3R - 0173

ANNUAL MONITORING REPORT

03/28/2008

3R 173

ANNUAL GROUNDWATER MONITORING REPORT

CONOCOPHILLIPS
FLORA VISTA NO. 1
FLORA VISTA, NEW MEXICO

OCD # _____

Prepared for:

ConocoPhillips

420 South Keeler Avenue
Bartlesville, OK 74004

Prepared by:

TETRA TECH, INC.

6121 Indian School Rd. NE, Suite 200
Albuquerque, NM 87110
Tetra Tech Project No. 115869006.1

March 28, 2008

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ANNUAL GROUNDWATER MONITORING REPORT FLORA VISTA NO. 1, FLORA VISTA, NEW MEXICO

1.0 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 Flora Vista No. 1 site near Flora Vista, New Mexico (Figure 1). The site is located in Unit Letter F, Section 22, Township 30N, Range 12W, of San Juan County, New Mexico. The site consists of a gas production well and associated equipment and installations. A detailed site map is provided as Figure 2.

1.1 Site Background

Historic petroleum contaminated soil was discovered at the Flora Vista #1 location during a routine production resetting activity in 2003. Soil excavation activities were conducted to remove impacted soil. Ground water was observed in the bottom of the excavation at approximately 25 feet below the ground surface. During excavation, field screening was conducted by collecting samples to determine extent of impacted soil. To enhance the remediation of the remaining minor amounts of residual petroleum contamination in the soil of the excavation approximately 80 bbls of an oxidizer (potassium permanganate) solution was sprayed on the soils to breakdown the hydrocarbons.

A ground water source well (Monitoring Well #1) was installed slightly down gradient from the center of the excavation (Figure 2). Subsequent monitoring during September 2003 included analyses for benzene, toluene, ethylbenze, and total xylenes (BTEX), as well as total petroleum hydrocarbons (TPH). Ground water analyses indicated the presence of benzene and total xylenes above regulatory standards. The existing monitor well network consists of a single monitor well, MW-1 which is 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 well MW-1 during all sampling events. Prior to sampling depth to groundwater measurements were made at MW-1 during the November 2007 event and are provided in Table 1. No depth to groundwater measurement was collected during the January 2008 event.

2.2 Groundwater Sampling Methodology

Monitoring well MW-1was 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 performed by ACZ Laboratories, Inc. in Steamboat 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 exceeded the New Mexico Water Quality Control Commission (NMWQCC) standard for benzene (10 micrograms per liter [µg/L]) and total xylenes (620 µg/L) for all sampling events;
- Groundwater concentrations exceeded the New Mexico Water Quality Control Commission (NMWQCC) standard for ethylbenzene (750 µg/L) during the November 2007 and January 2008 sampling events;
- Generally, benzene, ethylbenzene and total xylenes concentrations increased significantly during the November 2007 sampling event compared to the March and July 2007 events;
- The benzene, ethlybenzene and total xylenes concentrations decreased slightly during the January 2008 event compared to the November 2007 event but remain considerably higher than during the first two sampling events of the year.

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 suggests that based on the increasing concentrations of benzene, ethylbenzene and total xylenes that the site remains on a quarterly monitoring program. Groundwater sampling events will be performed 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.

FIGURES

Figure 1. Site Location Map
ConocoPhillips Flora Vista #1 Site
Flora Vista, New Mexico

500
0 1000 feet

TETRA TECH, INC.

HWY 550

TRC Construction

TRC Monitoring Well Loctaion

Merrion Oil Waste Water Tank

Flora Vista #1 Production Well Head

Dirt Road for TRC Construction

MW-1

Pump Jack

COMPRESSOR (inside building owned by Merrion Oil)

Fence

BERM

PRODUCED WATER TANK

WASTE WATER TANK

SEPARATOR

METER RUN

TRC Bone Yard

gate

METER RUN

Estimated Groundwater Flow Direction based on topography and location of Animas River

Natural Gas Pipeline - Enterprise Products Operating, L.P. 1-800-203-1347

Fence

HOUSING DEVELOPMENT (irrigation wells at each lot)

FIGURE 2:
SITE LAYOUT MAP
CONOCOPHILLIPS
FLORA VISTA #1
Unit K, Sec 21, Twp 30N, Rng 8W
San Juan County, New Mexico
Revised by KEB 03/08

LEGEND

WELLHEAD

MONITORING WELL

N

0 15 30

FEET

TETRA TECH, INC.

TABLES

Table 1. ConocoPhillps Flora Vista No.1 Monitoring Well Specifications and Groundwater Elevation Table

Well ID	Total Depth (ft. bgs)	Screen Interval (ft)	Date Measured	Depth to Groundwater (ft below TOC)
MW-1	26.02	11.02 - 26.02	11/9/2007	19.71
			1/15/2008	NM

ft. = Feet

TOC = Top of casing

NM Not Measured

Table 2. ConocoPhillips Flora Vista No.1 Groundwater Analytical Results Summary

Well ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)
MW-1	3/27/2007	**2370**	7	504	**3749**
	6/25/2007	**2870**	140	510	**3890**
	11/9/2007	**5600**	<0.7	**910**	**6800**
	1/15/2008	**4200**	<0.7	**890**	**5700**
NMWQCC Standards		**10 (µg/L)**	**750 (µg/L)**	**750 (µg/L)**	**620 (µg/L)**

NMWQCC = New Mexico Water Quality Control Commission
µg/L = micrograms per liter (parts per billion)
<0.7 = Below laboratory detection limit of 0.7 ug/L

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

Analytical Report

April 09, 2007

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

Bill to:
B. Curley
ConocoPhillips Company
Burlington Resources P.O. Box 2200
Bartlesville, OK 74005

cc: Martin Nee

Project ID: FLORA VISTA 1
ACZ Project ID: L61729

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, L61729. Please reference this number in all future inquiries.

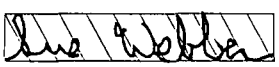
All analyses were performed according to ACZ's Quality Assurance Plan, version 11.0. The enclosed results relate only to the samples received under L61729. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

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 May 09, 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.



09/Apr/07

Sue Webber, Project Manager, has reviewed and approved this report in its entirety.

ACCREDITED IN ACCORDANCE WITH nelac

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 8048: (800) 334-5493

Case Narrative

ConocoPhillips Company

April 09, 2007

Project ID: FLORA VISTA 1
ACZ Project ID: L61729

Sample Receipt

ACZ Laboratories, Inc. (ACZ) received 1 ground water sample from ConocoPhillips Company on March 28, 2007. The sample was received in good condition. Upon receipt, the sample custodian removed the sample from the cooler, inspecte the contents, and logged the sample into ACZ's computerized Laboratory Information Management System (LIMS). The sample was assigned ACZ LIMS project number L61729. 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

This sample was analyzed for organic parameters. The individual methods are referenced on both, the ACZ invoice and th analytical reports. The following anomaly required further explanation not provided by the Extended Qualifier Report:

1. For O-xylene and Toluene values flagged with an "N1", for the ASD, no sample was added to the 5 ml syringe, only internal standards and surrogates. The LCSW/LCSWD recoveries were within control limits and the AS was within control limits so the data was flagged and accepted.

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

Organic Analytical Results

ConocoPhillips Company
Project ID: FLORA VISTA 1
Sample ID: FLORA VISTA 1 MW-1

ACZ Sample ID: ***L61729-01***
Date Sampled: *03/27/07 12:20*
Date Received: *03/28/07*
Sample Matrix: *Ground Water*

Benzene, Toluene, Ethylbenzene & Xylene

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

Workgroup: ***WG222542***
Analyst: *ccp*
Extract Date:
Analysis Date: ***04/03/07 12:56***

Compound	CAS	Result	QUAL	Dilution	XQ	Units	MDL	PQL
Benzene	71-43-2	2370		25	*	ug/L	8	30
Ethylbenzene	100-41-4	504		25	*	ug/L	5	30
m p Xylene	1330-20-7	3730		25	*	ug/L	10	50
o Xylene	95-47- 6	19	J	25	*	ug/L	5	30
Toluene	108-88-3	7	J	25	*	ug/L	5	30

Surrogate Recoveries	CAS	% Recovery	Dilution	XQ	Units	LCL	UCL
Bromofluorobenzene	460-00-4	113.9	25	*	%	70	130

** Please refer to Qualifier Reports for detail.*

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

Organic Reference

Report Header Explanations

Batch	A distinct set of samples analyzed at a specific time
Found	Value of the QC Type of interest
Limit	Upper limit for RPD, in %.
Lower	Lower Recovery Limit, in % (except for LCSS, mg/Kg)
LCL	Lower Control Limit
MDL	Method Detection Limit. Same as Minimum Reporting Limit. Allows for instrument and annual fluctuations.
PCN/SCN	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
PQL	Practical Quantitation Limit
QC	True Value of the Control Sample or the amount added to the Spike
Rec	Amount of the true value or spike added recovered, in % (except for LCSS, mg/Kg)
RPD	Relative Percent Difference, calculation used for Duplicate QC Types
Upper	Upper Recovery Limit, in % (except for LCSS, mg/Kg)
UCL	Upper Control Limit
Sample	Value of the Sample of interest

QC Sample Types

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	*PBW*	Prep Blank - Water

QC Sample Type Explanations

Blanks	Verifies that there is no or minimal contamination in the prep method procedure.
Control Samples	Verifies the accuracy of the method, including the prep procedure.
Duplicates	Verifies the precision of the instrument and/or method.
Spikes/Fortified Matrix	Determines sample matrix interferences, if any.

ACZ Qualifiers (Qual)

B	Analyte detected in daily blank
H	Analysis exceeded method hold time.
J	Analyte concentration detected at a value between MDL and PQL
R	Poor spike recovery accepted because the other spike in the set fell within the given limits.
T	High Relative Percent Difference (RPD) accepted because sample concentrations are less than 10x the MDL.
U	Analyte was analyzed for but not detected at the indicated MDL
V	High blank data accepted because sample concentration is 10 times higher than blank concentration
W	Poor recovery for Silver quality control is accepted because Silver often precipitates with Chloride.
X	Quality contreol sample is out of control.
Z	Poor spike recovery is accepted because sample concentration is four times greater than spike concentration.
P	Analyte concentration differs from second detector by more than 40%.
E	Analyte concentration is estimated due to result exceeding calibration range.
M	Analyte concentration is estimated due to matrix interferences.

Method References

(1)	EPA 600/4-83-020. Methods for Chemical Analysis of Water and Wastes, March 1983.
(2)	EPA 600/4-90/020. Methods for the Determination of Organic Compounds in Drinking Water (I), July 1990.
(3)	EPA 600/R-92/129. Methods for the Determination of Organic Compounds in Drinking Water (II), July 1990.
(5)	EPA SW-846. Test Methods for Evaluating Solid Waste, Third Edition with Update III, December, 1996.
(6)	Standard Methods for the Examination of Water and Wastewater, 19th edition, 1995.

Comments

(1)	QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
(2)	Organic analyses are reported on an "as received" basis.

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

Organic Extended Qualifier Report

ConocoPhillips Company

ACZ Project ID: ***L61729***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L61729-01	WG222542	*All Compounds*	M8021B GC/PID	Q3	Sample received with improper chemical preservation.
		Benzene	M8021B GC/PID	M2	Matrix spike recovery was low, the method control sample recovery was acceptable.
			M8021B GC/PID	R4	RPD for a spike and spike duplicate exceeded the method or laboratory control limit. At a minimum, one spike recovery met acceptance criteria.
		Ethylbenzene	M8021B GC/PID	M2	Matrix spike recovery was low, the method control sample recovery was acceptable.
			M8021B GC/PID	R4	RPD for a spike and spike duplicate exceeded the method or laboratory control limit. At a minimum, one spike recovery met acceptance criteria.
		m p Xylene	M8021B GC/PID	M2	Matrix spike recovery was low, the method control sample recovery was acceptable.
			M8021B GC/PID	R4	RPD for a spike and spike duplicate exceeded the method or laboratory control limit. At a minimum, one spike recovery met acceptance criteria.
		o Xylene	M8021B GC/PID	D1	Sample required dilution due to matrix.
			M8021B GC/PID	E4	Concentration estimated. Analyte was detected below laboratory minimum reporting level (MRL).
			M8021B GC/PID	N1	See Case Narrative.
		Toluene	M8021B GC/PID	D1	Sample required dilution due to matrix.
			M8021B GC/PID	E4	Concentration estimated. Analyte was detected below laboratory minimum reporting level (MRL).
			M8021B GC/PID	N1	See Case Narrative.

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

Certification Qualifiers

ConocoPhillips Company

ACZ Project ID: ***L61729***

No certification qualifiers associated with this analysis

ACZ Laboratories, Inc.

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

Sample Receipt

ConocoPhillips Company
FLORA VISTA 1

ACZ Project ID: L61729
Date Received: 3/28/2007
Received By:
Date Printed: 3/28/2007

Receipt Verification

	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		
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

Shipping Containers

Cooler Id		Temp (°C)	Rad (µR/hr)
1106		3.9	15

Client must contact ACZ Project Manager if analysis should not proceed for samples received outside of thermal preservation acceptance criteria.

Notes

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

Sample Receipt

ConocoPhillips Company
FLORA VISTA 1

ACZ Project ID: L61729
Date Received: 3/28/2007
Received By:

Sample Container Preservation

SAMPLE	CLIENT ID	R < 2	G < 2	BK < 2	Y< 2	YG< 2	B< 2	O < 2	T >12	N/A	RAD	ID
L61729-01	FLORA VISTA 1 MW-1									X		

Sample Container Preservation Legend

Abbreviation	Description	Container Type	Preservative/Limits
R	Raw/Nitric	RED	pH must be < 2
B	Filtered/Sulfuric	BLUE	pH must be < 2
BK	Filtered/Nitric	BLACK	pH must be < 2
G	Filtered/Nitric	GREEN	pH must be < 2
O	Raw/Sulfuric	ORANGE	pH must be < 2
P	Raw/NaOH	PURPLE	pH must be > 12 *
T	Raw/NaOH Zinc Acetate	TAN	pH must be > 12
Y	Raw/Sulfuric	YELLOW	pH must be < 2
YG	Raw/Sulfuric	YELLOW GLASS	pH must be < 2
N/A	No preservative needed	Not applicable	
RAD	Gamma/Beta dose rate	Not applicable	must be < 250 µR/hr

* pH check performed by analyst prior to sample preparation

Sample IDs Reviewed By: _____

L61729

ACZ Laboratories, Inc.

L6003-28-07 L61457

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

CHAIN of CUSTODY

Report to:

Name: Gregg Wurtz	Address: BOX 4289
Company: Burlington - ConocoPhillips	Farmington NM
E-mail: gwurtz@BR-inc.com	Telephone: 505 326 9537

Copy of Report to:

Name: M Nee	E-mail: mjn@lodestarservices.com
Company: Lodestar Services	Telephone: 505 334 2791

Invoice to:

Name: Gregg Wurtz	Address:
Company: as above	
E-mail:	Telephone:

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses? YES ✓ NO ☐

If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified.

PROJECT INFORMATION — **ANALYSES REQUESTED** *(attach list or use quote number)*

Quote #:

Project/PO #: Flora Vista 1 & Johnston Federal 4

Reporting state for compliance testing:

Sampler's Name: AL A

Are any samples NRC licensable material?

SAMPLE IDENTIFICATION	DATE:TIME	Matrix	# of Containers	8021B BTEX							
Johnston Federal 4 MW-1	03-27-07:0834	GW	2	✓							
Flora Vista 1 MW-1	03-27-07:1220	GW	2	✓							

COPY

Matrix: SW (Surface Water) · GW (Ground Water) · WW (Waste Water) · DW (Drinking Water) · SL (Sludge) · SO (Soil) · OL (Oil) · Other (Specify)

REMARKS

Please make 2 reports: 1 for Johnston Federal 4 results & 1 for Flora Vista 1 results

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

RELINQUISHED BY:	DATE:TIME	RECEIVED BY:	DATE:TIME
Ashley L Ager	03-27-07:1400	[illegible]	3-28-07 10:25

FRMAD050.03.05.02 White - Return with sample. Yellow - Retain for your records.

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

Analytical Report

July 12, 2007

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

Bill to:
B. Curley
Burlington Resources, Inc.
P.O. Box 2200
Bartleville, OK 74005

cc: Martin Nee

Project ID: FLORA VISTA #1
ACZ Project ID: L63462

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, L63462. 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 L63462. 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.

Sue Webber 12/Jul/07

Sue Webber, Project Manager, has reviewed and approved this report in its entirety.

ACCREDITED IN ACCORDANCE WITH nelac

ACIL

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

Organic Analytical Results

ConocoPhillips Company
Project ID: FLORA VISTA #1
Sample ID: FLORA VISTA #1 MW-1

ACZ Sample ID: ***L63462-01***
Date Sampled: *06/25/07 15:02*
Date Received: *06/27/07*
Sample Matrix: *Ground Water*

Benzene, Toluene, Ethylbenzene & Xylene

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

Workgroup: WG227741
Analyst: ccp/jj
Extract Date:
Analysis Date: 07/05/07 14:18

Compound	CAS	Result	QUAL	Dilution	XC	Units	MDL	PQL
Benzene	71-43-2	2870		50	*	ug/L	20	50
Ethylbenzene	100-41-4	510		50	*	ug/L	10	50
m p Xylene	1330-20-7	3720		50	*	ug/L	20	100
o Xylene	95-47- 6	170		50	*	ug/L	10	50
Toluene	108-88-3	140		50	*	ug/L	10	50

Surrogate Recoveries	CAS	% Recovery	Dilution	XC	Units	LCL	UCL
Bromofluorobenzene	460-00-4	94.5	50		%	70	130

** Please refer to Qualifier Reports for detail.*

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

Organic Reference

Report Header Explanations

Batch	A distinct set of samples analyzed at a specific time
Found	Value of the QC Type of interest
Limit	Upper limit for RPD, in %.
Lower	Lower Recovery Limit, in % (except for LCSS, mg/Kg)
LCL	Lower Control Limit
MDL	Method Detection Limit. Same as Minimum Reporting Limit. Allows for instrument and annual fluctuations.
PCN/SCN	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
PQL	Practical Quantitation Limit
QC	True Value of the Control Sample or the amount added to the Spike
Rec	Amount of the true value or spike added recovered, in % (except for LCSS, mg/Kg)
RPD	Relative Percent Difference, calculation used for Duplicate QC Types
Upper	Upper Recovery Limit, in % (except for LCSS, mg/Kg)
UCL	Upper Control Limit
Sample	Value of the Sample of interest

QC Sample Types

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	*PBW*	Prep Blank - Water

QC Sample Type Explanations

Blanks	Verifies that there is no or minimal contamination in the prep method procedure.
Control Samples	Verifies the accuracy of the method, including the prep procedure.
Duplicates	Verifies the precision of the instrument and/or method.
Spikes/Fortified Matrix	Determines sample matrix interferences, if any.

ACZ Qualifiers (Qual)

B	Analyte detected in daily blank
H	Analysis exceeded method hold time.
J	Analyte concentration detected at a value between MDL and PQL
R	Poor spike recovery accepted because the other spike in the set fell within the given limits.
T	High Relative Percent Difference (RPD) accepted because sample concentrations are less than 10x the MDL.
U	Analyte was analyzed for but not detected at the indicated MDL
V	High blank data accepted because sample concentration is 10 times higher than blank concentration
W	Poor recovery for Silver quality control is accepted because Silver often precipitates with Chloride.
X	Quality contreol sample is out of control.
Z	Poor spike recovery is accepted because sample concentration is four times greater than spike concentration.
P	Analyte concentration differs from second detector by more than 40%.
E	Analyte concentration is estimated due to result exceeding calibration range.
M	Analyte concentration is estimated due to matrix interferences.

Method References

(1)	EPA 600/4-83-020. Methods for Chemical Analysis of Water and Wastes, March 1983.
(2)	EPA 600/4-90/020. Methods for the Determination of Organic Compounds in Drinking Water (I), July 1990.
(3)	EPA 600/R-92/129. Methods for the Determination of Organic Compounds in Drinking Water (II), July 1990.
(5)	EPA SW-846. Test Methods for Evaluating Solid Waste, Third Edition with Update III, December, 1996.
(6)	Standard Methods for the Examination of Water and Wastewater, 19th edition, 1995.

Comments

(1)	QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
(2)	Organic analyses are reported on an "as received" basis.

REPIN03.11.00.01

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

Organic Extended Qualifier Report

ConocoPhillips Company

ACZ Project ID: ***L63462***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L63462-01	WG227741	Benzene	M8021B GC/PID	D2	Sample required dilution. Target analyte exceeded calibration range.
		Ethylbenzene	M8021B GC/PID	D2	Sample required dilution. Target analyte exceeded calibration range.
		m p Xylene	M8021B GC/PID	D2	Sample required dilution. Target analyte exceeded calibration range.
		o Xylene	M8021B GC/PID	D2	Sample required dilution. Target analyte exceeded calibration range.
		Toluene	M8021B GC/PID	D2	Sample required dilution. Target analyte exceeded calibration range.

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

Certification Qualifiers

ConocoPhillips Company

ACZ Project ID: ***L63462***

No certification qualifiers associated with this analysis

ACZ Laboratories, Inc.

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

Sample Receipt

ConocoPhillips Company
FLORA VISTA #1

ACZ Project ID: L63462
Date Received: 6/27/2007
Received By:
Date Printed: 6/28/2007

Receipt Verification

	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		
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

Shipping Containers

Cooler Id		Temp (°C)	Rad (µR/hr)
1092		4.4	13

Client must contact ACZ Project Manager if analysis should not proceed for samples received outside of thermal preservation acceptance criteria.

Notes

ACZ Laboratories, Inc.

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

Sample Receipt

ConocoPhillips Company
FLORA VISTA #1

ACZ Project ID: L63462
Date Received: 6/27/2007
Received By:

Sample Container Preservation

SAMPLE	CLIENT ID	R < 2	G < 2	BK < 2	Y< 2	YG< 2	B< 2	O < 2	T >12	N/A	RAD	ID
L63462-01	FLORA VISTA #1 MW-1									X		

Sample Container Preservation Legend

Abbreviation	Description	Container Type	Preservative/Limits
R	Raw/Nitric	RED	pH must be < 2
B	Filtered/Sulfuric	BLUE	pH must be < 2
BK	Filtered/Nitric	BLACK	pH must be < 2
G	Filtered/Nitric	GREEN	pH must be < 2
O	Raw/Sulfuric	ORANGE	pH must be < 2
P	Raw/NaOH	PURPLE	pH must be > 12 *
T	Raw/NaOH Zinc Acetate	TAN	pH must be > 12
Y	Raw/Sulfuric	YELLOW	pH must be < 2
YG	Raw/Sulfuric	YELLOW GLASS	pH must be < 2
N/A	No preservative needed	Not applicable	
RAD	Gamma/Beta dose rate	Not applicable	must be < 250 µR/hr

* pH check performed by analyst prior to sample preparation

Sample IDs Reviewed By: _____

L63462

ACZ Laboratories, Inc.

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

CHAIN of CUSTODY

Report to:

Name: Gregg Wurtz
Company: Burlington Conoco Phillips
E-mail: Gregg.G.Wurtz@ConocoPhillips.com
Address: PO Box 4289
Farmington NM 87401
Telephone: 505 326 9537

Copy of Report to:

Name: MNee
Company: Lodestar Services
E-mail: mjn@lodestarservices.com
Telephone: 5053209675

Invoice to:

Name: Gregg Wurtz
Company: As above
E-mail: "
Address: "
"
Telephone: "

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses? YES ✓ NO
If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified.

PROJECT INFORMATION

Quote #:
Project/PO #: FloraVista #1
Reporting state for compliance testing:
Sampler's Name: Martin Nee
Are any samples NRC licensable material? No

SAMPLE IDENTIFICATION	DATE/TIME	Matrix	# of Containers	8021B BTEX							
FloraVista #1 MW-1	62507 1502	WG	2	✓							

Matrix: SW (Surface Water) · GW (Ground Water) · WW (Waste Water) · DW (Drinking Water) · SL (Sludge) · SO (Soil) · OL (Oil) · Other (Specify)

REMARKS

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
	62607 1630		627-07 10:52

FRMAD050.03.05.02 White - Return with sample. Yellow - Retain for your records.

Lancaster Laboratories

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

Analysis Report

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 1065263. Samples arrived at the laboratory on Tuesday, November 13, 2007. The PO# for this group is 4509350129 and the release number is LAUCKE.

Client Description	Lancaster Labs Number
MW-1 Grab Water Sample	5211140
Duplicate Grab Water Sample	5211141
Trip Blank Water Sample	5211142

ELECTRONIC COPY TO Tetra Tech Attn: Kelly Blanchard

Lancaster Laboratories

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

Analysis Report

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

Respectfully Submitted,

Marla S. Lord
Senior Specialist

Lancaster Laboratories

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

Analysis Report

Lancaster Laboratories Sample No. 5211140 WW Group No. 1065263

MW-1 Grab Water Sample
Site #4928
Flora Vista #1

Collected:11/09/2007 08:50 by AM

Account Number: 11288

Submitted: 11/13/2007 09:10
Reported: 02/12/2008 at 20:08
Discard: 03/14/2008

ConocoPhillips
PO Box 2200
Bartlesville OK 74005

FVMW1

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	5,600.	50.	500.	ug/l	100
05407	Toluene	108-88-3	N.D.	7.	50.	ug/l	10
05415	Ethylbenzene	100-41-4	910.	8.	50.	ug/l	10
06310	Xylene (Total)	1330-20-7	6,800.	80.	500.	ug/l	100

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

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
02300	GC/MS Volatiles	SW-846 8260B	1	11/14/2007 20:34	Matthew F Regan	10
02300	GC/MS Volatiles	SW-846 8260B	1	11/15/2007 12:29	Matthew F Regan	100
01163	GC/MS VOA Water Prep	SW-846 5030B	1	11/14/2007 20:34	Matthew F Regan	10
01163	GC/MS VOA Water Prep	SW-846 5030B	2	11/15/2007 12:29	Matthew F Regan	100

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

Lancaster Laboratories

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Analysis Report

Lancaster Laboratories Sample No. 5211141 WW Group No. 1065263

Duplicate Grab Water Sample
Site #4928
Flora Vista #1

Collected:11/09/2007 09:00 by AM Account Number: 11288

Submitted: 11/13/2007 09:10
Reported: 02/12/2008 at 20:08
Discard: 03/14/2008

ConocoPhillips
PO Box 2200
Bartlesville OK 74005

FVDUP

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	6,000.	50.	500.	ug/l	100
05407	Toluene	108-88-3	N.D.	7.	50.	ug/l	10
05415	Ethylbenzene	100-41-4	940.	8.	50.	ug/l	10
06310	Xylene (Total)	1330-20-7	7,400.	80.	500.	ug/l	100

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

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
02300	GC/MS Volatiles	SW-846 8260B	1	11/15/2007 12:53	Matthew F Regan	10
02300	GC/MS Volatiles	SW-846 8260B	1	11/15/2007 13:16	Matthew F Regan	100
01163	GC/MS VOA Water Prep	SW-846 5030B	1	11/15/2007 12:53	Matthew F Regan	10
01163	GC/MS VOA Water Prep	SW-846 5030B	2	11/15/2007 13:16	Matthew F Regan	100

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

Lancaster Laboratories

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Analysis Report

Lancaster Laboratories Sample No. 5211142 WW Group No. 1065263

Trip Blank Water Sample
Site #4928
Flora Vista #1

Collected:11/09/2007 09:05

Account Number: 11288

Submitted: 11/13/2007 09:10
Reported: 02/12/2008 at 20:08
Discard: 03/14/2008

ConocoPhillips
PO Box 2200
Bartlesville OK 74005

FLVTB

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	N.D.	0.8	5.	ug/l	1

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

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
02300	GC/MS Volatiles	SW-846 8260B	1	11/14/2007 14:16	Matthew F Regan	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	11/14/2007 14:16	Matthew F Regan	1

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

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: ConocoPhillips Group Number: 1065263
Reported: 02/12/08 at 08:08 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

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: T073181AB	Sample number(s): 5211140,5211142								
Benzene	N.D.	0.5	5.	ug/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
Batch number: T073191AA	Sample number(s): 5211140-5211141								
Benzene	N.D.	0.5	5.	ug/l	105	102	78-119	3	30
Toluene	N.D.	0.7	5.	ug/l	103	102	85-115	1	30
Ethylbenzene	N.D.	0.8	5.	ug/l	92	92	82-119	0	30
Xylene (Total)	N.D.	0.8	5.	ug/l	94	94	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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: T073181AB	Sample number(s): 5211140,5211142 UNSPK: P211139								
Benzene	110		83-128						
Toluene	109		83-127						
Ethylbenzene	101		82-129						
Xylene (Total)	103		82-130						
Batch number: T073191AA	Sample number(s): 5211140-5211141 UNSPK: P212166								
Benzene	114		83-128						
Toluene	110		83-127						
Ethylbenzene	100		82-129						
Xylene (Total)	102		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: T073181AB

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5211140	101	95	100	107
5211142	103	97	100	104

*- 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.

Quality Control Summary

Client Name: ConocoPhillips Group Number: 1065263
Reported: 02/12/08 at 08:08 PM

Surrogate Quality Control

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

Analysis Name: GC/MS Volatiles
Batch number: T073191AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5211141	99	94	102	107
Blank	103	97	100	99
LCS	100	98	104	103
LCSD	100	98	106	107
MS	101	97	103	104
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.

Analysis Request/ Environmental Services Chain of Custody

Lancaster Laboratories

For Lancaster Laboratories use only
Acct. # 11288 Group# 1065263 Sample # 5211140-42

COC # 0157317

Please print. Instructions on reverse side correspond with circled numbers.

For Lab Use Only
FSC: ____
SCR#: ____

(1)
Client: Tetra Tech Acct. #: ____
Project Name/#: Flora Vista #1 PWSID #: ____
Project Manager: Kelly Henderson P.O.#: ____
Sampler: Ana Moreno + Mitch Crooks Quote #: ____
Name of state where samples were collected: New Mexico

(2) (3) (4) (5) Analyses Requested

Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water	Other	Total # of Containers	BTEX								
									Preservation Codes								
MW-1	11-9-07	0850	X			X			X								
Duplicate	11-9-07	0900	X			X			X								
Trip Blank	11-9-07	0905	X			X			X								

(6)
Preservation Codes
H=HCl T=Thiosulfate
N=HNO_3 B=NaOH
S=H_2SO_4 O=Other

Remarks

(7) **Turnaround Time Requested** (TAT) (please circle): (Normal) Rush
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)
Date results are needed: ____
Rush results requested by (please circle): Phone Fax E-mail
Phone #: 505-237-8440 Fax #: ____
E-mail address: ____

(8) **Data Package Options** (please circle if required)
Type I (validation/NJ Reg) TX TRRP-13
Type II (Tier II) MA MCP CT RCP
Type III (Reduced NJ)
Type IV (CLP SOW)
Type VI (Raw Data Only)

SDG Complete? Yes No
Site-specific QC (MS/MSD/Dup)? Yes No
(If yes, indicate QC sample and submit triplicate volume.)
Internal COC Required? Yes / No ____

(9)

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	11/12/07	1000			
Relinquished by:			Received by:		
Relinquished by:			Received by:		
Relinquished by:			Received by:		
Relinquished by:			Received by: [signature]	11/13/07	0940

Lancaster Laboratories, Inc., 2425 New Holland Pike, Lancaster, PA 17601 (717) 656-2300 Fax: (717) 656-6766
Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client.

2102.03

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	**lb.**	pound(s)
meq	milliequivalents	**kg**	kilogram(s)
g	gram(s)	**mg**	milligram(s)
ug	microgram(s)	**l**	liter(s)
ml	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 limit of quantitation, 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 ≥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, CONSEQUENTIAL, 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.

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 1074018. Samples arrived at the laboratory on Saturday, Jan 19 2008.
The project for this group is 4928-Flora Vista, NM.
The PO# for this sample group is 4509350129.
The release number for this sample group is LAUCKE.

Sample No.	Collected	Client Description
5260848	1/16/2008 17:20	MW-1 Grab Water Sample Site# 4928 Flora Vista #1 - Farmington, NM

ELECTRONIC COPY TO Tetra Tech Attn: Kelly Blanchard

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

Respectfully Submitted,

Christine Dulaney
Senior Specialist

ConocoPhillips
Project: Flora Vista #1 - Farmington, NM
SDG:

Report Date: 2/14/2008 10:43
Submit Date: 1/19/2008 10:40

Analysis Name	Units	5260848 MW-1 Gra Result	MDL**	LOQ
Benzene	ug/l	4,200.	25.	250.
Toluene	ug/l	N.D.	7.	50.
Ethylbenzene	ug/l	890.	8.	50.
Xylene (Total)	ug/l	5,700.	8.	50.

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

CAT No.	Analysis Name	Method	Trial ID	Analysis Date/Time	Analyst	Dilution
5260848	**MW-1 Grab Water Sample**					
02300	GC/MS Volatiles	SW-846 8260B	1	1/23/08 0430	Matthew S Woods	50
02300	GC/MS Volatiles	SW-846 8260B	1	1/23/08 2107	Matthew F Regan	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	1/23/08 2107	Matthew F Regan	10
01163	GC/MS VOA Water Prep	SW-846 5030B	2	1/23/08 0430	Matthew S Woods	50

Client Name: ConocoPhillips Group Number: 1074018

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	Max RPD
Batch number: T080222AA	Sample number(s): 5260848								
Benzene	N.D.	0.5	5.	ug/l	101	98	78-119	3	30
Batch number: T080231AA	Sample number(s): 5260848								
Toluene	N.D.	0.7	5.	ug/l	98		85-115		
Ethylbenzene	N.D.	0.8	5.	ug/l	93		82-119		
Xylene (Total)	N.D.	0.8	5.	ug/l	96		83-113		

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

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	DUP RPD Max
Batch number: T080222AA	Sample number(s): 5260848 UNSPK: P260859								
Benzene	105		83-128						
Batch number: T080231AA	Sample number(s): 5260848 UNSPK: P261503								
Toluene	105	101	83-127	3	30				
Ethylbenzene	104	105	82-129	1	30				
Xylene (Total)	107	105	82-130	2	30				

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: 8260 Master Scan (water)

* - Outside of specification
(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.
** = This limit was used in the evalution of the final result

Batch number: T080222AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
Blank	99	96	105	108
LCS	95	95	106	111
LCSD	97	100	109	112
MS	97	98	108	111
Limits:	80-116	77-113	80-113	78-113

Analysis Name: GC/MS Volatiles
Batch number: T080231AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5260848	100	99	104	105
Blank	98	98	104	107
LCS	97	97	107	111
MS	100	98	110	109
MSD	100	103	109	107
Limits:	80-116	77-113	80-113	78-113

* - Outside of specification
(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.
** = This limit was used in the evalution of the final result

QC Comment

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.

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

5260848 MW-1 Grab Water Sample

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

Quality Control Summary

Client Name: ConocoPhillips Group Number: 1074018
Reported: 02/14/08 at 10:43 AM

Surrogate Quality Control

5260848	100	99	104	105
Blank	98	98	104	107
LCS	97	97	107	111
MS	100	98	110	109
MSD	100	103	109	107
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.

ConocoPhillips Analysis Request/Chain of Custody

Lancaster Laboratories

For Lancaster Labs Use ONLY Acct. #: 11268 Group # 1074018 Sample#: 5260848 SCR#:

006684

Site #: 4928 AOC#: 04928

Site City: Flora Vista State: NM

Enfos PO#: Will Send

ConocoPhillips PM: Terry Laucke

Samplers Name: Mitch Crocks & Ana Moreno

Sample Identification	Date Collected	Time Collected	Grab	Composite	Matrix: Soil	Water	Potable	NPDES	Air	Oil	Analyses Requested: UST 8240 (List total number of containers in the box under each analysis.) Preservation Codes: H	Remarks
MW-1	1/16/08	17:20	X			X					3	

Preservative Codes
H = HCl T = Thiosulfate
N = HNO_3 B = NaOH
S = H_2SO_4 O = Other

Consultant Information:
Office City: Albuquerque State: NM
Project Manager: Kelly Blanchard
Phone Number: 505 237 8440 Fax: 505 237 8656
Email: Kelly.blanchard@tetratech.com

Electronic Data Deliverables (Circle One) (Yes) No Format PDF

Reporting Requirements (Circle One)
(Standard Reports/QC Summary), Full Validation (LLI Type I)
NJ Regulatory NJ Reduced NY ASP-A NY ASP-B Other

Turnaround Time Requested in Business Days (TAT) (Circle One):
(STD.) 5 day 48 hour 24 hour Other

Relinquished by:	Date	Time	Received by:	Date	Time
Mitchell Crocks	1/18/08	15:00			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	1/18/08	1040

Relinquished by Commercial Carrier: UPS FedEx Other

Temperature Upon Receipt 0.7-3.4 C°

Lancaster Laboratories, Inc., 2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 (717) 656-2300

Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client.

4531.02

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	**lb.**	pound(s)
meq	milliequivalents	**kg**	kilogram(s)
g	gram(s)	**mg**	milligram(s)
ug	microgram(s)	**l**	liter(s)
ml	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 limit of quantitation, 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 ≥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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