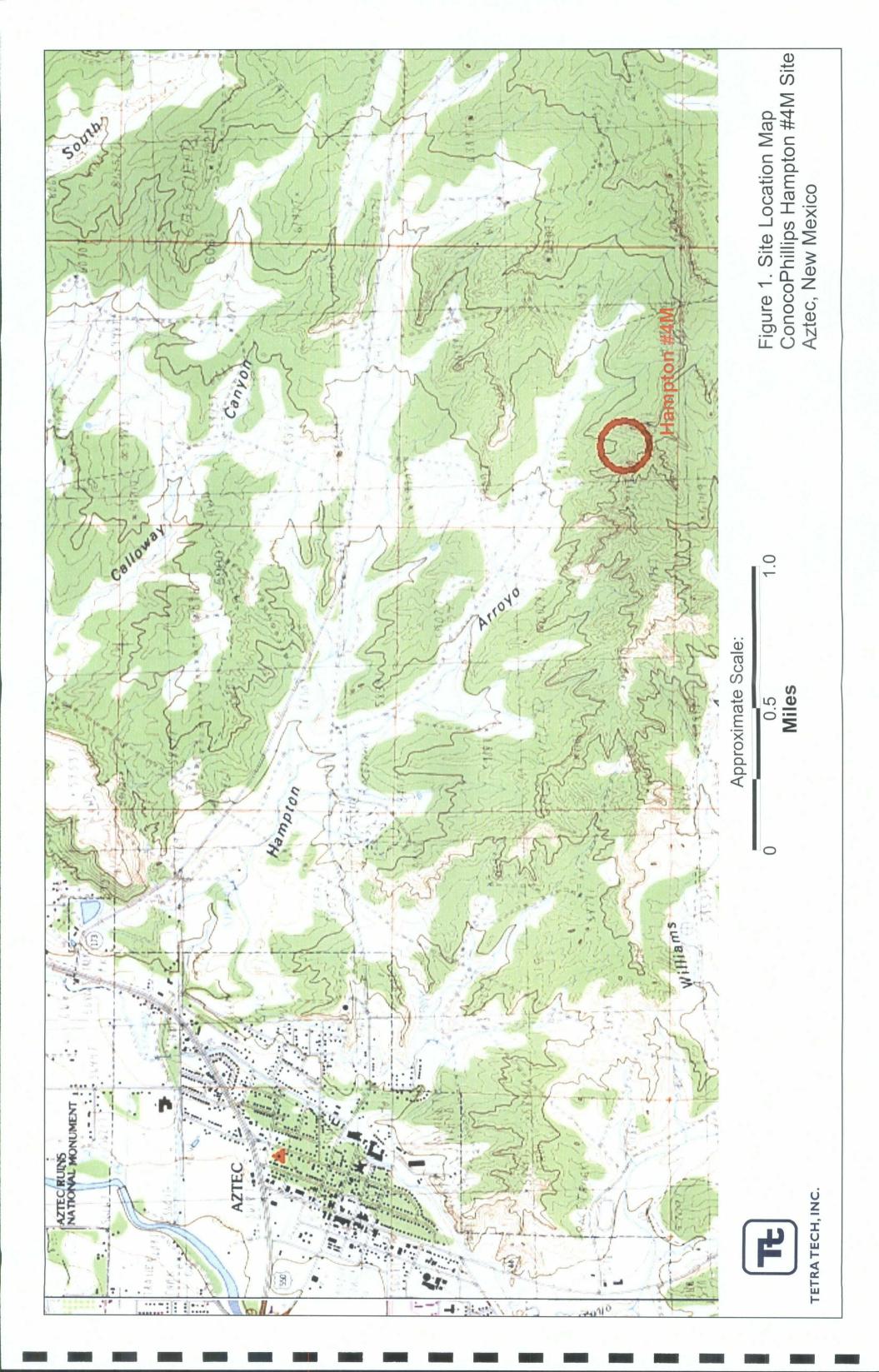
- Groundwater concentrations for BTEX were below laboratory method detection limits (MDL) / practical quantitation limits (PQL) in monitor wells MW-1, MW-9, MW-11, MW-15, and the onsite seep.
- Groundwater concentrations exceeded the New Mexico Water Quality Control Commission (NMWQCC) standard for:
 - o benzene (10 micrograms per liter [μ g/L]), toluene (750 μ g/L), and total xylenes (620 μ g/L) in monitoring wells MW-5 and MW-16 for the entire monitoring period;
 - o benzene in monitoring wells MW-7 and MW-12 for the entire monitoring period;
 - toluene and total xylenes in monitoring well MW-12 during the first and fourth quarters of the monitoring period.
 - ethylbenzene in monitoring well MW-16 during the second quarter of the monitoring period.
- The highest BTEX concentrations were detected in monitoring well MW-16 at 5500, 12,000, 770, and 7760 µg/L, respectively.
- BTEX concentrations, especially benzene, decreased dramatically in monitoring well TMW-I between the third and fourth quarters of the monitoring period.

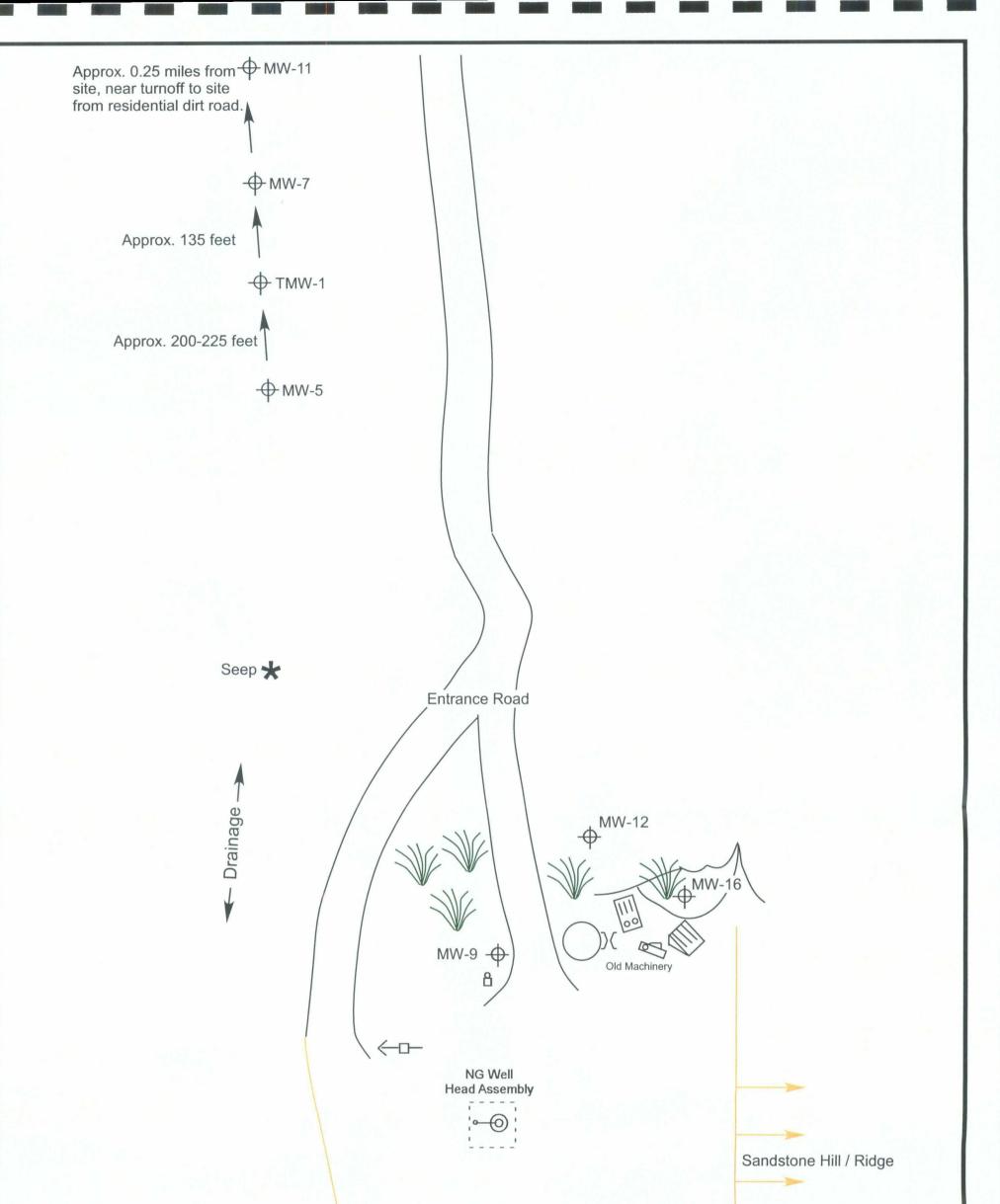
Table 2 summarizes the laboratory analytical results for each quarterly groundwater sampling event. The corresponding laboratory analysis reports including quality control summaries are included in Appendix A.

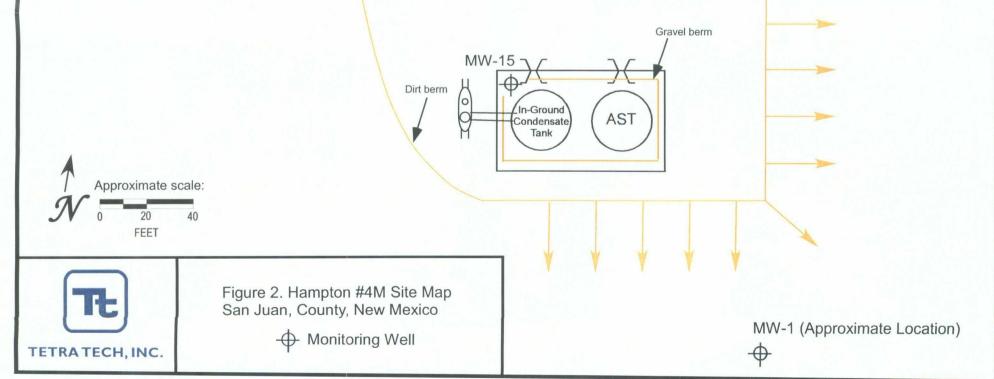
3.0 CONCLUSIONS

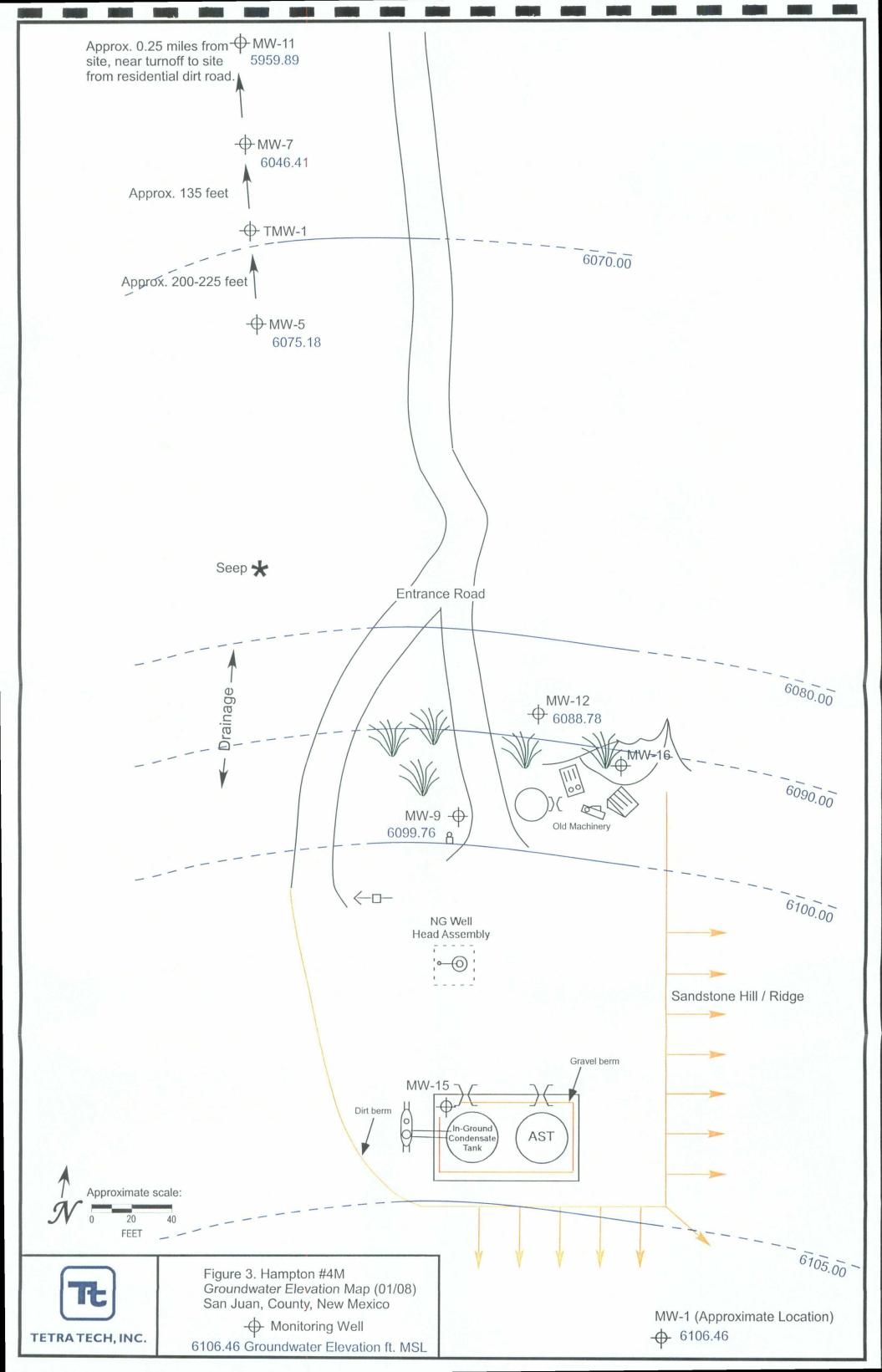
Tetra Tech will continue to conduct quarterly groundwater monitoring of the existing well network at the Hampton 4M site during March, June, September and December 2008. Please contact Kelly Blanchard at 505-237-8440 or kelly.blanchard@tetratech.com if you have any questions or require additional information.











TABLES

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Monitor Well	TOC Elevation (ft AMSL)	Sample Date	GW Elevation (ft AMSL)
MW-1	6149.42	11/8/2007	6106.61
	0149.42	1/17/2008	6106.46
MW-5	6090.83	11/8/2007	6074.31
10100-5	0090.03	1/17/2008	6075.18
TMW-1	No survey -	11/8/2007	19.06 DTW
	DTW only	1/17/2008	NM
MW-7	6066.91	11/8/2007	6046.69
		1/17/2008	6046.41
MW-9	6122.52	11/8/2007	6099.61
10100-9		1/17/2008	6099.76
MW-11	6015.75	11/8/2007	5959.75
		1/17/2008	5959.89
MW-12	6109.02	11/8/2007	6088.56
		1/17/2008	6088.78
MW-15	No survey -	11/8/2007	18.03 DTW
10100-10	DTW only	1/17/2008	18.20 DTW
MW-16	No survey -	11/8/2007	25.03 DTW
10100-10	DTW only	1/17/2008	24.88 DTW

Table 1. ConocoPhillps Hampton #4M - Groundwater Elevation Summary(November 2007 and January 2008)

Explanation

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AMSL = Above mean sea level DTW = Depth to water NM = Not measured

	Analytical Res	sults Summa	ry		
Well ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes
	Campio Date		(µg/L)		
	3/26/2007	<0.3 U	0.3 J	0.2 J	0.4 J
NAVA/ 4	€/26/2007	<0.3 U	<0.2 U	<0.2 U	<0.6 U
MW-1	11/8/2007	<0.5 U	<0.7 U	<0.8 U	<0.8 U
	1/15/2008	<0.5 U	<0.7 U	<0.8 U	<0.8 U
	3/26/2007	660	6470	530	5450
5 4) A/ C	6/26/2007	740	8070	640	7320
MW-5	11/8/2007	410	4800	390 ·	5000
	1/17/2008	440	6400	510	6100
· · · · · · · · · · · · · · · · · · ·	3/26/2007	11.5	1.0	0.6 J	0.8 J
6 43 A / 7	6/26/2007	56	0.4 J	17.7	1.3
MW-7	11/8/2007	44	<0.7 U	2.0	<0.8 U
	1/17/2008	17	<0.7 U	3.0	<0.8 U
	3/26/2007	<0.3 U	<0.2 U	<0.2 U	<0.6 U
	6/26/2007	<0.3 U	<0.2 U	<0.2 U	<0.6 U
MW-9	11/8/2007	<0.5 U	<0.7 U	<0.8 U	<0.8 U
	1/17/2008	<0.5 U	<0.7 U	<0.8 U	<0.8 U
	3/26/2007	<0.3 U	<0.2 U	<0.2 U	<0.6 U
	6/26/2007	<0.3 U	<0.2 U	<0.2 U	<0.6 U
MW-11	11/8/2007	<0.5 U	<0.7 U	<0.8 U	<0.8 U
	1/17/2008	<0.5 U	<0.7 U	<0.8 U	<0.8 U
	3/26/2007	4130	1680	340	1180
104/40	6/26/2007	1520	432	118	340
MW-12	11/8/2007	780	310	43	170
	1/17/2008	2000	1400	180	790
	3/26/2007	<0.3 U	<0.2 U	<0.2 U	<0.6 U
	6/26/2007	<0.3 U	0.5 J	<0.2 U	<0.6 U
MW-15	11/8/2007	<0.5 U	<0.7 U	<0.8 U	<0.8 U
	1/17/2008	<0.5 U	<0.7 U	<0.8 U	<0.8 U
	3/26/2007	2970	2820	260	5220
N 10 4 4 0	6/26/2007	5230	9110	770	7760
MW-16	11/8/2007	5500	12000	570	6200
	1/17/2008	4600	9100	550	5600
	3/26/2007	NA	NA	NA	NA
TRALAS A	6/26/2007	269	2.6	4.9	15.7
TMW-1	11/8/2007	300	12	6	38
	1/17/2008	0.8	<0.7 U	<0.8 U	1.0
	3/26/2007	<0.3 U	0.3 J	<0.2 U	<0.6 UJ
0	6/26/2007	<0.3 U	<0.2 U	<0.2 U	<0.6 U
Seep	1/8/2007	<0.5 U	<0.7 U	<0.8 U	<0.8 U
	1/17/2008	NA	NA	NA	NA
NMWQC	C Standards	10 (µg/L)	750 (µg/L)	750 (µg/L)	620 (µg/L)

 Table 2. ConocoPhillips Hampton #4M - Groundwater Laboratory

 Analytical Results Summary

Explanation

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J = Analyte concetration detected at a value between MDL and PQL

MDL = Method Detection Limit

NA = Not Analyzed

NMWQCC = New Mexico Water Quality Control Commission

PQL = Practical Quantitation Limit

U = Analyte was analyzed for but not detected at the indicated MDL

 $\mu g/L$ = micrograms per liter (parts per billion)

APPENDIX A

LABORATORY ANALYSIS REPORT

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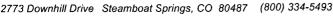
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ACZ Laboratories, Inc.





March 30, 2007

Report to: Gregg Wurtz ConocoPhillips Company 3401 E. 30th St. P.O. Box 4289 Farmington, NM 87499

cc: Martin Nee

Project ID: HAMPTON 4M ACZ Project ID: L61725 Bill to: B. Curley ConocoPhillips Company Burlington Resources P.O. Box 2200 Bartlesville, OK 74005

Gregg Wurtz:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on March 28, 2007. This project has been assigned to ACZ's project number, L61725. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan, version 11.0. The enclosed results relate only to the samples received under L61725. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after April 30, 2007. If the samples are determined to be hazardous, additional charges apply for disposal (typically less than \$10/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical reports for five years.

If you have any questions or other needs, please contact your Project Manager.

30/Mar/07

Tony Antalek, Project Manager, has reviewed and approved this report in its entirety.



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L61725: Page 1 of 16



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Print.

Project ID:	HAMPTON 4M
Sample ID:	HAMPTON 4M MW-1



ACZ Sample ID:	L61725-01
Date Sampled:	03/26/07 9:36
Date Received:	03/28/07
Sample Matrix:	Ground Water

Benzene, Toluene, Ethylbenzene & Xylene

Analysis Method: M8021B GC/PID Extract Method:

Workgroup: WG222372 Analyst: ccp Extract Date: Analysis Date: 03/29/07 13:31

Benzene	71-43-2		U	1	ug/L	0.3	1
Ethylbenzene	100-41-4	0.2	J	1	ug/L	0.2	1
m p Xylene	1330-20-7	0.4	J	1	ug/L	0.4	2
o Xylene	95-47- 6		U	1	ug/L	0.2	1
Toluene	108-88-3	0.3	J	1	ug/L	0.2	1
SunogateRecoveries	CAS	% Recovery		Dilution	xo Units	LOL	UC



ConocoPhillips Company

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596 (796 Project ID: HAMPTON 4M Sample ID: HAMPTON 4M MW-15



ACZ Sample ID:	L61725-02
Date Sampled:	03/26/07 10:11
Date Received:	03/28/07
Sample Matrix:	Ground Water

Bénzene, Toluene, Ethylbenzene & Xylene

Analysis Method: **M8021B GC/PID** Extract Method:

Workgroup: WG222372 Analyst: ccp Extract Date: Analysis Date: 03/29/07 15:42

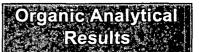
Benzene	71-43-2	U	1	ug/L	0.3	1
Ethylbenzene	100-41-4	U	1	ug/L	0.2	1
m p Xylene	1330-20-7	U	1	ug/L	0.4	2
o Xylene	95-47- 6	U	1	ug/L	0.2	1
Toluene	108-88-3	U	1	ug/L	0.2	1
SucceileRecoveries	C/AS	Recovery	Dilution	xe unte	Mat	IG



(800) 334-5493

ConocoPhillips Company

Project ID: HAMPTON 4M Sample ID: HAMPTON 4M MW-9



ACZ Sample ID: L61725-03 Date Sampled: 03/26/07 10:32 Date Received: 03/28/07 Sample Matrix: Ground Water

Benzene, Toluene, Ethylbenzene & Xylene

Analysis Method: M8021B GC/PID Extract Method:

Workgroup: WG222372 Analyst: ccp Extract Date: Analysis Date: 03/29/07 16:26

Benzene	71-43-2	U	1	ug/L	0.3	1
Ethylbenzene	100-41-4	U	. 1	ug/L	0.2	1
m p Xylene	1330-20-7	U	1	ug/L	0.4	2
o Xylene	95-47- 6	U	1	ug/L	0.2	1
Toluene	108-88-3	U	1	ug/L	0.2	1
SunoralaRecoveries	CAS	% Recovery	Dilution	X0 Units	LOL .	Ugi



(800) 334-5493

ConocoPhillips Company

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Project ID:	HAMPTON 4M
Sample ID:	HAMPTON 4M MW-12

Organic Analytical esults

ACZ Sample ID:	L61725-04
Date Sampled:	03/26/07 11:43
Date Received:	03/28/07
Sample Matrix:	Ground Water

Benzene, Toluene, Ethylbenzene & Xylene

Analysis Method: M8021B GC/PID Extract Method:

Workgroup: WG222372 Analyst: ccp Extract Date: Analysis Date: 03/30/07 10:28

Benzene	71-43-2	4130	50	ug/L	20	50
Ethylbenzene	100-41-4	340	50	ug/L	10	50
m p Xylene	1330-20-7	880	50	ug/L	20	100
o Xylene	95-47- 6	300	50	ug/L	10	50
Toluene	108-88-3	1680	50	ug/L	10	50
Sunogate Recoveries	CAS	% Recovery	Dilution	inits	LOL	UGL



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Laboratories, Inc.

2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

ConocoPhillips Company

Project ID: HAMPTON 4M Sample ID: HAMPTON 4M MW-16



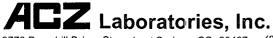
ACZ Sample ID: L61725-05 Date Sampled: 03/26/07 12:15 Date Received: 03/28/07 Sample Matrix: Ground Water

Benzene, Toluene, Ethylbenzene & Xylene-

Analysis Method: M8021B GC/PID Extract Method:

Workgroup: WG222372 Analyst: ccp Extract Date: Analysis Date: 03/29/07 17:53

Benzene	71-43-2	2970	100	*	ug/L	30	100
Ethylbenzene	100-41-4	260	100	*	ug/L	20	100
m p Xylene	1330-20-7	3640	100	*	ug/L	40	200
o Xylene	95-47- 6	1580	100	*	ug/L	20	100
Toluene	108-88-3	2820	100	*	ug/L	20	100
Supporte Recoveries	CAS	% Recovery	Dilution) Mei	Units	ାକ୍ତ	UC



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Project ID: HAMPTON 4M Sample ID: HAMPTON 4M SEEP



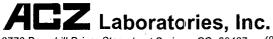
ACZ Sample ID: L61725-06 Date Sampled: 03/26/07 12:28 Date Received: 03/28/07 Sample Matrix: Ground Water

Benzene, Toluene, Ethylbenzene & Xylene

Analysis Method: **M8021B GC/PID** Extract Method:

Workgroup: WG222372 Analyst: ccp Extract Date: Analysis Date: 03/29/07 19:20

Benzene	71-43-2		U	1	*	ug/L	0.3	1
Ethylbenzene	100-41-4		U	1	*	ug/L	0.2	1
n p Xylene	1330-20-7		U	1	*	ug/L	0.4	2
o Xylene	95-47- 6	0.3	J	1	*	ug/L	0.2	1
Toluene	108-88-3	0.5	J	1	*	ug/L	0.2	1
Studoopfie Recoverles	CAS	Recovery		Dilution	- 5 (0)	- Minfra	ില്ല	াল



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Project ID: HAMPTON 4M Sample ID: HAMPTON 4M MW-5

Organic Analytical Results

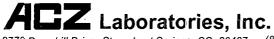
ACZ Sample ID: L61725-07 Date Sampled: 03/26/07 12:49 Date Received: 03/28/07 Sample Matrix: Ground Water

Benzene, Toluene, Ethylbenzene & Xylene

Analysis Method: **M8021B GC/PID** Extract Method:

Workgroup: WG222372 Analyst: ccp Extract Date: Analysis Date: 03/29/07 20:04

Benzene	71-43-2	660	100	ug/L	30	100
Ethylbenzene	100-41-4	530	100	ug/L	20	100
n p Xylene	1330-20-7	4300	100	ug/L	40	200
o Xylene	95-47- 6	1150	100	ug/L	20	100
Foluene	108-88-3	6470	100	ug/L	20	100
Surroutles	CAS	Recovery . Har	Dilution	্রাল্টি (০)	LGL.	াল



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Project ID: HAMPTON 4M Sample ID: HAMPTON 4M MW-11



ACZ Sample ID:	L61725-08
Date Sampled:	03/26/07 13:47
Date Received:	03/28/07
Sample Matrix:	Ground Water

Benzene, Toluene, Ethylbenzene & Xylene

Analysis Method: **M8021B GC/PID** Extract Method:

Workgroup: WG222372 Analyst: ccp Extract Date: Analysis Date: 03/29/07 20:48

Benzene	71-43-2		Ū	1	ug/L	0.3	1
Ethylbenzene	100-41-4		U	1	ug/L	0.2	1.
n p Xylene	1330-20-7		U	1	ug/L	0.4	2
o Xylene	95-47- 6		U	1	ug/L	0.2	1
Foluene	108-88-3		U	1	ug/L	0.2	1
Sunomate Recoveries	CAS	% Recovery		Dilution	O Units	nal.	ាតា



ConocoPhillips Company

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Project ID: HAMPTON 4M Sample ID: HAMPTON 4M MW-7

Organic Analytical Results

ACZ Sample ID: L61725-09 Date Sampled: 03/26/07 13:10 Date Received: 03/28/07 Sample Matrix: Ground Water

Benzene, Toluene, Ethylbenzene & Xylene

Analysis Method: **M8021B GC/PID** Extract Method:

Workgroup: WG222372 Analyst: ccp Extract Date: Analysis Date: 03/29/07 21:33

Benzene	71-43-2	11.5		1		ug/L	0.3	1
Ethylbenzene	100-41-4	0.6	J	1		ug/L	0.2	1
n p Xylene	1330-20-7		U	1		ug/L	0.4	2
o Xylene	95-47- 6	0.8	J	1		ug/L	0.2	1
Toluene	108-88-3	1		1	*	ug/L	0.2	1
Surrouale Recoveries	(MAS	Recovery		allinder	576	Mille	പല്പ	Ug

ACZ ALia Laboratories, Inc. 2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

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	Explanations		
Batch	A distinct set of samples analyzed at a specific	; une	
Found	Value of the QC Type of interest		
Limit	Upper limit for RPD, in %.	117 N	
Lower	Lower Recovery Limit, in % (except for LCSS,	, mg/Kg)	
LCL	Lower Control Limit	e 11 11 All . C.	Sector and and the state of the sector
MDL	Method Detection Limit. Same as Minimum Re		
PCN/SCN	A number assigned to reagents/standards to tr	ace to the manufacturers	centricate of analysis
PQL	Practical Quantitation Limit	at added to the Soiles	
QC	True Value of the Control Sample or the amou	•	SS malka)
Rec RPD	Amount of the true value or spike added recov		53; mg/kg)
	Relative Percent Difference, calculation used for		
Upper	Upper Recovery Limit, in % (except for LCSS,	, mg/kg)	
UCL	Upper Control Limit		
Sample	Value of the Sample of interest	· · · · · · · · · · · · · · · · · · · ·	
Sample Ty SURR		LFM	Laboratory Fortified Matrix
INTS	Surrogate		•
DUP	Internal Standard	LFMD	Laboratory Fortified Matrix Duplicate
LCSS	Sample Duplicate	LRB	Laboratory Reagent Blank
LCSS	Laboratory Control Sample - Soil	MSIMSD PBS	Matrix Spike/Matrix Spike Duplicate
LESW	Laboratory Control Sample - Water	PBS PBW	Prep Blank - Soil Bran Blank - Water
	Laboratory Fortified Blank pe Explanations	FDW	Prep Blank - Water
		o or minimal contaminati	on in the prep method procedure
Blanks	Verifies that there is r		on in the prep method procedure.
Blanks Control Sa	Verifies that there is r mples Verifies the accuracy	of the method, including	the prep procedure.
Blanks Control Sat Duplicates	Verifies that there is r mples Verifies the accuracy Verifies the precision	of the method, including t of the instrument and/or-	the prep procedure. nethod.
Blanks Control Sat Duplicates Spikes/Fort	Verifies that there is r mples Verifies the accuracy Verifies the precision tified Matrix Determines sample r	of the method, including	the prep procedure. nethod.
Blanks Control Sau Duplicates Spikes/For	Verifies that there is r mples Verifies the accuracy Verifies the precision tified Matrix Determines sample r ((Qtral))	of the method, including t of the instrument and/or-	the prep procedure. nethod.
Blanks Control Sau Duplicates Spikes/For 2 Qualifiers B	Verifies that there is r mples Verifies the accuracy Verifies the precision tified Matrix Determines sample rr (Qual) Analyte detected in daily blank	of the method, including t of the instrument and/or-	the prep procedure. nethod.
Blanks Control Sau Duplicates Spikes/For Z Qualifiers B H	Verifies that there is r Verifies the accuracy Verifies the precision tified Matrix Determines sample m (Ctrat) Analyte detected in daily blank Analysis exceeded method hold time.	of the method, including to of the instrument and/or in the instrument and/or in the instrument and or in the instrument and th	the prep procedure. nethod.
Blanks Control Sau Duplicates Spikes/For Zoualifiers B H J	Verifies that there is r mples Verifies the accuracy Verifies the precision Determines sample m (Qual) Analyte detected in daily blank Analysis exceeded method hold time. Analyte concentration detected at a value betw	of the method, including to of the instrument and/or in natrix interferences, if any veen MDL and PQL	the prep procedure. nethod.
Blanks Control Sar Duplicates Spikes/For 24 Qualifiers B H J R	Verifies that there is r mples Verifies the accuracy Verifies the precision tified Matrix Determines sample rr (Qual) Analyte detected in daily blank Analysis exceeded method hold time. Analyte concentration detected at a value betw Poor spike recovery accepted because the oth	of the method, including to of the instrument and/or in natrix interferences, if any veen MDL and PQL her spike in the set fell with	the prep procedure. nethod. nin the given limits.
Blanks Control Sar Duplicates Spikes/For 24 Qualifiers B H J R T	Verifies that there is r mples Verifies the accuracy Verifies the precision tified Matrix Determines sample m (Qual) Analyte detected in daily blank Analyte detected in daily blank Analyte concentration detected at a value betw Poor spike recovery accepted because the oth High Relative Percent Difference (RPD) accep	of the method, including to of the instrument and/or in natrix interferences, if any veen MDL and PQL her spike in the set fell with ted because sample cond	the prep procedure. nethod. nin the given limits.
Blanks Control Sar Duplicates Spikes/For 24 Qualifiers B H J R	Verifies that there is r mples Verifies the accuracy Verifies the precision tified Matrix Determines sample m (Cual) Analyte detected in daily blank Analysis exceeded method hold time. Analyte concentration detected at a value betw Poor spike recovery accepted because the oth High Relative Percent Difference (RPD) accep Analyte was analyzed for but not detected at th	of the method, including to of the instrument and/or in hatrix interferences, if any ween MDL and PQL her spike in the set fell with ted because sample cond he indicated MDL	the prep procedure. method. nin the given limits. centrations are less than 10x the MDL.
Blanks Control Sau Duplicates Spikes/Fon 24 Qualifiers B H J R T U V	Verifies that there is r mples Verifies the accuracy Verifies the precision tified Matrix Determines sample rr (Qual)) Analyte detected in daily blank Analysis exceeded method hold time. Analyte concentration detected at a value betw Poor spike recovery accepted because the oth High Relative Percent Difference (RPD) accep Analyte was analyzed for but not detected at th High blank data accepted because sample cor	of the method, including to of the instrument and/or in natrix interferences, if any veen MDL and PQL her spike in the set fell with ted because sample cond the indicated MDL incentration is 10 times high	the prep procedure. method. nin the given limits. centrations are less than 10x the MDL.
Blanks Control Sar Duplicates Spikes/For 24 Qualifiers B H J R T U V W	Verifies that there is r mples Verifies the accuracy Verifies the precision tified Matrix Determines sample m (Qual) Analyte detected in daily blank Analysis exceeded method hold time. Analyte concentration detected at a value betw Poor spike recovery accepted because the oth High Relative Percent Difference (RPD) accep Analyte was analyzed for but not detected at th High blank data accepted because sample cor Poor recovery for Silver quality control is accepted	of the method, including to of the instrument and/or in natrix interferences, if any veen MDL and PQL her spike in the set fell with ted because sample cond the indicated MDL incentration is 10 times high	the prep procedure. method. nin the given limits. centrations are less than 10x the MDL.
Blanks Control Sau Duplicates Spikes/Fon 24 Qualifiers B H J R T U V	Verifies that there is r mples Verifies the accuracy Verifies the precision tified Matrix Determines sample m (Qual) Analyte detected in daily blank Analyte detected in daily blank Analyte concentration detected at a value betw Poor spike recovery accepted because the oth High Relative Percent Difference (RPD) accep Analyte was analyzed for but not detected at th High blank data accepted because sample cor Poor recovery for Silver quality control is accep Quality control sample is out of control.	of the method, including to of the instrument and/or in natrix interferences, if any ween MDL and PQL her spike in the set fell with ted because sample conc he indicated MDL incentration is 10 times hig pted because Silver often	the prep procedure. method. hin the given limits. tentrations are less than 10x the MDL. her than blank concentration precipitates with Chloride.
Blanks Control Sar Duplicates Spikes/For 24 Qualifiers B H J R T U V V W X	Verifies that there is r mples Verifies the accuracy Verifies the precision Determines sample m (Cual) Analyte detected in daily blank Analyte detected in daily blank Analyte concentration detected at a value betw Poor spike recovery accepted because the oth High Relative Percent Difference (RPD) accep Analyte was analyzed for but not detected at th High blank data accepted because sample cor Poor recovery for Silver quality control is accep Quality contreol sample is out of control. Poor spike recovery is accepted because sample	of the method, including to of the instrument and/or in hatrix interferences, if any veen MDL and PQL her spike in the set fell with ted because sample conc ne indicated MDL incentration is 10 times hig oted because Silver often ple concentration is four t	the prep procedure. method. hin the given limits. tentrations are less than 10x the MDL. her than blank concentration precipitates with Chloride.
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Blanks Control Sau Duplicates Spikes/For 24 Qualifiers B H J R T U V V V V X Z P	Verifies that there is r Verifies the accuracy Verifies the precision Determines sample r (Ctral) Analyte detected in daily blank Analysis exceeded method hold time. Analyte concentration detected at a value betw Poor spike recovery accepted because the oth High Relative Percent Difference (RPD) accep Analyte was analyzed for but not detected at th High blank data accepted because sample cor Poor recovery for Silver quality control is accep Quality contreol sample is out of control. Poor spike recovery is accepted because sam Analyte concentration differs from second dete Analyte concentration is estimated due to resu	of the method, including to of the instrument and/or in hatrix interferences, if any yeen MDL and PQL her spike in the set fell with ted because sample cond he indicated MDL incentration is 10 times hig oted because Silver often ple concentration is four the cotor by more than 40%. It exceeding calibration ratio	the prep procedure. method. nin the given limits. centrations are less than 10x the MDL. her than blank concentration precipitates with Chloride.
Blanks Control Sau Duplicates Spikes/Fon 24 Qualifiers B H J R T U V V V W X Z P E M	Verifies that there is r mples Verifies the accuracy Verifies the precision tified Matrix Determines sample m (Ctral) Analyte detected in daily blank Analysis exceeded method hold time. Analyte concentration detected at a value betw Poor spike recovery accepted because the oth High Relative Percent Difference (RPD) accep Analyte was analyzed for but not detected at th High blank data accepted because sample cor Poor recovery for Silver quality control is accep Quality contreol sample is out of control. Poor spike recovery is accepted because sam Analyte concentration differs from second dete Analyte concentration is estimated due to resu Analyte concentration is estimated due to matri	of the method, including to of the instrument and/or in hatrix interferences, if any yeen MDL and PQL her spike in the set fell with ted because sample cond he indicated MDL incentration is 10 times hig oted because Silver often ple concentration is four the cotor by more than 40%. It exceeding calibration ratio	the prep procedure. method. nin the given limits. centrations are less than 10x the MDL. her than blank concentration precipitates with Chloride.
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Blanks Control Sau Duplicates Spikes/For 2 Qualifiers B H J R T U V V W X Z P E M Itroc Reference (1)	Verifies that there is r mples Verifies the accuracy Verifies the precision tified Matrix Determines sample m (Ctral) Analyte detected in daily blank Analysis exceeded method hold time. Analyte concentration detected at a value betw Poor spike recovery accepted because the oth High Relative Percent Difference (RPD) accep Analyte was analyzed for but not detected at th High blank data accepted because sample cor Poor recovery for Silver quality control is accep Quality contreol sample is out of control. Poor spike recovery is accepted because sam Analyte concentration differs from second dete Analyte concentration is estimated due to resu Analyte concentration is estimated due to matri	of the method, including to of the instrument and/or in hatrix interferences, if any ween MDL and PQL her spike in the set fell with ted because sample condi- ne indicated MDL incentration is 10 times higo oted because Silver often ple concentration is four the cotor by more than 40%. It exceeding calibration ra- rix interferences.	the prep procedure. method. nin the given limits. tentrations are less than 10x the MDL. ther than blank concentration precipitates with Chloride. times greater than spike concentration. ange.
Blanks Control Sau Duplicates Spikes/For 24 Qualifiers B H J R T U V V V V V X Z P E M Strod Reference (1) (2)	Verifies that there is r mples Verifies the accuracy Verifies the precision Determines sample rr (Ctral) Analyte detected in daily blank Analysis exceeded method hold time. Analyte concentration detected at a value betw Poor spike recovery accepted because the oth High Relative Percent Difference (RPD) accep Analyte was analyzed for but not detected at th High blank data accepted because sample cor Poor recovery for Silver quality control is accep Quality contreol sample is out of control. Poor spike recovery is accepted because sam Analyte concentration differs from second dete Analyte concentration is estimated due to resu Analyte concentration is estimated due to matr Analyte concentration is estimated due to matr EPA 600/4-83-020. Methods for Chemical Ana EPA 600/4-90/020.	of the method, including to of the instrument and/or in hatrix interferences, if any yeen MDL and PQL her spike in the set fell with ted because sample conc he indicated MDL incentration is 10 times hig bet because Silver often ple concentration is four the concentration is four the concentration is four the tector by more than 40%. It exceeding calibration ra- rix interferences.	the prep procedure. method. hin the given limits. centrations are less than 10x the MDL. ther than blank concentration precipitates with Chloride. imes greater than spike concentration. ange.
Blanks Control Sau Duplicates Spikes/For 24 Qualifiers B H J R T U V V W X Z P E M M Chool Reference (1) (2) (3)	Verifies that there is r mples Verifies the accuracy Verifies the precision tified Matrix Determines sample m (Ctral) Analyte detected in daily blank Analysis exceeded method hold time. Analyte concentration detected at a value betw Poor spike recovery accepted because the oth High Relative Percent Difference (RPD) accep Analyte was analyzed for but not detected at th High blank data accepted because sample cor Poor recovery for Silver quality control is accep Quality contreol sample is out of control. Poor spike recovery is accepted because sam Analyte concentration differs from second detected Analyte concentration is estimated due to resu Analyte concentration is estimated due to matrix EPA 600/4-83-020. Methods for Chemical Anal EPA 600/R-92/123. Methods for the Determinal EPA 600/R-92/123. Methods for the Determinal	of the method, including to of the instrument and/or in hatrix interferences, if any yeen MDL and PQL her spike in the set fell with ted because sample condi- he indicated MDL incentration is 10 times higo bed because Silver often ple concentration is four the concentration is four the tector by more than 40%. It exceeding calibration ra- rix interferences.	the prep procedure. method. hin the given limits. centrations are less than 10x the MDL. ther than blank concentration precipitates with Chloride. imes greater than spike concentration. ange. es, March 1983. ads in Drinking Water (I), July 1990. hds in Drinking Water (II), July 1990.
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Blanks Control Sau Duplicates Spikes/For 24 Qualifiers B H J R T U V W X Z P E M Ithod Refere (1) (2) (3) (5) (6)	Verifies that there is r mples Verifies the accuracy Verifies the precision tified Matrix Determines sample m (Ctral) Analyte detected in daily blank Analysis exceeded method hold time. Analyte concentration detected at a value betw Poor spike recovery accepted because the oth High Relative Percent Difference (RPD) accep Analyte was analyzed for but not detected at th High blank data accepted because sample cor Poor recovery for Silver quality control is accep Quality contreol sample is out of control. Poor spike recovery is accepted because sam Analyte concentration differs from second detected Analyte concentration is estimated due to resu Analyte concentration is estimated due to matrix EPA 600/4-83-020. Methods for Chemical Anal EPA 600/R-92/123. Methods for the Determinal EPA 600/R-92/123. Methods for the Determinal	of the method, including to of the instrument and/or in natrix interferences, if any ween MDL and PQL her spike in the set fell with ted because sample condi- ne indicated MDL neentration is 10 times higo oted because Silver often ple concentration is four the ector by more than 40%. It exceeding calibration ra- rix interferences.	the prep procedure. method. hin the given limits. sentrations are less than 10x the MDL. her than blank concentration precipitates with Chloride. imes greater than spike concentration. ange. es, March 1983. hds in Drinking Water (I), July 1990. hds in Drinking Water (II), July 1990. with Update III, December, 1996. edition, 1995.
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ACZ Project ID: L61725

interference.

ACZ ID	WORKNUM	PARAMETER	METHOD	JUAL	DESCRIPTION
L61725-05	WG222372	*All Compounds*	M8021B GC/PID	Q3	Sample received with improper chemical preservation.
		Ethylbenzene	M8021B GC/PID	C7	Sample RPD between the primary and confirmatory analysis exceeded 40%. Per EPA Method 8000B, the lower value was reported due to apparent chromatographic interference.
L61725-06	WG222372	*Ali Compounds*	M8021B GC/PID	Q3	Sample received with improper chemical preservation.
L61725-09	WG222372	Toluene	M8021B GC/PID	C7	Sample RPD between the primary and confirmatory analysis exceeded 40%. Per EPA Method 8000B, the lower value was reported due to apparent chromatographic

REPAD.15.06.05.01





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ACZ Project ID: L61725

No certification qualifiers associated with this analysis

4GZ Laboratories, Inc.

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2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493



ConocoPhillips Company HAMPTON 4M	ACZ Project ID: Date Received: Received By:	L61725 3/28/2007
	Date Printed:	3/28/2007
ReceiptVerification		
	YES	NO NA
1) Does this project require special handling procedures such as CLP protocol?		. X
2) Are the custody seals on the cooler intact?	X	
3) Are the custody seals on the sample containers intact?		X
4) Is there a Chain of Custody or other directive shipping papers present?	X	
5) Is the Chain of Custody complete?	X	
6) Is the Chain of Custody in agreement with the samples received?	X	
7) Is there enough sample for all requested analyses?	X	2 m
8) Are all samples within holding times for requested analyses?	Х	
9) Were all sample containers received intact?	Х	
10) Are the temperature blanks present?		X
11) Are the trip blanks (VOA and/or Cyanide) present?		X
12) Are samples requiring no headspace, headspace free?		X
13) Do the samples that require a Foreign Soils Permit have one?		X

Exceptions: If you answered no to any of the above questions, please describe

One of 2 vials for sample #5 contained headspace.

Contacts (For any discrepancies, the client must be contacted)

The client was not contacted.

Cooler Id	Temp (°C)	Rad (µR/hr)	Client must contact ACZ Project Manager if analysis should not proceed for
1106	3.9	15	samples received outside of thermal preservation acceptance criteria.
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HAMPTON 4M

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ACZ Project ID: Date Received: Received By: L61725 3/28/2007

Sample Container Preservation

SAMPLE	CLIENT ID	R < 2	G < 2	BK < 2	Y< 2	YG< 2	B< 2	0<2	T >12	N/A	RAD	ID
L61725-01	HAMPTON 4M MW-1							Ī		Х		G
L61725-02	HAMPTON 4M MW-15									. X		
L61725-03	HAMPTON 4M MW-9									Х		E
L61725-04	HAMPTON 4M MW-12									Х		G
L61725-05	HAMPTON 4M MW-16									Х		<u>E</u>
L61725-06	HAMPTON 4M SEEP									Х		
L61725-07	HAMPTON 4M MW-5									Х	•	
L61725-08	HAMPTON 4M MW-11									Х		
L61725-09	HAMPTON 4M MW-7									Х		1.]
Semploe	ontelher Preservation Lege	nd 🗧									1.10	
Abbreviati	on Description	Contai	T		4							
Abbiction	on Description	Contai	neriyp	be Pre	servat	ive/Limi	its					
R	Raw/Nitric	RED	neriyp		must be		its					
			neriy	pН		< 2	its					
R	Raw/Nitric	RED		рН pH	must be	< 2 < 2	its					
R B	Raw/Nitric Filtered/Sulfuric	red Blue		рН рН рН	must be must be	< 2 < 2 < 2	its					
R B BK	Raw/Nitric Filtered/Sulfuric Filtered/Nitric	RED BLUE BLACK		рН рН рН рН	must be must be must be	< 2 < 2 < 2 < 2	its					
R B BK G	Raw/Nitric Filtered/Sulfuric Filtered/Nitric Filtered/Nitric	red Blue Black Green	ΞĒ	рН рН рН рН	must be must be must be must be	< 2 < 2 < 2 < 2 < 2 < 2	its					
R B BK G O	Raw/Nitric Filtered/Sulfuric Filtered/Nitric Filtered/Nitric Raw/Sulfuric	RED BLUE BLACK GREEN ORANG	ΞĒ	рН рН рН рН рН	must be must be must be must be must be	< 2 < 2 < 2 < 2 < 2 < 2 < 2 > 12 *	its				·	
R B BK G O P	Raw/Nitric Filtered/Sulfuric Filtered/Nitric Filtered/Nitric Raw/Sulfuric Raw/NaOH	RED BLUE BLACK GREEN ORANG PURPLI	BE E	рН рН рН рН рН рН	must be must be must be must be must be must be	< 2 < 2 < 2 < 2 < 2 > 12 * > 12	its					
R B BK G O P T	Raw/Nitric Filtered/Sulfuric Filtered/Nitric Filtered/Nitric Raw/Sulfuric Raw/NaOH Raw/NaOH Zinc Acetate	RED BLUE BLACK GREEN ORANG PURPLI TAN YELLO	BE E	рН рН рН рН рН рН	must be must be must be must be must be must be	< 2 < 2 < 2 < 2 < 2 > 12 * > 12 < 2	it s					
R B BK G O P T Y	Raw/Nitric Filtered/Sulfuric Filtered/Nitric Filtered/Nitric Raw/Sulfuric Raw/NaOH Raw/NaOH Zinc Acetate Raw/Sulfuric	RED BLUE BLACK GREEN ORANG PURPLI TAN YELLO	GE E W W GLAS	рН рН рН рН рН рН	must be must be must be must be must be must be must be	< 2 < 2 < 2 < 2 < 2 > 12 * > 12 < 2	it s					

* pH check performed by analyst prior to sample preparation

Sample IDs Reviewed By:

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F	Report to Marine Name: <u>Grego</u>	Wurtz				Addre	<u>ss: B</u>				a lead an	almand a n	division for the state	
	Company: Burlin E-mail: GWUTZ					Telepi	Far hone: E	$-m_i$ n		-		7-		
E.	Copy of Report to: Name: Martin					E-mail	<u>: mir</u>	$\frac{1}{2}$	leste	irse	rviu	25. C	M	
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	E-mail: If sample(s) received		time (HT), o	r if insufficient] HT rema	Telepi lins to		e				YES	\checkmark	
	analysis before expira If "NO" then ACZ will is indicated, ACZ will	contact clien	t for further	instruction. If	neither '	'YES" n	nor "NO		vill he c	malifie	4.	NO]	
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1	Project/PO #: Har Reporting state for c	ompliance te	esting:			Containers	8021B							
	Sampler's Name: Are any samples NF	C licensable	material?	ETIME	Matrix	# of C	BTEX &							
	Hampton 4M	MW-I	03-26-0 - 03-26-07	7:0936	GW GW	2	~~~							
	Hampton 4M	MW-12	6 <u>3-26-07</u> 63-26-07	1:1143	GW GW	2	1				•			
		<u>MW-16</u> Seep MW-5	63-26-07 103-26-07		GW GW GW	Z Z	277							
aLa 09.26-07	Thomaston 444	171W=1 MW-11	13-210-D	7:1310-	GW GW	2	v V			_				
	Hampton 4N	1 MW-7	03-26-0	7:1310 • WW (Waste Wa	GW	Z Drinking	Water) ·	SL (Sludg	je) [,] SO (Soil) O	(Oil) · C)ther (Spe	ecify)	
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ACZ Laboratories, Inc.

2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493



July 12, 2007

Report to: Gregg Wurtz ConocoPhillips Company 3401 E. 30th St. P.O. Box 4289 Farmington, NM 87499

cc: Martin Nee

1. N.

Project ID: HAMPTON 4M ACZ Project ID: L63464 Bill to: B. Curley Burlington Resources, Inc. P.O. Box 2200 Bartleville, OK 74005

Gregg Wurtz:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on June 27, 2007. This project has been assigned to ACZ's project number, L63464. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan, version 11.0. The enclosed results relate only to the samples received under L63464. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after August 12, 2007. If the samples are determined to be hazardous, additional charges apply for disposal (typically less than \$10/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical reports for five years.

If you have any questions or other needs, please contact your Project Manager.

30/Mar/07

Tony Antalek, Project Manager, has reviewed and approved this report in its entirety.





REPAD.01.06.05.01



July 12, 2007

Project ID: HAMPTON 4M ACZ Project ID: L63464

Sample Receipt

ACZ Laboratories, Inc. (ACZ) received 10 ground water samples from ConocoPhillips Company on June 27, 2007. The samples were received in good condition. Upon receipt, the sample custodian removed the samples from the cooler, inspected the contents, and logged the samples into ACZ's computerized Laboratory Information Management System (LIMS). The samples were assigned ACZ LIMS project number L63464. The custodian verified the sample information entered into the computer against the chain of custody (COC) forms and sample bottle labels.

Holding Times

All analyses were performed within EPA recommended holding times.

Sample Analysis

These samples were analyzed for organic parameters. The individual methods are referenced on both, the ACZ invoice an the analytical reports. The following anomaly required further explanation not provided by the Extended Qualifier Report:

1. For sample -08 flagged with an "E1", benzene exceeded the calibration range. The result is considered estimated.



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Project ID: HAMPTON 4M Sample ID: HAMPTON 4M MW-1



ACZ Sample ID:	L63464-01
Date Sampled:	06/26/07 7:00
Date Received:	06/27/07
Sample Matrix:	Ground Water

Benzene, Toluene, Ethylbenzene & Xylene

Analysis Method: M8021B GC/PID Extract Method:

Analyst:	ccp/jj							
Extract Date:								
Analysis Date:	07/05/07 15:01							
Compound		CAS	Result	QUAL	Dilution	D. Units.	- MDL	POL
Benzene		71-43-2		U	1	ug/L	0.3	1
Ethylbenzene		100-41-4		U	1	ug/L	0.2	1
m p Xylene		1330-20-7		U	1	ug/L	0.4	2
o Xylene		95-47- 6		U	1	ug/L	0.2	1
Toluene		108-88-3		U	1	ug/L	0.2	1
Surroyate Recover	ites	CAS	% Recovery		Dilution X	e). Units	LGL ·	OCL
Bromofluorobenzen	е	460-00-4	91.6		1	%	70	130



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Project ID: HAMPTON 4M Sample ID: HAMPTON 4M MW-15



ACZ Sample ID:	L63464-02
Date Sampled:	06/26/07 7:35
Date Received:	06/27/07
Sample Matrix:	Ground Water

Benzene, Toluene, Ethylbenzene & Xylene

Analysis Method: **M8021B GC/PID** Extract Method:

Analyst:	ccp/jj									
Extract Date:										
Analysis Date:	07/05/07 1	5:44								
Daipound 🛷 🤄		C C	AS		Result	QUAL-	Dilution	C Utto	MDL	POL
Benzene		7.	1-43-2			U	1	ug/L	0.3	1
Ethylbenzene		10	0-41-4			U	1	ug/L	0.2	1
m p Xylene		13	330-20-7			. U	1	ug/L	0.4	2
o Xylene		95	5-47- 6			U ·	- 1	ug/L	0.2	1
Toluene		1()8-88-3		0.5	J	1	ug/L	0.2	1
Sunconfe Recove	ilee 🦾 👘	G	AS	- %	Recovery		Dilution .	O Unio	ાલા	OCL
Bromofluorobenzen	e	46	60-00-4		89.4		1	%	70	130



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Project ID: HAMPTON 4M Sample ID: HAMPTON 4M MW-9



ACZ Sample ID:	L63464-03
Date Sampled:	06/26/07 8:12
Date Received:	06/27/07
Sample Matrix:	Ground Water

Benzene, Toluene, Ethylbenzene & Xylene

Analysis Method: M8021B GC/FID Extract Method:

Analyst:	ccp/jj							
Extract Date:								
Analysis Date:	07/05/07 16:27							
Compound 🖓		CAS	Result	QUAL	Dilution 2	© Uiffs	CIDL :	୍ୟାମ୍
Benzene		71-43-2		U	1	ug/L	0.3	1
Ethylbenzene		100-41-4		Ū	1	ug/L	0.2	1
m p Xylene		1330-20-7		U	1	ug/L	0.4	2
o Xylene		95-47- 6		U	1	ug/L	0.2	1
Toluene		108-88-3		U	1	ug/L	0.2	ຸ 1
SurcenteRecove	ies 👘	CAS	Recovery		Dilution 5	elinu-O	<u>l</u> el:	. ve
Bromofluorobenzen	e	460-00-4	92		1	%	70	130



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Project ID: HAMPTON 4M Sample ID: HAMPTON 4M MW-16



ACZ Sample ID:	L63464-04
Date Sampled:	06/26/07 8:50
Date Received:	06/27/07
Sample Matrix:	Ground Water

Benzene, Toluene, Ethylbenzene & Xylene

Analysis Method: M8021B GC/PID Extract Method:

Workenoupe	WG227741			-ncc				<u>.</u>
Analyst:	ccp/jj							
Extract Date:								
Analysis Date:	07/05/07 17:53							
രാണ്ടാവസ്കാരം		CAS	Result QUAL	Dilution	D.C	Units	MDF.	POL
Benzene		71-43-2	5230	100	*	ug/L	30	100
Ethylbenzene		100-41-4	770	100	*	ug/L	20	100
m p Xylene		1330-20-7	5840	100	*	ug/L	40	200
o Xylene		95-47- 6	1920	100	*	ug/L	20	100
Toluene		108-88-3	9110	100	*	ug/L	20	100
Surrogate Recover	ics	CAS	% Recovery	Dilution	· 20	Units	lo	OGL
Bromofluorobenzen	9	460-00-4	103.9	100	**************************************	%	70	130



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Project ID: HAMPTON 4M Sample ID: HAMPTON 4M MW-12



ACZ Sample ID:	L63464-05
Date Sampled:	06/26/07 9:26
Date Received:	06/27/07
Sample Matrix:	Ground Water

Benzene, Toluene, Ethylbenzene & Xylene

Analysis Method: M8021B GC/PID Extract Method:

Workcroupe	WG22171	6							1990 - Y	11. Alton 17. Alton 17.	28
Analyst:	ccp/jj			· ·							
Extract Date:											
Analysis Date:	07/05/07	18:37									
Compound .	- 19 - 19 - 19 - 19 - 19 - 19 - 19 - 19	() () () () () () () () () ()	CAS	R	isult 🚬 🕚	QUAL	lilution	XQ	Odis	- MDL	POL
Benzene			71-43-2	1	520		20	*	ug/L	6	20
Ethylbenzene			100-41-4		118		20	*	ug/L	4	20
m p Xylene			1330-20-7	2	239		20	*	ug/L	8	40
o Xylene		ę	95-47- 6		101		20	*	ug/L	4	20
Toluene			108-88-3	2	132		20	*	ug/L	4	20
Surregate Recover	CIS (CAS	%Re	covery		llalion	XQ:	Units	LOL	UCL
Bromofluorobenzene		land and the second	460-00-4	9	4.2		20		%	70	130



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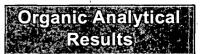
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Project ID:	HAMPTON 4M
Sample ID:	HAMPTON 4M SEEP



ACZ Sample ID:	L63464-06
Date Sampled:	06/26/07 9:37
Date Received:	06/27/07
Sample Matrix:	Ground Water

Benzene, Toluene, Ethylbenzene & Xylene

Analysis Method: M8021B GC/PID Extract Method:

Warkereups					4			
Analyst:	ccp/jj							
Extract Date:								
Analysis Date:	07/05/07 19:19							
Comparind And		CAS	Result	QUAL	Dilution	x@ Units .	MDL	FOL
Benzene		71-43-2		U	1	ug/L	0.3	1
Ethylbenzene		100-41-4		U	1	ug/L	0.2	1
m p Xylene		1330-20-7		U	1	ug/L	0.4	2
o Xylene		95-47- 6		U	1	ug/L	0.2	1
Toluene		108-88-3		U	1	ug/L	0.2	1
Surcento Recover	109	CAS	%Recovery	See - 42 - 44 - 1	Dilution	xo Units	LOL	Ual
Bromofluorobenzen	9	460-00-4	91.6		1	%	70	130

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Project ID: HAMPTON 4M Sample ID: HAMPTON 4M MW-5

Organic Analytical Results

ACZ Sample ID:	L63464-07
Date Sampled:	06/26/07 10:12
Date Received:	06/27/07
Sample Matrix:	Ground Water

Benzene, Joluene, Ethylpenzene & Xylene

Analysis Method: **M8021B GC/FID** Extract Method:

Workenous	WEDIMAN					Ş.			
Analyst: c	ccp/jj								
Extract Date:					•				
Analysis Date: 0	07/05/07 20:03								
Compound	Part in the second	CAS	2 RESUL	CUAL .	Ollation	SO.	Units	, MDF	POL
Benzene		71-43-2	740		100	*	ug/L	30	100
Ethylbenzene		100-41-4	640		100	*	ug/L	20	100
m p Xylene		1330-20-7	5770		100	*	ug/L	40	200
o Xylene		95-47- 6	1550		100	*.	ug/L	20	100
Toluene		108-88-3	8070		100	*	ug/L	20	100
Surceale Recoveries		QAS .	%Recovery		Diluion	œ	Offici	LOL	UGL
Bromofluorobenzene		460-00-4	105.9		100		%	70	130

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Project ID: HAMPTON 4M Sample ID: HAMPTON 4M TMW-1



ACZ Sample ID:	L63464-08
Date Sampled:	06/26/07 10:40
Date Received:	06/27/07
Sample Matrix:	Ground Water

Benzene, Toluene, Ethylbenzene & Xylene

Analysis Method: M8021B GC/PID Extract Method:

Analyst:	<u>. ₩G927741 →</u> ccp/jj				agrappentan persona a chi	and the diamate of the second s	
Extract Date:							
Analysis Date:	07/05/07 20:46						
Compound:		CAS	Result QU/	AL. Dilution XQ	Units	MDL >	POL
Benzene		71-43-2	269	1 *	ug/L	0.3	1
Ethylbenzene		100-41-4	4.9	1	ug/L	0.2	1
m p Xylene		1330-20-7	11.1	1	ug/L	0.4	2
o Xylene		95-47- 6	4.6	1	ug/L	0.2	1
Toluene		108-88-3	2.6	1	ug/L	0.2	1
SurogateRecover	ics	CAS ~	Recovery	· Dilution XQ	Unite	Let .	UCL
Bromofluorobenzen	e	460-00-4	105.9	1	%	70	130



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Project ID: HAMPTON 4M Sample ID: HAMPTON 4M MW-7

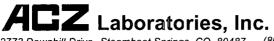


ACZ Sample ID:	L63464-09
Date Sampled:	06/26/07 11:10
Date Received:	06/27/07
Sample Matrix:	Ground Water

Benzene, Toluene, Ethylbenzene & Xylene

Analysis Method: M8021B GC/PID Extract Method:

Analyst:	ccp/jj							
Extract Date:								
Analysis Date:	07/05/07 21:29							
Soulooning 👘 👘		GAS	Result	QUAL	Dilution - 2	Q Units		POL
Benzene		71-43-2	56		1	ug/L	0.3	1
Ethylbenzene		100-41-4	17.7		1	ug/L	0.2	1
m p Xylene		1330-20-7		U	1	ug/L	0.4	2
o Xylene		95-47- 6	1.3		1	ug/L	0.2	1
Toluene		108-88-3	0.4	J	1	ug/L	0.2	1
Surrogale Recove	ies 👘	CAS	Recovery		Dilution S	Q Units	LCL	JOEL
Bromofluorobenzen	e	460-00-4	111		1	%	70	130



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Project ID: HAMPTON 4M Sample ID: HAMPTON 4M MW-11

Organic Analytical Results

ACZ Sample ID:	L63464-10
Date Sampled:	06/26/07 12:15
Date Received:	06/27/07
Sample Matrix:	Ground Water

Benzene, Toluene, Ethylbenzene & Xylene

Analysis Method: **M8021B GC/PID** Extract Method:

Workeroupe	WERTHER							
Analyst:	ccp/jj							
Extract Date:				*				
Analysis Date:	07/05/07 22:12							
ஹைன்		CAS .	िः तिक्तापि	COUL'	elluion Xe	Uifs	ride t	POL
Benzene		71-43-2		υ	1	ug/L	0.3	1
Ethylbenzene		100-41-4		U	1	ug/L	0.2	1
m p Xylene		1330-20-7		U	1	ug/L	0.4	2
o Xylene		95-47- 6		U	1	ug/L	0.2	1
Toluene		108-88-3		U	1	ug/L	0.2	1
Surrogato Recover	teş 👘 🚺	OAS .	%Recovery		Olluton XQ	Units	LOL	UCL
Bromofluorobenzene	e	460-00-4	100.5		1	%	70	130

ACZ	Laborat	tories	s, Inc.
2773 Downhill Drive	Steamhoat Springs	CO 8048	7 (800) 334-54

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(800) 334-5493 2773 Downhill Drive Steamboat Springs, CO 80487

	Explanations C			
Batch	A distinct set of samples ana	•		
Found	Value of the QC Type of inter	rest		
Limit	Upper limit for RPD, in %.			
Lower	Lower Recovery Limit, in %	(except for LCSS, mg/Kg	g)	
LCL	Lower Control Limit			
MDL		•	•	instrument and annual fluctuations.
PCN/SCN	A number assigned to reager	nts/standards to trace to	the manufacturer's	s certificate of analysis
PQL	Practical Quantitation Limit			
QC	True Value of the Control Sal	•		
Rec	Amount of the true value or s			SS, mg/Kg)
RPD	Relative Percent Difference,			
Upper	Upper Recovery Limit, in %	(except for LCSS, mg/Kg	g)	
UCL	Upper Control Limit			
Sample	Value of the Sample of intere	est	S. CONTRACTOR AND	
Sample Ty	pes		el destructions	
SURR	Surrogate		LFM	Laboratory Fortified Matrix
INTS	Internal Standard		LFMD	Laboratory Fortified Matrix Duplicate
DUP	Sample Duplicate		LRB	Laboratory Reagent Blank
LCSS	Laboratory Control Sample -	Soil	MS/MSD	Matrix Spike/Matrix Spike Duplicate
LCSW	Laboratory Control Sample -	Water	PBS	Prep Blank - Soil
LFB	Laboratory Fortified Blank	The state of the s	PBW	Prep Blank - Water
Sample Ty	pe Explanations		1	
Sample Ty Blanks	A PARTY AND A PART	ifies that there is no or m	ninimal contaminati	on in the prep method procedure.
	Veri	ifies that there is no or m ifies the accuracy of the		
Blanks	Veri mples Veri		method, including	the prep procedure.
Blanks Control Sa Duplicates	Veri mples Veri Veri	ifies the accuracy of the	method, including instrument and/or	the prep procedure. method.
Blanks Control Sa Duplicates	Veri mples Veri Veri tified Matrix Det	ifies the accuracy of the ifies the precision of the	method, including instrument and/or	the prep procedure. method.
Blanks Control Sa Duplicates Spikes/For	Veri mples Veri Veri tified Matrix Det	ifies the accuracy of the ifies the precision of the ermines sample matrix in	method, including instrument and/or	the prep procedure. method.
Blanks Control Sa Duplicates Spikes/For 2 Qualifier	Veri mples Veri Veri tified Matrix Det	ifies the accuracy of the ifies the precision of the ermines sample matrix in nk	method, including instrument and/or	the prep procedure. method.
Blanks Control Sa Duplicates Spikes/For 2 Qualifier: B	Veri mples Veri Veri tified Matrix Dete (Qual) Analyte detected in daily blar	ifies the accuracy of the ifies the precision of the ermines sample matrix in nk nk old time.	method, including instrument and/or nterferences, if any	the prep procedure. method.
Blanks Control Sa Duplicates Spikes/For Z Qualifiers B H	Veri mples Veri tified Matrix Deta (Qual) Analyte detected in daily blar Analysis exceeded method h	ifies the accuracy of the ifies the precision of the ermines sample matrix ir nk nk nold time. ed at a value between M	method, including instrument and/or nterferences, if any interferences, if any	the prep procedure. method.
Blanks Control Sa Duplicates Spikes/For Z Qualifier B H J	Veri mples Veri tified Matrix Dete (Qual) Analyte detected in daily blar Analyte concentration detecte Poor spike recovery accepted	ifies the accuracy of the ifies the precision of the ermines sample matrix ir nk hk hold time. ed at a value between M d because the other spik	method, including instrument and/or nterferences, if any IDL and PQL ice in the set fell wit	the prep procedure. method.
Blanks Control Sa Duplicates Spikes/For 24 Qualifier B H J R	Veri mples Veri tified Matrix Dete (Qual) Analyte detected in daily blar Analyte concentration detecte Poor spike recovery accepted	ifies the accuracy of the ifies the precision of the ermines sample matrix in nk old time. ed at a value between M d because the other spik ence (RPD) accepted be	method, including instrument and/or interferences, if any interferences, if any interfer	the prep procedure. method.
Blanks Control Sa Duplicates Spikes/For Coualifier B H J R T	Veri mples Veri tified Matrix Dete (Qual) Analyte detected in daily blar Analyte detected in daily blar Analyte concentration detecte Analyte concentration detecte Poor spike recovery accepted High Relative Percent Differe Analyte was analyzed for but	ifies the accuracy of the ifies the precision of the ermines sample matrix in nk old time. ed at a value between M d because the other spik ence (RPD) accepted bec and detected at the indic	method, including instrument and/or interferences, if any IDL and PQL te in the set fell wit cause sample cond cated MDL	the prep procedure. method.
Blanks Control Sa Duplicates Spikes/For Qualifier B H J R T U	Veri mples Veri tified Matrix Dete (Qual) Analyte detected in daily blar Analyte detected in daily blar Analyte concentration detecte Analyte concentration detecte Poor spike recovery accepted High Relative Percent Differe Analyte was analyzed for but	ifies the accuracy of the ifies the precision of the ermines sample matrix in nk old time. ed at a value between M d because the other spik ence (RPD) accepted bed r not detected at the indic cause sample concentra	method, including instrument and/or interferences, if any IDL and PQL te in the set fell wit cause sample cond cated MDL ation is 10 times hig	the prep procedure. method. hin the given limits. centrations are less than 10x the MDL.
Blanks Control Sa Duplicates Spikes/For Potellifier B H J R T U V	Veri mples Veri tified Matrix Deta (Qual) Analyte detected in daily blar Analyte detected in daily blar Analyte concentration detecte Poor spike recovery accepter High Relative Percent Differe Analyte was analyzed for but High blank data accepted be	ifies the accuracy of the ifies the precision of the ermines sample matrix in the cold time. ed at a value between M d because the other spik ence (RPD) accepted be in the detected at the indic cause sample concentra ity control is accepted be	method, including instrument and/or interferences, if any IDL and PQL te in the set fell wit cause sample cond cated MDL ation is 10 times hig	the prep procedure. method. hin the given limits. centrations are less than 10x the MDL.
Blanks Control Sa Duplicates Spikes/For ZCOURLINET B H J R J R T U V W	Veri mples Veri Veri (Qual) Analyte detected in daily blar Analyte detected in daily blar Analyte concentration detecte Poor spike recovery accepted High Relative Percent Differe Analyte was analyzed for but High blank data accepted be Poor recovery for Silver quali Quality contreol sample is ou	ifies the accuracy of the ifies the precision of the ermines sample matrix in nk old time. ed at a value between M d because the other spik ence (RPD) accepted be cause sample concentra ity control is accepted be at of control.	method, including instrument and/or interferences, if any IDL and PQL the in the set fell wit cause sample cond cated MDL ation is 10 times hig ecause Silver often	the prep procedure. method. hin the given limits. centrations are less than 10x the MDL.
Blanks Control Sa Duplicates Spikes/For Zouelliner B H J R T U V V W X	Veri mples Veri Veri (Qual) Analyte detected in daily blar Analyte detected in daily blar Analyte concentration detecte Poor spike recovery accepted High Relative Percent Differe Analyte was analyzed for but High blank data accepted be Poor recovery for Silver quali Quality contreol sample is ou	ifies the accuracy of the ifies the precision of the ermines sample matrix in which is a sample matrix in old time. ed at a value between M d because the other spik ence (RPD) accepted bea in the detected at the indic cause sample concentra ity control is accepted be ut of control. ted because sample con	method, including instrument and/or interferences, if any IDL and PQL te in the set fell wit cause sample cond cated MDL ation is 10 times hig ecause Silver often	the prep procedure. method. , hin the given limits. centrations are less than 10x the MDL. gher than blank concentration precipitates with Chloride.
Blanks Control Sa Duplicates Spikes/For Z Qualifier B H J R T U V V W X Z	Veri mples Veri Veri tified Matrix Dete (Qual) Analyte detected in daily blar Analyte detected in daily blar Analyte detected in daily blar Analyte concentration detecte Poor spike recovery accepted High Relative Percent Differe Analyte was analyzed for but High blank data accepted be Poor recovery for Silver quali Quality contreol sample is ou Poor spike recovery is accept	ifies the accuracy of the ifies the precision of the ermines sample matrix in which is a sample matrix in old time. ed at a value between M d because the other spik ence (RPD) accepted bea is not detected at the india cause sample concentra- ity control is accepted be ut of control. ted because sample cor from second detector by	method, including instrument and/or interferences, if any IDL and PQL te in the set fell with cause sample cond cated MDL ation is 10 times hig ecause Silver often incentration is four t y more than 40%.	the prep procedure. method. hin the given limits. centrations are less than 10x the MDL. ther than blank concentration precipitates with Chloride. imes greater than spike concentration.
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L61725: Page 13 of 16



ConocoPhillips Company

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Organic Extended Qualifier Report

ACZ Project ID: L63464

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL		
L63464-04	WG227741	Benzene	M8021B GC/PID	D2	Sample required dilution. calibration range.	Target analyte exceeded
		Ethylbenzene	M8021B GC/PID	D2	Sample required dilution. calibration range.	Target analyte exceeded
		m p Xylene	M8021B GC/PID	D2	Sample required dilution. calibration range.	Target analyte exceeded
		o Xylene	M8021B GC/PID	D2	Sample required dilution. calibration range.	Target analyte exceeded
		Toluene	M8021B GC/PID	D2	Sample required dilution. calibration range.	Target analyte exceeded
.63464-05	WG227741	Benzene	M8021B GC/PID	D2	Sample required dilution. calibration range.	Target analyte exceeded
		Ethylbenzene	M8021B GC/PID	D2	Sample required dilution. calibration range.	Target analyte exceeded
		m p Xylene	M8021B GC/PID	D2	Sample required dilution. calibration range.	Target analyte exceeded
		o Xylene	M8021B GC/PID	D2	Sample required dilution. calibration range.	Target analyte exceeded
		Toluene	M8021B GC/PID	D2	Sample required dilution. calibration range.	Target analyte exceeded
63464-07	WG227741	Benzene	M8021B GC/PID	D2	Sample required dilution. calibration range.	Target analyte exceeded
		Ethylbenzene	M8021B GC/PID	D2	Sample required dilution. calibration range.	Target analyte exceeded
		m p Xylene	M8021B GC/PID	D2	Sample required dilution. calibration range.	Target analyte exceeded
		o Xylene	M8021B GC/PID	D2	Sample required dilution. calibration range.	Target analyte exceeded
		Toluene	M8021B GC/PID	D2	Sample required dilution. calibration range.	Target analyte exceeded
l.63464-08	WG227741	Benzene	M8021B GC/PID	E1	Concentration estimated. range. See Case Narrativ	Analyte exceeded calibration e.

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ACZ Project ID: L63464

ALC: NO

No certification qualifiers associated with this analysis

ACZ Laboratories, Inc.

2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

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ConocoPhillips Company HAMPTON 4M	ACZ Pro Date Re Recei	-	6	L63464 /27/2007
	Date	Printed:	6	/27/2007
ReceiptVerification			1. S.	
		YES	NO	NA
1) Does this project require special handling procedures such as CLP protocol?				X
2) Are the custody seals on the cooler intact?		Х		
3) Are the custody seals on the sample containers intact?				X
4) Is there a Chain of Custody or other directive shipping papers present?		X		Sec. 1.
5) Is the Chain of Custody complete?				and a second
6) Is the Chain of Custody in agreement with the samples received?		X		
7) Is there enough sample for all requested analyses?		X		
8) Are all samples within holding times for requested analyses?		X		
9) Were all sample containers received intact?		X		
10) Are the temperature blanks present?				X
11) Are the trip blanks (VOA and/or Cyanide) present?				X
12) Are samples requiring no headspace, headspace free?		X		
13) Do the samples that require a Foreign Soils Permit have one?				X

Exceptions: If you answered no to any of the above questions, please describe.

N/A

Contact (For any discrepancies, the client must be contacted)

N/A

ooler Id	Temp (°C)	Rad (µR/hr)	Client must contact ACZ Project Manager if analysis should not proceed for
092	4.4	13	samples received outside of thermal preservation acceptance criteria.
	+	<u>+</u>	
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ConocoPhillips Company

HAMPTON 4M

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ACZ Project ID:	
Date Received:	
Received By:	

L63464 6/27/2007

Sample Contelluar Prasarcellon 19.84 13 36. SAMPLE CLIENT ID G < 2 | BK < 2 Y< 2 YG< 2 B< 2 O < 2 T >12 N/A RAD ID R < 2 63464-01 HAMPTON 4M MW-1 ω 63464-02 HAMPTON 4M MW-15 \square 63464-03 HAMPTON 4M MW-9 63464-04 HAMPTON 4M MW-16 _63464-05 HAMPTON 4M MW-12 L63464-06 HAMPTON 4M SEEP G _63464-07 HAMPTON 4M MW-5 \mathbb{E}^{j} L63464-08 HAMPTON 4M TMW-1 Ξ L63464-09 HAMPTON 4M MW-7 C L63464-10 HAMPTON 4M MW-11 523 Semplo Contellior Preservention Legend A CARLES Abbreviation Description **Container Type Preservative/Limits** Raw/Nitric R RED pH must be < 2 В Filtered/Sulfuric BLUE pH must be < 2 ΒK Filtered/Nitric BLACK pH must be < 2 G Filtered/Nitric GREEN pH must be < 2 0 Raw/Sulfuric ORANGE pH must be < 2 Р Raw/NaOH PURPLE pH must be > 12 * т Raw/NaOH Zinc Acetate TAN pH must be > 12 Υ Raw/Sulfuric YELLOW pH must be < 2 YG Raw/Sulfuric YELLOW GLASS pH must be < 2 No preservative needed N/A Not applicable

must be < 250 µR/hr

* pH check performed by analyst prior to sample preparation

Not applicable

Gamma/Beta dose rate

Sample IDs Reviewed By:

RAD

REPAD.03.11.00.01

2773 Downhill Drive Steamboat Springs, Cu	•	-5493				e e e e e e e e e e e e e e e e e e e	HAIN	OrC	USI C	۲u M
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analysis before expiration, shall ACZ pro- If "NO" then ACZ will contact client for fu	•		-		м			NO	L	
is indicated, ACZ will proceed with the re-						be qual	ified.			
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Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

ANALYTICAL RESULTS

Prepared for:

ConocoPhillips PO Box 2200 Bartlesville OK 74005

Prepared by:

Lancaster Laboratories 2425 New Holland Pike Lancaster, PA 17605-2425

SAMPLE GROUP

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- 20 Jan 20

The sample group for this submittal is 1065260. Samples arrived at the laboratory on Tuesday, November 13, 2007. The PO# for this group is 4506560639 and the release number is MULDOON.

Client Description MW-1 Grab Water Sample Lancaster Labs Number 5211122

ELECTRONIC Tetra Tech COPY TO Attn: Kelly Blanchard

Questions? Contact your Client Services Representative Barbara A Weyandt at (717) 656-2300

Respectfully Submitted,

dirictin Dulley

Christine Dulaney Senior Specialist





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Page 1 of 1

Lancaster Laboratories Sample No. WW 5211122

MW-1 Grab Water Sample Site# Howell K-1

Collected:11/09/2007 15:00 by MC

Account Number: 11288

Submitted: 11/13/2007 09:10 Reported: 11/15/2007 at 19:17 Discard: 12/16/2007 ConocoPhillips PO Box 2200 Bartlesville OK 74005

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CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
02300	GC/MS Volatiles						
05401	Benzene	71-43-2	N.D.	0.5	5.	ug/l	1
05407	Toluene	108-88-3	N.D.	0.7	5.	ug/l	1 .
05415	Ethylbenzene	100-41-4	N.D.	0.8	5.	ug/l	1
06310	Xylene (Total)	1330-20-7	0.9	0.8	5.	ug/l	1

Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

		Laboratory	Chro	nicle		
CAT		-		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
02300	GC/MS Volatiles	SW-846 8260B	1	11/14/2007 13:03	Matthew F Regan	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	11/14/2007 13:03	Matthew F Regan	1

*=This limit was used in the evaluation of the final result



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Page 1 of 1

Quality Control Summary

Client Name: ConocoPhillips Reported: 11/15/07 at 07:17 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Group Number: 1065260

Analysis Name	Blank <u>Result</u>	Blank MDL**	Blank LOQ	Report <u>Units</u>	LCS <u>%REC</u>	LCSD <u>%REC</u>	LCS/LCSD <u>Limits</u>	<u>RPD</u>	RPD Max
Batch number: T073181AB	Sample nu	mber(s): 5	211122						
Benzene	N.D.	0.5	5.	uq/l	104	101	78-119	3	30
Toluene	N.D.	0.7	5.	ug/l	102	97	85-115	5	30
Ethylbenzene	N.D.	0.8	5.	ug/l	90	88	82-119	3	30
Xylene (Total)	N.D.	0.8	5.	ug/l	93	89	83-113	5	30

Sample Matrix Quality Control

<u>Analysis Name</u>	MS <u>%REC</u>	MSD <u>%REC</u>	MS/MSD <u>Limits</u>	<u>RPD</u>	RPD <u>MAX</u>	BKG <u>Conc</u>	DUP <u>Conc</u>	DUP RPD	Dup RPD <u>Max</u>
Batch number: T073181AB Benzene Toluene Ethylbenzene Xylene (Total)	Sample 110 109 101 103	number(s)	: 5211122 83-128 83-127 82-129 82-130	UNSPK:	P2111	.39			

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5211122	102	96	101	107
Blank	102	94	100	104
LCS	101	99	104	105
LCSD	101	92	104	106
MS	101	96	103	105
Limits:	80-116	77-113	80-113	78-113

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

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Lancaster Laboratories Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

N.D.	none detected	BMQL	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	MPN	Most Probable Number
IU	International Units	CP Units	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	NTU	nephelometric turbidity units
C	degrees Celsius	F	degrees Fahrenheit
Cal	(diet) calories	Ib.	pound(s)
meq	milliequivalents	kg	kilogram(s)
g	gram(s)	mg	milligram(s)
ug	microgram(s)	I	liter(s)
ug	milliliter(s)	ul	microliter(s)
m3	cubic meter(s)	fib >5 um/ml	fibers greater than 5 microns in length per ml

< less than – The number following the sign is the <u>limit of quantitation</u>, the smallest amount of analyte which can be reliably determined using this specific test.

- > greater than
- **ppm** parts per million One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.
- ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture.

U.S. EPA data qualifiers:

Organic Qualifiers

- A TIC is a possible aldol-condensation product
- **B** Analyte was also detected in the blank
- C Pesticide result confirmed by GC/MS
- **D** Compound quatitated on a diluted sample
- E Concentration exceeds the calibration range of the instrument
- J Estimated value
- N Presumptive evidence of a compound (TICs only)
- P Concentration difference between primary and
- confirmation columns >25%
- U Compound was not detected
- **X,Y,Z** Defined in case narrative

Inorganic Qualifiers

- **B** Value is <CRDL, but \geq IDL
- E Estimated due to interference
- M Duplicate injection precision not met
- N Spike amount not within control limits
- **S** Method of standard additions (MSA) used for calculation
- U Compound was not detected
- W Post digestion spike out of control limits
 - * Duplicate analysis not within control limits
- + Correlation coefficient for MSA < 0.995

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

WARRANTY AND LIMITS OF LIABILITY – In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSECUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions of Lancaster Laboratories and we hereby object to any conflicting terms contained in any acceptance or order submitted by client.



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Analysis Report

2425 New Holland Pike, PO Box 12/25, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

ANALYTICAL RESULTS

Prepared for:

ConocoPhillips PO Box 2200 Bartlesville OK 74005

Prepared by:

Lancaster Laboratories 2425 New Holland Pike Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 1074019. Samples arrived at the laboratory on Saturday, January 19, 2008. The PO# for this group is 4509350133 and the release number is LAUCKE.

Client Description MW-1 Grab Water Sample Lancaster Labs Number 5260849

ELECTRONIC Tetra Tech COPY TO

Attn: Kelly Blanchard

Questions? Contact your Client Services Representative Barbara A Weyandt at (717) 656-2300

Respectfully Submitted,

alas for

Marla S. Lord Senior Specialist



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Analysis Report

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Page 1 of 1

Lancaster Laboratories Sample No. 5260849 WW Group No. 1074019 MW-1 Grab Water Sample

Site# 04930 Howell K-1 - Aztec, NM

Collected:01/15/2008 15:10 by AM

Submitted: 01/19/2008 10:40 Reported: 02/12/2008 at 20:07 Discard: 03/14/2008 Account Number: 11288

ConocoPhillips PO Box 2200 Bartlesville OK 74005

HWLK1

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CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
02300	GC/MS Volatiles						
02010	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	5.	ug/l	1
05401	Benzene	71-43-2	N.D.	0.5	5.	ug/l	1
05407	Toluene	108-88-3	N.D.	0.7	5.	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.8	5.	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.8	5.	ug/l	1

Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

		Laboratory	/ Chro	nıcle		
CAT		-		Analysis		Dilution
No.	Analysis Name	Method	Trial#	Date and Time	Analyst	Factor
02300	GC/MS Volatiles	SW-846 8260B	1	01/22/2008 20:19	Matthew F Regan	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	01/22/2008 20:19	Matthew F Regan	1

*=This limit was used in the evaluation of the final result





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Page 1 of 1

Quality Control Summary

Client Name: ConocoPhillips Reported: 02/12/08 at 08:07 PM Group Number: 1074019

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank <u>Result</u>	Blank MDL**	Blank LOQ	Report <u>Units</u>	LCS <u>%REC</u>	LCSD <u>%REC</u>	LCS/LCSD <u>Limits</u>	<u>RPD</u>	<u>RPD_Max</u>
Batch number: T080221AA	Sample nu	mber(s): 5	260849						
Methyl Tertiary Butyl Ether	N.D.	0.5	5.	uq/l	105	104	73-119	1	30
Benzene	N.D.	0.5	5.	uq/l	101	96	78-119	5	30
Toluene	N.D.	0.7	5.	ug/l	106	103	85-115	3	30
Ethylbenzene	N.D.	0.8	5.	ug/l	100	101	82-119	1	30
Xylene (Total)	N.D.	0.8	5.	ug/l	103	101	83-113	1	30

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike Background (BKG) = the sample used in conjunction with the duplicate

102

103

Analysis Name	MS <u>%REC</u>	MSD <u>%REC</u>	MS/MSD <u>Limits</u>	<u>RPD</u>	RPD <u>MAX</u>	BKG <u>Conc</u>	DUP <u>Conc</u>	DUP <u>RPD</u>	Dup RPD <u>Max</u>
Batch number: T080221AA Methyl Tertiary Butyl Ether	Sample 101 101	number(s)	: 5260849 69-127 83-128	UNSPK:	P2604	.03			
Benzene Toluene	101		83-128						

82-129

82-130

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: GC/MS Volatiles Batch number: T080221AA

Ethylbenzene

Xylene (Total)

вассп пиш	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5260849	99	95	104	109
Blank	99	97	107	108
LCS	96	96	107	110
LCSD	95	99	108	108
MS	96	97	107	110
Limits:	80-116	77-113	80-113	78-113

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

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Lancaster Laboratories Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

N.D.	none detected	BMQL	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	MPN	Most Probable Number
IU	International Units	CP Units	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	NTU	nephelometric turbidity units
C	degrees Celsius	F	degrees Fahrenheit
Cal	(diet) calories	Ib.	pound(s)
meq	milliequivalents	kg	kilogram(s)
g	gram(s)	mg	milligram(s)
ug	microgram(s)	I	liter(s)
ug	milliliter(s)	u	microliter(s)
•	u ()	ul fib >5 um/ml	

< less than – The number following the sign is the <u>limit of quantitation</u>, the smallest amount of analyte which can be reliably determined using this specific test.

- > greater than
- **ppm** parts per million One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.
- ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture.

U.S. EPA data qualifiers:

2 Q 1

210.07 S

Organic Qualifiers

- A TIC is a possible aldol-condensation product
- **B** Analyte was also detected in the blank
- C Pesticide result confirmed by GC/MS
- **D** Compound quatitated on a diluted sample
- E Concentration exceeds the calibration range of the instrument
- J Estimated value
- N Presumptive evidence of a compound (TICs only)
- P Concentration difference between primary and
- confirmation columns >25% U Compound was not detected
- **V Z** Defined in case parrative
- **X,Y,Z** Defined in case narrative

Inorganic Qualifiers

- B Value is <CRDL, but ≥IDL
- **E** Estimated due to interference
- M Duplicate injection precision not met
- N Spike amount not within control limits
- **S** Method of standard additions (MSA) used for calculation
- U Compound was not detected
- W Post digestion spike out of control limits
 - * Duplicate analysis not within control limits
- + Correlation coefficient for MSA < 0.995

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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