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QUARTERLY GROUNDWATER MONITORING REPORT DECEMBER 2009 SAMPLING EVENT

CONOCOPHILLIPS COMPANY SHEPHERD & KELSEY NO.IE BLOOMFIELD, NEW MEXICO

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QUARTERLY GROUNDWATER MONITORING REPORT CONOCOPHILLIPS COMPANY SHEPHERD & KELSEY IE BLOOMFIELD, NEW MEXICO

I.0 INTRODUCTION

ConocoPhillips Company (ConocoPhillips) retained Tetra Tech, Inc (Tetra Tech) to perform additional site characterization work and quarterly groundwater monitoring at the Shepherd & Kelsey No. IE site in Bloomfield, New Mexico (Site). This report presents the results of a quarterly groundwater monitoring event conducted at the Site by Tetra Tech on December 14, 2009. This sampling event represents the sixth consecutive quarter of groundwater monitoring completed by Tetra Tech at the Site.

The Site is located on private land leased by ConocoPhillips near the intersection of New Mexico Highway 64 and County Road 5097 in Bloomfield, NM. The Site consists of a gas production well head with associated equipment and installations, and is surrounded by agricultural land. The coordinates are 36° 42' 6.8"N and 108° 01' 12.2" W; the location and general features of the Site are presented as **Figure 1** and **Figure 2**, respectively.

I.I Site History

A historical timeline for the Site is presented in **Table I**, and is discussed in more detail below.

Contaminated soil was discovered at the Site during routine maintenance on June 5, 2007. Envirotech Inc. of Farmington, New Mexico (Envirotech) performed soil excavation (Excavation #1, **Figure 2**) at the Site, during which three soil samples were collected and analyzed for total petroleum hydrocarbons (TPH). The concentration of TPH was found to be below the New Mexico Oil Conservation Department (NMOCD) recommended action level. On June 12, 2007 a separate area of TPH soil contamination was discovered. An excavation of the additional area was performed by Envirotech from June 15 through June 18, 2007 (Excavation #2, **Figure 2**). Soil samples taken during the second excavation were found to be above the NMOCD recommended action level for TPH. Groundwater samples collected during excavation were found to contain benzene and total xylenes above New Mexico Water Quality Control Commission (NMWQCC) groundwater quality standards. Monitor Well MW-1 was installed by Envirotech on September 26, 2007. Soil and groundwater samples collected during drilling were analyzed for TPH and for benzene, toluene, ethylbenzene and total xylenes (BTEX); results were below NMOCD recommended action levels. In November 2007, Envirotech recommended plugging and abandoning MW-1 and a no further action status from NMOCD. However, in April 2008, NMOCD indicated that further investigation was necessary before closure could be granted.

Tetra Tech began quarterly sampling of MW-I on October 23, 2008. On January 22, 2009, three additional groundwater monitor wells were installed by WDC Exploration and Drilling of Peralta, NM (WDC), under the supervision of Tetra Tech. Monitor Wells MW-2, MW-3, and MW-4 were initially

sampled on January 30, 2009 and have since been incorporated into the quarterly monitoring schedule of MW-1.

2.0 METHODOLOGY AND RESULTS

Quarterly groundwater sampling was conducted on December 14, 2009. Groundwater samples were collected from Monitor Wells MW-1, MW-2, MW-3 and MW-4. Prior to sampling, depth to groundwater in each well was recorded using a dual interface probe; and results are displayed in **Table 2**.

The casings for all Site monitor wells were surveyed by Tetra Tech in January 2009, with the wellhead assigned an arbitrary reference elevation of 100 feet above mean sea level (amsl). Using this data, it was determined that the groundwater flow direction at the Site is to the south (**Figure 3**).

2.1 Groundwater Sampling Methodology

Monitor Wells MW-1, MW-2, MW-3, and MW-4 were sampled during the December 14, 2009 groundwater monitoring event. Prior to sampling, all monitor wells were purged of at least 3 casing volumes of groundwater using a dedicated 1.5-inch diameter polyethylene disposable bailer. Groundwater quality parameters were collected using a YSI 556 multi-parameter sonde during each purge. Results were recorded on a Tetra Tech Water Sampling Field Form (**Appendix A**). Groundwater samples were placed in laboratory prepared bottles, packed on ice, and shipped under chain-of-custody documentation to Southern Petroleum Laboratory (SPL) of Houston, Texas. Samples were analyzed for dissolved manganese by EPA Method 6010B; TDS by EPA Method 2540C; and for BTEX by EPA Method 8260B.

2.2 Groundwater Sampling Analytical Results

The New Mexico Water Quality Control Commission (NMWQCC) mandates that groundwater quality in New Mexico be protected, and has issued groundwater quality standards in Title 20, Chapter 6, Part 2, Section 3103 of the New Mexico Administrative Code (20.6.2.3103 NMAC). A historical summary of groundwater analytical results is provided in **Table 3**. The laboratory analytical report is included as **Appendix B**.

• Manganese

The groundwater quality standard for manganese is 0.2 milligrams per liter (mg/L). Groundwater collected from Monitor Well MW-4 was found to contain manganese at concentrations of 0.283 mg/L.

3.0 CONCLUSIONS

In order to move toward Site closure with NMOCD, continued groundwater quality monitoring is recommended for BTEX and dissolved manganese. Furthermore, Tetra Tech recommends continued monitoring of total dissolved solids (TDS) to determine if seasonal trends are influencing Site groundwater quality.

Tetra Tech

Quarterly Groundwater Monitoring Report Shepherd & Kelsey 1E, Bloomfield, New Mexico OCD #3RP-98-0

The next groundwater monitoring event is scheduled for March 2010. Please contact Kelly Blanchard at 505-237-8440 or kelly.blanchard@tetratech.com if you have any questions or require additional information.

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FIGURES







TABLES

Table 1. Site History Timeline - ConocoPhillips Company Shepherd and Kelsey No. 1E

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	ated total metal concentrations.
14-Dec-09 Quarterly sampling of monitor wells MW-1, MW-2, MN	N-1, MW-2, MW-3, and MW-4.

Tetra Tech, Inc.

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Table 2. Groundwater Elevation Data Summary - ConocoPhillips Company Shepherd & Kelsey No.1E

	Relative Groundwater Elevation	92.51	90.83	90.63	92.52	90.91	91.02	92.64	92.27	95.55	93.45	93.06	90.31	90.14	91.96	90.35	90.41	89.90	89.83	90.72	90.10	90.32
	Depth to Groundwater (ft below TOC)	4.02	5.7	5.9	4.01	5.62	5.51	5.41	5.78	2.50	4.60	4.99	5.29	5.46	3.64	5.25	5.19	6.33	6.40	5.51	6.13	5.91
	Date Measured	10/23/2008	1/30/2009	4/1/2009	6/18/2009	9/21/2009	12/14/2009	1/30/2009	4/1/2009	6/18/2009	9/21/2009	12/14/2009	1/30/2009	4/1/2009	6/18/2009	9/21/2009	12/14/2009	1/30/2009	4/1/2009	6/18/2009	9/21/2009	12/14/2009
	*Elevation (ft) (TOC)			06 53	, , ,					98.05					95.60					96.23		
	Screen Interval (ft)			2 5-10 N	0.01-0.7					3.0 - 18.0	-				3.0 - 18.0				-	3.7 - 18.7	·	
-	Total Depth (ft bgs)			10	<u>1</u>					20.30		,		-	20.10					20.70		
	Well ID			M//-1						MW-2					MW-3					MW-4		

ft = Feet

TOC = Top of casing bgs = below ground surface

* Elevation relative to wellhead

Tetra Tech, Inc.

Table 3. Groundwater Laboratory Analytical Results - ConocoPhillips Company Shepherd & Kelsey No. 1E

Meil ID	Date	Benzene (µg/L)	Toluene (μg/L)	Ethylbenzene (μg/L)	Xytenes (μg/L)	Sulfate (mg/L)	Aluminum (mg/L)	lron (mg/L)	`Manganese (mg/L)	Total Dissolved Solids (mg/L)
	1/30/2009	< 5	< 5	< 5	< 5	303	0.658*	1.45*	0.276*	692
	4/1/2009	. <5	< 5	< 5	< 5	258	1.19*	1.9*	0.416*	1,340
MW-1	6/18/2009	< 5	< 5	< 5	< 5	NA	0.187*	0.209*	NA**	NA
	9/21/2009	<1	< 1	1	< 2	324	< 0.1	0.0458	0.0356	200
	12/14/2009	<1	< 1	< 1	<1	NA	AN	NA	0.0539	661
	1/30/2009	< 5	< 5	< 5	< 5	706	11.3*	22.4*	2.06*	1,130
	4/1/2009	< 5	. <5	< 5	< 5	613	4.39*	11.3*	0.964*	1,420
MW-2	6/18/2009	< 5	< 5	<5	< 5	AA	2.38*	4.01*	NA**	NA
	9/21/2009	<1	< 1	- 41	< 2	421	< 0.1	< 0.02	0.158	740
	12/14/2009	<1	<1 ·	< 1	. <1	NA	AN	NA	0.106	764
	1/30/2009	< 5	< 5	< 5 <	< 5	427	4.34*	5.77*	0.675*	. 918
	4/1/2009	< 5	< 5	< 5	< 5 .	416	1.45*	3.0*	0.615*	1,010
MW-3	6/18/2009	< 5	< 5	< 5 <	< 5	NA	0.67*	1.57*	NA**	NA
	9/21/2009	<1	< 1	< 1	< 2	359	< 0.1	< 0.02	0.115	733
	12/14/2009	. <1	< 1	< 1	٢	NA	AN	NA	0.154	712
	1/30/2009	< 5	< 5	< 5	< 5	539	7.29*	19.4*	16.7*	1,000
	4/1/2009	< 5	< 5	< 5	< 5	512	11.4*	23.4*	3.36*	1,010
MW-4	6/18/2009	< 5	< 5	< 5	< 5	NA	0.344*	0.362*	NA**	NA .
	9/21/2009	<1.	< 1	۲ ۲	< 2	472	< 0.1	0.0376	0.286	963
	12/14/2009	<1	< 1	<1	2	NA	NA	NA	0.283	861
NMWQCC Gro Sta	undwater Quality ndard	,10 (μg/L)	750 (µg/L)	750 (µg/L)	620 (µg/L)	600 (mg/L)	5 (mg/L)	1 (mg/L)	0.2 (mg/L)	1000 (mg/L)

Notes: MW = monitor well

NMWQCC = New Mexico Water Quality Control Commission Constituents in **BOLD** exceed NMWQCC Groundwater Quality Standards

VOCs = volatile organic compounds

mg/L = milligrams per liter

µg/L = micrograms per liter NA** = not analyzed due to lab error

NA = not analyzed

1

NE = not established

TDS - total dissolved solids

Total Xylenes = the sum of m,p-xylene and o-xylene. * = Results reported for total metals analysis, results can not be compared to NMWQCC Standards for dissolved metals

Tetra Tech, Inc.

1 of 1

APPENDIX A

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TETRA TECH, INC.

WATER SAMPLING FIELD FORM

Project Name Shepherd & Kelsey 1E	Page of4
Project No.	· · ·
Site Location Bloomfield, NM	
Coded/ Site/Well No. <u>MW-1</u> Replicate No.	Date 13/14/09
Weather <u>COULDRUPTU</u> Time Sampling <u>COU</u> Began <u>1520</u>	Time Sampling Completed <u>1530</u>
EVACUATION DATA	
Description of Measuring Point (MP Top of Casing	
Height of MP Above/Below Land Surface MP	Elevation
Total Sounded Depth of Well Below MP11.96 Wat	er-Level Elevation
HeldDepth to Water Below MP <u>S.S1</u> Dian	neter of Casing <u>2"</u>
Wet Water Column in Well (1,45 Prior	r to Sampling3
Gallons per Foot0.16	alling Duman Inteller Cattling
Gallons in Well $1, 03, 3 = 3, 04$ (feet	t below land surface)
Purging Equipment Purge pump / Bailer	
SAMPLING DATA/FIELD PARAM	ETERS
Time Temperature (°C) pH Conductivity (μ S/cm ³) T 1522 D 95 7 16 920 D	$\frac{\text{DS}(g/L)}{\sqrt{598}} = \frac{\text{DO}(\text{mg/L})}{\sqrt{2}} = \frac{\text{ORP}(\text{mV})}{\sqrt{2}} = \frac{\sqrt{51}}{\sqrt{2}}$
1524 11.01 7.19 920 0	598 7.00 27.2 2.59
	5.600 2.15 26.J 3g
Sampling Equipment Purge Pump/Bailer	
Constituents Sampled Container Description	Preservative
BTEX 3 40mL VOA's	
Be, Mn; AP DISSONICA plastic - 1602	none
J2 07 plastic	pone
1-111	or I taska allaskall
Remarks ught brown in color, no oll	sv, augulate collected
Sampling Personnel Ana M., Christine M	1. 10 75 35
Well Casing Volume	S
Gal./ft. 1 ¼" = 0.077 2" = 0.16	3" = 0.37 4" = 0.65
$1 \frac{1}{2}$ " = 0.10 $2 \frac{1}{2}$ " = 0.24	3" 1/2 = 0.50 6" = 1.46
R-Sharal Maxim Formst Field Formst SK1F Water Sampling Field Forms vis	

WATER SAMPLING FIELD FORM	
Project Name Shepherd & Kelsey 1E Page 2 of	4
Project No.	
Site Location Bloomfield, NM	
Site/Well No. <u>MW-2</u> Coded/ Replicate No Date 1214109	
Weather Cold, bruzy Began 1405 Time Sampling 1430	
EVACUATION DATA	
Description of Measuring Point (MP) Top of Casing	
Height of MP Above/Below Land Surface MP Elevation	
Total Sounded Depth of Well Below MP 20.2 21.12 Water-Level Elevation	
Held Depth to Water Below MP 4.99 Diameter of Casing 2"	
Wet Water Column in Well 12 . 13 Gallons Pumped/Balled Prior to Sampling	
Gallons per Foot 0.16 Gallons in Well $2.56 \times 3=7.74$ Sampling Pump Intake Setting (feet below land surface)	
Purging Equipment Purge pump / Bailer	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	9 59 59
Sampling Equipment Purge Pump/Bailer	
Constituents Sampled Container Description Preservative	
BTEX <u>3 40mL VOA's</u> <u>HCI</u>	
Fe, Mn, At Dissolved plastic - 16 DZ none	,
TOS 32 07 plastic none	
Remarks MUKY brownish-gray water - no oder i Sampling Personnel AM, CM	-
Well Casing Volumes	
Gal./ft. $1 \frac{14}{2}$ = 0.077 $2^{"}$ = 0.16 $3^{"}$ = 0.37 $4^{"}$ = 0.65 $1 \frac{14}{2}$ = 0.10 $2 \frac{14}{2}$ = 0.24 $3^{"} \frac{14}{2}$ = 0.50 $6^{"}$ = 1.46	

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TETRA	TECH, INC.			WATE	R SAMI	PLING FII	ELC	FORM		
Project Name	Shepherd	& Kelsey 1E						Page	3	of <u>4</u>
Project No.										
Site Location	Bloomfield	, NM							3	1
Site/Well No.	<u>MW-3</u>		Coded/ Replicate	∍ No.				Date	12/14	09
Weather	Cooly	breezy	Time Sar Began	mpling	1500	7		Time Samplin Completed	<u> 151</u>	<u>5</u>
				EVACUA	ATION DA	ТА				
Description of	Measuring	Point (MP <u>) To</u>	p of Casing							
Height of MP A	hove/Below	w Land Surfac			-	MP Elevatio	on	<u></u>	·	
Total Sounded	Depth of V	Vell Below MF	ν <u>20.1</u> 1	DERO	2	Water-Leve	el Ele	vation		<u> </u>
Held	Depth to V	Vater Below N	1P 5.	19	-	Diameter of	f Cas	ing 2"		
Wet	Water	Column in W	ell 14	90	-	Gallons Pul Prior to Sar	mped	MBailed) —	7,25	eallons
	- •••			0.16				9		<u> <u> </u></u>
				20:77	•	Sampling P	ump	Intake Setting		· ·
	-	Gallons in W		<u>, 2/12.</u> V2	. 711	(leet pelow	land	surrace)		
Purging Equipr	ment <u>F</u>	Purge pump	Bailer)	^3	= 1.16					
Time	Tempera			ING DATA	/FIELD PA		<u> </u>			11 plume Gal
1507		2	7.20	10	5	.660	_/	7.00	37.8	4.75
509		7	7.18		34 24	672	,	2.60	35.2	6.00 get
										1.25
	<u> </u>	<u>l</u>				1		L	<u> </u>	
Sampling Equi	pment	Pu	rge Pump/B	ailer)	· · · ·			<u> </u>		
<u>Constitu</u>	ients Samp	led		Container	Descriptio	<u>n</u>		Ē	Preservative	
BTEX			<u>3 40mL \</u>	/OA's				HCI		. <u> </u>
Fe, Mn, A	Desol	<u>rd</u>	plastic	<u></u>				none		
TD	5									<u></u>
Remarks	_H_2C) clea	r farti	<u>ve. mo:</u>	st par	t slid	n+1	y cloca	dy Ca	<u>5qcillons</u>
Sampling Pers	onnel			-		J			(<u> </u>
										·
				Well (Casing Vo	lumes			48	
	Gal./ft.	1 ¼" = 0.0 1 ½" = 0.1	0 D	$2^{"} = 0.$ $2\frac{1}{2}" = 0.$.16 .24	3" 3" ½	=	0.37 0.50	4" = 0.65 6" = 1.46	

R:\Share\Maxim Forms\Field Forms\SK1E Water Sampling Field Forms.xls

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TETRA TECH, INC.	WATE	R SAMPLING FI	
Project Name Shepherd & Kelsey 1	E		Page4 of4
Project No.			
Site Location Bloomfield, NM		<u></u>	· ·
Site/Well No. <u>MW-4</u>	Coded/ Replicate No.		Date 12/14/09
Weather <u>Cold</u> , SUMM	Time Sampling Began	1435	Time Sampling Completed 1450
j	EVACUA	ATION DATA	
Description of Measuring Point (MP)	Top of Casing		
Height of MP Above/Below Land Sur	face	MP Elevation	n
Total Sounded Depth of Well Below I	MP 20.37	– Water-Leve	el Elevation
Heid Depth to Water Below	(MP 5.91	– · Diameter o	f Casing 2"
Wet Water Column in	Well 14,96	- Gallons Pu Prior to Sa	mped/Bailed npling
Gallons per	Foot 0.16	- 3	
Gallons in	Well 2.31 x 3 K	Sampling F	Pump Intake Setting land surface)
Purging Equipment Purge pump	o / Bailer		
	SAMPLING DATA	FIELD PARAMETERS	
Time Temperature (°C)	PH Conductiv	rity (µS/cm ³) TDS (g/	$\begin{array}{c c c c c c c c c c c c c c c c c c c $
1440 4.77	7.18 11	$\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$ $\frac{1}{2}$	5 1.25 14.2 74
		······	
Sampling Equipment	Purge Pump/Bailer	I	······································
Constituents Sampled	Containe	r Description	Preservative
BTEX	3 40mL VOA's	·	HCI
TE, Mn; AL DISSOLVED	plastic		none
TD5			
	at top	trit America	have
Remarks $0Y000 P$	artills, mi	UKY MOW	n waay
Sampling Personnel	M. Christi	LIM.	
	Well	Casing Volumes	
Gal./ft. 1 ¼" = 0	.077 2" = 0	.16 3"	= 0.37 4" = 0.65
1 ½" = 0 R:\Share Maxim Forms\Field Forms	0.10 2 ½" = 0 SK1E Water Sampling Field Fo	.24 3" ½ mms.xls	2 = 0.50 6" = 1.46

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APPENDIX B



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

Conoco Phillips

Certificate of A	Certificate of Analysis Number:										
<u>091</u>	<u>09120602</u>										
Report To:	Project Name:	COP Shep Kelsey1E									
Tetra Tech, Inc.	Site:	Bloomfield, NM									
Kelly Blanchard	Site Address:										
6121 Indian School Road, N.E.											
Suite 200 Albuquerque	PO Number:										
NM	State:	New Mexico									
87110-	State Cert. No.:										
ph: (505) 237-8440 fax:	Date Reported:	12/28/2009									

This Report Contains A Total Of 15 Pages

Excluding This Page, Chain Of Custody

And

Any Attachments

12/28/2009

Test results meet all requirements of NELAC, unless specified in the narrative.



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

Case Narrative for: Conoco Phillips

Certificate of Analysis Number:

09120602

Report To:	Project Name: COP Shep Kelsey1E
Tetra Tech, Inc.	Site: Bloomfield, NM
Kelly Blanchard	Site Address:
6121 Indian School Road, N.E.	
Suite 200	PO Number
Albuquerque	<u>ro Number.</u>
NM	State: New Mexico
87110-	State Cert. No.:
ې ph: (505) 237-8440 fax:	Date Reported: 12/28/2009

I. SAMPLE RECEIPT:

All samples were received intact. The internal ice chest temperatures were measured on receipt and are recorded on the attached Sample Receipt Checklist.

II: ANALYSES AND EXCEPTIONS:

There were no exceptions noted.

III. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report (" mg\kg-dry " or " ug\kg-dry ").

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 MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

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.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or by his designee, as verified by the following signature.

In Cardenas

09120602 Page 1

12/28/2009

Erica Cardenas Project Manager

Test results meet all requirements of NELAC, unless specified in the narrative.



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

Conoco Phillips

Certificate of Analysis Number:

09120602

Report To:	Tetra Tech, Inc.		Project Name:	COP Shep Kelsey1E
	Kelly Blanchard		Site:	Bloomfield, NM
	6121 Indian School Roa	ad, N.E.	Site Address	·
	Suite 200		Sile Address.	
	Albuquerque			
	NM		PO Number:	
	87110-		State:	New Mexico
	ph: (505) 237-8440	fax: (505) 881-3283	State Cert. No.:	
<u>Fax To:</u>			Date Reported:	12/28/2009

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
MW-2	09120602-01	Water	12/14/2009 2:30:00 PM	12/15/2009 9:00:00 AM	292713	
MW-3	09120602-02	Water	12/14/2009 3:15:00 PM	12/15/2009 9:00:00 AM	292713	
MW-4	09120602-03	Water	12/14/2009 2:50:00 PM	12/15/2009 9:00:00 AM	292712	
MW-1	09120602-04	Water	12/14/2009 3:30:00 PM	12/15/2009 9:00:00 AM	292712	
Duplicate	09120602-05	Water	12/14/2009 3:35:00 PM	12/15/2009 9:00:00 AM	292712	
Trip Blank	09120602-06	Water	12/14/2009 4:30:00 PM	12/15/2009 9:00:00 AM	292712	

& Oadenas 2

Erica Cardenas Project Manager 12/28/2009

Date

Kesavalu M. Bagawandoss Ph.D., J.D. Laboratory Director

> Ted Yen Quality Assurance Officer

> > 09120602 Page 2 12/28/2009 2:16:57 PM



HOUSTON LABORATORY 8880 INTERCHANGE DRIVE

HOUSTON, TX 77054

(713) 660-0901

Client Sample ID:MW	/-2		Colle	:ted: 12	2/14/2009	14:30	SPL Sam	ple II	D: 09120	0602-01
			Site:	Bloc	omfield, N	м				
Analyses/Method	Result	QUAL	Rep.	Limit	Dil	. Factor	Date Anal	yzed	Analyst	Seq. #
METALS BY METHO	D 6010B, DISSOLVED)		,	MCL	SV	V6010B	Uni	ts: mg/L	
Manganese	0.106			0.005		1	12/23/09	18:01	EG	5342391
Prep Method	Prep Date	Prep Initials	Prep Fa	actor					,	
SW3005A	12/15/2009 19:30	M_W	1.00							
TOTAL DISSOLVED	SOLIDS				MCL	SN	12540 C	Uni	ts: mg/L	
Total Dissolved Solids (Residue,Filterable)	764			10		1	12/15/09 ⁻	18:00	CFS	5330444
VOLATILE ORGANIC	S BY METHOD 8260	3			MCL	SV	V8260B	Uni	ts: ug/L	
Benzene	ND			1		1	12/19/09	8:13	JC	5335436
Ethylbenzene	ND			1		1	12/19/09	8:13	JC	5335436
Toluene	ND			1		1	12/19/09	8:13	JC	5335436
m,p-Xylene	· ND			1		1	12/19/09	8:13	JC	5335436
o-Xylene	ND			1		1	12/19/09	8:13	JC	5335436
Xylenes,Total	ND			1		1	12/19/09	8:13	JC	5335436
Surr: 1,2-Dichloroetha	ne-d4 106		% 7	0-130		1	12/19/09	8:13	JC	5335436
Surr: 4-Bromofluorobe	enzene 93.7		% 7	4-125		1	12/19/09	8:13	JC	5335436
Surr: Toluene-d8	97.1		% 8	2-118		1	12/19/09	18.13	JC	5335436

Qualifiers:

- ND/U Not Detected at the Reporting Limit B/V - Analyte detected in the associated Method Blank * - Surrogate Recovery Outside Advisable QC Limits
- Surroyale Recovery Outside Advisable QC Lin
- 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

> 09120602 Page 3 12/28/2009 2:17:06 PM



8880 INTERCHANGE DRIVE HOUSTON, TX 77054

(713) 660-0901

Client Sample ID:M	W-3			Col	lected: 1	2/14/2009	15:1	5 SPL Sar	nple l	D : 0912	0602-02
				Sit	e: Bloc	omfield, N	м				
Analyses/Method		Result	QUAL	R	ep.Limit	Dil	. Fact	or Date Ana	yzed	Analyst	Seq. #
METALS BY METHO	OD 6010B, DIS	SOLVED)			MCL		SW6010B	Ur	nits: mg/L	
Manganese		0.154			0.005		1	12/23/09	18:06	EG	5342392
Prep Method	Prep Date		Prep Initials	Prer	Factor						
SW3005A	12/15/2009 1	9:30	M_W	1.00				·			
TOTAL DISSOLVED	SOLIDS					MCL		SM2540 C	Ur	nits: mg/L	
Total Dissolved Solids (Residue, Filterable)		712			10		1	12/15/09	18:00	CFS	5330445
VOLATILE ORGANI	CS BY METHO	DD 8260E	3			MCL		SW8260B	Ur	its: ug/L	
Benzene		ND			1		1	12/19/09	18:41	JC	5335437
Ethylbenzene		· ND			1		1	12/19/09	18:41	JC	5335437
Toluene		ND			1		1	12/19/09	18:41	JC	5335437
m,p-Xylene	•	ND			1		1	12/19/09	18:41	JC	5335437
o-Xylene		ND			1	•	1	12/19/09	18:41	JC	5335437
Xylenes,Total		ND	•		1		1	12/19/09	18:41	JC	5335437
Surr: 1,2-Dichloroet	hane-d4	94.6		%	70-130		1	12/19/09	18:41	JC	5335437
Surr: 4-Bromofluoro	benzene	94.3		%	74-125		1	12/19/09	18:41	JC	5335437
Surr: Toluene-d8		96.0	· · · · ·	%	82-118		1	12/19/09	18:41	JC ·	5335437

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- $\ensuremath{\mathsf{B/\!V}}$ 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	-4		Colle	cted:	12/14/2009	14:50	SPL San	nple II	D: 0912	0602-03
· · · · · · · · · · · · · · · · · · ·			Site:	: Blo	oomfield, N	M				
Analyses/Method	Result	QUAL	Rep	.Limit	Dil.	Facto	r · Date Ana	lyzed	Analyst	Seq. #
METALS BY METHO	0 6010B, DISSOLVED	<u>`</u>			MCL	S	W6010B	Un	its: mg/L	
Manganese	0.283			0.005		1	12/23/09	18:11	EG	5342393
Prep Method	Prep Date	Prep Initial	s Prep F	actor						
SW3005A	12/15/2009 19:30	M_W	1.00							
TOTAL DISSOLVED S	SOLIDS		•		MCL	S	M2540 C	Un	its: mg/L	
Total Dissolved Solids (Residue,Filterable)	861			10		1	12/15/09	18:00	CFS	5330446
VOLATILE ORGANIC	S BY METHOD 8260B	3			MCL	S	W8260B	Uni	its: ug/L	
Benzene	ND			1		1	12/19/09	19:08	JC	5335438
Ethylbenzene	ND			1		1	12/19/09	19:08	JC	5335438
Toluene	ND			1		1	12/19/09	19:08	JC	5335438
m,p-Xylene	ND			1		1	12/19/09	19:08	JC	5335438
o-Xylene	ND			1		1	12/19/09	19:08	JC	5335438
Xylenes,Total	ND			1		1	12/19/09	19:08	JC	5335438
Surr: 1,2-Dichloroetha	ne-d4 104		% 7	70-130		1	12/19/09	19:08	JC	5335438
Surr: 4-Bromofluorobe	nzene 92.9		% 7	74-125		1	12/19/09	19:08	JC	5335438
Surr: Toluene-d8	97.7		% 8	32-118		1	12/19/09	19:08	JC	5335438

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

> 09120602 Page 5 12/28/2009 2:17:08 PM



8880 INTERCHANGE DRIVE HOUSTON, TX 77054

(713) 660-0901

Client Sample ID:MW-1				Col	lected:	12/14/200	9 15:3	0 SPL Sai	nple	D : 0912	0602-04
-				Sit	e: Blo	omfield,	NM				
Analyses/Method		Result	QUAL	R	ep.Limit)il. Fac	tor Date Ana	lyzed	Analyst	Seq. #
METALS BY METHO	DD 6010B, DISS	SOLVED)			MCL	······	SW6010B	Ur	its: mg/L	
Manganese		0.0539			0.005		1	12/23/09	18:15	EG	5342394
Prep Method	Prep Date		Prep Initials	Prep	Factor						
SW3005A	12/15/2009 19	:30	M_W	1.00							
TOTAL DISSOLVED	SOLIDS					MCL		SM2540 C	Ur	nits: mg/L	
Total Dissolved Solids (Residue, Filterable)		661			10			12/15/09	18:00	CFS	5330447
VOLATILE ORGANI	CS BY METHO	D 8260E	3			MCL		SW8260B	Ur	nits: ug/L	
Benzene		ND			1		1	12/19/09	19:35	JC	5335439
Ethylbenzene		ND.			1		1	12/19/09	19:35	JC .	5335439
Toluene		ND			1		1	12/19/09	19:35	JC	5335439
m,p-Xylene		ND	·······		1		· 1	12/19/09	19:35	JC	5335439
o-Xylene	· · ·	ND			1		1	12/19/09	19:35	JC	5335439
Xylenes,Total	•	ND			1		1	12/19/09	19:35	JC	5335439
Surr: 1,2-Dichloroet	hane-d4	96.9	2	%	70-130		1	12/19/09	19:35	JC	5335439
Surr: 4-Bromofluoro	benzene	95.2		%	74-125		· 1	12/19/09	19:35	JC	5335439
Surr: Toluene-d8		96.7		%	82-118		1	12/19/09	19:35	JC	5335439

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: Duplicate		Coll	ected: 12	2/14/2009 15:35	SPL Sample ID: 09120602-05				
			Sit	e: Bloc	omfield, NM				
Analyses/Method	Result	QUAL	Re	p.Limit	Dil. Facto	r Date Anal	yzed	Analyst	Seq. #
VOLATILE ORGANICS BY MET	HOD 8260B				MCL S	W8260B	Un	its: ug/L	
Benzene	ND			1	. 1	12/19/09 2	20:03	JC	5335440
Ethylbenzene	ND			1	1	12/19/09 2	20:03	JC	5335440
Toluene	ND			1	1	12/19/09 2	20:03	JC	5335440
m,p-Xylene	ND			1	1	12/19/09	20:03	JC	5335440
o-Xylene	ND			1	1	12/19/09 2	20:03	JC	5335440
Xylenes,Total	ND			1	1	12/19/09 2	20:03	JC	5335440
Surr: 1,2-Dichloroethane-d4	99.5		%	70-130	1	12/19/09 2	20:03	JC	5335440
Surr: 4-Bromofluorobenzene	92.5		%	74-125	1	12/19/09 2	20:03	JC	5335440
Surr: Toluene-d8	95.0		%	82-118	· 1	12/19/09 2	20:03	JC	5335440

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: 12/14/2009 16:30

SPL Sample ID: 09120602-06

			Sit	e: Bloc	omfield	, NM				
Analyses/Method	Result	QUAL	Re	p.Limit		Dil. Factor	Date Analy	/zed	Analyst	Seq. #
VOLATILE ORGANICS BY MET	HOD 8260B				MCL	. S	W8260B	Un	its: ug/L	
Benzene	ND			1		1	12/19/09 2	0:30	JC	5335441
Ethylbenzene	ND			1		1	12/19/09 2	0:30	JC	5335441
Toluene	ND			1		1	12/19/09 2	0:30	JC	5335441
m,p-Xylene	ND			1		1	12/19/09 2	0:30	JC	5335441
o-Xylene	ND			1		1	12/19/09 2	0:30	JC	5335441
Xylenes,Total	ND	•		1		1	12/19/09 2	0:30	JC	5335441
Surr: 1,2-Dichloroethane-d4	104		%	70-130		1	12/19/09 2	0:30	JC	5335441
Surr: 4-Bromofluorobenzene	92.7		%	74-125		1	12/19/09 2	0:30	JC	5335441
Surr: Toluene-d8	97.3		%	82-118		1	12/19/09 2	0:30	JC	5335441

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

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Quality Control Report

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

Conoco Phillips

Analysis: Method:	Metals by Method SW6010B	6010B, Dissol	ved					WorkOrder Lab Batch	: 091 D: 964	20602 150		
	Me	thod Blank				Samples	in Analytical	Batch:				
RunID: ICP2_0912	23B-5342380	Units:	mg/L			Lab Sam	ple ID	Clier	nt Sample II)		
Analysis Date:	12/23/2009 17:09	Analyst:	EG			09120602	2-01C	MW-	2	-		
Preparation Date:	12/15/2009 19:30	Prep By:	M_ N	Method SW3	3005A	09120602	2-02C	MW-	3			
						09120602	2-03C	MW-	4			
	Analyte		Result	Ren Limit		09120602	2-04C	MW-	1			
Mangar	nese		ND	0.005								
					-							
			La	aboratory Co	ontrol Sam	le (LCS)	<u></u>		•			
	Runif	D:	ICP2_091	223B-534238	1 Units:	mˈɡ/L						
	Analy	sis Date:	12/23/20	09 17:13	Analyst	: ÉĞ						
	Prepa	aration Date:	12/15/20	09 19:30	Prep B	/: M_	Method SW3	3005A				
		Analy	te	5	Spike Re	sult P	Percent Lov	wer Uppe	r			
		•		. A	\dded	R	ecovery Li	mit Limi	t j			
	Mangan	ese			1.000	.033	103.3	80 1	20			
• • • •		Matrix	Spike (N	/IS) / Matrix	Spike Dupli	cate (MS	<u>5D)</u>					
	San	nle Sniked	091206	305-03								
•	Rur	ID:	ICP2 0	91223B-53423	383 Units	ma	A.					
	Ana	lysis Date:	12/23/2	2009 17:23	Analy	st: EG	- -					
	Pre	paration Date:	12/15/2	2009 19:30	Prep	By: M_	Method SV	V3005A				
			•									
Ana	lyte	Sample	MS	MS	MS %	MSD	MSD	MSD %	RPD	RPD	Low	High
		Result	Spike	Result	Recovery	Spike	Result	Recovery		Limit	Limit	Limit
			Added		1	Muueu		-			,	
Manganese		2.395	1	3.347	95.20	1	3.397	100.2	1.483	20	75	125
								•				

Qualifiers: ND/U - Not Detected at the Reporting Limit

B - 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

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.

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Surr: Toluene-d8

Quality Control Report

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

HOUSTON LABORATORY

Conoco Phillips COP Shep Kelsey1E

Analysis: Method:	Volatile Organics by SW8260B	/ Method 820	60 B			WorkOrder: Lab Batch ID:	09120602 R291807
	Met	hod Blank			Samples in Anal	ytical Batch:	· · · · ·
RunID: Q_091	1219A-5335426	Units:	ug/L		Lab Sample ID	Client Sa	nple ID
Analysis Date:	12/19/2009 13:46	Analyst:	JC		09120602-01A	MW-2	
•		-			09120602-02A	MW-3	
					09120602-03A	MW-4	
					09120602-04A	MW-1	
	Analyte		Result	Rep Limit	09120602-05A	Duplicate	
Be	enzene		ND	1.0	00 120002 00,1	Z dphoddo	
Eti	hylbenzene		ND	1.0	09120602-06A	l rip Blank	
Ta	bluene		ND	1.0			
m,	p-Xylene		ND	1.0			
0-)	Xylene		ND	1.0			
Xv	lenes.Total		ND	1.0			
	Surr: 1,2-Dichloroethane-d4		95.7	70-130			
	Surr: 4-Bromofluorobenzene		93 7	74-125			

ī	aboratory	Control	Sample	(1 CS)
_		CONTROL	Janubie	(LUS)

RuniD	Q_091219A-5335425	Units:	ug/L
Analysis Date:	12/19/2009 13:20	Analyst:	JC

82-118

96.9

Analyte	Spike	Result	Percent	Lower	Upper
-	Added		Recovery	Limit	Limit
Benzene	20.0	18.3	91.6	74	123
Ethylbenzene	20.0	18.0	89.8	72	127
Toluene	20.0	18.1	90.4	74	126
n,p-Xylene	40.0	36.8	92.0	71	129
-Xylene	.20.0	18.7	93.4	74	130
Xylenes,Total	60.0	55.5	92.5	71	130
Surr: 1,2-Dichloroethane-d4	50.0	48.4	96.8	70	130
Surr: 4-Bromofluorobenzene	50.0	50.7	101	74	125
Surr: Toluene-d8	50.0	47.5	94.9	82	118

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

Sample Spiked: RunID: Analysis Date: 09120620-06 Q_091219A-5335431 12/19/2009 15:59

Units: ug/L Analyst: JC

Qualifiers: ND/U - Not Detected at the Reporting Limit

B - 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

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.

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Quality Control Report

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

Conoco Phillips COP Shep Kelsey1E

Analysis: Method:	Volatile Organic SW8260B	s by Method 826	0B		· .			WorkOrder: Lab Batch I	: 091 D: R29	20602 91807		•
	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	17.3	86.4	20	17.8	88.9	2.77	22	70	124
Ethylbenzene		ND	20	17.1	85.4	20	16.4	81.8	4.32	20	76	122
Toluene		ND	20	17.2	86.0	20	17.9	89.5	4.03	24	80	117
m,p-Xylene	······································	ND	40	34.9	87.2	40	35.1	87.7	0.595	20	69	127
o-Xylene		ND	20	18.6	93.1	20	19.0	94.9	1.89	20	84	114
Xylenes,Total		ND	60	53.5	89.2	60	54.1	90.1	1.05	20	69	127
Surr: 1,2-Dich	loroethane-d4	ND	50	49.2	98.4	50	49.6	99.3	0.842	30	70	130
Surr: 4-Bromo	ofluorobenzene	ND	50	51.1	102	50	51.1	102	0.0606	30	74	125
Surr: Toluene	-d8	ND	50	48.4	96.7	50	48.0	96.1	0.699	30	82	118

Qualifiers: ND/U - Not Detected at the Reporting Limit

B - 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.

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Quality Control Report

HOUSTON LABORATORY 8880 INTERCHANGE DRIVE HOUSTON, TX 77054

(713) 660-0901

Conoco Phillips COP Shep Kelsey1E

Analysis: Method:	Total Dissolved So SM2540 C	lids				V	VorkOrder: .ab Batch ID:	0912060 R29151)2 4
	<u>Me</u>	thod Blank			Samples in	Analytical B	atch:		
RunID: WE Anatysis Date	T_091215N-5330436 12/15/2009 18:00 Analyte Total Dissolved Solids (Residu	Units: Analyst: · ue,Filterable)	mg/L CFS Result Rep Limit ND 10		Lab Sample 09120602-0 09120602-0 09120602-0 09120602-0	<u>e ID</u> 1B 2B 3B 4B	<u>Client 5</u> MW-2 MW-3 MW-4 MW-1	Sample ID	
	Labora	tory Control Sa	ample/Laboratory	Control San	ple Duplica	ite (LCS/LCS	<u>D)</u>	·····	
	RunID: Analysis Da	WET_0 te: 12/15/2	091215N-5330438 2009 18:00	Units: m Analyst: C	ng/L FS			÷	·
	Analyte	LCS LC Spike Res Added	S LCS sult Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Lower Limit Limit	Upper Limit
Total Dissolve	d Solids (Residue, Filterabl	200.0 1	199.0 99.50	200.0	202.0	101.0	1.5	10 95	107
	Ar	naiysis Date:	12/15/2009 18:0						
·		А :	Analyte	Result	Result	RPD	Limit		
		otal Dissolved So	olids (Residue,Filte	rabl 68	6 688	0.291	10		
	· ·								
Qualifiers:	ND/U - Not Detected at th B - Analyte Detected In Th J - Estimated Value Betwe E - Estimated Value excee	e Reporting Limi ne Associated M een MDL And PC eds calibration ci	it lethod Blank QL urve	MI - I - D - F * - Re	Matrix Interfe ecovery Unr ecovery Outs	erence eportable due side Advisable	to Dilution 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

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.

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

Sample Receipt Checklist

Workorder: 09120602		Received By:	RE
Temperature: 1.8°C		Carrier name: Chilled by:	Water Ice
1. Shipping container/cooler in good condition?	Yes 🔽	No 🗌	Not Present
2. Custody seals intact on shippping container/cooler?	Yes 🔽	No 🗌	Not Present
3. Custody seals intact on sample bottles?	Yes	No	Not Present
4. Chain of custody present?	Yes 🗹	No	
5. Chain of custody signed when relinquished and received?	Yes 🔽	No	
6. Chain of custody agrees with sample labels?	Yes 🗹	No 🗌	
7. Samples in proper container/bottle?	Yes 🗹	No 🗌	
8. Sample containers intact?	Yes 🔽	Νό	•
9. Sufficient sample volume for indicated test?	Yes 🗹	No	
10. All samples received within holding time?	Yes 🗹	Νο	
11. Container/Temp Blank temperature in compliance?	Yes 🗹	No 🗌	
12. Water - VOA vials have zero headspace?	Yes 🗌		/ials Not Present
13. Water - Preservation checked upon receipt (except VOA*)?	Yes	Νο	Not Applicable
*VOA Preservation Checked After Sample Analysis		·	
SPL Representative:	Contact Date &	& Time:	
Non Conformance Issues:			
Client Instructions:			
L <u> </u>			

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ds	l. Inc											ן ג ג ג]	
Analysis Request &	Chain of Custody Record	ŗ					60	120	06	NO	page	-	Jo	
Client Name: Teha. Tech O	oilling and	2		matrix L	bottle	size p	12	-	28	Requ	lested	Anal	ysis	
Address: 6121 Inclian 5ch	pl kd ste	200		atio=A A=ai €othe	191 182	le			-			<u> </u>		
City HIDUALANC	Nate NIT	27.06.5		=X lio:	=oth dio=	і 19Ц1сі 21Л=(<u> </u>				
Client Contact: Kolly Blocham	Email: Kolly	a provinuly	Heha-ha	10016 0=	I X Inder	201 0=X 0t	per her	1010	W		<u></u>		<u> </u>	
Project Name/No.:			۶ ۲	soil soil	eiv= r	200 20 1	10=	21110	P					
Site Name: Shenherd & Kel	Sev IE			=S =S	Λ	. <u>.</u> 91=9 =7	X 1		201					
Site Location: Bloomheld, N	W.			gbu Toter	stic	<u>י</u> פנ ונג	70ş		p9	9	<u></u> ,			
Invoice To: Concrophyline		J.		[S=" ?M= 	elg= sla	<u>л</u> 208	SZH		5%	T		•		
SAMPLE ID F	DATE	TIME	comp grat	TS M	Ð b=	-1 =8 =1	=£			L				
2~MM	12.14.09	1430	×	3	ے ا	С, С	-	$\frac{3}{X}$						
2- MW	12.14.09	1430	·×	3	0	32		2	\times	×				
€-MW	121)4.09	1515	\times	3	>	d D		л Х						
5- MM	12114.09	1515	×		P -	32			×	×				
H-MM	P0.11.51	14.50	×	3	7	40	_	\times						
MW-4	12.14.09	1460	×	3	A	32		2	×	×			,	
1- MW	12.14.09	1530	×	3	>	3		3 X						
1-mm	12-14-09	530	×	3	9	K		2	\times	×				
Duplicate	12114.09	1535	×	3	>	40		\times						
Trip Blank	12. 14.09	1630		3	>	₽	-	\times						
Client/Consultant Remarks:		Laborato	ry remarks:								Inta Ice?	ct?		Z
Place Dreenessample. metal	6 container bet	acanalysis									Tem	0:/`.d	ן זע	Z T
Requested TAT Special	Reporting Requiremen	ts Results: ^{Fax}	L Email		<u>کم</u> ۲	cial Dete	ction L	imits (s ₎	pecify):			M	review (in	itial):
1 Business Day Contract Standard	1 OC Level 3 QC	Level 4 QC TX 1	TRRP 🔲 LA	RECAP										
2 Business Days Standard 1.	MA DURN	all we	date	-H-2	A ^{tim}	645	1-1- 	eceived	by:	•				
3. Business Days	quished by:		date		time		4. H	eceived	by:					
Other S. Relin S. Relin Rush TAT requires prior notice	quished by:		(Jair	11109		2401	0. H	received	by Lah	oratory	A			
1 8880 Interchange Drive Houston, TX 77054 (713) 660-0	901	Scott, LA	assador C 70583 (33	affery F 7) 237-4	arkwa. 1775	_		L L	averse		9 Hugh MI 4968	es Dri 86 (23	ve 1) 947-57	<u> </u>

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