3R-434

Quarterly Groundwater Monitoring Report

Date: 10/2008

QUARTERLY GROUNDWATER MONITORING REPORT OCTOBER 2008 SAMPLING EVENT

CONOCOPHILLIPS FAYE BURDETTE NO. I AZTEC, NEW MEXICO

Prepared for:

District Copy For Scanning Only Has NOT been processed.



420 South Keeler Avenue Bartlesville, OK 74004

Prepared by:



6121 Indian School Rd. NE Suite 200 Albuquerque, NM 87110 Tetra Tech Project No. 9690127.100

February 11, 2009



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QUARTERLY GROUNDWATER MONITORING REPORT CONOCOPHILLIPS FAYE BURDETTE NO. I, AZTEC, NEW MEXICO

1.0 INTRODUCTION

This report presents the results of quarterly groundwater monitoring completed by Tetra Tech, Inc. (Tetra Tech) on October 22, 2008, at the ConocoPhillips, formerly Burlington Resources, Faye Burdette No. I Site in Aztec, New Mexico. This event represents the first quarter of groundwater sampling conducted by Tetra Tech at the site.

The site is located near the intersection of Highway 550 and Pioneer in Aztec, NM. The site can be reached by turning onto Pioneer from 550 and staying on Pioneer until reaching Long Lane. Once reaching Long Lane, turn left and proceed forward until reaching the site on the left. The site consists of a gas production well head and associated equipment and installations. The location and general features of the Faye Burdette No. I site are shown on **Figures I** and **2**, respectively.

1.1 Site History

The history of the ConocoPhillips Faye Burdette No. I Site is outlined in Table I.

2.0 METHODOLOGY AND RESULTS

The following subsections describe the groundwater monitoring methodology and sampling analytical results.

2.1 Groundwater Monitoring Methodology

Groundwater sampling

Monitor well MW-I was sampled during this event to initiate quarterly groundwater monitoring at the site. Approximately 3 gallons of water, or greater than three well volumes, were purged from the monitoring well before sampling was performed. The purged water was disposed of in the waste water tank located on site (Figure 2). A 1.5-inch dedicated bailer was used to purge and collect groundwater samples. The samples were placed in laboratory prepared bottles, packed on ice, and shipped with chain of custody documentation to Southern Petroleum Laboratory located in Houston, Texas. The samples were analyzed for presence of volatile organic compounds (VOC) including but not limited to benzene, toluene, ethyl-benzene, and xylenes (BTEX) by Environmental Protection Agency (EPA) Method 8260B, semi-volatile organics compounds (SVOC) by EPA Method 8270C, total petroleum hydrocarbons (TPH) by EPA Method SW8015B, ion chromatography by EPA Method E300.0, metals including mercury by EPA Methods SW7470A, 6010B, 6020A, and nitrogen by EPA Method E353.2.

2.2 Groundwater Sampling Analytical Results

The October 2008 analysis of the collected groundwater samples indicates that all constituents of concern are below the NMWQCC standards. Laboratory analytical data from the October 2008

Quarterly Groundwater Monitoring Report Faye Burdette No. 1, Aztec, New Mexico

sampling are summarized on **Table 2**. The field groundwater sampling form is presented in **Appendix A** and the laboratory analytical report is presented in **Appendix B**.

3.0 CONCLUSIONS

Tetra Tech recommends continued quarterly groundwater sampling at Faye Burdette No. I in order to provide sufficient data for site closure. If results indicate all constituents of concern are below NMWQCC standards, groundwater monitoring will be discontinued and site closure will be requested.

FIGURES

- I. Site Location Map
 - 2. Site Layout Map



FIGURE 1.

Site Location Map ConocoPhillips
Faye Burdette No. 1
Aztec, NM



Directions from HW 550 to ConocoPhillips
Faye Burdette No.1 site location

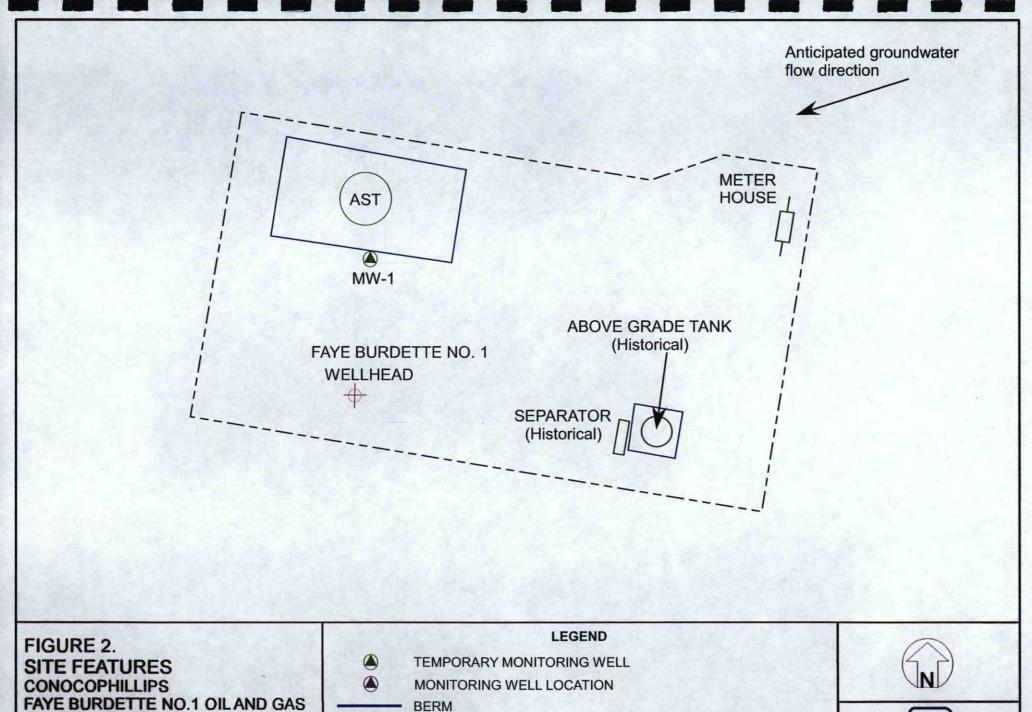


Approximate ConocoPhillips Faye Burdette No.1 Site location

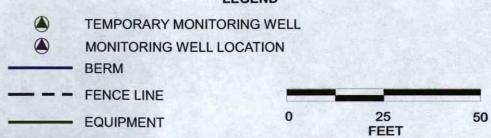




TETRATECH, INC.



PRODUCTION WELL Sec 9, T30N, R11W Aztec, New Mexico





TABLES

I. Site History Timeline

2. Laboratory Analytical Data Summary (October 2008)

Table 1. Site History Timeline - ConocoPhillips Faye Burdette No. 1

DATE	ACTIVITY
Jul-07	Contaminated soil excavated from the Site. Two ground water samples were obtained at the time of this excavation, and one (1) of these samples was found to contain total xylenes above the State of New Mexico drinking water standard. Original source of contamination is unknown.
26-Sep-07	Ground water monitoring well installed to a depth of 15 feet below ground surface (bgs) by Envirotech Inc. of Farmington, NM (Envirotech). A soil sample obtained from the well boring was analyzed for benzene, BTEX and total petroleum hydrocarbons (TPH). Results were below NMOCD regulations of 10 parts per million (ppm), 50 ppm, and 100 ppm, respectively.
26-Sep-07	A ground water sample was collected from the temporary monitoring well and analyzed for BTEX results were below the State of New Mexico drinking water standard for this constituent. Depth to ground water recorded at 9.5 feet bgs.
Nov-07	Envirotech report recommends plugging and abandonment of the temporary ground water monitoring well and a no further action determination for the Site (Envirotech, 2007).
Apr-08	Oil Conservation Division of NM Energy, Minerals, and Resources Dept. indicates additional investigation and sampling is necessary for closure consideration during a meeting with Glenn Vor Gonten
22-Oct-08	1st quarter sampling of MW-1 by Tetra Tech
Jan-09	Installed additional monitoring wells MW-2, MW-3 and MW-4
29-Jan-09	2nd quarter sampling of MW-1 by Tetra Tech

Table 2.

Analytical Data Faye Burdette No. 1 October 22, 2008

	NM Groundwater	EPA Groundwater	Well ID	
	Stnadards	Standards	MW-1	
	Volatile Organic Co	mpounds (ug/L)		
Benzene	10	5	<5	
Toluene	750		<5	
Ethylbenzene	750	700	<5	
Xylenes	620	NEW YEAR OF BUILDING	<5	
	General Chemi	stry (mg/L)	Act at the second	
Chloride	250	250	16.1	
Nitrate			<1	
Sulfate	600	250 / 400	203	
	Inorganic Contan	ninants (mg/L)		
Calcium		KING COLORS	176	
Iron		0.3	3.74	
Magnesium			13.3	
Sodium			54.8	
Arsenic	0.1	0.05	0.00536	
Lead	0.05	0.015	0.0103	
Barium	1	2	0.0914	
Manganese	0.2	0.05	2.09	

Notes

Concentrations marked **bold** exceed NMWQCC standards Only detected constituents included on Table 2.

APPENDIX A GROUNDWATER SAMPLING FIELD FORM

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-	A STATE OF THE PARTY OF THE PAR

WATER SAMPLING FIELD FORM

	3 gallor
Replicate No. MW-1 Weather Will No. MW-1 Replicate No. Time Sampling Began Is 20 Time Sampling Completed Is 20 EVACUATION DATA Description of Measuring Point (MP) Height of MP Above/Below Land Surface MP Elevation Total Sounded Depth of Well Below MP Water-Level Elevation Held Depth to Water Below MP Diameter of Casing Gallons Pumped/Bailed Prior to Sampling Gallons Prior to Sampling Gallons in Well O.SUx3- Gallons in Well O.SUx3- Purging Equipment bailer purge pump I. Vb SAMPLING DATA/FIELD PARAMETERS Time Temperature (C°) pH Conductivity TDS in g/L ORP (mV) DO Is 30 I Water Column in Well O.SUx3- Completed Devator Time Sampling Completed Prior Sam	3 gallor
Began Sumuma Su	3 gallor
Description of Measuring Point (MP) Height of MP Above/Below Land Surface Fotal Sounded Depth of Well Below MP Held Depth to Water Below MP Water-Level Elevation Diameter of Casing Gallons Pumped/Bailed Prior to Sampling Gallons per Foot Gallons per Foot Gallons in Well O.SU.32 Purging Equipment Diameter of Casing Gallons Pumped/Bailed Prior to Sampling Sampling Pump Intake Setting (feet below land surface) SAMPLING DATA/FIELD PARAMETERS Time Temperature (C°) PH Conductivity TDS in g/L ORP (mV) DO 1530 1651 CORP (mV) DO 254 DO 255 DO 254 DO 255	DO
Height of MP Above/Below Land Surface Total Sounded Depth of Well Below MP Held Depth to Water Below MP Water-Level Elevation Diameter of Casing Gallons Pumped/Bailed Prior to Sampling Gallons per Foot 0.16 Gallons in Well 0.50 × 3 = Sampling Pump Intake Setting (feet below land surface) Purging Equipment bailer purge pump SAMPLING DATA/FIELD PARAMETERS Time Temperature (C°) pH Conductivity TDS in g/L ORP (mV) DC 1530 1 6.51	DO
Total Sounded Depth of Well Below MP Value	DO
Depth to Water Below MP	DO
Water Column in Well 3.51 Gallons Pumped/Bailed Prior to Sampling 9 Gallons per Foot 0.16 Gallons in Well 0.50 3.5 (feet below land surface) Purging Equipment bailer purge pump 1.50 SAMPLING DATA/FIELD PARAMETERS Time Temperature (C°) pH Conductivity TDS in g/L ORP (mV) DC 1530 (16.81 6.024 0.696 4.024 0.696 2.0	DO
Gallons per Foot	DO
Gallons in Well 0.54 x3 (feet below land surface) Purging Equipment bailer purge pump 1.46 SAMPLING DATA/FIELD PARAMETERS Time Temperature (C°) pH Conductivity TDS in g/L ORP (mV) DC 1530 16.51 6.544 0.696 1.544 0.696 2.4	DO
Gallons in Well 0.54 x3 (feet below land surface) Purging Equipment bailer purge pump 1.46 SAMPLING DATA/FIELD PARAMETERS Time Temperature (C°) pH Conductivity TDS in g/L ORP (mV) DC 1530 14.81 4.96 1.674 0.696 4.69 2.4	DO
SAMPLING DATA/FIELD PARAMETERS Time Temperature (C°) pH Conductivity TDS in g/L ORP (mV) DC 1530 1681 6.96 1.674 0.696 46.9 24	
SAMPLING DATA/FIELD PARAMETERS Time Temperature (C°) pH Conductivity TDS in g/L ORP (mV) DC 1530 1681 6.96 1.074 0.696 46.9 2.5	
Time Temperature (C°) pH Conductivity TDS in g/L ORP (mV) DC 1530 16.81 4.96 1.074 0.696 46.9 2.1	
1530 16.81 6.96 1.074 0.698 46.9 21	
	2.66
Sampling Equipment Disposable polyethylene bailer	
Sampling Equipment Disposable polyethylene bailer	
Sampling Equipment Disposable polyethylene bailer	
pampling Equipment Disposable polyethylene baller	
100 0	Preservative
STEX, VOCS, SVOCS 8-40 mL glass VOAs, 2 Ambers HCL, HNO3	10-3
Total Motals Gran 2 Naticella 2 Natice 20-	
Dia Tellus Olor Zinnicston, Zpiano 200.	
CIVITY 3 HYNOTS, ITH	
Remarks	

= 0.16

2 1/2" = 0.24

= 0.37

3" 1/2 = 0.50

4" = 0.65

6" = 1.46

Gal./ft.

1 1/4" = 0.077

1 1/2" = 0.10

APPENDIX B LABORATORY ANALYTICAL REPORT



8880 INTERCHANGE DRIVE HOUSTON, TX 77054 (713) 660-0901

Conoco Phillips

Certificate of Analysis Number: 08101601

Report To: **Project Name: COP Faye-Burdette** Site: Aztec, NM Tetra Tech EM, Inc. Kelly Blanchard Site Address: 6121 Indian School Road, N.E. Suite 200 PO Number: Albuquerque State: **New Mexico** 87110-State Cert. No.: ph: (505) 881-3188 fax: Date Reported: 11/17/2008

This Report Contains A Total Of 45 Pages

Excluding This Page, Chain Of Custody

And

Any Attachments



8880 INTERCHANGE DRIVE HOUSTON, TX 77054 (713) 660-0901

Case Narrative for: Conoco Phillips

Certificate of Analysis Number:

08101601

Report To:

Tetra Tech EM, Inc.

Kelly Blanchard

6121 Indian School Road, N.E.

Suite 200

Albuquerque

NM 87110-

ph: (505) 881-3188

fax:

Project Name:

Site:

Aztec, NM

COP Faye-Burdette

Site Address:

PO Number:

State:

New Mexico

State Cert. No.:

Date Reported:

11/17/2008

All samples received outside the 48-hour hold time for Nitrate and Orthophosphate analysis. Per historical records SPL, Inc continued with

Per the Conoco Phillips TSM Revision 0, a copy of the internal chain of custody is to be included in final data package. However, due to LIMS limitations, this cannot be provided at this time.

Matrix spike (MS) and matrix spike duplicate (MSD) samples are chosen and tested at random from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. Since the MS and MSD are chosen at random from an analytical batch, the sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The Laboratory Control Sample (LCS) and the Method Blank (MB) are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

Due to limited sample volume, a Matrix Spike (MS) or Matrix Spike Duplicate (MSD) was not analyzed with Batch ID:84920 for the Diesel Range Organics analysis by SW846 Method 8015B. A Laboratory Control Sample (LCS) and a Laboratory Control Sample Duplicate (LCSD) were extracted with the analytical batch and serve as the batch quality control (QC). The LCS and LCSD recovered acceptably and precision criteria were met.

Some of the percent recoveries and RPD's on the QC report for the MS/MSD may be different than the calculated recoveries and RPD's using the sample result and the MS/MSD results that appear on the report because, the actual raw result is used to perform the calculations for percent recovery and RPD.

Any other exceptions associated with this report will be footnoted in the analytical result page(s) or the quality control summary page(s).

Please do not hesitate to contact us if you have any questions or comments pertaining to this data report. Please reference the above Certificate of Analysis Number.

This report shall not be reproduced except in full, without the written approval of the laboratory. The reported results are only representative of the samples submitted for testing.

SPL, Inc. is pleased to be of service to you. We anticipate working with you in fulfilling all your current and future analytical needs.

- On Owidenas

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8880 INTERCHANGE DRIVE HOUSTON, TX 77054 (713) 660-0901

COP Faye-Burdette

Aztec, NM

Conoco Phillips

Certificate of Analysis Number:

08101601

Tetra Tech EM, Inc. Report To:

Kelly Blanchard

6121 Indian School Road, N.E.

Suite 200

Albuquerque NM

87110-

Fax To:

ph: (505) 881-3188

fax: (505) 881-3283

PO Number:

Site Address:

Project Name:

State:

Site:

New Mexico

State Cert. No.:

Date Reported: 11/17/2008

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COCID	HOLD
MW-1	08101601-01	Water	10/22/2008 3:40:00 PM	10/28/2008 9:30:00 AM		
Trip Blank	08101601-02	Water	10/27/2008	10/28/2008 9:30:00 AM		

5- On Overlinas

11/17/2008

Date

Erica Cardenas Project Manager

> Richard R. Reed **Laboratory Director**

Ted Yen **Quality Assurance Officer**



8880 INTERCHANGE DRIVE HOUSTON, TX 77054 (713) 660-0901

Client Sample ID:MW-1	Collected: 10/22/2008 15:40	SPL Sample ID:	08101601-01

Client Sample ID:MW-1				cted: 10/	22/2008	15:40	SPL Sar	nple	ID: 0810	1601-01
		1999	Site:	Aztec	, NM					
Analyses/Method	Result	QUAL	Rep	.Limit	D	il. Facto	or Date Ana	lyzed	Analyst	Seq. #
DIESEL RANGE ORG	ANICS		40		MCL		SW8015B	U	nits: mg/L	
Diesel Range Organics ((C10-C28) ND		- TELES	0.1	4	1	11/06/08	16:36	NW	475725
Surr: n-Pentacosane	73.4		% 2	20-150		1	11/06/08	16:36	NW	475725
Prep Method	Prep Date	Prep Initials	s Prep F	actor						
SW3510C	10/29/2008 18:43	N_M	1.00							
GASOLINE RANGE O	RGANICS	DESIGN N		SAFEL TO	MCL		SW8015B	Uı	nits: mg/L	WHE.
Gasoline Range Organics ND				0.1		1	11/02/0			474758
Surr: 1,4-Difluorobenz	The second secon	AND MALE	% 6	0-155		1	11/02/0	8 6:39	WLV	474758
Surr: 4-Bromofluorobenzene 90.2				0-158	Villa.	1	11/02/0	8 6:39	WLV	474758
ION CHROMATOGRA	APHY		1,307		MCL	Para.	E300.0	Uı	nits: mg/L	7.50
Chloride	16.1			2		4	11/10/08			476602
Fluoride	ND	Section 1		1	A ACTOR	2	10/28/08	21:13	TW	474301
Ortho-phosphate (As P)	ND		May 15	1	OF WE	2	10/28/08	21:13	TW	474301
Sulfate	203			50	114	100	11/11/08	13:38	TW	476644
Nitrogen, Nitrate (As N)	ND			1	200	2	10/28/08	21:13	TW	474304
MERCURY, TOTAL		No. O. L.		Aigh Su.	MCL		SW7470A	Uı	nits: mg/L	A PARTY
Mercury	ND	St. S.	C	0.0002		1	11/06/08	14:09	F_S	475568
Prep Method	Prep Date	Prep Initials	s Prep F	actor						
SW7470A	11/06/2008 13:18	F_S	1.00							
METALS BY METHO	0 6010B, TOTAL		ing pris		MCL		SW6010B	Uı	nits: mg/L	
Calcium	176		THE MUNICIPAL PROPERTY.	0.1	Taller .	1	10/31/08	CONTRACTOR OF STREET	SC	4745454
Iron	3.74		M. Land	0.02	to see .	1	10/31/08	14:37	SC	4745454
Magnesium	13.3	The Park	O CHELLON	0.1	18-16	1	10/31/08	14:37	SC	474545
Manganese	2.09			0.005	TARK!	1	10/31/08	14:37	SC	474545
Sodium	54.8			0.5	PEN	1	10/31/08	14:37	SC	474545
Prep Method	Prep Date	Prep Initials	Prep F	actor						
SW3010A	10/30/2008 15:30	BDG	1.00							
METALS BY METHOD	6020A, TOTAL			natha s	MCL		SW6020A	Uı	nits: mg/L	es Alegan
Arsenic	0.00536	U.S. W.		0.005	TO THE STATE	1	10/31/08			474638
Barium	0.0914		BH Blo	0.005	- Contract	1	10/31/08	16:47	AL_H	474638
Cadmium	ND		420	0.005		1	10/31/08	16:47	AL_H	474638
Chromium	ND	Philips !	photo I	0.005		1	10/31/08	16:47	AL_H	474638
Lead	0.0103		ROP-	0.005		1	10/31/08	16:47	AL_H	474638
Selenium	ND	Market E.	-1.4	0.005	MAL.	1	10/31/08	16:47	AL_H	4746380
						CALCO LABOR	1 4 1 4 1 1 4 4			

0.005

Qualifiers:

Silver

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

ND

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

E - Estimated Value exceeds calibration curve TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

10/31/08 16:47 AL_H

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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4746380



HOUSTON LABORATORY 8880 INTERCHANGE DRIVE

HOUSTON, TX 77054 (713) 660-0901

Client Sample ID: MW-1 Collected: 10/22/2008 15:40 SPL Sample ID: 08101601-01

Site: Aztec, NM

Analyses/Method Result QUAL Rep.Limit Dil. Factor Date Analysed Analyst Seq. #

 Prep Method
 Prep Date
 Prep Initials
 Prep Factor

 SW3010A
 10/30/2008 15:30
 BDG
 1.00

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

E - Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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8880 INTERCHANGE DRIVE HOUSTON, TX 77054 (713) 660-0901

Client Sample ID:MW-1

Collected: 10/22/2008 15:40

SPL Sample ID:

08101601-01

Site: Aztec, NM

Analyses/Method	Result QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
SEMIVOLATILE ORGANICS B	Y METHOD 8270C	N SPECIAL	MCL S	W8270C U	nits: ug/L	
1,2,4-Trichlorobenzene	ND	5	1	10/31/08 12:59	GQ	474562
1,2-Dichlorobenzene	ND	5	1	10/31/08 12:59	GQ	474562
1,2-Diphenylhydrazine	ND	10	1	10/31/08 12:59	GQ	474562
1,3-Dichlorobenzene	ND	5	1	10/31/08 12:59	GQ	474562
1,4-Dichlorobenzene	ND	5	1	10/31/08 12:59	GQ	474562
2,4,5-Trichlorophenol	ND	10	1	10/31/08 12:59	GQ	474562
2,4,6-Trichlorophenol	ND	5	1	10/31/08 12:59	GQ	474562
2,4-Dichlorophenol	ND	5	1	10/31/08 12:59	GQ	474562
2,4-Dimethylphenol	ND	5	1	10/31/08 12:59	GQ	474562
2,4-Dinitrophenol	ND	25	1	10/31/08 12:59	GQ	474562
2,4-Dinitrotoluene	ND	5	1	10/31/08 12:59	GQ	474562
2,6-Dinitrotoluene	ND	5	1	10/31/08 12:59	GQ	474562
2-Chloronaphthalene	ND	5	1	10/31/08 12:59	GQ	474562
2-Chlorophenol	ND	5	111	10/31/08 12:59	GQ	474562
2-Methylnaphthalene	ND	5	1	10/31/08 12:59	GQ	474562
2-Nitroaniline	ND	25	1	10/31/08 12:59	GQ	474562
2-Nitrophenol	ND	5	Carlo Indian 1	10/31/08 12:59	GQ	474562
3,3'-Dichlorobenzidine	ND	10		10/31/08 12:59	GQ	474562
3-Nitroaniline	ND	25	11	10/31/08 12:59	GQ	474562
4,6-Dinitro-2-methylphenol	ND	25	1	10/31/08 12:59	GQ	474562
4-Bromophenyl phenyl ether	ND	5	1 1 1 1	10/31/08 12:59	GQ	474562
4-Chloro-3-methylphenol	ND	5	1	10/31/08 12:59	GQ	474562
4-Chloroaniline	ND	5		10/31/08 12:59	GQ	474562
4-Chlorophenyl phenyl ether	ND	5	1	10/31/08 12:59	GQ	474562
4-Nitroaniline	ND	25	1	10/31/08 12:59	GQ	474562
4-Nitrophenol	ND	25	1	10/31/08 12:59	GQ	474562
Acenaphthene	ND	5	1.0	10/31/08 12:59	GQ	474562
Acenaphthylene	ND	5	1	10/31/08 12:59	GQ	474562
Aniline	ND	5	20 May 1	10/31/08 12:59	GQ	474562
Anthracene	ND	5	V VEG155	10/31/08 12:59	GQ	474562
Benz(a)anthracene	ND	5	4110	10/31/08 12:59	GQ	474562
Benzo(a)pyrene	ND	5	12	10/31/08 12:59	GQ	474562
Benzo(b)fluoranthene	ND	5		10/31/08 12:59	GQ	474562
Benzo(g,h,i)perylene	ND	5	THE PROPERTY OF	10/31/08 12:59	GQ	474562
Benzo(k)fluoranthene	ND	5	1	10/31/08 12:59	GQ	474562
Benzoic acid	ND	25	1	10/31/08 12:59	GQ	474562
Benzyl alcohol	ND	5	127 10	10/31/08 12:59	GQ	474562
Bis(2-chloroethoxy)methane	ND	5	1	10/31/08 12:59	GQ	4745628
Bis(2-chloroethyl)ether	ND	5	A District Called	10/31/08 12:59	GQ	4745628

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

- * Surrogate Recovery Outside Advisable QC Limits
- J Estimated Value between MDL and PQL
- E Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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Client Sample ID:MW-1 Collected: 10/22/2008 15:40 08101601-01 SPL Sample ID:

		-2-3	Site:	Aztec, N	M	ALL SON		116
Analyses/Method	Result	QUAL	Rep	.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
Bis(2-chloroisopropyl)ether	ND			5	1	10/31/08 12:59	GQ	4745628
Bis(2-ethylhexyl)phthalate	ND		W.	5	1	10/31/08 12:59	GQ	4745628
Butyl benzyl phthalate	ND	The oral	271	5	1	10/31/08 12:59	GQ	4745628
Carbazole	ND		100	5	1	10/31/08 12:59	GQ	4745628
Chrysene	ND	Vite 11th	TO S	5	1	10/31/08 12:59	GQ	4745628
Dibenz(a,h)anthracene	ND	THE LAW	THE PLAN	5	1	10/31/08 12:59	GQ	4745628
Dibenzofuran	ND			5	1	10/31/08 12:59	GQ	4745628
Diethyl phthalate	ND			5	1	10/31/08 12:59	GQ	4745628
Dimethyl phthalate	ND			5	1	10/31/08 12:59	GQ	4745628
Di-n-butyl phthalate	ND			5	1	10/31/08 12:59	GQ	4745628
Di-n-octyl phthalate	ND	M. Tark	TOP OF	5	5 F. A. 1	10/31/08 12:59	GQ	4745628
Fluoranthene	ND	Street, e	GHADA	5	1	10/31/08 12:59	GQ	4745628
Fluorene	ND	- 1 Barry	1	5	1	10/31/08 12:59	GQ	4745628
Hexachlorobenzene	ND			5	1	10/31/08 12:59	GQ	4745628
Hexachlorobutadiene	ND		Name	5	1	10/31/08 12:59	GQ	4745628
Hexachlorocyclopentadiene	ND		1340	5	1	10/31/08 12:59	GQ	4745628
Hexachloroethane	ND	150 150 150		5	1	10/31/08 12:59	GQ	4745628
Indeno(1,2,3-cd)pyrene	ND	PART PR		5	1	10/31/08 12:59	GQ	4745628
Isophorone	ND	A STAR	的产位	5	1	10/31/08 12:59	GQ	4745628
Naphthalene	ND			5	1	10/31/08 12:59	GQ	4745628
Nitrobenzene	ND			5	1	10/31/08 12:59	GQ	4745628
N-Nitrosodi-n-propylamine	ND	YES TO SE	1 100	5	1	10/31/08 12:59	GQ	4745628
N-Nitrosodiphenylamine	ND	TO THE		5	1	10/31/08 12:59	GQ	4745628
Pentachlorophenol	ND	100	الأله	25	1	10/31/08 12:59	GQ	4745628
Phenanthrene	ND	1912	VIII.	5		10/31/08 12:59	GQ	4745628
Phenol	ND		S AUS	5	1	10/31/08 12:59	GQ	4745628
Pyrene	ND	WE THE	5.77	5	1	10/31/08 12:59	GQ	4745628
Pyridine	ND		Total	5	1	10/31/08 12:59	GQ	4745628
2-Methylphenol	ND	Dir sa		5	1	10/31/08 12:59	GQ	4745628
3 & 4-Methylphenol	ND	467	JAGO	5	1	10/31/08 12:59	GQ	4745628
Surr: 2,4,6-Tribromophenol	64.0		% 1	0-123	1	10/31/08 12:59	GQ	4745628
Surr: 2-Fluorobiphenyl	66.0		% 2	3-116	1	10/31/08 12:59	GQ	4745628
Surr: 2-Fluorophenol	42.7	W 1	% 1	6-110	1-1	10/31/08 12:59	GQ	4745628
Surr: Nitrobenzene-d5	60.0	MANAGE TY	% 2	1-114	1.00	10/31/08 12:59	GQ	4745628
Surr: Phenol-d5	33.3	E. En	% 1	0-110	1	10/31/08 12:59	GQ	4745628
Surr: Terphenyl-d14	64.0		% 2	2-141	1	10/31/08 12:59	GQ	4745628

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3510C	10/28/2008 18:27	N_M	1.00

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

E - Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference



8880 INTERCHANGE DRIVE HOUSTON, TX 77054 (713) 660-0901

Client Sample ID:MW-1 Collected: 10/22/2008 15:40 SPL Sample ID: 08101601-01

Site: Aztec, NM

Analyses/Method	Result QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS BY ME	THOD 8260B		MCL SV	V8260B U	nits: ug/L	
1,1,1,2-Tetrachloroethane	ND	5	1.00	11/04/08 18:31	LT	4752374
1,1,1-Trichloroethane	ND	5	1	11/04/08 18:31	LT	4752374
1,1,2,2-Tetrachloroethane	ND	5	Make terre 1 Mag	11/04/08 18:31	LT	4752374
1,1,2-Trichloroethane	ND	5	1	11/04/08 18:31	LT	4752374
1,1-Dichloroethane	ND	5	1	11/04/08 18:31	LT	4752374
1,1-Dichloroethene	ND	5	1	11/04/08 18:31	LT	4752374
1,1-Dichloropropene	ND	5	1	11/04/08 18:31	LT	4752374
1,2,3-Trichlorobenzene	ND	5	1	11/04/08 18:31	LT	4752374
1,2,3-Trichloropropane	ND	5	1	11/04/08 18:31	LT	4752374
1,2,4-Trichlorobenzene	ND	5	1	11/04/08 18:31	LT	4752374
1,2,4-Trimethylbenzene	ND	5	1	11/04/08 18:31	LT	4752374
1,2-Dibromo-3-chloropropane	ND	5	E 1	11/04/08 18:31	LT	4752374
1,2-Dibromoethane	ND	5	1	11/04/08 18:31	LT	4752374
1,2-Dichlorobenzene	ND	5	-1	11/04/08 18:31	LT	4752374
1,2-Dichloroethane	ND	5	1	11/04/08 18:31	LT	4752374
1,2-Dichloropropane	ND	5	1	11/04/08 18:31	LT	4752374
1,3,5-Trimethylbenzene	ND	5	1	11/04/08 18:31	LT	4752374
1,3-Dichlorobenzene	ND	5	1. 2	11/04/08 18:31	LT	4752374
1,3-Dichloropropane	ND	5	1	11/04/08 18:31	LT	4752374
1,4-Dichlorobenzene	ND	5	与1000000 1 1 Sh	11/04/08 18:31	LT	4752374
2,2-Dichloropropane	ND	5	1	11/04/08 18:31	LT	4752374
2-Butanone	ND	20	1 T	11/04/08 18:31	LT	4752374
2-Chloroethyl vinyl ether	ND	10	1	11/04/08 18:31	LT	4752374
2-Chlorotoluene	ND	5	1 A	11/04/08 18:31	LT	4752374
2-Hexanone	ND	10	1	11/04/08 18:31	LT	4752374
4-Chlorotoluene	ND	5	1	11/04/08 18:31	LT	4752374
4-Isopropyltoluene	ND	5	1.1	11/04/08 18:31	LT	4752374
4-Methyl-2-pentanone	ND	10	1	11/04/08 18:31	LT	4752374
Acetone	ND	100	1	11/04/08 18:31	LT	4752374
Acrylonitrile	ND	50	1	11/04/08 18:31	LT	4752374
Benzene	ND	5	1	11/04/08 18:31	LT	4752374
Bromobenzene	ND	5	1	11/04/08 18:31	LT	4752374
Bromochloromethane	ND	5	1	11/04/08 18:31	LT	4752374
Bromodichloromethane	ND	5	1	11/04/08 18:31	LT	4752374
Bromoform	ND	5	1	11/04/08 18:31	LT	4752374
Bromomethane	ND	10	1	11/04/08 18:31	LT	4752374
Carbon disulfide	ND	5	1	11/04/08 18:31	LT	4752374
Carbon tetrachloride	ND	5	1	11/04/08 18:31	LT	4752374
Chlorobenzene	ND	5	11	11/04/08 18:31	LT	4752374

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

E - Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference



HOUSTON LABORATORY 8880 INTERCHANGE DRIVE

HOUSTON, TX 77054 (713) 660-0901

Client Sample ID:MW-1 Collected: 10/22/2008 15:40 SPL Sample ID: 08101601-01

			Site:	,				
Analyses/Method	Result	QUAL	Rep	.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
Chloroethane	ND			10	1	11/04/08 18:31	LT	4752374
Chloroform	ND		-11	5	. 1	11/04/08 18:31	LT	4752374
Chloromethane	ND		J.	10	1	11/04/08 18:31	LT	4752374
Dibromochloromethane	ND		Nu L	5	1	11/04/08 18:31	LT	4752374
Dibromomethane	ND	SAL III	3,43	5	1	11/04/08 18:31	LT	4752374
Dichlorodifluoromethane	ND		F FW	10	1	11/04/08 18:31	LT	4752374
Ethylbenzene	ND	RSA NA	7 1 A	5	1	11/04/08 18:31	LT	4752374
Hexachlorobutadiene	ND			5	1	11/04/08 18:31	LT	4752374
Isopropylbenzene	ND	ELEVA	MIL	5	1	11/04/08 18:31	LT	4752374
Methyl tert-butyl ether	ND			5	1	11/04/08 18:31	LT	4752374
Methylene chloride	ND		Reville	5	1	11/04/08 18:31	LT	4752374
Naphthalene	ND	STATE OF	M. M.	5	1	11/04/08 18:31	LT	4752374
n-Butylbenzene	ND		A Ja	5	1	11/04/08 18:31	LT	4752374
n-Propylbenzene	ND	MARKET		5	1.	11/04/08 18:31	LT	4752374
sec-Butylbenzene	ND			5	1	11/04/08 18:31	LT	4752374
Styrene	ND	THE STATE OF		5	1	11/04/08 18:31	LT	4752374
tert-Butylbenzene	ND		T del	5	1	11/04/08 18:31	LT	4752374
Tetrachloroethene	ND	A FIRE		5	11	11/04/08 18:31	LT	4752374
Toluene	ND	dV / 50	WELF	5	1	11/04/08 18:31	LT	4752374
Trichloroethene	ND			5	1	11/04/08 18:31	LT	4752374
Trichlorofluoromethane	ND		Maria.	5	1	11/04/08 18:31	LT	4752374
Vinyl acetate	ND	4110-110		10	4. U.S. 1	11/04/08 18:31	LT	4752374
Vinyl chloride	ND		OFFICE	10	1	11/04/08 18:31	LT	4752374
cis-1,2-Dichloroethene	ND	S. D. Talki		5	1	11/04/08 18:31	LT	4752374
cis-1,3-Dichloropropene	ND			5	1	11/04/08 18:31	LT	4752374
m,p-Xylene	ND	TANK OF S	Him	5	1	11/04/08 18:31	LT	4752374
o-Xylene	ND		7.13	5	1	11/04/08 18:31	LT	4752374
trans-1,2-Dichloroethene	ND	1.798.0	185	5	1	11/04/08 18:31	LT	4752374
trans-1,3-Dichloropropene	ND		1347	5	1	11/04/08 18:31	LT	4752374
1,2-Dichloroethene (total)	ND	5-17	WE ILL	5	1 1	11/04/08 18:31	LT	4752374
Xylenes,Total	ND	ME WEST	113	5	1	11/04/08 18:31	LT	4752374
Surr: 1,2-Dichloroethane-d4	106	BACTEL.	% 6	2-130	1	11/04/08 18:31	LT	4752374
Surr: 4-Bromofluorobenzene	94.0	State of the same	% 7	0-130	1	11/04/08 18:31	LT	4752374
Surr: Toluene-d8	108	THE STATE	1000	4-122	1	11/04/08 18:31	LT	4752374

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

E - Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference



HOUSTON LABORATORY 8880 INTERCHANGE DRIVE HOUSTON, TX 77054

(713) 660-0901

Client Sample ID: Trip Blank

Collected: 10/27/2008 0:00

SPL Sample ID:

08101601-02

Site:	Aztec,	NM
Oile.	ALLEU,	. 4141

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analy	zed	Analyst	Seq. #
VOLATILE ORGANICS BY MET	THOD 8260B	Marie Land	A CUE	MCL SV	V8260B	Unit	s: ug/L	
1,1,1,2-Tetrachloroethane	ND		5	1	11/05/08 2	3:46	LT	475409
1,1,1-Trichloroethane	ND		5	1	11/05/08 2	3:46	LT	475409
1,1,2,2-Tetrachloroethane	ND	n/ATTIN	5	1	11/05/08 2	3:46	LT	475409
1,1,2-Trichloroethane	ND	1010	5	1	11/05/08 2	3:46	LT	475409
1,1-Dichloroethane	ND		5	1	11/05/08 2	3:46	LT	475409
1,1-Dichloroethene	ND		5	1	11/05/08 2	3:46	LT	475409
1,1-Dichloropropene	ND		. 5	1	11/05/08 2	3:46	LT	475409
1,2,3-Trichlorobenzene	ND		5	1	11/05/08 2	3:46	LT	475409
1,2,3-Trichloropropane	ND	TALL	5	1	11/05/08 2	3:46	LT	475409
1,2,4-Trichlorobenzene	ND	F-BY St	5	1	11/05/08 2	3:46	LT	475409
1,2,4-Trimethylbenzene	ND		5	1	11/05/08 2	3:46	LT	475409
1,2-Dibromo-3-chloropropane	ND	1, 11	5	1	11/05/08 2	3:46	LT	4754099
1,2-Dibromoethane	ND		5	1	11/05/08 2	3:46	LT	475409
1,2-Dichlorobenzene	ND	THE RE	5	1	11/05/08 2	3:46	LT	475409
1,2-Dichloroethane	ND		5	1	11/05/08 2	3:46	LT	475409
1,2-Dichloropropane	ND	19.00	5	1	11/05/08 2	3:46	LT	475409
1,3,5-Trimethylbenzene	ND	of all the	5	1	11/05/08 2	3:46	LT	475409
1,3-Dichlorobenzene	ND		5	1	11/05/08 2	3:46	LT	475409
1,3-Dichloropropane	ND	2 8200	5	1	11/05/08 2	3:46	LT	4754099
1,4-Dichlorobenzene	ND		5	5 0 1 1 1 1	11/05/08 2	3:46	LT	475409
2,2-Dichloropropane	ND		5	1.0	11/05/08 2	3:46	LT	475409
2-Butanone	ND		20	1 1	11/05/08 2	3:46	LT	475409
2-Chloroethyl vinyl ether	ND	mar 15	10	1	11/05/08 2	3:46	LT	475409
2-Chlorotoluene	ND	APPENDED IN	5	1	11/05/08 2	3:46	LT	475409
2-Hexanone	ND		10	1	11/05/08 2	3:46	LT	4754099
4-Chlorotoluene	ND		5	1	11/05/08 2	3:46	LT	4754099
4-Isopropyltoluene	ND	AT DES	5	1	11/05/08 2	3:46	LT	4754099
4-Methyl-2-pentanone	ND	100	10	1	11/05/08 2	3:46	LT	4754099
Acetone	ND	20.5	100	1	11/05/08 2	3:46	LT	4754099
Acrylonitrile	ND		50	1	11/05/08 2	3:46	LT	4754099
Benzene	ND	HE CAR	5	1.5	11/05/08 2	3:46	LT	4754099
Bromobenzene	ND		5	1	11/05/08 2	3:46	LT	4754099
Bromochloromethane	ND	98.0	5	100	11/05/08 2	3:46	LT	4754099
Bromodichloromethane	ND		5	1.	11/05/08 2	3:46	LT	4754099
Bromoform	ND	ar ar a	5	1	11/05/08 2	3:46	LT	4754099
Bromomethane	ND		10	1-1	11/05/08 2	3:46	LT	4754099
Carbon disulfide	ND	N. C. C.	5	1	11/05/08 2	3:46	LT	4754099
Carbon tetrachloride	ND		5	1	11/05/08 2	3:46	LT	4754099
Chlorobenzene	ND	119	5	1	11/05/08 2	3:46	LT	4754099

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

E - Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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8880 INTERCHANGE DRIVE HOUSTON, TX 77054 (713) 660-0901

Client Sample ID: Trip Blank Collected: 10/27/2008 0:00 SPL Sample ID: 08101601-02

Complete Com	Celtural A	Winds.	Site:	Aztec, NN			BE SIN	
Analyses/Method	Result	QUAL	Rep.	Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
Chloroethane	ND			10	1	11/05/08 23:46	LT	4754099
Chloroform	ND	in Paka	1	5	1	11/05/08 23:46	LT	4754099
Chloromethane	ND	TESTS		10	1	11/05/08 23:46	LT	4754099
Dibromochloromethane	ND			5	1	11/05/08 23:46	LT	4754099
Dibromomethane	ND	Zanio:		5	1	11/05/08 23:46	LT	4754099
Dichlorodifluoromethane	ND			10	- 1-AV	11/05/08 23:46	LT	4754099
Ethylbenzene	ND			5	1	11/05/08 23:46	LT	4754099
Hexachlorobutadiene	ND		The State of the S	5	1	11/05/08 23:46	LT	4754099
Isopropylbenzene	ND		THE ST	5	1	11/05/08 23:46	LT	4754099
Methyl tert-butyl ether	ND		T Hat	5	1	11/05/08 23:46	LT	4754099
Methylene chloride	ND	1945.54		5	1	11/05/08 23:46	LT	4754099
Naphthalene	ND	7-15	THE REAL PROPERTY.	5	1	11/05/08 23:46	LT	4754099
n-Butylbenzene	ND		3.53(5)	5	1	11/05/08 23:46	LT	475409
n-Propylbenzene	ND			5	1	11/05/08 23:46	LT	4754099
sec-Butylbenzene	ND		-50-10-00	5	1	11/05/08 23:46	LT	4754099
Styrene	ND		Spirit Mr	5	DE 1 1	11/05/08 23:46	LT	4754099
tert-Butylbenzene	ND			5	1	11/05/08 23:46	LT	4754099
Tetrachloroethene	ND	1.1536.16	A MA	5	1	11/05/08 23:46	LT	475409
Toluene	ND	197 00	HO ZIN	5	1	11/05/08 23:46	LT	475409
Trichloroethene	ND		1576	5	1	11/05/08 23:46	LT	4754099
Trichlorofluoromethane	ND		150 150	5	1-1-	11/05/08 23:46	LT	4754099
Vinyl acetate	ND		TANES.	10	1 - 1	11/05/08 23:46	LT	4754099
Vinyl chloride	ND		2471.8	10	1	11/05/08 23:46	LT	475409
cis-1,2-Dichloroethene	ND			5	1	11/05/08 23:46	LT	4754099
cis-1,3-Dichloropropene	ND		V Pater	5	1	11/05/08 23:46	LT	4754099
m,p-Xylene	ND	- F 7		5	1	11/05/08 23:46	LT	4754099
o-Xylene	ND	I WELL		5	1	11/05/08 23:46	LT	4754099
trans-1,2-Dichloroethene	ND			5	1	11/05/08 23:46	LT	4754099
trans-1,3-Dichloropropene	ND		HAT I	5	1	11/05/08 23:46	LT	4754099
1,2-Dichloroethene (total)	ND			5	1	11/05/08 23:46	LT	4754099
Xylenes,Total	ND		1000	5	1	11/05/08 23:46	LT	4754099
Surr: 1,2-Dichloroethane-d4	100	KATAN.	% 62	2-130	1	11/05/08 23:46	LT	4754099
Surr: 4-Bromofluorobenzene	94.0	CARROLL	% 70	0-130	1	11/05/08 23:46	LT	4754099
Surr: Toluene-d8	108	100	% 74	1-122	1	11/05/08 23:46	LT	4754099

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

E - Estimated Value exceeds calibration curve

TNTC - Too numerous to count

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

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Quality Control Documentation



HOUSTON LABORATORY 8880 INTERCHANGE DRIVE HOUSTON, TX 77054

(713) 660-0901

Conoco Phillips **COP Faye-Burdette**

Analysis: Method:

RunID:

Diesel Range Organics

SW8015B

WorkOrder:

Samples in Analytical Batch:

08101601

Lab Batch ID:

84920

Method Blank

HP_Z_081106A-4757246

mg/L Units:

Lab Sample ID

Client Sample ID

Analysis Date:

Analyst: NW 08101601-01D

MW-1

Preparation Date:

11/06/2008 14:26 10/29/2008 18:43

Prep By: N_M Method: SW3510C

Analyte	Result	Rep Limit
Diesel Range Organics (C10-C28)	ND	0.10
Surr: n-Pentacosane	57.8	20-150

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID:

HP_Z_081106A-4757247

mg/L

Analysis Date:

11/06/2008 14:48

Analyst: NW

Preparation Date:

Units:

10/29/2008 18:43 N_M Method: SW3510C Prep By:

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Diesel Range Organics (C10-C28)	2.00	1.90	94.9	2.00	2.07	104	8.8	20	21	130
Surr: n-Pentacosane	0.0500	0.0443	88.6	0.0500	0.0478	95.6	7.6	30	20	150

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B/V - Analyte detected in the associated Method Blank J - Estimated value between MDL and PQL

D - Recovery Unreportable due to Dilution

E - Estimated Value exceeds calibration curve

* - Recovery Outside Advisable QC Limits

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

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QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

11/17/2008 2:56:39 PM



Conoco Phillips **COP Faye-Burdette**

Analysis:

Gasoline Range Organics

Method:

RunID:

SW8015B

WorkOrder:

08101601

Lab Batch ID:

R255738

Method Blank

HP_P_081102A-4747577

Units:

mg/L

Lab Sample ID

Samples in Analytical Batch:

Client Sample ID

Analysis Date:

WLV Analyst:

08101601-01B

MW-1

Preparation Date:

11/02/2008 4:16 11/02/2008 4:16

Prep By:

Method: SW5030B

Rep Limit Analyte Result 0.10 Gasoline Range Organics 60-155 Surr: 1,4-Difluorobenzene 89.3 Surr: 4-Bromofluorobenzene 90.4 50-158

Laboratory Control Sample (LCS)

RunID:

HP P 081102A-4747576

Units: mg/L

WLV

Analysis Date: Preparation Date: 11/02/2008 3:19 11/02/2008 3:19 Analyst: Prep By:

Method: SW5030B

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	1.00	0.812	81.2	42	136
Surr: 1,4-Difluorobenzene	0.100	0.0932	93.2	60	155
Surr: 4-Bromofluorobenzene	0.100	0.104	104	50	158

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked:

08101530-01

RunID:

HP_P_081102A-4747588

Units:

mg/L

Analysis Date:

11/02/2008 9:29

Analyst: WLV

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Gasoline Range Organics	ND	1	0.672	67.2	1	0.470	47.0	35.4	36	22	174
Surr: 1,4-Difluorobenzene	ND	0.1	0.0942	94.2	0.1	0.0927	92.7	1.61	30	60	155
Surr: 4-Bromofluorobenzene	ND	0.1	0.0907	90.7	0.1	0.0918	91.8	1.21	30	50	158

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B/V - Analyte detected in the associated Method Blank J - Estimated value between MDL and PQL

D - Recovery Unreportable due to Dilution * - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

08101601 Page 13

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

11/17/2008 2:56:39 PM



8880 INTERCHANGE DRIVE HOUSTON, TX 77054 (713) 660-0901

Conoco Phillips COP Faye-Burdette

Analysis:

Metals by Method 6010B, Total

Method:

SW6010B

WorkOrder:

08101601

Lab Batch ID:

84958

Method Blank

RunID: TJA_081031A-4745434

Units: mg/L

Lab Sample ID

Samples in Analytical Batch:

Client Sample ID

Analysis Date:

08101601-01C

MW-1

Preparation Date:

10/31/2008 12:49 10/30/2008 15:30 Analyst: SC

Prep By: BDG Method: SW3010A

Analyte	Result	Rep Limit
Calcium	ND	0.1
Iron	ND	0.02
Magnesium	ND	0.1
Manganese	ND	0.005
Sodium	ND	0.5

Laboratory Control Sample (LCS)

RunID: Analysis Date:

Preparation Date:

TJA_081031A-4745435

Units: mg/L

SC Analyst:

10/31/2008 12:54 10/30/2008 15:30

Prep By: BDG Method: SW3010A

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Calcium	1.000	1.149	114.9	80	120
Iron	1.000	1.125	112.5	80	120
Magnesium	1.000	1.122	112.2	80	120
Manganese	1.000	1.121	112.1	80	120
Sodium	1.000	1.008	100.8	80	120

Post Digestion Spike (PDS) / Post Digestion Spike Duplicate (PDSD)

Sample Spiked:

08101602-02

RunID: Analysis Date: TJA 081031A-4745440

10/31/2008 13:17

Units:

mg/L

Analyst: SC

Analyte	Sample Result	PDS Spike Added	PDS Result	PDS % Recovery	PDSD Spike Added	PDSD Result	PDSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Iron	0.542	1	1.563	102.1	1	1.466	92.47	6.375	20	75	125

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B/V - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

08101601 Page 14

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.



Conoco Phillips **COP Faye-Burdette**

Analysis:

Method:

Metals by Method 6010B, Total

SW6010B

WorkOrder: Lab Batch ID: 08101601

08101602-02

84958

Sample Spiked: RunID:

TJA_081031A-4745437

Units:

Analysis Date:

10/31/2008 13:03

mg/L

Analyst: SC

Preparation Date:

10/30/2008 15:30

Prep By:

BDG Method: SW3010A

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Calcium	406.3	1	403.5	N/C	1	447.5	N/C	N/C	20	75	125
Iron	0.5418	1	1.504	96.23	1	2.372	183.0 *	44.78 *	20	75	125
Magnesium	45.32	1	46.01	N/C	1	48.67	N/C	N/C	20	75	125
Manganese	1.428	1	2.398	96.93	1	2.557	112.8	6.415	20	75	125
Sodium	81.33	1	81.57	N/C	1	83.01	N/C	N/C	20	75	125

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B/V - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL E - Estimated Value exceeds calibration curve * - Recovery Outside Advisable QC Limits

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply. TNTC - Too numerous to count

08101601 Page 15

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.



8880 INTERCHANGE DRIVE HOUSTON, TX 77054 (713) 660-0901

Conoco Phillips **COP Faye-Burdette**

Analysis:

RunID:

Metals by Method 6020A, Total

SW6020A Method:

WorkOrder:

Samples in Analytical Batch:

08101601

Lab Batch ID:

84958-1

Method Blank

ICPMS2_081031A-4745588

Units:

mg/L

Lab Sample ID

Client Sample ID

Analysis Date:

AL H Analyst:

08101601-01C

MW-1

Preparation Date:

10/31/2008 14:46 10/30/2008 15:30

BDG Method: SW3010A Prep By:

Analyte	Result	Rep Limit		
Arsenic	ND	0.005		
Barium	ND	0.005		
Cadmium	ND	0.005		
Chromium	ND	0.005		
Lead	ND	0.005		
Selenium	ND	0.005		
Silver	ND	0.005		

Laboratory Control Sample (LCS)

RunID:

ICPMS2_081031A-4745595 Units: mg/L

Analysis Date:

Preparation Date:

10/31/2008 15:06 10/30/2008 15:30

Analyst: AL_H

BDG Method: SW3010A Prep By:

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Arsenic	0.1000	0.09881	98.81	80	120
Barium	0.1000	0.09559	95.59	80	120
Cadmium	0.1000	0.1016	101.6	80	120
Chromium	0.1000	0.09065	90.65	80	120
Lead	0.1000	0.08910	89.10	80	120
Selenium	0.1000	0.1006	100.6	80	120
Silver	0.1000	0.1157	115.7	80	120

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 08101602-02

ICPMS2_081031A-4745597 Units: RunID: mg/L Analysis Date: 10/31/2008 15:12 Analyst: AL H

Preparation Date: 10/30/2008 15:30 Prep By: BDG Method: SW3010A

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Arsenic	ND	0.1	0.1013	97.62	0.1	0.1022	98.52	0.8845	20	75	125

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B/V - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

08101601 Page 16

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.



8880 INTERCHANGE DRIVE HOUSTON, TX 77054 (713) 660-0901

Conoco Phillips COP Faye-Burdette

Analysis: Method: Metals by Method 6020A, Total

SW6020A

WorkOrder:

08101601 84958-I

Lab Batch ID:

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked:

08101602-02

RunID: Analysis Date: ICPMS2_081031A-4745597 Units: 10/31/2008 15:12 Analys

Preparation Date: 10/30/2008 15:30

Units: mg/L
Analyst: AL_H
Prep By: BDG Method: SW3010A

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Barium	0.05154	0.1	0.1599	108.4	0.1	0.1574	105.9	1.576	20	75	125
Cadmium	ND	0.1	0.09856	98.56	0.1	0.09554	95.54	3.112	20	75	125
Chromium	ND	0.1	0.09150	91.50	0.1	0.09256	92.56	1.152	20	75	125
Lead	ND	0.1	0.09164	91.64	0.1	0.09132	91.32	0.3498	20	75	125
Selenium	ND	0.1	0.09221	92.21	0.1	0.09133	91.33	0.9589	20	75	125
Silver	ND	0.1	0.1145	114.5	0.1	0.1127	112.7	1.585	20	75	125

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B/V - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

08101601 Page 17

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.



8880 INTERCHANGE DRIVE HOUSTON, TX 77054 (713) 660-0901

Conoco Phillips **COP Faye-Burdette**

Analysis:

RunID:

Mercury, Total

WorkOrder:

08101601

Method: SW7470A

Lab Batch ID:

85178

Method Blank

HGLC_081106A-4755670

Units: mg/L Lab Sample ID

Samples in Analytical Batch:

Client Sample ID

Analysis Date:

08101601-01C

MW-1

11/06/2008 13:32

F_S Analyst:

Preparation Date:

11/06/2008 13:18

Prep By: F_S Method: SW7470A

Analyte	Result	Rep Limit
Mercury	ND	0.0002

Laboratory Control Sample (LCS)

RunID:

HGLC_081106A-4755671

Units:

mg/L

Analysis Date: Preparation Date: 11/06/2008 13:35 11/06/2008 13:18

Analyst: F_S

Prep By: F_S Method: SW7470A

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Mercury	0.002000	0.001983	99.15	80	120

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked:

08101734-09

RunID:

HGLC_081106A-4755673

Units:

Analysis Date:

11/06/2008 13:39

F_S Analyst:

mg/L

Preparation Date: 11/06/2008 13:18 Prep By: F_S Method: SW7470A

MS MS MS % MSD MSD MSD % RPD RPD Analyte Sample Low High Spike Spike Limit Limit Limit Result Result Recovery Result Recovery Added Added ND 0.002 0.001885 94.26 0.002 0.001843 92.14 2.266 20 75 125 Mercury

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B/V - Analyte detected in the associated Method Blank J - Estimated value between MDL and PQL

D - Recovery Unreportable due to Dilution * - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

08101601 Page 18



Conoco Phillips **COP Faye-Burdette**

Analysis: Semivolatile Organics by Method 8270C

Method: SW8270C WorkOrder:

08101601

Lab Batch ID:

84874

Method Blank

P_081030A-4744708

Units: ug/L

Samples in Analytical Batch:

Lab Sample ID

Client Sample ID

Analysis Date:

RunID:

Analyst: GQ 08101601-01F

MW-1

Preparation Date:

10/30/2008 18:16 10/28/2008 18:27

Prep By:

N_M Method: SW3510C

Analyte	Result	Rep Limit	
1,2,4-Trichlorobenzene	ND	5.0	
1,2-Dichlorobenzene	ND	5.0	
1,2-Diphenylhydrazine	ND	10	
1,3-Dichlorobenzene	ND	5.0	
1,4-Dichlorobenzene	ND	5.0	
2,4,5-Trichlorophenol	ND	10	
2,4,6-Trichlorophenol	ND	5.0	
2,4-Dichlorophenol	ND	5.0	
2,4-Dimethylphenol	ND	5.0	
2,4-Dinitrophenol	ND	25	
2,4-Dinitrotoluene	ND	5.0	
2,6-Dinitrotoluene	ND	5.0	
2-Chloronaphthalene	ND	5.0	
2-Chlorophenol	ND	5.0	
2-Methylnaphthalene	ND	5.0	
2-Nitroaniline	ND	25	
2-Nitrophenol	ND	5.0	
3,3'-Dichlorobenzidine	ND	10	
3-Nitroaniline	ND	25	
4,6-Dinitro-2-methylphenol	ND	25	
4-Bromophenyl phenyl ether	ND	5.0	
4-Chloro-3-methylphenol	ND		
4-Chloroaniline	ND		
4-Chlorophenyl phenyl ether	ND	5.0	
4-Nitroaniline	ND	25	
4-Nitrophenol	ND	25	
Acenaphthene	ND	5.0	
Acenaphthylene	ND	5.0	
Aniline	ND	5.0	
Anthracene	ND	5.0	
Benz(a)anthracene	ND	5.0	
Benzo(a)pyrene	ND	5.0	
Benzo(b)fluoranthene	ND	5.0	
Benzo(g,h,i)perylene	ND	5.0	
Benzo(k)fluoranthene	ND	5.0	
Benzoic acid	ND	25	
Benzyl alcohol	ND		
Bis(2-chloroethoxy)methane	ND	5.0	
Bis(2-chloroethyl)ether	ND	5.0	
Bis(2-chloroisopropyl)ether	ND	5.0	
Bis(2-ethylhexyl)phthalate	ND	5.0	
Butyl benzyl phthalate	ND	5.0	
Carbazole	ND	5.0	
Chrysene	ND		
Dibenz(a,h)anthracene	ND	5.0	
Dibenzofuran	ND	5.0	

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

J - Estimated value between MDL and PQL

E - Estimated Value exceeds calibration curve

MI - Matrix Interference

D - Recovery Unreportable due to Dilution

* - Recovery Outside Advisable QC Limits

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

08101601 Page 19

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.



Conoco Phillips COP Faye-Burdette

Analysis:

Semivolatile Organics by Method 8270C

Method:

SW8270C

08101601

Lab Batch ID:

WorkOrder:

84874

Method Blank

RunID: P_081030A-4744708

Units:

ug/L

Analysis Date:

10/30/2008 18:16

Analyst: GQ

Preparation Date:

10/28/2008 18:27

Prep By:

N_M Method: SW3510C

Analyte	Result	Rep Limit
Diethyl phthalate	ND	5.0
Dimethyl phthalate	ND	5.0
Di-n-butyl phthalate	ND	5.0
Di-n-octyl phthalate	ND	5.0
Fluoranthene	ND	5.0
Fluorene	ND	5.0
Hexachlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Hexachlorocyclopentadiene	ND	5.0
Hexachloroethane	ND	5.0
Indeno(1,2,3-cd)pyrene	ND	5.0
Isophorone	ND	5.0
Naphthalene	ND	5.0
Nitrobenzene	ND	5.0
N-Nitrosodi-n-propylamine	ND	5.0
N-Nitrosodiphenylamine	ND	5.0
Pentachlorophenol	ND	25
Phenanthrene	ND	5.0
Phenol	ND	5.0
Pyrene	ND	5.0
Pyridine	ND	5.0
2-Methylphenol	ND	5.0
3 & 4-Methylphenol	ND	5.0
Surr: 2,4,6-Tribromophenol	82.7	10-123
Surr: 2-Fluorobiphenyl	82.0	23-116
Surr: 2-Fluorophenol	74.7	16-110
Surr: Nitrobenzene-d5	76.0	
Surr: Phenol-d5	85.3	10-110
Surr: Terphenyl-d14	90.0	22-141

Laboratory Control Sample (LCS)

RunID:

P_081030A-4744709

Units: ug/L

Analysis Date:

10/30/2008 18:50

Analyst: GQ

Preparation Date:

10/28/2008 18:27

N_M Method: SW3510C Prep By:

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
1,2,4-Trichlorobenzene	25.0	22.0	88.0	10	142
1,2-Dichlorobenzene	25.0	22.0	88.0	20	150
1,2-Diphenylhydrazine	25.0	18.0	72.0	10	251

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B/V - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

08101601 Page 20



Conoco Phillips COP Faye-Burdette

Analysis: Method:

Semivolatile Organics by Method 8270C

SW8270C

WorkOrder:

08101601

Lab Batch ID:

84874

Laboratory Control Sample (LCS)

RunID:

P_081030A-4744709

Units: ug/L

Analysis Date:

10/30/2008 18:50

Preparation Date:

Analyst: GQ

10/28/2008 18:27 Prep By: N_M Method: SW3510C

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
1,3-Dichlorobenzene	25.0	22.0	88.0	20	150
1,4-Dichlorobenzene	25.0	22.0	88.0	20	150
2,4,5-Trichlorophenol	25.0	24.0	96.0	30	150
2,4,6-Trichlorophenol	25.0	23.0	92.0	30	150
2,4-Dichlorophenol	25.0	23.0	92.0	30	150
2,4-Dimethylphenol	25.0	23.0	92.0	32	140
2,4-Dinitrophenol	25.0	21.0	84.0	10	160
2,4-Dinitrotoluene	25.0	23.0	92.0	30	150
2,6-Dinitrotoluene	25.0	22.0	88.0	30	150
2-Chloronaphthalene	25.0	20.0	80.0	30	150
2-Chlorophenol	25.0	22.0	88.0	23	134
2-Methylnaphthalene	25.0	24.0	96.0	20	170
2-Nitroaniline	25.0	21.0	84.0	20	160
2-Nitrophenol	25.0	22.0	88.0	29	182
3,3'-Dichlorobenzidine	25.0	8.00	32.0	30	200
3-Nitroaniline	25.0	18.0	72.0	20	160
4,6-Dinitro-2-methylphenol	25.0	19.0	76.0	10	160
4-Bromophenyl phenyl ether	25.0	24.0	96.0	30	150
4-Chloro-3-methylphenol	25.0	24.0	96.0	25	160
4-Chloroaniline	25.0	21.0	84.0	20	160
4-Chlorophenyl phenyl ether	25.0	24.0	96.0	25	158
4-Nitroaniline	25.0	20.0	80.0	20	160
4-Nitrophenol	25.0	18.0	72.0	10	132
Acenaphthene	25.0	22.0	88.0	30	150
Acenaphthylene	25.0	23.0	92.0	33	250
Aniline	50.0	35.0	70.0	10	135
Anthracene	25.0	21.0	84.0	27	133
Benz(a)anthracene	25.0	20.0	80.0	33	143
Benzo(a)pyrene	25.0	18.0	72.0	17	163
Benzo(b)fluoranthene	25.0	21.0	84.0	24	159
Benzo(g,h,i)perylene	25.0	21.0	84.0	30	160
Benzo(k)fluoranthene	25.0	23.0	92.0	11	162
Benzoic acid	25.0	16.0	64.0	10	400
Benzyl alcohol	25.0	21.0	84.0	30	160

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B/V - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

08101601 Page 21

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.



Conoco Phillips COP Faye-Burdette

Analysis: Semivolatile Organics by Method 8270C Method:

SW8270C

WorkOrder:

08101601

Lab Batch ID:

84874

Laboratory Control Sample (LCS)

Units:

ug/L

GQ

RunID: P_081030A-4744709 Analysis Date: 10/30/2008 18:50 Analyst:

Preparation Date: 10/28/2008 18:27 Prep By: N_M Method: SW3510C

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Bis(2-chloroethoxy)methane	25.0	33.0	132	33	184
Bis(2-chloroethyl)ether	25.0	21.0	84.0	12	158
Bis(2-chloroisopropyl)ether	25.0	22.0	88.0	20	160
Bis(2-ethylhexyl)phthalate	25.0	19.0	76.0	10	158
Butyl benzyl phthalate	25.0	19.0	76.0	30	160
Carbazole	25.0	21.0	84.0	30	150
Chrysene	25.0	20.0	80.0	17	168
Dibenz(a,h)anthracene	25.0	21.0	84.0	30	160
Dibenzofuran	25.0	23.0	92.0	30	150
Diethyl phthalate	25.0	21.0	84.0	30	160
Dimethyl phthalate	25.0	22.0	88.0	30	160
Di-n-butyl phthalate	25.0	21.0	84.0	30	160
Di-n-octyl phthalate	25.0	18.0	72.0	20	150
Fluoranthene	25.0	21.0	84.0	26	137
Fluorene	25.0	23.0	92.0	30	150
Hexachlorobenzene	25.0	22.0	88.0	20	150
Hexachlorobutadiene	25.0	23.0	92.0	20	140
Hexachlorocyclopentadiene	25.0	25.0	100	10	150
Hexachloroethane	25.0	21.0	84.0	10	140
Indeno(1,2,3-cd)pyrene	25.0	21.0	84.0	30	160
Isophorone	25.0	23.0	92.0	21	196
Naphthalene	25.0	22.0	88.0	21	133
Nitrobenzene	25.0	20.0	80.0	20	160
N-Nitrosodi-n-propylamine	25.0	22.0	88.0	30	160
N-Nitrosodiphenylamine	50.0	52.0	104	30	150
Pentachlorophenol	25.0	20.0	80.0	14	176
Phenanthrene	25.0	21.0	84.0	10	140
Phenol	25.0	23.0	92.0	40	132
Pyrene	25.0	21.0	84.0	30	150
Pyridine	50.0	35.0	70.0	10	150
2-Methylphenol	25.0	23.0	92.0	30	160
3 & 4-Methylphenol	25.0	24.0	96.0	10	160
Surr: 2,4,6-Tribromophenol	75.0	65	86.7	10	123
Surr: 2-Fluorobiphenyl	50.0	41	82.0	23	116

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B/V - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

08101601 Page 22



8880 INTERCHANGE DRIVE HOUSTON, TX 77054 (713) 660-0901

Conoco Phillips COP Faye-Burdette

Analysis:

Semivolatile Organics by Method 8270C

Method: SW8270C WorkOrder:

08101601

Lab Batch ID:

84874

Laboratory Control Sample (LCS)

RunID:

P_081030A-4744709

Units: ug/L

Analysis Date:

10/30/2008 18:50

GQ Analyst:

Preparation Date: 10/28/2008 18:27 Prep By: N_M Method: SW3510C

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Surr: 2-Fluorophenol	75.0	58	77.3	16	110
Surr: Nitrobenzene-d5	50.0	39	78.0	21	114
Surr: Phenol-d5	75.0	61	81.3	10	110
Surr: Terphenyl-d14	50.0	43	86.0	22	141

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked:

08101398-04

P_081030A-4744711

Units:

ug/L

Analysis Date: Preparation Date:

RunID:

10/30/2008 20:11 10/28/2008 18:27 Analyst: GQ

Prep By: N_M Method: SW3510C

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
1,2,4-Trichlorobenzene	ND	25	19.0	76.0	25	18.0	72.0	5.41	39	10	142
1,2-Dichlorobenzene	ND	25	18.0	72.0	25	17.0	68.0	5.71	50	20	150
1,2-Diphenylhydrazine	ND	25	16.0	64.0	25	16.0	64.0	0	50	10	251
1,3-Dichlorobenzene	ND	25	17.0	68.0	25	16.0	64.0	6.06	50	20	150
1,4-Dichlorobenzene	ND	25	18.0	72.0	25	16.0	64.0	11.8	45	20	150
2,4,5-Trichlorophenol	ND	25	21.0	84.0	25	18.0	72.0	15.4	50	30	150
2,4,6-Trichlorophenol	ND	25	20.0	80.0	25	19.0	76.0	5.13	50	30	150
2,4-Dichlorophenol	ND	25	19.0	76.0	25	18.0	72.0	5.41	50	30	150
2,4-Dimethylphenol	ND	25	18.0	72.0	25	16.0	64.0	11.8	50	32	140
2,4-Dinitrophenol	ND	25	19.0	76.0	25	19.0	76.0	0	50	10	160
2,4-Dinitrotoluene	ND	25	19.0	76.0	25	19.0	76.0	0	50	30	150
2,6-Dinitrotoluene	ND	25	20.0	80.0	25	18.0	72.0	10.5	50	30	150
2-Chloronaphthalene	ND	25	18.0	72.0	25	17.0	68.0	5.71	50	30	150
2-Chlorophenol	ND	25	18.0	72.0	25	16.0	64.0	11.8	40	23	134
2-Methylnaphthalene	ND	25	20.0	80.0	25	19.0	76.0	5.13	50	20	170
2-Nitroaniline	ND	25	14.0	56.0	25	13.0	52.0	7.41	50	20	160
2-Nitrophenol	ND	25	20.0	80.0	25	19.0	76.0	5.13	50	29	182
3,3'-Dichlorobenzidine	ND	25	0	0*	25	0	0*	0	50	30	200

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B/V - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

08101601 Page 23

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.



Conoco Phillips COP Faye-Burdette

Analysis: Semivolatile Organics by Method 8270C

SW8270C

Method:

WorkOrder:

08101601

Lab Batch ID:

84874

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 08101398-04

RunID: P_081030A-4744711 Units: ug/L Analysis Date: 10/30/2008 20:11 Analyst: GQ

Preparation Date: 10/28/2008 18:27 Prep By: N_M Method: SW3510C

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
3-Nitroaniline	ND	25	12.0	48.0	25	12.0	48.0	0	50	20	160
4,6-Dinitro-2-methylphenol	ND	25	17.0	68.0	25	17.0	68.0	0	50	10	160
4-Bromophenyl phenyl ether	ND	25	21.0	84.0	25	20.0	80.0	4.88	50	30	150
4-Chloro-3-methylphenol	ND	25	21.0	84.0	25	18.0	72.0	15.4	42	25	160
4-Chloroaniline	ND	25	11.0	44.0	25	12.0	48.0	8.70	50	20	160
4-Chlorophenyl phenyl ether	ND	25	21.0	84.0	25	20.0	80.0	4.88	50	25	158
4-Nitroaniline	ND	25	9.00	36.0	25	8.00	32.0	11.8	50	20	160
4-Nitrophenol	ND	25	9.00	36.0	25	8.00	32.0	11.8	50	10	132
Acenaphthene	ND	25	19.0	76.0	25	18.0	72.0	5.41	31	30	150
Acenaphthylene	ND	25	20.0	80.0	25	20.0	80.0	0	50	33	250
Aniline	ND	50	16.0	32.0	50	20.0	40.0	22.2	50	10	135
Anthracene	ND	25	18.0	72.0	25	18.0	72.0	0	50	27	133
Benz(a)anthracene	ND	25	16.0	64.0	25	16.0	64.0	0	50	33	143
Benzo(a)pyrene	ND	25	15.0	60.0	25	12.0	48.0	22.2	50	17	163
Benzo(b)fluoranthene	ND	25	17.0	68.0	25	16.0	64.0	6.06	50	24	159
Benzo(g,h,i)perylene	ND	25	17.0	68.0	25	15.0	60.0	12.5	50	30	160
Benzo(k)fluoranthene	ND	25	18.0	72.0	25	15.0	60.0	18.2	50	11	162
Benzoic acid	ND	25	22.0	88.0	25	20.0	80.0	9.52	50	10	400
Benzyl alcohol	ND	25	15.0	60.0	25	14.0	56.0	6.90	50	30	160
Bis(2-chloroethoxy)methane	ND	25	28.0	112	25	27.0	108	3.64	50	33	184
Bis(2-chloroethyl)ether	ND	25	18.0	72.0	25	17.0	68.0	5.71	50	12	158
Bis(2-chloroisopropyl)ether	ND	25	18.0	72.0	25	17.0	68.0	5.71	50	20	160
Bis(2-ethylhexyl)phthalate	ND	25	15.0	60.0	25	14.0	56.0	6.90	50	10	158
Butyl benzyl phthalate	ND	25	18.0	72.0	25	17.0	68.0	5.71	50	30	160
Carbazole	ND	25	18.0	72.0	25	18.0	72.0	0	50	30	150
Chrysene	ND	25	17.0	68.0	25	16.0	64.0	6.06	50	17	168
Dibenz(a,h)anthracene	ND	25	16.0	64.0	25	15.0	60.0	6.45	50	30	160
Dibenzofuran	ND	25	20.0	80.0	25	19.0	76.0	5.13	50	30	150
Diethyl phthalate	ND	25	19.0	76.0	25	18.0	72.0	5.41	50	30	160
Dimethyl phthalate	ND	25	20.0	80.0	25	19.0	76.0	5.13	50	30	160
Di-n-butyl phthalate	ND	25	19.0	76.0	25	18.0	72.0	5.41	50	30	160
Di-n-octyl phthalate	ND	25	14.0	56.0	25	12.0	48.0	15.4	50	20	150

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B/V - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

08101601 Page 24

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.



Conoco Phillips **COP Faye-Burdette**

Analysis:

Semivolatile Organics by Method 8270C

Method: SW8270C WorkOrder:

08101601

Lab Batch ID:

84874

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked:

08101398-04

RunID:

P_081030A-4744711

Units:

ug/L

Analysis Date:

10/30/2008 20:11

Analyst: GQ

Preparation Date:

10/28/2008 18:27 Prep By: N M Method: SW3510C

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Fluoranthene	ND	25	18.0	72.0	25	18.0	72.0	0	50	26	137
Fluorene	ND	25	20.0	80.0	25	19.0	76.0	5.13	50	30	150
Hexachlorobenzene	ND	25	19.0	76.0	25	18.0	72.0	5.41	50	20	150
Hexachlorobutadiene	ND	25	19.0	76.0	25	18.0	72.0	5.41	50	20	140
Hexachlorocyclopentadiene	ND	25	22.0	88.0	25	22.0	88.0	0	50	10	150
Hexachloroethane	ND	25	18.0	72.0	25	16.0	64.0	11.8	50	10	140
Indeno(1,2,3-cd)pyrene	ND	25	18.0	72.0	25	15.0	60.0	18.2	50	30	160
Isophorone	ND	25	20.0	80.0	25	18.0	72.0	10.5	50	21	196
Naphthalene	ND	25	20.0	80.0	25	20.0	80.0	0	50	21	133
Nitrobenzene	ND	25	22.0	88.0	25	20.0	80.0	9.52	50	20	160
N-Nitrosodi-n-propylamine	ND	25	19.0	76.0	25	17.0	68.0	11.1	38	30	160
N-Nitrosodiphenylamine	ND	50	46.0	92.0	50	44.0	88.0	4.44	50	30	150
Pentachlorophenol	ND	25	18.0	72.0	25	18.0	72.0	0	50	14	176
Phenanthrene	ND	25	19.0	76.0	25	18.0	72.0	5.41	50	10	140
Phenol	ND	25	12.0	48.0	25	10.0	40.0	18.2	42	40	132
Pyrene	ND	25	20.0	80.0	25	19.0	76.0	5.13	38	30	150
Pyridine	ND	50	11.0	22.0	50	11.0	22.0	0	50	10	150
2-Methylphenol	ND	25	18.0	72.0	25	15.0	60.0	18.2	50	30	160
3 & 4-Methylphenol	ND	25	17.0	68.0	25	16.0	64.0	6.06	50	10	160
Surr: 2,4,6-Tribromophenol	ND	75	56	74.7	75	52.0	69.3	7.41	30	10	123
Surr: 2-Fluorobiphenyl	ND	50	36	72.0	50	34.0	68.0	5.71	30	23	116
Surr: 2-Fluorophenol	ND	75	34	45.3	75	30.0	40.0	12.5	30	16	110
Surr: Nitrobenzene-d5	ND	50	34	68.0	50	32.0	64.0	6.06	30	21	114
Surr: Phenol-d5	ND	75	30	40.0	75	23.0	30.7	26.4	30	10	110
Surr: Terphenyl-d14	ND	50	36	72.0	50	30.0	60.0	18.2	30	22	141

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B/V - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

08101601 Page 25

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.



8880 INTERCHANGE DRIVE HOUSTON, TX 77054 (713) 660-0901

Conoco Phillips **COP Faye-Burdette**

nalysis:

Volatile Organics by Method 8260B

Method:

RunID:

SW8260B

WorkOrder:

08101601

Lab Batch ID:

R256001

Method Blank

N_081104A-4752370

Units:

ug/L

Method:

Lab Sample ID

Samples in Analytical Batch:

Client Sample ID

Analysis Date:

Analyst: LT 08101601-01A

MW-1

Preparation Date:

11/04/2008 16:12 11/04/2008 16:12

Prep By:

Result Ren Limit

Analyte	Result	Rep Limit
1,1,1,2-Tetrachloroethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,1,2-Trichloroethane	ND	5.0
1,1-Dichloroethane	ND	5.0
1,1-Dichloroethene	ND	5.0
1,1-Dichloropropene	ND	
1,2,3-Trichlorobenzene	ND	5.0
1,2,3-Trichloropropane	ND	
1,2,4-Trichlorobenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	
1,2-Dibromo-3-chloropropane	ND	
1,2-Dibromoethane	ND	
1,2-Dichlorobenzene	ND	
1,2-Dichloroethane	ND	
1,2-Dichloropropane	ND	
1,3,5-Trimethylbenzene	ND	
1,3-Dichlorobenzene	ND	
1,3-Dichloropropane	ND	
1,4-Dichlorobenzene	ND	
2,2-Dichloropropane	ND	
2-Butanone	ND	
2-Chloroethyl vinyl ether	ND	
2-Chlorotoluene	ND	
2-Hexanone	ND	
	ND	
4-Chlorotoluene 4-Isopropyltoluene	ND	
	ND	
4-Methyl-2-pentanone	ND	
Acetone		
Acrylonitrile	ND	
Benzene	ND	
Bromobenzene	ND	
Bromochloromethane	ND	
Bromodichloromethane	ND	
Bromoform	ND	
Bromomethane	ND	
Carbon disulfide	ND	
Carbon tetrachloride	ND	
Chlorobenzene	ND	
Chloroethane	ND	
Chloroform	ND	
Chloromethane	ND	
Dibromochloromethane	ND	
Dibromomethane	ND	
Dichlorodifluoromethane	ND	
Ethylbenzene	ND	5.0

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

J - Estimated value between MDL and PQL

MI - Matrix Interference

D - Recovery Unreportable due to Dilution

* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

08101601 Page 26

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.



HOUSTON LABORATORY 8880 INTERCHANGE DRIVE HOUSTON, TX 77054

(713) 660-0901

Conoco Phillips COP Faye-Burdette

Analysis:

Volatile Organics by Method 8260B

Method:

SW8260B

WorkOrder:

08101601

Lab Batch ID:

R256001

Method Blank

RunID:

N 081104A-4752370

Units:

ug/L

Analysis Date:

11/04/2008 16:12

Analyst: LT

Preparation Date:

11/04/2008 16:12

Prep By:

Method:

Analyte	Result	Rep Limit
Hexachlorobutadiene	ND	5.0
Isopropylbenzene	ND	5.0
Methyl tert-butyl ether	ND	5.0
Methylene chloride	ND	5.0
Naphthalene	ND	5.0
n-Butylbenzene	ND	5.0
n-Propylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
Styrene	ND	5.0
tert-Butylbenzene	ND	5.0
Tetrachloroethene	ND	5.0
Toluene	ND	5.0
Trichloroethene	ND	5.0
Trichlorofluoromethane	ND	5.0
Vinyl acetate	ND	10
Vinyl chloride	ND	10
cis-1,2-Dichloroethene	ND	5.0
cis-1,3-Dichloropropene	ND	5.0
m,p-Xylene	ND	5.0
o-Xylene	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,2-Dichloroethene (total)	ND	5.0
Xylenes, Total	ND	5.0
Surr: 1,2-Dichloroethane-d4	106.0	62-130
Surr: 4-Bromofluorobenzene	96.0	70-130
Surr: Toluene-d8	106.0	74-122

Laboratory Control Sample (LCS)

RunID:

N 081104A-4752369

Units:

ug/L Analyst: LT

Analysis Date: Preparation Date: 11/04/2008 15:32 11/04/2008 15:32

Prep By:

Method:

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
1,1,1,2-Tetrachloroethane	20.0	19.0	95.0	71	136
1,1,1-Trichloroethane	20.0	20.0	100	66	132
1,1,2,2-Tetrachloroethane	20.0	19.0	95.0	55	139
1,1,2-Trichloroethane	20.0	20.0	100	70	130
1,1-Dichloroethane	20.0	20.0	100	67	131

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B/V - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

08101601 Page 27

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.



8880 INTERCHANGE DRIVE HOUSTON, TX 77054 (713) 660-0901

Conoco Phillips COP Faye-Burdette

Analysis: Volatile Organics by Method 8260B

SW8260B

Method:

WorkOrder:

08101601

Lab Batch ID:

R256001

Laboratory Control Sample (LCS)

RunID: N_081104A-4752369 Units: ug/L Analysis Date: 11/04/2008 15:32 Analyst: LT

Preparation Date: 11/04/2008 15:32 Prep By: Method:

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
1,1-Dichloroethene	20.0	19.0	95.0	71	146
1,1-Dichloropropene	20.0	19.0	95.0	59	138
1,2,3-Trichlorobenzene	20.0	17.0	85.0	37	155
1,2,3-Trichloropropane	20.0	21.0	105	70	145
1,2,4-Trichlorobenzene	20.0	17.0	85.0	39	133
1,2,4-Trimethylbenzene	20.0	18.0	90.0	53	147
1,2-Dibromo-3-chloropropane	20.0	18.0	90.0	43	137
1,2-Dibromoethane	20.0	19.0	95.0	63	126
1,2-Dichlorobenzene	20.0	18.0	90.0	70	130
1,2-Dichloroethane	20.0	19.0	95.0	64	150
1,2-Dichloropropane	20.0	19.0	95.0	76	124
1,3,5-Trimethylbenzene	20.0	17.0	85.0	57	146
1,3-Dichlorobenzene	20.0	19.0	95.0	72	134
1,3-Dichloropropane	20.0	19.0	95.0	78	130
1,4-Dichlorobenzene	20.0	18.0	90.0	70	130
2,2-Dichloropropane	20.0	21.0	105	45	156
2-Butanone	120	83.0	69.2	20	235
2-Chloroethyl vinyl ether	20.0	23.0	115	13	179
2-Chlorotoluene	20.0	18.0	90.0	64	122
2-Hexanone	20.0	17.0	85.0	34	182
4-Chlorotoluene	20.0	18.0	90.0	64	142
4-Isopropyltoluene	20.0	17.0	85.0	60	134
4-Methyl-2-pentanone	20.0	17.0	85.0	11	145
Acetone	200	100	50.0	13	386
Acrylonitrile	100	100	100	43	194
Benzene	20.0	20.0	100	76	126
Bromobenzene	20.0	19.0	95.0	70	130
Bromochloromethane	20.0	18.0	90.0	63	131
Bromodichloromethane	20.0	20.0	100	77	138
Bromoform	20.0	17.0	85.0	55	129
Bromomethane	20.0	20.0	100	58	148
Carbon disulfide	20.0	18.0	90.0	46	146
Carbon tetrachloride	20.0	19.0	95.0	66	137
Chlorobenzene	20.0	18.0	90.0	67	136

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B/V - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

08101601 Page 28

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.



Conoco Phillips COP Faye-Burdette

Volatile Organics by Method 8260B Analysis:

Method:

SW8260B

WorkOrder: Lab Batch ID: 08101601 R256001

Laboratory Control Sample (LCS)

N_081104A-4752369 RunID: Units: Analysis Date: 11/04/2008 15:32

ug/L Analyst: LT

Preparation Date: 11/04/2008 15:32 Prep By: Method:

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Chloroethane	20.0	19.0	95.0	50	137
Chloroform	20.0	19.0	95.0	70	135
Chloromethane	20.0	23.0	115	51	140
Dibromochloromethane	20.0	18.0	90.0	69	127
Dibromomethane	20.0	20.0	100	74	130
Dichlorodifluoromethane	20.0	22.0	110	32	161
Ethylbenzene	20.0	18.0	90.0	67	122
Hexachlorobutadiene	20.0	15.0	75.0	43	144
Isopropylbenzene	20.0	15.0	75.0	60	135
Methyl tert-butyl ether	40.0	35.0	87.5	48	160
Methylene chloride	20.0	20.0	100	52	143
Naphthalene	20.0	17.0	85.0	24	150
n-Butylbenzene	20.0	16.0	80.0	50	140
n-Propylbenzene	20.0	16.0	80.0	62	137
sec-Butylbenzene	20.0	15.0	75.0	66	126
Styrene	20.0	18.0	90.0	60	139
tert-Butylbenzene	20.0	17.0	85.0	67	140
Tetrachloroethene	20.0	22.0	110	26	200
Toluene	20.0	20.0	100	70	131
Trichloroethene	20.0	19.0	95.0	64	137
Trichlorofluoromethane	20.0	21.0	105	46	167
Vinyl acetate	20.0	20.0	100	10	193
Vinyl chloride	20.0	20.0	100	31	147
cis-1,2-Dichloroethene	20.0	19.0	95.0	70	142
cis-1,3-Dichloropropene	20.0	17.0	85.0	61	134
m,p-Xylene	40.0	37.0	92.5	72	150
o-Xylene	20.0	19.0	95.0	78	141
trans-1,2-Dichloroethene	20.0	19.0	95.0	67	141
trans-1,3-Dichloropropene	20.0	17.0	85.0	56	136
1,2-Dichloroethene (total)	40	38	95	73	139
Xylenes, Total	60	56	93	72	150
Surr: 1,2-Dichloroethane-d4	50.0	48	96.0	62	130
Surr: 4-Bromofluorobenzene	50.0	51	102	70	130
Surr: Toluene-d8	50.0	52	104	74	122

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B/V - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

08101601 Page 29



Conoco Phillips COP Faye-Burdette

Analysis:

Volatile Organics by Method 8260B

Method: SW8260B

WorkOrder:

08101601

Lab Batch ID:

R256001

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked:

08101658-01

RunID: Analysis Date: N_081104A-4752372

Units:

ug/L

11/04/2008 17:07

Analyst: LT

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
1,1,1,2-Tetrachloroethane	ND	20	18.0	90.0	20	18.0	90.0	0	20	35	175
1,1,1-Trichloroethane	ND	20	20.0	100	20	19.0	95.0	5.13	20	35	175
1,1,2,2-Tetrachloroethane	ND	20	20.0	100	20	20.0	100	0	20	35	175
1,1,2-Trichloroethane	ND	20	20.0	100	20	19.0	95.0	5.13	20	35	175
1,1-Dichloroethane	ND	20	20.0	100	20	19.0	95.0	5.13	20	35	175
1,1-Dichloroethene	ND	20	18.0	90.0	20	17.0	85.0	5.71	22	61	145
1,1-Dichloropropene	ND	20	19.0	95.0	20	19.0	95.0	0	20	35	175
1,2,3-Trichlorobenzene	ND	20	15.0	75.0	20	15.0	75.0	0	20	27	187
1,2,3-Trichloropropane	ND	20	21.0	105	20	19.0	95.0	10.0	20	35	175
1,2,4-Trichlorobenzene	ND	20	14.0	70.0	20	14.0	70.0	0	20	34	150
1,2,4-Trimethylbenzene	ND	20	16.0	80.0	20	16.0	80.0	0	20	35	175
1,2-Dibromo-3-chloropropane	ND	20	20.0	100	20	18.0	90.0	10.5	20	15	175
1,2-Dibromoethane	ND	20	18.0	90.0	20	18.0	90.0	0	20	35	175
1,2-Dichlorobenzene	ND	20	18.0	90.0	20	18.0	90.0	0	20	35	175
1,2-Dichloroethane	ND	20	20.0	100	20	19.0	95.0	5.13	20	35	175
1,2-Dichloropropane	ND	20	19.0	95.0	20	19.0	95.0	0	20	35	175
1,3,5-Trimethylbenzene	ND	20	16.0	80.0	20	16.0	80.0	0	20	35	175
1,3-Dichlorobenzene	ND	20	18.0	90.0	20	17.0	85.0	5.71	20	35	175
1,3-Dichloropropane	ND	20	20.0	100	20	19.0	95.0	5.13	20	35	175
1,4-Dichlorobenzene	ND	20	18.0	90.0	20	18.0	90.0	0	20	35	175
2,2-Dichloropropane	ND	20	20.0	100	20	19.0	95.0	5.13	20	35	175
2-Butanone	ND	20	31.0	155	20	27.0	135	13.8	20	10	230
2-Chloroethyl vinyl ether	ND	20	0	0*	20	0	0*	0	20	10	250
2-Chlorotoluene	ND	20	18.0	90.0	20	18.0	90.0	0	20	31	175
2-Hexanone	ND	20	24.0	120	20	24.0	120	0	20	10	250
4-Chlorotoluene	ND	20	18.0	90.0	20	18.0	90.0	0	20	31	175
4-Isopropyltoluene	ND.	20	15.0	75.0	20	15.0	75.0	0	20	35	175
4-Methyl-2-pentanone	ND	20	19.0	95.0	20	18.0	90.0	5.41	20	10	175
Acetone	ND	100	140	140	100	140	140	0	20	10	400
Acrylonitrile	ND	200	190	95.0	200	180	90.0	5.41	20	15	250

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B/V - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

08101601 Page 30

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.



Conoco Phillips **COP Faye-Burdette**

Analysis: Method:

Volatile Organics by Method 8260B

SW8260B

WorkOrder:

08101601

Lab Batch ID:

R256001

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked:

Analysis Date:

RunID:

08101658-01

N 081104A-4752372 11/04/2008 17:07

Units:

ug/L

Analyst: LT

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Benzene	ND	20	19.0	95.0	20	19.0	95.0	0	22	76	127
Bromobenzene	ND	20	18.0	90.0	20	19.0	95.0	5.41	20	35	175
Bromochloromethane	ND	20	18.0	90.0	20	19.0	95.0	5.41	20	35	175
Bromodichloromethane	ND	20	19.0	95.0	20	18.0	90.0	5.41	20	35	175
Bromoform	ND	20	17.0	85.0	20	18.0	90.0	5.71	20	35	175
Bromomethane	ND	20	17.0	85.0	20	16.0	80.0	6.06	20	35	175
Carbon disulfide	ND	20	19.0	95.0	20	18.0	90.0	5.41	20	30	225
Carbon tetrachloride	ND	20	19.0	95.0	20	19.0	95.0	0	20	35	175
Chlorobenzene	ND	20	19.0	95.0	- 20	19.0	95.0	0	21	70	130
Chloroethane	ND	20	19.0	95.0	20	18.0	90.0	5.41	20	35	175
Chloroform	ND	20	19.0	95.0	20	18.0	90.0	5.41	20	35	175
Chloromethane	ND	20	18.0	90.0	20	18.0	90.0	0	20	35	175
Dibromochloromethane	ND	20	18.0	90.0	20	19.0	95.0	5.41	20	35	175
Dibromomethane	ND	20	19.0	95.0	20	20.0	100	5.13	20	35	175
Dichlorodifluoromethane	ND	20	14.0	70.0	20	12.0	60.0	15.4	20	35	175
Ethylbenzene	ND	20	18.0	90.0	20	18.0	90.0	0	20	35	175
Hexachlorobutadiene	ND	20	14.0	70.0	20	14.0	70.0	0	20	43	144
Isopropylbenzene	ND	20	18.0	90.0	20	18.0	90.0	0	20	35	175
Methyl tert-butyl ether	ND	20	18.0	90.0	20	17.0	85.0	5.71	20	35	175
Methylene chloride	ND	20	20.0	100	20	19.0	95.0	5.13	20	35	175
Naphthalene	ND	20	16.0	80.0	20	15.0	75.0	6.45	20	20	210
n-Butylbenzene	ND	20	14.0	70.0	20	14.0	70.0	0	20	35	175
n-Propylbenzene	ND	20	16.0	80.0	20	16.0	80.0	0	20	35	175
sec-Butylbenzene	ND	20	14.0	70.0	20	14.0	70.0	0	20	35	175
Styrene	ND	20	19.0	95.0	20	19.0	95.0	0	20	35	175
tert-Butylbenzene	ND	20	16.0	80.0	20	15.0	75.0	6.45	20	35	175
Tetrachloroethene	ND	20	17.0	85.0	20	17.0	85.0	0	20	30	250
Toluene	ND	20	19.0	95.0	20	19.0	95.0	0	24	70	131
Trichloroethene	ND	20	19.0	95.0	20	19.0	95.0	0	21	60	140
Trichlorofluoromethane	ND	20	19.0	95.0	20	18.0	90.0	5.41	20	17	250
Vinyl acetate	ND	20	20.0	100	20	19.0	95.0	5.13	20	10	250
Vinyl chloride	ND	20	16.0	80.0	20	16.0	80.0	0	20	35	175

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B/V - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

08101601 Page 31

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.



Conoco Phillips COP Faye-Burdette

Analysis:

Volatile Organics by Method 8260B

Method: SW8260B

WorkOrder:

08101601

Lab Batch ID:

R256001

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked:

08101658-01

RunID: Analysis Date: N_081104A-4752372 11/04/2008 17:07 Units: ug/L

4.3

Analyst: LT

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
cis-1,2-Dichloroethene	ND	20	20.0	100	20	18.0	90.0	10.5	20	35	175
cis-1,3-Dichloropropene	ND	20	17.0	85.0	20	18.0	90.0	5.71	20	35	175
m,p-Xylene	ND	40	36.0	90.0	40	36.0	90.0	0	20	35	175
o-Xylene	ND	20	19.0	95.0	20	19.0	95.0	0	20	35	175
trans-1,2-Dichloroethene	ND	20	19.0	95.0	20	18.0	90.0	5.41	20	35	175
trans-1,3-Dichloropropene	ND	20	17.0	85.0	20	17.0	85.0	0	20	35	175
1,2-Dichloroethene (total)	ND	40	39	98	40	36	90	8.0	20	35	175
Xylenes, Total	ND	60	55	92	60	55	92	0	20	35	175
Surr: 1,2-Dichloroethane-d4	ND	50	50	100	50	48.0	96.0	4.08	30	62	130
Surr: 4-Bromofluorobenzene	ND	50	51	102	50	53.0	106	3.85	30	70	130
Surr: Toluene-d8	ND	50	54	108	50	53.0	106	1.87	30	74	122

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

B/V - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

TNTC - Too numerous to count

08101601 Page 32

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.



Conoco Phillips **COP Faye-Burdette**

Analysis:

Volatile Organics by Method 8260B

Method:

RunID:

SW8260B

WorkOrder:

08101601

Lab Batch ID:

R256099

Method Blank

N_081105B-4754087

Units:

ug/L

Lab Sample ID

Samples in Analytical Batch:

Client Sample ID

08101601-02A

Trip Blank

Analysis Date: Preparation Date: 11/05/2008 17:43 11/05/2008 17:43

Analyst:

LT Prep By: Method:

Analyte	Result	Rep Limit
1,1,1,2-Tetrachloroethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,1,2-Trichloroethane	ND	5.0
1,1-Dichloroethane	ND	5.0
1,1-Dichloroethene	ND	5.0
1,1-Dichloropropene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0
1,2,3-Trichloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
1,2-Dibromo-3-chloropropane	ND	5.0
1,2-Dibromoethane	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dichloroethane	ND	5.0
1,2-Dichloropropane	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,3-Dichloropropane	ND	5.0
1,4-Dichlorobenzene	ND	5.0
2,2-Dichloropropane	ND	5.0
2-Butanone	ND	20
2-Chloroethyl vinyl ether	ND	10
2-Chlorotoluene	ND	5.0
2-Hexanone	ND	10
4-Chlorotoluene	ND	5.0
4-Isopropyltoluene	ND	5.0
4-Methyl-2-pentanone	ND	10
Acetone	ND	100
Acrylonitrile	ND	50
Benzene	ND	
Bromobenzene	ND	5.0
Bromochloromethane	ND	5.0
Bromodichloromethane	ND	5.0
Bromoform	ND	5.0
Bromomethane	ND	10
Carbon disulfide	ND	5.0
Carbon tetrachloride	ND	5.0
Chlorobenzene	ND	5.0
Chloroethane	ND	10
Chloroform	ND	5.0
Chloromethane	ND	10
Dibromochloromethane	ND	5.0
Dibromomethane	ND	5.0
Dichlorodifluoromethane	ND	10
Ethylbenzene	ND	5.0

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

J - Estimated value between MDL and PQL

D - Recovery Unreportable due to Dilution

MI - Matrix Interference

* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

08101601 Page 33

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.



Conoco Phillips COP Faye-Burdette

Analysis: Method:

Volatile Organics by Method 8260B

SW8260B

WorkOrder:

08101601

Lab Batch ID:

R256099

Method Blank

RunID:

N_081105B-4754087

Units:

ug/L

Analysis Date: Preparation Date: 11/05/2008 17:43 11/05/2008 17:43 Analyst:

LT Prep By:

Method:

Analyte	Result	Rep Limit
Hexachlorobutadiene	ND	5.0
Isopropylbenzene	ND	5.0
Methyl tert-butyl ether	ND	5.0
Methylene chloride	ND	5.0
Naphthalene	ND	5.0
n-Butylbenzene	ND	5.0
n-Propylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
Styrene	ND	5.0
tert-Butylbenzene	ND	5.0
Tetrachloroethene	ND	5.0
Toluene	ND	5.0
Trichloroethene	ND	5.0
Trichlorofluoromethane	ND	5.0
Vinyl acetate	ND	10
Vinyl chloride	ND	10
cis-1,2-Dichloroethene	ND	5.0
cis-1,3-Dichloropropene	ND	5.0
m,p-Xylene	ND	5.0
o-Xylene	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,2-Dichloroethene (total)	ND	5.0
Xylenes,Total	ND	5.0
Surr: 1,2-Dichloroethane-d4	104.0	62-130
Surr: 4-Bromofluorobenzene	92.0	70-130
Surr: Toluene-d8	104.0	74-122

Laboratory Control Sample (LCS)

RunID:

N_081105B-4754086

Units:

ug/L LT

Analysis Date: Preparation Date: 11/05/2008 17:15 11/05/2008 17:15

Analyst: Prep By:

Method:

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
1,1,1,2-Tetrachloroethane	20.0	19.0	95.0	71	136
1,1,1-Trichloroethane	20.0	21.0	105	66	132
1,1,2,2-Tetrachloroethane	20.0	19.0	95.0	55	139
1,1,2-Trichloroethane	20.0	21.0	105	70	130
1,1-Dichloroethane	20.0	21.0	105	67	. 131

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B/V - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

08101601 Page 34

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.



8880 INTERCHANGE DRIVE HOUSTON, TX 77054 (713) 660-0901

Conoco Phillips COP Faye-Burdette

Analysis: Method:

Volatile Organics by Method 8260B

SW8260B

WorkOrder:

08101601

Lab Batch ID:

R256099

Laboratory Control Sample (LCS)

RunID:

N_081105B-4754086

Units:

ug/L

Analysis Date:

11/05/2008 17:15

LT Analyst:

Preparation Date: 11/05/2008 17:15 Prep By:

Method:

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
1,1-Dichloroethene	20.0	20.0	100	71	146
1,1-Dichloropropene	20.0	21.0	105	59	138
1,2,3-Trichlorobenzene	20.0	17.0	85.0	37	155
1,2,3-Trichloropropane	20.0	22.0	110	70	145
1,2,4-Trichlorobenzene	20.0	16.0	80.0	39	133
1,2,4-Trimethylbenzene	20.0	19.0	95.0	53	147
1,2-Dibromo-3-chloropropane	20.0	20.0	100	43	137
1,2-Dibromoethane	20.0	20.0	100	63	126
1,2-Dichlorobenzene	20.0	18.0	90.0	70	130
1,2-Dichloroethane	20.0	20.0	100	64	150
1,2-Dichloropropane	20.0	19.0	95.0	76	124
1,3,5-Trimethylbenzene	20.0	18.0	90.0	57	146
1,3-Dichlorobenzene	20.0	20.0	100	72	134
1,3-Dichloropropane	20.0	19.0	95.0	78	130
1,4-Dichlorobenzene	20.0	19.0	95.0	70	130
2,2-Dichloropropane	20.0	21.0	105	45	156
2-Butanone	120	84.0	70.0	20	235
2-Chloroethyl vinyl ether	20.0	23.0	115	13	179
2-Chlorotoluene	20.0	19.0	95.0	64	122
2-Hexanone	20.0	18.0	90.0	34	182
4-Chlorotoluene	20.0	18.0	90.0	64	142
4-Isopropyltoluene	20.0	17.0	85.0	60	134
4-Methyl-2-pentanone	20.0	18.0	90.0	11	145
Acetone	200	180	90.0	13	386
Acrylonitrile	100	110	110	43	194
Benzene	20.0	21.0	105	76	126
Bromobenzene	20.0	20.0	100	70	130
Bromochloromethane	20.0	20.0	100	63	131
Bromodichloromethane	20.0	20.0	100	77	138
Bromoform	20.0	19.0	95.0	55	129
Bromomethane	20.0	20.0	100	58	148
Carbon disulfide	20.0	20.0	100	46	146
Carbon tetrachloride	20.0	20.0	100	66	137
Chlorobenzene	20.0	19.0	95.0	67	136

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B/V - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

08101601 Page 35

11/17/2008 2:56:41 PM

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.





Conoco Phillips COP Faye-Burdette

Analysis: Volatile Organics by Method 8260B Method:

SW8260B

WorkOrder:

08101601

Lab Batch ID:

R256099

Laboratory Control Sample (LCS)

RunID:

N_081105B-4754086

Units: ug/L

Analysis Date:

11/05/2008 17:15

Analyst: LT

Preparation Date:

11/05/2008 17:15

Prep By:

Method:

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Chloroethane	20.0	22.0	110	50	137
Chloroform	20.0	20.0	100	70	135
Chloromethane	20.0	25.0	125	51	140
Dibromochloromethane	20.0	20.0	100	69	127
Dibromomethane	20.0	20.0	100	74	130
Dichlorodifluoromethane	20.0	23.0	115	32	161
Ethylbenzene	20.0	19.0	95.0	67	122
Hexachlorobutadiene	20.0	16.0	80.0	43	144
Isopropylbenzene	20.0	16.0	80.0	60	135
Methyl tert-butyl ether	40.0	38.0	95.0	48	160
Methylene chloride	20.0	22.0	110	52	143
Naphthalene	20.0	18.0	90.0	24	150
n-Butylbenzene	20.0	16.0	80.0	50	140
n-Propylbenzene	20.0	17.0	85.0	62	137
sec-Butylbenzene	20.0	16.0	80.0	66	126
Styrene	20.0	18.0	90.0	60	139
tert-Butylbenzene	20.0	16.0	80.0	67	140
Tetrachloroethene	20.0	23.0	115	26	200
Toluene	20.0	22.0	110	70	131
Trichloroethene	20.0	19.0	95.0	64	137
Trichlorofluoromethane	20.0	21.0	105	46	167
Vinyl acetate	20.0	21.0	105	10	193
Vinyl chloride	20.0	21.0	105	31	147
cis-1,2-Dichloroethene	20.0	22.0	110	70	142
cis-1,3-Dichloropropene	20.0	19.0	95.0	61	134
m,p-Xylene	40.0	40.0	100	72	150
o-Xylene	20.0	20.0	100	78	141
trans-1,2-Dichloroethene	20.0	21.0	105	67	141
trans-1,3-Dichloropropene	20.0	18.0	90.0	56	136
1,2-Dichloroethene (total)	40	43	110	73	139
Xylenes,Total	60	60	100	72	150
Surr: 1,2-Dichloroethane-d4	50.0	52	104	62	130
Surr: 4-Bromofluorobenzene	50.0	52	104	70	130
Surr: Toluene-d8	50.0	53	106	74	122

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B/V - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

08101601 Page 36

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.



Conoco Phillips COP Faye-Burdette

Analysis: Method: Volatile Organics by Method 8260B

SW8260B

WorkOrder:

08101601

Lab Batch ID:

R256099

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked:

08101839-02

RunID:

N_081105B-4754097

Units:

ug/L LT

Analysis Date:

11/05/2008 22:50

Analyst:

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
1,1,1,2-Tetrachloroethane	ND	20	18.0	90.0	20	18.0	90.0	0	20	35	175
1,1,1-Trichloroethane	ND	20	21.0	105	20	20.0	100	4.88	20	35	175
1,1,2,2-Tetrachloroethane	ND	20	20.0	100	20	19.0	95.0	5.13	20	35	175
1,1,2-Trichloroethane	ND	20	20.0	100	20	20.0	100	0	20	35	175
1,1-Dichloroethane	ND	20	21.0	105	20	21.0	105	0	20	35	175
1,1-Dichloroethene	ND	20	19.0	95.0	20	19.0	95.0	0	22	61	145
1,1-Dichloropropene	ND	20	20.0	100	20	20.0	100	0	20	35	175
1,2,3-Trichlorobenzene	ND	20	14.0	70.0	20	15.0	75.0	6.90	20	27	187
1,2,3-Trichloropropane	ND	20	20.0	100	20	20.0	100	0	20	35	175
1,2,4-Trichlorobenzene	ND	20	14.0	70.0	20	14.0	70.0	0	20	34	150
1,2,4-Trimethylbenzene	ND	20	18.0	90.0	20	18.0	90.0	0	20	35	175
1,2-Dibromo-3-chloropropane	ND	20	18.0	90.0	20	18.0	90.0	0	20	15	175
1,2-Dibromoethane	ND	20	19.0	95.0	20	20.0	100	5.13	20	35	175
1,2-Dichlorobenzene	ND	20	18.0	90.0	20	19.0	95.0	5.41	20	35	175
1,2-Dichloroethane	ND	20	20.0	100	20	20.0	100	0	20	35	175
1,2-Dichloropropane	ND	20	20.0	100	20	19.0	95.0	5.13	20	35	175
1,3,5-Trimethylbenzene	ND	20	18.0	90.0	20	17.0	85.0	5.71	20	35	175
1,3-Dichlorobenzene	ND	20	18.0	90.0	20	18.0	90.0	0	20	35	175
1,3-Dichloropropane	ND	20	19.0	95.0	20	20.0	100	5.13	20	35	175
1,4-Dichlorobenzene	ND	20	18.0	90.0	20	18.0	90.0	0	20	35	175
2,2-Dichloropropane	ND	20	19.0	95.0	20	19.0	95.0	0	20	35	175
2-Butanone	ND	20	28.0	140	20	22.0	110	24.0 *	20	10	230
2-Chloroethyl vinyl ether	ND	20	19.0	95.0	20	20.0	100	5.13	20	10	250
2-Chlorotoluene	ND	20	18.0	90.0	20	18.0	90.0	0	20	31	175
2-Hexanone	ND	20	19.0	95.0	20	22.0	110	14.6	20	10	250
4-Chlorotoluene	ND	20	69.0	345 *	20	40.0	200 *	53.2 *	20		175
4-Isopropyltoluene	ND	20	17.0	85.0	20	16.0	80.0	6.06	20	35	175
4-Methyl-2-pentanone	ND	20	16.0	80.0	20	18.0	90.0	11.8	20	10	175
Acetone	ND	100	160	160	100	130	130	20.7 *	20	10	400
Acrylonitrile	ND	200	170	85.0	200	190	95.0	11.1	20	15	250

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B/V - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

08101601 Page 37

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.



Conoco Phillips **COP Faye-Burdette**

Analysis:

Volatile Organics by Method 8260B

Method: SW8260B WorkOrder:

08101601

Lab Batch ID:

R256099

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked:

08101839-02

N_081105B-4754097

Units:

ug/L

Analysis Date:

RunID:

11/05/2008 22:50

Analyst:

LT

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Benzene	ND	20	20.0	100	20	19.0	95.0	5.13	22	76	127
Bromobenzene	ND	20	17.0	85.0	20	19.0	95.0	11.1	20	35	175
Bromochloromethane	ND	20	19.0	95.0	20	20.0	100	5.13	20	35	175
Bromodichloromethane	ND	20	19.0	95.0	20	19.0	95.0	0	20	35	175
Bromoform	ND	20	15.0	75.0	20	16.0	80.0	6.45	20	35	175
Bromomethane	ND	20	19.0	95.0	20	20.0	100	5.13	20	35	175
Carbon disulfide	ND	20	20.0	100	20	20.0	100	0	20	30	225
Carbon tetrachloride	ND	20	20.0	100	20	20.0	100	0	20	35	175
Chlorobenzene	ND	20	20.0	100	20	19.0	95.0	5.13	21	70	130
Chloroethane	ND	20	20.0	100	20	21.0	105	4.88	20	35	175
Chloroform	ND	20	19.0	95.0	20	20.0	100	5.13	20	35	175
Chloromethane	ND	20	21.0	105	20	24.0	120	13.3	20	35	175
Dibromochloromethane	ND	20	18.0	90.0	20	18.0	90.0	0	20	35	175
Dibromomethane	ND	20	20.0	100	20	20.0	100	0	20	35	
Dichlorodifluoromethane	ND	20	18.0	90.0	20	23.0	115	24.4*	20	35	
Ethylbenzene	ND	20	19.0	95.0	20	18.0	90.0	5.41	20	35	175
Hexachlorobutadiene	ND	20	22.0	110	20	21.0	105	4.65	20	43	144
Isopropylbenzene	ND	20	18.0	90.0	20	17.0	85.0	5.71	20	35	175
Methyl tert-butyl ether	ND	20	18.0	90.0	20	20.0	100	10.5	20	35	175
Methylene chloride	ND	20	21.0	105	20	21.0	105	0	20	35	175
Naphthalene	ND	20	16.0	80.0	20	17.0	85.0	6.06	20	20	210
n-Butylbenzene	ND	20	17.0	85.0	20	16.0	80.0	6.06	20	35	175
n-Propylbenzene	ND	20	15.0	75.0	20	15.0	75.0	0	20	35	175
sec-Butylbenzene	ND	20	17.0	85.0	20	16.0	80.0	6.06	20	35	175
Styrene	ND	20	20.0	100	20	18.0	90.0	10.5	20	35	175
tert-Butylbenzene	ND	20	17.0	85.0	20	17.0	85.0	0	20	35	175
Tetrachloroethene	ND	20	20.0	100	20	18.0	90.0	10.5	20	30	250
Toluene	ND	20	20.0	100	20	20.0	100	0	24	70	131
Trichloroethene	ND	20	19.0	95.0	20	19.0	95.0	0	21	60	140
Trichlorofluoromethane	ND	20	21.0	105	20	21.0	105	0	20	17	250
Vinyl acetate	ND	20	19.0	95.0	20	20.0	100	5.13	20	10	250
Vinyl chloride	ND	20	18.0	90.0	20	20.0	100	10.5	20	35	175

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B/V - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

08101601 Page 38

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.



Conoco Phillips COP Faye-Burdette

Analysis: Method:

Volatile Organics by Method 8260B

SW8260B

WorkOrder:

08101601

Lab Batch ID:

R256099

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked:

08101839-02

N_081105B-4754097

Units:

ug/L

Analysis Date:

RunID:

11/05/2008 22:50

Analyst: LT

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
cis-1,2-Dichloroethene	ND	20	21.0	105	20	20.0	100	4.88	20	35	175
cis-1,3-Dichloropropene	ND	20	17.0	85.0	20	18.0	90.0	5.71	20	35	175
m,p-Xylene	ND	40	38.0	95.0	40	37.0	92.5	2.67	20	35	175
o-Xylene	ND	20	20.0	100	20	18.0	90.0	10.5	20	35	175
trans-1,2-Dichloroethene	ND	20	20.0	100	20	19.0	95.0	5.13	20	35	175
trans-1,3-Dichloropropene	ND	20	16.0	80.0	20	17.0	85.0	6.06	20	35	175
1,2-Dichloroethene (total)	ND	40	41	100	40	39	98	5.0	20	35	175
Xylenes, Total	ND	60	58	97	60	55	92	5.3	20	35	175
Surr: 1,2-Dichloroethane-d4	ND	50	48	96.0	50	49.0	98.0	2.06	30	62	130
Surr: 4-Bromofluorobenzene	ND	50	52	104	50	52.0	104	0	30	70	130
Surr: Toluene-d8	ND	50	54	108	50	54.0	108	0	30	74	122

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B/V - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

08101601 Page 39

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.



Conoco Phillips COP Faye-Burdette

Analysis:

Analysis Date:

Ion Chromatography

10/28/2008 18:12

Method: E300.0

WorkOrder:

Samples in Analytical Batch:

08101601

Lab Batch ID:

R255465B

Method Blank

RunID: IC1_081028A-4743014

Units: mg/L

TW

Analyst:

g/L

Lab Sample ID

Client Sample ID

08101601-01E

MW-1

Analyte	Result	Rep Limit
Fluoride	ND	0.50
Ortho-phosphate (As P)	ND	0.50

Laboratory Control Sample (LCS)

RunID:

IC1_081028A-4743015

Units:

mg/L

Analysis Date:

10/28/2008 18:29

Analyst: TW

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Fluoride	10.00	9.015	90.15	85	115
Ortho-phosphate (As P)	10.00	9.477	94.77	85	115

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked:

08101600-01

RunID:

IC1_081028A-4743111

Units:

mg/L

Analysis Date:

10/28/2008 19:02

Offics.

Analyst: TW

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Fluoride	ND	10	7.850	75.42 *	10	8.289	79.81 *	5.440	20	80	120
Ortho-phosphate (As P)	ND	10	6.675	66.75 *	10	7.153	71.53 *	6.914	20	80	120

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B/V - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

08101601 Page 40



8880 INTERCHANGE DRIVE HOUSTON, TX 77054 (713) 660-0901

Conoco Phillips COP Faye-Burdette

Analysis:

Ion Chromatography

Method: E300.0 WorkOrder:

Samples in Analytical Batch:

08101601 Lab Batch ID: R255466C

Method Blank

RunID: IC1_081028B-4743034

Units: mg/L

Lab Sample ID

Client Sample ID

Analysis Date: 10/28/2008 18:12

Analyst: TW 08101601-01E

MW-1

Analyte	Result	Rep Limit
Nitrogen, Nitrate (As N)	ND	0.50

Laboratory Control Sample (LCS)

RunID:

IC1 081028B-4743035

Units:

mg/L

Analysis Date:

10/28/2008 18:29

TW Analyst:

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	it Limit
Nitrogen, Nitrate (As N)	10.00	9.975	99.75	85	115

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked:

08101600-01

RunID:

IC1_081028B-4743037

Units:

mg/L

10/28/2008 19:02 Analysis Date:

TW Analyst:

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Nitrogen, Nitrate (As N)	5.471	10	14.76	92.89	10	15.25	97.78	3.259	20	80	120

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B/V - Analyte detected in the associated Method Blank J - Estimated value between MDL and PQL

D - Recovery Unreportable due to Dilution

E - Estimated Value exceeds calibration curve

* - Recovery Outside Advisable QC Limits

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

08101601 Page 41

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.



8880 INTERCHANGE DRIVE HOUSTON, TX 77054

(713) 660-0901

Conoco Phillips COP Faye-Burdette

Analysis: Method: Ion Chromatography

E300.0

.,.....

WorkOrder:

08101601

Lab Ba Samples in Analytical Batch:

Lab Batch ID:

R256813A

Method Blank

IC1_081110B-4766069

Units:

Lab Sample ID

Client Sample ID

Analysis Date:

11/10/2008 16:35

Analyst: TW

mg/L

08101601-01E

MW-1

Analyte	Result	Rep Limit
Chloride	ND	0.50

Laboratory Control Sample (LCS)

RunID:

IC1_081110B-4766017

Units:

: mg/L

Analysis Date:

11/10/2008 16:51

Analyst: TW

Analyte	Spike Added	Result	Percent Recovery		Upper Limit
Chloride	10.00	9.409	94.09	85	115

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 08101597-01

RunID:

IC1_081110B-4766020

Units:

mg/L

Analysis Date:

11/10/2008 18:20

Analyst: TW

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Chloride	18.90	40	58.79	99.73	40	56.56	94.14	3.874	20	80	120

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B/V - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

08101601 Page 42

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.



Conoco Phillips
COP Fave-Burdette

Analysis: Method:

RunID:

Ion Chromatography

E300.0

or rayo baraono

WorkOrder:

08101601

Lab Batch ID:

R256827

Method Blank

IC1_081111A-4766432

Units:

mg/L TW

Lab Sample ID

Client Sample ID

Analysis Date:

11/11/2008 10:53

Analyst:

08101601-01E

Samples in Analytical Batch:

MW-1

Analyte	Result	Rep Limit
Sulfate	ND	0.50

Laboratory Control Sample (LCS)

RunID:

IC1_081111A-4766433

Units:

mg/L

Analysis Date:

11/11/2008 11:10

Analyst: TW

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Sulfate	10.00	9.448	94.48	85	115

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked:

08101597-01

RunID:

IC1 081111A-4766437

Units:

mg/L

Analysis Date:

11/11/2008 12:16

Analyst: TW

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Sulfate	1482	1000	2451	96.96	1000	2461	97.94	0.4013	20	80	120

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B/V - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

* - Recovery Outside Advisable QC Limits

E - Estimated Value exceeds calibration curve

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

TNTC - Too numerous to count

08101601 Page 43

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.



8880 INTERCHANGE DRIVE HOUSTON, TX 77054 (713) 660-0901

Sample Receipt Checklist

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Yes		No 🗆	Not Present	✓
Yes		No 🗆	Not Present	✓
Yes	✓	No 🗆		
Yes	✓	No 🗆		
Yes	✓	No 🗆		
Yes	✓	No 🗆		
Yes	✓	No 🗆		
Yes	•	No 🗆		
Yes		No 🗹		
Yes	✓	No 🗆		
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