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QUARTERLY GWMR

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QUARTERLY GROUNDWATER MONITORING REPORT JUNE 2009 SAMPLING EVENT

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CONOCOPHILLIPS COMPANY EL PASO I A API No. 30-045-22778 BLANCO, NEW MEXICO

Prepared for:

ConocoPhillips

420 South Keeler Avenue Bartlesville, OK 74004

Prepared by:



TETRA TECH, INC.

6121 Indian School Rd. NE Suite 200 Albuquerque, NM 87110 Tetra Tech Project No. 96900122.100

August 7, 2009

Quarterly Groundwater Monitoring Report El Paso No. 1A, Blanco, New Mexico

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Quarterly Groundwater Monitoring Report El Paso No. 1A, Blanco, New Mexico

QUARTERLY GROUNDWATER MONITORING REPORT CONOCOPHILLIPS COMPANY EL PASO IA, BLANCO, NEW MEXICO

1.0 INTRODUCTION

This report presents the results of quarterly groundwater monitoring completed by Tetra Tech, Inc. (Tetra Tech) on June 18, 2009 at the ConocoPhillips Company El Paso 1A site in Blanco, New Mexico (Site). This event represents the third quarter of groundwater sampling conducted by Tetra Tech at the Site.

The Site is located east of Blanco, NM near the intersection of New Mexico Highway 64 and County Road 4450 in Section 29, Township 29 North, Range 11 West. The Site can be reached by turning right on County Road 4450 and traveling for approximately 300 feet before taking another right and continuing for 0.1 mile, finally turning left toward Canyon Largo and continuing 0.4 miles to the Site. The Site consists of two gas production wells; well head IS and well head IA and associated equipment and installations. The location and general features of the Site are shown on **Figures 1** and **2**, respectively.

I.I Site History

The history of the Site is outlined in **Table 1**.

2.0 METHODOLOGY AND RESULTS

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

2.1 Monitoring Summary

Groundwater samples were collected from monitor wells MW-1, MW-2, MW-3, and MW-4 on June 18, 2009. Prior to sampling, depth to groundwater was measured in all monitor wells. A groundwater contour map, showing a general flow direction to the west, is provided in **Figure 3**. Groundwater elevation data is included in **Table 2**.

2.2 Groundwater Monitoring Methodology

Approximately 3 casing volumes were purged from each monitor well prior to sampling or until measured groundwater parameters such as temperature, pH, conductivity, total dissolved solids (TDS), oxidation-reduction potential (ORP) and dissolved oxygen (DO), had stabilized. Groundwater parameters were collected using a YSI 556 multi-parameter sonde. Observed parameters for each well were recorded on a Tetra Tech Water Sampling Field Form which is included as **Appendix A**.

Quarterly Groundwater Monitoring Report El Paso No. 1A, Blanco, New Mexico

All purged groundwater was contained in a plastic 5 gallon container and disposed of in the Site waste water tank (**Figure 2**). A 1.5-inch dedicated bailer was used to purge and collect groundwater samples. The samples were then 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 benzene, toluene, ethylbenzene, and xylenes (BTEX) by Environmental Protection Agency (EPA) Method 8260B, ion chromatography by EPA Method E300.0, and metals including mercury by EPA Methods 7470A, 6010B, 6020A.

2.3 Groundwater Sampling Analytical Results

The June 2009 analysis of the collected groundwater samples indicates that all BTEX constituents are below New Mexico Water Quality Control Commission (NMWQCC) groundwater quality standards. Groundwater laboratory analytical results are summarized in **Table 3**. Fluoride concentrations of 2.04 milligrams per liter (mg/L), 1.68 mg/L, and 2.25 mg/L were found in monitor wells MW-1, MW-3 and MW-4, respectively. These are above the NMWQCC standard of 1.6 mg/L for fluoride. MW-4 had an aluminum concentration of slightly above the NMWQCC standard for aluminum. Sulfate, manganese and iron concentrations are above NMWQCC standards in all four Site monitor wells. The groundwater laboratory analytical report is presented in **Appendix B**.

3.0 CONCLUSIONS

Tetra Tech recommends continued quarterly groundwater sampling at the Site in order to provide sufficient data for Site closure. Site closure will be requested when groundwater quality results indicate that all constituents of concern are consistently below NMWQCC groundwater quality standards or have reached Site-specific background levels. Please contact Kelly Blanchard at 505-237-8440 or kelly.blanchard@tetratech.com if you have any questions or require additional information.

FIGURES

Site Location Map
 Site Layout Map
 Groundwater Elevation Contour Map







TABLES

Site History Timeline
 Groundwater Elevation Data Summary
 Groundwater Laboratory Analytical Results Summary

Table 1. Site History	Timeline - ConocoPhillips El Paso 1A
DATE	ACTIVITY
Feb-07	Hydrocarbon-impacted soils discovered during trench work being conducted for a new flowline. Original source of contamination is unknown.
Feb-07	Contaminated soil excavated from the Site. Soil samples collected and analyzed for benzene, toluene, ethylbenzene and total xylenes (BTEX) were below NMOCD regulations.
21-Sep-07	Ground water monitoring well installed to a depth of ten (10) 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.
21-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.
27-Sep-07	Depth to groundwater measured at seven (7) feet bgs.
Sep-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 ameeting with Glenn Von Gonten
25-Oct-08	1st quarter sampling of MW-1 by Tetra Tech
Jan-09	Attempt to install additional monitoring wells; roads not accessable by drill rig due to winter weathen conditions.
28-Jan-09	2nd quarter groundwater sampling of MW-1 by Tetra Tech. Groundwater samples were lost by Southern Petroleum Laboratory. No data was received from January sampling.
3-4-March-09	Monitoring wells MW-2, MW-3, MW-3 installed and developed by WDC overseen by Tetra Tech. Soil samples were collected from MW-3 and MW-2 boring locations.
2-Apr-09	3rd quarter groundwater sampling conducted by Tetra Tech. First quarter of sampling to include all 4 monitoring wells. A baseline suite was collected for MW-1, MW-2, MW-3 and MW-4.
18-Jun-09	2nd quarter groundwater sampling conducted by Tetra Tech to include wells MW-1, MW-2, MW-3 and MW-4.

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Tetra Tech

1 of 1

Relative Groundwater Elevation 89.19 92.52 88.60 90.23 88.43 88.50 88.54 88.87 90.01 88.47 I Depth to Groundwater (ft below 10.33 10.65 10.92 10C) 7.00 8.49 9.75 9.78 ΣZ 8.71 9.74 9.71 Measured 10/25/2008 6/18/2009 1/30/2009 6/18/2009 6/18/2009 9/21/2007 4/2/2009 6/18/2009 4/2/2009 4/2/2009 4/2/2009 Date *Elevation (ft) (TOC) 98.175 99.52 98.72 98.28 Interval (ft) 2.9-17.9 Screen 4'8"-9'8" 3.1-18.1 3-17.9 **Total Depth** (ft bgs) 13.35 21.10 20.74 20.82 Well ID MW-3 MW-1 MW-2 MW-4

Table 2. Groundwater Elevation Data Summary - ConocoPhillips El Paso 1A

ft = Feet

TOC = Top of casing

bgs = below ground surface

* Elevation relative to wellhead

NS = Not Sampled (quarters not sampled were due to a change in consulting responsibilities from Lodestar LLC to Tetra Tech Inc.)

NM = Not Measured

Table 3. Groundwater Laboratory Analytical Results Summary - Conocornilips El Paso 1A								
<u>Constituent</u>			Gr	oundwate				
							NMWQCC Ground Water	
lons	Method	<u>Units</u>	<u>MW-1</u>	<u>MW-2</u>	<u>MW-3</u>	<u>MW-4</u>	Quality Standard	
Fluoride	E300.0	mg/L	2.04	0.67	1.68	2.25	1.6	
Sulfate	E300.0	mg/L	7,970	17,000	5,750	5,300	600	
							NMWQCC Ground Water	
Metals, Total	Method	<u>Units</u>					Quality Standard	
Mercury	SW7470A	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	0.002	
Aluminum	SW6010B	mg/L	2.1 ·	1.49	3.75	5.52	5	
Boron	SW6010B	mg/L	0.439	0.494	0.417	0.463	0.75	
Calcium	SW6010B	mg/L	147	270	65.7	62.9	NE	
Iron	SW6010B	mg/L	7.66	1.23	5.3	6.91	1.0	
Magnesium	SW6010B	mg/L	30.8	85.9	21.3	13.5	NE	
Potassium	SW6010B	mg/L	11.2	27.2	10.3	9.42	NE	
Sodium	SW6010B	mg/L	3390	6490	2530	2570	NE	
Strontium	SW6010B	mg/L	7.34	23.3	4.92	4.54	NE	
Tin	SW6010B	mg/L	<0.005	<0.005	<0.005	<0.005	NE	
Antimony	SW6020A	mg/L	<0.005	<0.005	<0.005	<0.005	NE	
Arsenic	SW6020A	mg/L	<0.005	<0.005	0.015	<0.005	0.1	
Barium	SW6020A	mg/L	0.019	0.0408	0.0481	0.0261	1.0	
Beryllium	SW6020A	mg/L	<0.004	<0.004	< 0.004	<0.004	NE	
Cadmium	SW6020A	mg/L	<0.005	<0.005	<0.005	<0.005	0.01	
Chromium	SW6020A	mg/L	<0.005	<0.005	<0.005	0.00829	0.05	
Cobalt	SW6020A	mg/L	<0.005	0.00518	<0.005	<0.005	0.05	
Copper	SW6020A	mg/L	<0.025	<0.025	<0.025	<0.025	1.0	
Lead	SW6020A	mg/L	<0.005	<0.005	<0.005	<0.005	0.05	
Manganese	SW6020A	mg/L	3.06	1.92	0.454	0.333	0.2	
Molybdenum	SW6020A	mg/L	0.01	0.018	<0.01	<0.01	1.0	
Nickel	SW6020A	mg/L	<0.005	0.00641	<0.005	<0.005	0.2	
Selenium	SW6020A	mg/L	<0.025	<0.025	<0.025	<0.025	0.05	
Silver	SW6020A	mg/L	<0.005	<0.005	<0.005	<0.005	0.05	
Thallium	SW6020A	mg/L	<0.005	<0.005	<0.005	<0.005	NE	
Vanadium	SW6020A	mg/L	0.0066	0.00636	0.0127	0.00985	NE	
Zinc	SW6020A	mg/L	0.056	0.134	0.0681	0.0703	10	
							NMWQCC Ground Water	
VOCs (detections and BTEX only)	Method	Units					Quality Standard	
Benzene	8260B	μg/L	<5	<5	<5	<5	10	
Toluene	8260B	μg/L	<5	<5	<5	<5	750	
Ethylbenzene	8260B	μg/L	<5	<5	15	<5	750	
Total Xylenes	8260B	μĝ/L	<5	<5	87	<5	620	

 Notes:

 MW = monitoring well

 NMWQCC = New Mexico Water Quality Control Commission

 VOCs = volatile organic compounds

 mg/L = milligrams per liter

 µg/L = micrograms per liter

 NE = not established

.

APPENDIX A

GROUNDWATER SAMPLING FIELD FORMS

Tt	WATER S	SAMPLING F	IELD FO	RM		, 1			
Project No. El Paso	IA				of	4			
Site Location Banco, M	im								
Site/Well No. MW- 2	Coded/ Replicate No.	· · · · · · · · · · · · · · · · · · ·	Date	6/18	109				
Weather Sunny, 75	Time Sampling	50	Time Sam Complete	npling d(900				
EVACUATION DATA									
Description of Measuring Pt (MP)			. <u></u>						
Height of MP Above/Below Land S	urface	MP Elevation	<u> </u>						
Total Sounded Depth of Well Below	VMP 20.75	Water-Level Ele	evation						
Held Depth to Wat	er Below MP <u>{</u> . <u></u>	Diameter of Ca	sing d/Reiled	2 inch y 4 ir	1ch				
Wet Water Co	11umn in Well 12.04	Prior to Samplin	ng		#				
Gal	ons per Foot 0.19	Sampling Pumr	Intake						
Ga	allons in Well <u>192 V 7</u>	(feet below land	i surface)	. <u> </u>					
Purging Equipment	= 5.74					·			
Time Temporatura	SAMPLING DATA/Fi					Other			
857 14.70	8.07 21990	14.29	3.20	33.6	171.6				
900 14,28	9.07 2.2609	14.70	2.78	28.9	142.				
40.3 67.30	8.07 25533	13.10	12.10		1<7.8				
Sampling Equipment	Low Flow Pump Disposable E	Batler							
Constituents Sampled	Container De	scription		Prese	ervative				
BTEX	3 VOAS	- 	(H(<u> </u>					
Intal Motals	1-32-02	plastic	<u>Hr</u>	103					
- Flouride, Sulfate	1-32 6:4	plastic	nor	l					
	-	-							
Remarks		· · · · · · · · · · · · · · · · · · ·							
Sampling Personnel									
	Well Cas	ing Volumes							
Gai./ft. 1	$\frac{1}{4}^{\alpha} = 0.077$ $2^{\alpha} = 0.72$	(6 3 ^a =	0.37	4" = 0.65	;				
1	1/2" = 0.10 2 1/2" = 0.2	24 3" ½ =	0.50	6" = 1.46	5				
L									

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Tt		١	WATER SA		ELD FO	RM		. 1	
Project No.	FlPaso	IA				V	of	2	
Site Location	Blanco	NM						,	
Site/Well No.	MW-	Codec Replic	l∕ ate No.		Date	615	109		
Weather	Stenar 20	Time :	Sampling	<	Time Sam		615		
Waula	<u></u>	Degai	EVACUATIO		Completer	·_/_	[<i>_</i>		
Description o	f Measuring Pt (MP)								
Height of MP	Above/Below Land Sur	face		MP Elevation	<u> </u>			·	
Total Sounde	d Depth of Well Below	MP 3	.58	Water-Level Elev	ration				
Held	Depth to Water		.65	Diameter of Casi	ng	2 inch / 4 in	ch		
Wet	Water Colu	umn in Well 2	.93	Gallons Pumped Prior to Sampling	/Bailed I				
	Gallo	ns per Foot	0.16	D					
	Gall	ons in Well D, L	17×3	(feet below land	intake surface)	.			
Purging Equi	pment	ť.	1.41						
	ەر	SAMPLI	A SICA NG DATAFIEL	D PARAMETERS	<u>}</u>				
	Temperature		Conductivity	TDS glu	DO JYC	D0%	ORP	Other	
Uniz	14.00	<u>, со</u>	13353	X.10.79	3.12	22.9	~7(4.7		
		· · · · · · · · · · · · · · · · · · ·							
					.				
Sampling Equ	uipment	Low Flow Pump /	Disposable Bai	ler					
Const	ituents Sampled	2	Container Desc	ription		Prese	<u>rvative</u>		
BTER		<u></u>	40 ml VC	143		<u>HCI</u>			
_FIS	<u> 0:,</u>		<u>3207 pl</u>	astra	¥			·	
Mih1	٠ <u>٢</u>	<u> </u>	3207 pl	laskz	/	<u>UUz</u>	····-		
Remarks [All Smells like manue It are no sheen									
Sampling Per	rsonnel	······			71.				
				· · · · · · · · · · · · · · · · · · ·					
	· ·		Well Casing	l Volumes		- 4		-	
	Gai./ft. 1 1/4	" = 0.077 " = 0.10	2'' = 0.16 $2^{1/2} = 0.24$	3" = 3"14 -	0.37 0.50	4'' = 0.65 6'' = 1.48			
			272 - 0.24	J 72 -					

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TE	WATER SAMPLING F									
Project No. El Paso IA		<u>3</u> or <u>1</u>								
Site Location Rlance, NM		J								
Site/Well No. MW- 4	Coded/ Replicate No.	Date								
Weather hot, Sunny 80°	Time Sampling Began0935	Time Sampling Completed 0945								
EVACUATION DATA										
Description of Measuring Pt (MP)										
Height of MP Above/Below Land Surface	MP Elevation									
Total Sounded Depth of Well Below MP	20.86 Water-Level E	levation								
Held Depth to Water Below MP	9.78 Diameter of Callons Purpo	asing 2 inch/4 inch								
Wet Water Column in Well	Prior to Sampl	Ing5.5								
Gallons per Foot 0.16										
Gallons in Well <u>1.77 x 3</u> (feet below land surface)										
Purging Equipment	= 5.31									
S	AMPLING DATA/FIELD PARAMETE	RS								
Time Temperature pH	Conductivity TDS	5.12 + 46.6 + 87.0								
94 14.91 8.3	8 9005 5.854	3.82 37.8 -85.4								
444 4.67 8.3	7 8992 55645	7.86 28.6 -83.0								
Sampling Equipment Low Flow	Pump+Disposable Baller									
Constituents Sampled	Container Description	Preservative								
BTEX	3 NOAS	HC								
Total metals	1-3202 plastic	HN03								
Flouride, Sulfate	ц	none								
Remarks										
	Well Casing Volumes									
Gal./ft. 1 ¼" = 0.077	7 2" = 0.16 3" =	= 0.37 4" = 0.65								
1 ½" = 0.10	2 ½" = 0.24 3" ½ =	= 0.50 6" = 1.46								
a										

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TE WATE								
Project No. FI Paso IA	of							
Site Location Bbunco, NM								
Site/Well No. <u>MW-</u> Coded/ Replicate No.	Date 61809							
Weather <u>hast ()</u> Time Sampling Began	09.55 Time Sampling Completed 1015							
EVACU	JATION DATA duplicate @ 1000							
Description of Measuring Pt (MP)								
Height of MP Above/Below Land Surface	MP Elevation							
Total Sounded Depth of Well Below MP	Water-Level Elevation							
Heid Depth to Water Below MP	Diameter of Casing							
Wet Water Column in Well	Prior to Sampling							
Gallons per Foot 0.16	Canaling Burnin Intoles							
Gallons in Well 182×3	(feet below land surface)							
Purging Equipment $= 5.4$	6							
SAMPLING DAT	A/FIELD PARAMETERS							
Time Temperature pH Condu	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$							
1004 13.87 8.54 96	34 6 292 3.42 32.9 -181.5							
1007 15.83 8.60 97	63 6.349 7.99 28.6 -143.1							
Sampling Equipment Low Flow Pump //Disposal	ble Baller							
Constituents Sampled Containe	r Description Preservative							
RTEX 2 VI	H(D							
Total Metals 1-3.	202. plastic HNU3							
Flouride, Sulfates	u none							
Remarks <u>Gray whor; stong sulturic oder</u> Sampling Personnel <u>GD</u> , AM								
Well	Casing Volumes							
Gal./ft. $1 \frac{1}{2}$ " = 0.077 2^{n} = 1 $\frac{1}{2}$ " = 0.10 $2\frac{1}{2}$ " =	= 0.16 3" = 0.37 4" = 0.65 = 0.24 3" ½ = 0.50 6" = 1.46							

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APPENDIX B

GROUNDWATER LABORATORY ANALYTICAL REPORT



Conoco Phillips

Certificate of Analysis Number: 09061075									
Report To:	Project Name: COP ElPaso1A								
Tetra Tech, Inc.	Site: Blanco,NM								
Kelly Blanchard	Site Address:								
6121 Indian School Road, N.E.									
Suite 200	PO Number								
Albuquerque									
ŃM	State: New Mexico								
87110-	State Cert. No.:								
ph: (505) 237-8440 fax:	Date Reported: 7/5/2009								

This Report Contains A Total Of 29 Pages

Excluding This Page, Chain Of Custody

And

Any Attachments

7/6/2009

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

Date



Case Narrative for: Conoco Phillips

Certificate of Analysis Number:

09061075

Report To:	Project Name: COP ElPaso1A
Tetra Tech, Inc.	Site: Blanco,NM
Kelly Blanchard	Site Address:
6121 Indian School Road, N.E.	
Suite 200	BO Number
Albuquerque	<u>ro number.</u>
NM	State: New Mexico
87110-	State Cert. No.:
ph: (505) 237-8440 fax:	Date Reported: 7/5/2009

I. SAMPLE RECEIPT:

Upon receipt of your samples, the lab received a set of trip blanks not listed on the chain.

II: ANALYSES AND EXCEPTIONS:

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.

III. CERTIFICATION:

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.

IV. 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.

In Cardenas

09061075 Page 1 7/6/2009

Erica Cardenas Project Manager



Conoco Phillips Certificate of Analysis Number:

09061075 COP ElPaso1A Report To: Tetra Tech, Inc. Project Name: Kelly Blanchard Site: Blanco,NM 6121 Indian School Road, N.E. Site Address: Suite 200 Albuquerque NM PO Number: 87110-State: **New Mexico** ph: (505) 237-8440 fax: (505) 881-3283 State Cert. No .: Fax To: 7/5/2009 **Date Reported:**

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
MW-1	09061075-01	Water	6/18/2009 9:20:00 AM	6/19/2009 9:30:00 AM	327822	
MW-2	09061075-02	Water	6/18/2009 9:00:00 AM	6/19/2009 9:30:00 AM		
MW-3	09061075-03	Water	6/18/2009 10:15:00 AM	6/19/2009 9:30:00 AM		
MW-4	09061075-04	Water	6/18/2009 9:35:00 AM	6/19/2009 9:30:00 AM		
Duplicate	09061075-05	Water	6/18/2009 10:00:00 AM	6/19/2009 9:30:00 AM		
Trip Blank (SPL)	09061075-06	Water	6/17/2009	6/19/2009 9:30:00 AM		

- Ch Cardenas

Erica Cardenas Project Manager

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

> > Ted Yen Quality Assurance Officer

7/6/2009

Date

09061075 Page 2 7/6/2009 4:34:17 PM



8880 INTERCHANGE DRIVE HOUSTON, TX 77054

(713) 660-0901

Client Sample ID:MW	/-1		Collected:	06/18/200	09 9:20	SPL Samp	ie ID: 0906	51075-01
			Site: Bla	anco,NM				
Analyses/Method	Result	QUAL	Rep.Limit		Dil. Facto	or Date Analyz	ed Analyst	Seq. #
ION CHROMATOGRA	PHY			MCL		E300.0	Units: mg/L	
Fluoride	2.04		0.5	·	1	06/22/09 20	:29 BDG	5080232
Sulfate	7970		500		1000	06/26/09 18	46 BDG	5087230
MERCURY, TOTAL				MCL	5	W7470A	Units: ma/L	
Mercury	ND		0.0002		1	06/26/09 14	.57 F_S	5086994
Prep Method	Pren Data	Pren Initials	Pren Eactor					
SW7470A	06/26/2009 10:10	FS	1 00					
		<u> </u>	1.00					
METALS BY METHOD	D 6010B, TOTAL			MCL		5W6010B	Units: mg/L	5000400
Aluminum	2.1		0.1	·····	1	06/26/09 15	48 EG	5090122
Boron	0.439		0.1	······································	1	06/26/09 15	48 EG	5088522
	147		0.1			06/26/09 15	48 EG	5088522
Iron	7.66		0.02		1	06/26/09 15	48 EG	5088522
Magnesium	30.8		0.1		1	06/26/09 15	48 EG	. 5088522
Potassium	11.2		1		1	06/26/09 15	48 EG	5088522
Sodium	3390		2		20	06/28/09 20	51 EG	5089007
Strontium	7.34		0.5		10	06/28/09 20	46 EG	5089006
Tin	ND		0.005		1	06/26/09 15	48 EG	5088522
Prep Method	Prep Date	Prep Initials	Prep Factor					
SW3010A	06/22/2009 9:00	AB1	1.00					
METALS BY METHO	0 6020A. TOTAL		-	MCL	5	SW6020A	Units: ma/L	
Antimony	ND		0.005		1	06/30/09 1	13 S C	5091958
Arsenic	ND		0.005		1	06/30/09 1	:13 S C	5091958
Barium	0.019		0.005		1	06/30/09 1	13 S C	5091958
Bervllium	ND		0.004		1	06/30/09 16	.02 AL H	5093563
Cadmium	ND		0.005		1	06/30/09 1	 :13 S C	5091958
Chromium	ND		0.005		1	06/30/09 1	13 S C	5091958
Cobalt	ND		0.005		1	06/30/09 1	.13 S C	5091958
	ND		0.025		5	06/30/09 21	:50 S C	5093734
Lead	ND		0.005		1	06/30/09 1	.13 S C	5091958
Manganese	3.06		0.005		1	06/30/09 1	:13 S C	5091958
Molybdenum	0.01		0.01	,	1	06/30/09 1	:13 S_C	5091958
Nickel	ND		0.005		1	06/30/09 1	:13 S_C	5091958
Selenium	ND		0.025		5	06/30/09 21	:50 S_C	5093734
Silver	ND	······	0.005		1	06/30/09 1	:13 S_C	5091958
Thallium	ND		0.005		1	06/30/09 1	:13 S_C	5091958
Vanadium	0.0066		0.005		1	06/30/09 1	 :13	5091958
Zinc	0.056		0.01		1	06/30/09 1	 :13 S C	5091958

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					lected: (SPL Samp	SPL Sample ID: 09061075				
				Sit	e: Bla	nco,NM					
Analyses/Method			QUAL	R	ep.Limit		Dil. Faci	tor Date Analyz	ed	Analyst	Seq. #
Prep Method	Prep Date		Prep Initials	Prep	Factor						
SW3010A	06/22/2009 9:00		AB1	1.00							
VOLATILE ORGANI	CS BY METHOD	8260E	3			MCL		SW8260B	Uni	ts: ug/L	
Benzene	,	ND			5		1	06/27/09 1	:59	LT	5087980
Ethylbenzene		ND			5		1	06/27/09 1	:59	LT	5087980
Toluene		ND			5		1	06/27/09 1	:59	LT	5087980
m,p-Xylene		ND			5		1	06/27/09 1	:59	LT	5087980
o-Xylene		ND			5		1	06/27/09 1	:59	LT	5087980
Xylenes,Total		ND			5		1	06/27/09 1	:59	LT	5087980
Surr: 1,2-Dichloroet	hane-d4	105		%	78-116		1	06/27/09 1	:59	LT	5087980
Surr: 4-Bromofluoro	benzene	93.1		%	74-125		1	06/27/09 1	:59	LT	5087980
Surr: Toluene-d8		93.5		%	82-118		1	06/27/09 1	:59	LT	5087980

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- $\ensuremath{\mathsf{B/V}}\xspace$ 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-2			Collected: 06/18/2009 9:00 SPL Sample ID: 0906					1075-02	
				Site: Bl	anco,NM				
Analy	ses/Method	Result	QUAL	Rep.Limit		Dil. Facto	Date Analyz	ed Analyst	Seq. #
ION (CHROMATOGE	RAPHY			MCL		E300.0	Units: mg/L	
Fluo	ride	0.67		0.5		· 1	06/22/09 20	:49 BDG	5080233
Sulfa	ate	17000		500		1000	06/26/09 19	:05 BDG	5087231
MER	CURY, TOTAL				MCL	S	W7470A	Units: mg/L	
Merc	cury	ND	•	0.0002		1	06/26/09 14	:59 F_S	5086995
	Prep Method	Pron Date	Pron Initials	Pren Eactor					
	SW 7470A	06/26/2009 10:10	FS	1 00					
		00/20/2009 10:10	<u> </u>	1.00					
META	LS BY METH	OD 6010B, TOTAL			MCL	S	W6010B	Units: mg/L	5000400
Alun	าเทนท	1.49		0.1		1	06/26/09 15	:52 EG	5090123
Bord	n	0.494		0.1		1	06/26/09 15	:52 EG	5088523
Calc	ium	270		0.1		1	06/26/09 15	:52 EG	5088523
Iron		1.23		0.02		1	06/26/09 15	:52 EG	5088523
Mag	Magnesium			0.1		. 1	06/26/09 15	:52 EG	5088523
Pota	Potassium			1		1	06/26/09 15	:52 EG	5088523
Sodi	Sodium			2		20	06/28/09 21	:00 EG	5089009
Strontium		23.3		0.5		10	06/28/09 20	:55 EG	5089008
Tin		ND		0.005		1	06/26/09 15	:52 EG	5088523
	Prep Method	Pren Date	Prop Initiale	Prop Eactor					
	SW 3010A	06/22/2009 9:00	AB1	1.00					
MCT			·····					11	
	ALS BY MEIH	JU 6020A, TOTAL		0.005	MICL	<u> </u>	06/20/00 1		
Anur	nony	ND		0.005			06/30/09 1	19 5_0	5091958
Alse		0.0409		0.005		4	06/30/09 1	19 <u>5 </u> C	5091958
Bari	JM 45	0.0408		0.005		1	06/30/09 1	19 S_C	5091958
Bery		ND		0.004		I	06/30/09 16	108 AL_H	5093064
Cau				0.005		I	00/30/09 1	.19 <u>5_</u> C	5091958
Chro	mium	NU		0.005		1	06/30/09 1	19 S_C	5091959
	ait	0.00018		0.005			06/30/09 1	19 S_C	5091958
Cop	ber	ND		0.025		5	06/30/09 21	:55 S_C	5093735
Lead	1	ND		0.005		1	06/30/09 1	19 S_C	5091955
Man	ganese	1.92		0.005		1	06/30/09 1	19 S_C	5091955
MOIY	baenum	0.018		0.01		1	06/30/09 1	19 S_C	5091955
Nick	el	0.00641		0.005		1	06/30/09 1	:19 S_C	5091959
Sele	nium	ND		0.025		5	06/30/09 21	:55 S_C	5093735
Silve	r	ND		0.005		1	06/30/09 1	:19 S_C	5091959
Thal	lium	ND		0.005		1	06/30/09 1	:19 S_C	5091959
Vana	adium	0.00636		0.005		1	06/30/09 1	:19 S_C	5091959
Zinc		0.134		0.01		1	06/30/09 1	:19 S_C	5091959

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- $\ensuremath{\mathsf{B/\!V}}\xspace$ 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:MV	ent Sample ID:MW-2					Collected: 06/18/2009 9:00					SPL Sample ID: 09061075-02		
				Sit	e: B	lanco,N	M						
Analyses/Method	Re	sult	QUAL	Re	ep.Limi	:	Dil. Fac	tor	Date Ana	yzed	Analyst	Seq. #	
Prep Method	Prep Date	Pr	rep Initials	Prep	Factor]							
SW 3010A	06/22/2009 9:00	A	B1	1.00]							
VOLATILE ORGANI	S BY METHOD 82	60B				M	CL	SN	/8260B	Un	its: ug/L		
Benzene		ND			5	;	1		06/29/09	11:42	LT	5090531	
Ethylbenzene		ND			· 5	;	1		06/29/09	11:42	LT	5090531	
Toluene		ND			5	;	1		06/29/09	11:42	LT	5090531	
m,p-Xylene		ND			5	;	1		06/29/09	11:42	LT	5090531	
o-Xylene		ND			5	1	1		06/29/09	11:42	LT	5090531	
Xylenes, Total	·	ND			5	i	1		06/29/09	11:42	LT .	5090531	
Surr: 1,2-Dichloroeth	ane-d4 1	102		%	78-116		1		06/29/09	11:42	LT	5090531	
Surr: 4-Bromofluorot	enzene 8	6.8		%	74-125	i	1		06/29/09	11:42	LT ·	5090531	
Surr: Toluene-d8	9	4.3		%	82-118		1		06/29/09	11:42	LT	5090531	

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	/-3		Collected:	06/18/200	9 10:15	SPL Sam	nple I	D : 0906	1075-03
			Site: B	anco,NM					
Analyses/Method	Result	QUAL	Rep.Limit		Dil. Factor	r Date Anal	yzed	Analyst	Seq. #
ION CHROMATOGRA	APHY			MCL		E300.0	Un	nits: mg/L	
Fluoride	1.68		0.5		1	06/22/09	21:08	BDG	5080234
Sulfate	5750		500		1000	06/26/09	19:24	BDG	5087232
MERCURY, TOTAL				MCL	S	W7470A	Ur	nits: ma/L	·
Mercury	ND	-	0.0002		1	06/26/09	15:01	F_S	5086996
Prop Method	Prop Date	Prop. Initiale	Brop Eastor]					
SW7470A	06/26/2009 10:10	F S	1.00	ļ					
		0							
	D 6010B, 101AL		0.1	MCL	<u> </u>	W6010B	Un 15:57	hits: mg/L	5000125
Aluminum	3.75		0.1			06/26/09	15:57	EG	5090125
Calaium	0.417		0.1		1	06/26/09	10:07	EG	5000524
	50.7		0.1		1	06/26/09	10:07	<u> </u>	5000524
Iron	5.3	<u>_</u>	0.02		1	06/26/09	15:57	EG	5088524
Magnesium	21.3		0.1		.1	00/20/09	10:07	EG	5088524
Potassium	10.3		1	-	- 1	06/26/09	10:07	EG	5090011
Socium	2530		2		20	06/20/09	21.00	EG	5009011
Strontium	4.92		0.5		10	06/26/09	21.04	EG F0	5009010
	ND		0.005			00/20/09	15.57	EG	5066524
Prep Method	Prep Date	Prep Initials	Prep Factor]					
SW3010A	06/22/2009 9:00	AB1	1.00	1					
METALS BY METHO	D 6020A. TOTAL			MCL	S	W6020A	Un	nits: ma/L	
Antimony	ND		0.005			06/30/09	1:25	SC	5091960
Arsenic	0.015		0.005		1	06/30/09	1:25	sc	5091960
Barium	0.0481		0.005		.1	06/30/09	9 1:25	sc	5091960
Beryllium	ND		0.004		1	06/30/09	16:14	AL H	5093567
Cadmium	ND		0.005		1	06/30/09	1:25	SC	5091960
Chromium	ND		0.005		1	06/30/09	9 1:25	S_C	5091960
Cobalt	ND		0.005		1	06/30/09	1:25	s_c	5091960
Copper	ND		0.025		5	06/30/09	22:00	s_c	5093736
Lead	ND		0.005		1	06/30/09	1:25	s_c	5091960
Manganese	0.454		0.005		1	06/30/09	1:25	S_C	5091960
Molybdenum	ND		0.01		1	06/30/09	9 1:25	s_c	5091960
Nickel	ND		0.005		1	06/30/09	1:25	s_c	5091960
Selenium	ND		0.025		5	06/30/09	22:00	s_c	5093736
Silver	ND		0.005		1	06/30/09	1:25	S_C	5091960
Thallium	ND		0.005		1	06/30/09	1:25	s_c	5091960
Vanadium	0.0127		0.005		1	06/30/09	1:25	s_c	5091960
Zinc	0.0681		0.01		1	06/30/09	1.25	SC	5091960

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

Collected: 06/18/2009 10:15 09061075-03 **Client Sample ID:MW-3** SPL Sample ID: Site: Blanco,NM Analyses/Method Result QUAL Rep.Limit Dil. Factor Date Analyzed Analyst Seq. # Prep Factor Prep Method Prep Date Prep Initials SW 3010A 06/22/2009 9:00 AB1 1.00 **VOLATILE ORGANICS BY METHOD 8260B** MCL SW8260B Units: ug/L LT 5090533 Benzene 5 1 06/29/09 12:07 ND Ethylbenzene 15 5 1 06/29/09 12:07 LT 5090533 Toluene ND 5 1 06/29/09 12:07 LT 5090533 87 5 06/29/09 12:07 5090533 1 LT m,p-Xylene 5090533 o-Xylene ND 5 1 06/29/09 12:07 LT 87 06/29/09 12:07 5090533 Xylenes,Total 5 1 LT 06/29/09 12:07 5090533 Surr: 1,2-Dichloroethane-d4 100 % 78-116 1 LT Surr: 4-Bromofluorobenzene 94.1 74-125 1 06/29/09 12:07 LT 5090533 % 97.9 82-118 06/29/09 12:07 LT 5090533 Surr: Toluene-d8 % 1

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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HOUSTON LABORATORY 8880 INTERCHANGE DRIVE

HOUSTON, TX 77054

(713) 660-0901

Clie	nt Sample ID:M	W-4		Collected: (06/18/2009 9	9:35	SPL Sam	ple I	D : 090	61075-04
				Site: Bla	nco,NM					
Anal	yses/Method	Result	QUAL	Rep.Limit	Dil.	Factor	Date Analy	zed	Analyst	Seq. #
ION	CHROMATOGE	RAPHY			MCL		E300.0	Ur	nits: mg/	
Flu	oride	2.25		0.5		1	06/22/09 2	21:27	BDG	5080235
Su	fate	5300		500	1(000	06/26/09 1	19:43	BDG	5087233
MER	CURY, TOTAL				MCL	SI	N7470A	Ur	nits: mg/	
Me	rcury	ND		0.0002		1	06/26/09 1	15:03	F_S	5086997
	Prep Method	Pren Date	Pren Initia	Is Pren Eactor						
	SW7470A	06/26/2009 10:10	F_S	1.00						
MET	ALS BY METHO	DD 6010B. TOTAL			MCL	SI	N6010B	Ur	nits: ma/	
Alu	minum	5.52		0.1		1	06/26/09 1	16:01	EG	5090126
Bo	ron .	0.463		0.1		1	06/26/09 1	16:01	EG	5088525
Ca	lcium	62.9		0.1		1	06/26/09 1	16:01	EG	5088525
Iror	 ו	6.91		0.02	,	1	06/26/09 1	16:01	EG	5088525
Ma	gnesium	13.5		0.1		1	06/26/09 1	16:01	EG	5088525
Pol	lassium	9.42		1		1	06/26/09 1	16:01	EG	5088525
So	dium	2570		2		20	06/28/09 2	21:17	EG	5089013
Str	ontium	4.54		0.5		10	06/28/09 2	21:13	ĒG	5089012
Tin		ND		0.005		1	06/26/09 1	16:01	EG	5088525
	Prep Method	Prep Date	Prep Initia	Is Prep Factor						
	SW3010A	06/22/2009 9:00	AB1	1.00						
MET	ALS BY METHO	DD 6020A, TOTAL			MCL	SI	N6020A	Ur	nits: mg/	
An	limony	ND		0.005		1	06/30/09	1:30	s_c	5091961
Ars	enic	ND		0.005		1	06/30/09	1:30	s_c	5091961
Ba	rium	0.0261		0.005		1	06/30/09	1:30	S_C	5091961
Bei	ryllium	ND		0.004		1	06/30/09 1	16:19	AL_H	5093569
Ca	dmium	ND		0.005		1	06/30/09	1:30	SC	5091961

0.005

0.005

0.025

0.005

0.005

0.01

0.005

0.025

0.005

0.005

0.005

0.01

1

1

5

1

1

1

1

5

1

1

1

1

06/30/09 1:30 S_C

06/30/09 1:30 S_C

06/30/09 22:05 S C

06/30/09 1:30 S_C

06/30/09 1:30 S_C

06/30/09 1:30 S_C

06/30/09 1:30 S_C

06/30/09 22:05 S_C

06/30/09 1:30 S_C

06/30/09 1:30 S_C

06/30/09 1:30 S_C

06/30/09 1:30 S_C

Zinc

Chromium

Manganese

Molybdenum

Cobalt

Copper

Lead

Nickel

Silver

Selenium

Thallium

Vanadium

Qualifiers:

- ND/U Not Detected at the Reporting Limit
- B/V Analyte detected in the associated Method Blank

0.00829

ND

ND

ND

ND

ND

ND

ND

ND

0.00985

0.0703

0.333

- * 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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5091961

5091961

5093737

5091961

5091961

5091961 5091961

5093737

5091961

5091961

5091961



8880 INTERCHANGE DRIVE HOUSTON, TX 77054

(713) 660-0901

Client Sample ID:M	N-4		Collected: 0	6/18/2009 9:35	SPL Sample I	1075-04	
			Site: Blar	nco,NM			~
Analyses/Method	Resu	it QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
Prep Method	Prep Date	Prep Initials	Prep Factor				
SW3010A	06/22/2009 9:00	AB1	1.00				
VOLATILE ORGANI	CS BY METHOD 826)B		MCL S	W8260B Un	its: ug/L	
Benzene	Ň	כ	5	1	06/29/09 12:32	LT	5090535
Ethylbenzene	N)	5	1	06/29/09 12:32	LT	5090535
Toluene	N)	5	1	06/29/09 12:32	LT	5090535
m,p-Xylene	. NI	2	5	1	06/29/09 12:32	LT	5090535
o-Xylene	N	2	5	1	06/29/09 12:32	LT	5090535
Xylenes,Total	N	2	5	1	06/29/09 12:32	LT	5090535
Surr: 1,2-Dichloroeth	nane-d4 10	3	% 78-116	1	06/29/09 12:32	LT	5090535
Surr: 4-Bromofluorot	benzene 89.	4	% 74-125	1	06/29/09 12:32	LT	5090535
Surr: Toluene-d8	86.	8	% 82-118	1	06/29/09 12:32	LT	5090535

Qualifiers:

ND/U - Not Detected at the Reporting Limit

 $\ensuremath{\mathsf{B/V}}\xspace$ - 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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HOUSTON LABORATORY 8880 INTERCHANGE DRIVE

HOUSTON, TX 77054

(713) 660-0901

Clien	lient Sample ID: Duplicate			Collecte	ed: (06/18/200	9 10:0	0 SPL Sar	SPL Sample ID: 09061075-05			
				Site:	Bla	nco,NM						
Analy	ses/Method	Result	QUAL	Rep.Li	mit	· [Dil. Fac	tor Date Ana	lyzed	Analyst	Seq. #	
ION	CHROMATOGR	APHY				MCL		E300.0	Ur	nits: mg/L	•	
Fluo	ride	1.71			0.5		1	06/22/09	21:46	BDG	5080236	
Sulf	ate	5580		5	500		1000	06/26/09	20:03	BDG	5087234	
MER	CURY, TOTAL					MCL		SW7470A	Ur	nits: mg/L		
Mer	cury	ND		0.00	02		1	06/26/09	15:06	F_S	5086998	
	Brop Mothod	Bron Data	Prop. Initiala	Bron East	or							
					쁘							
	5W /4/0A	06/26/2009 10:10	F_3	11.00								
MET/	ALS BY METHO	DD 6010B, TOTAL				MCL		SW6010B	Ur	nits: mg/L	·	
Alun	ninum	3.19			0.1		1	06/26/09	16:05	EG	5090127	
Bord	n	0.407	•		0.1		1	06/26/09	16:05	EG	5088526	
Calc	lum	63.9			0.1		1	06/26/09	16:05	EG	5088526	
Iron		4.35		0	.02		1	06/26/09	16:05	EG	5088526	
Mag	nesium	20.4			0.1		1	06/26/09	16:05	EG	5088526	
Pota	issium	9.85			1		1	06/26/09	16:05	EG	5088526	
Sodi	ium	2580			2		20	06/28/09	21:26	EG	5089015	
Stro	ntium	4.92			0.5		10	06/28/09	21:22	EG	5089014	
Tin		ND		0.0	005		1	06/26/09	16:05	EG	5088526	
	Prep Method	Pren Date	Prop Initials	Pren Eact	or							
	SW3010A	06/22/2009 9:00	AB1	1 00	뜨							
				11.00								
MET	ALS BY METHO	DD 6020A, TOTAL				MCL		SW6020A	Ur	hits: mg/L		
Anti	mony	ND		0.0	005		1	06/30/0	91:36	S_C	5091962	
Arse	enic	0.015		0.0)05		1	06/30/0	9 1:36	S_C	5091962	
Bari	um	0.0513		0.0)05		1	06/30/0	9 1:36	s_c	5091962	
Bery	llium	ND		0.0	004		1	06/30/09	16:42	AL_H	5093576	
Cad	mium	ND		0.0)05		1	06/30/0	9 1:36	S_C	5091962	
Chro	omium	ND		0.0)05		1	06/30/0	9 1:36	S_C	5091962	
Cob	alt	ND		0.0)05		1	06/30/0	9 1:36	s_c	5091962	
Cop	per	ND		0.0)25		5	06/30/09	22:10	S_C	5093738	
Lead	t	ND		0.0	005		1	06/30/0	9 1:36	S_C	5091962	
Man	ganese	0.411		0.0	005		1	06/30/0	9 1:36	s_c	5091962	
Moly	/bdenum	ND		0	.01		1	06/30/0	9 1:36	s_c	5091962	
Nick	el	ND		0.0)05		1	06/30/0	9 1:36	S_C	5091962	
Sele	nium	ND		0.0)25		5	06/30/09	22:10	s_c	5093738	
Silve	er	NĎ		0.0)05		1	06/30/0	9 1:36	S_C	5091962	
Tha	lium	ND		0.0	005		1	06/30/0	9 1:36	S_C	5091962	
Vana	adium	0.011		0.0	005		1	06/30/0	9 1:36	S_C	5091962	
Zinc	- ···	0.0578		0	.01		1	06/30/0	9 1:36	S_C	5091962	

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

> 09061075 Page 11 7/6/2009 4:34:25 PM



8880 INTERCHANGE DRIVE

HOUSTON, TX 77054

(713) 660-0901

06/29/09 12:57 LT

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Client	Sample ID:D	uplicate		Collected: 0	6/18/2009 10:0	0 SPL Sar	SPL Sample ID: 09061075-05			
				Site: Blar	nco,NM					
Analys	Analyses/Method Result QUAL		Rep.Limit	Dil. Fac	tor Date Ana	lyzed	Analyst	Seq. #		
[]	Prep Method	Prep Date	Prep Initials	Prep Factor						
	SW3010A	06/22/2009 9:00	AB1	1.00						
VOLA	TILE ORGAN	CS BY METHOD 8260	В		MCL	SW8260B	Unit	s: ug/L		
Benze	ene	NE)	5	1	06/29/09	12:57	_T	5090537	
Ethylt	benzene	14	ł	5	1	06/29/09	12:57 l	T	5090537	
Tolue	ne	NE)	5	1	06/29/09	12:57 l	T	5090537	

%

%

%

5

5

5

78-116

74-125

82-118

86

ND

86

101

95.5

92.5

Qualifiers:

m,p-Xylene

Xylenes,Total

Surr: Toluene-d8

Surr: 1,2-Dichloroethane-d4

Surr: 4-Bromofluorobenzene

o-Xylene

- ND/U Not Detected at the Reporting Limit
- $\ensuremath{\mathsf{B/\!V}}\xspace$ 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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8880 INTERCHANGE DRIVE HOUSTON, TX 77054 (713) 660-0901

Conoco Phillips COP ElPaso1A

Analysis: Method:	Metals by Method 6 SW6010B	010B, Total				WorkOrder: Lab Batch ID:	09061075 91317a	
	Met	hod Blank			Samples in Analytic	al Batch:		
RunID: ICP2_0	90626A-5088512	Units:	mg/L Lab Sample ID			Client Sample ID		
Analysis Date:	06/26/2009 15:05	Analyst:	EG		09061075-01B 09061075-02B	MW-1		
Preparation Date	: 06/22/2009 9:00	Prep By:	AB1 I	Method: SW3010A		MW-2		
					09061075-03B	MW-3		
					09061075-04B	MW-4		
	Analyte		Result	Rep Limit	09061075-05B	Duplicate		
Bor	on		NE	0.1	03001073-032	Duplicate		
Cal	cium		NE	0.1				
Iror	1		NE	0.02				
Mag	gnesium	nesium ssium		0.1				
Pot	assium) 1				
Tin			NE	0.005				

Laboratory Control Sample (LCS)

RunID:
Analysis Date:
Preparation Date:

ICP2_090626A-5088513 06/26/2009 15:10 06/22/2009 9:00

Units: mg/L Analyst: EG

Prep By: AB1 Method: SW3010A

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Boron	1.000	1.034	103.4	80	120
Calcium	1.000	1.041	104.1	80	120
Iron	1.000	1.058	105.8	80	120
Magnesium	1.000	1.048	104.8	80	120
Potassium	10.00	10.43	104.3	80	120
Tin	1.000	1.078	107.8	80	120

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

Sample Spiked:	09061012-01			
RunID:	ICP2_090626A-5088515	Units:	mg/L	
Analysis Date:	06/26/2009 15:18	Analyst:	EG	
Preparation Date:	06/22/2009 10:00	Prep By:	AB1	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
Boron	ND	1	1.342	104.6	1	1.293	99.66	3.719	20	75	125
Calcium	65.87	1	66.00	N/C	1	64.50	N/C	N/C	20	75	125

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

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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Conoco Phillips COP ElPaso1A

Analysis: Method:	Metals by Method SW6010B							WorkOrder: 09 Lab Batch ID: 913		9061075 1317a		
		Matrix	Spike (N	MS) / Matrix S	Spike Dupli	cate (MS	<u>D)</u>					
	Sa Ru An Pro Analyte	mple Spiked: InID: alysis Date: eparation Date: Sample	090610 ICP2_0 06/26/2 06/22/2	012-01 90626A-50885 2009 15:18 2009 10:00 MS	15 Units: Analys Prep E MS %	mg/ st: EG By: AB1 MSD	L Method: S\ MSD	W3010A MSD %	RPD	RPD	Low	High
		Result	Spike Added	Result	Recovery	Spike Added	Result	Recovery		Limit	Limit	Limit
Iron		0.5748	1	1.638	106.3	1	1.521	94.62	7.407	20	75	125
Magnesium		16.11	1	17.33	N/C	1	16.58	N/C	N/C	20	75	125
Potassium		21.61	10	32.30	106.9	10	31.66	100.5	2.001	20	75	125
Tin		ND	1	1.110	110.4	1	1.054	104.8	5.176	20	75	125

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

 $\ensuremath{\mathsf{B/V}}\xspace$ - 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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Conoco Phillips -----

Analysis: Method:		Metals by Metho SW6020A	d 6020A, Total			•			Work Lab I	Order: Batch ID:	09061075 91317A-I	
		<u> </u>	Method Blank		• • •		Samp	les in Analy	tical Batch	ı:		
RunID: ICF Analysis Date Preparation D	PMS2_09 e: Date:	90629A-5091950 06/30/2009 0:28 06/22/2009 9:00	Units: Analyst: Prep By:	mg/L S_C AB1 Met	thod: SW(3010A	<u>Lab S</u> 09061 09061 09061	<u>ample ID</u> 075-01B 075-02B 075-03B		<u>Client Sar</u> MW-1 MW-2 MW-3	nple ID	
			I	Desult	an Lincial		09061	075-04B		MW-4		
	Antimo	Analyte					09061	075-05B		Duplicate		
	Arsenic	;		ND	0.005							
	Barium			ND	0.005							
	Chromi	um		ND	0.005							
	Cobalt			ND	0.005							
	Lead			ND	0.005							
	Molybd	enum		ND	0.005							
	Nickel			ND	0.005							
	Silver				0.005			7				
	Vanadi	um		ND	0.005							
	Zinc		`	ND	0.01							
		Pre	eparation Date:	06/22/2009	9:00	Pre	∋pBy: Al	B1 Method:	SW3010A			
			Analy	e	A	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit		
		Antim	ony			0.1000	0.09709	97.09	80	120		
		Arsen	lic			0.1000	0.09537	95.37	80	120		
		Bariu	m			0.1000	0.09473	94.73	80	120		
		Cadm	nium			0.1000	0.1068	106.8	80	120		
		Chron	nium			0.1000	0.09703	97.03		120		
			1			0.1000	0.1004	93.56	80	120		
		Mang	anese			0 1000	0.03000	101.0	80	120		
		Molyb	denum			0.1000	0.1080	101.0	80	120		,
						0.1000	0.1049	104.9	80	120		
		Nicke	1					87 16	80	120		
		Nicke	1			0.1000	0.08716	07.10		120		
		Nicke Silver Thalli	l			0.1000 0.1000	0.08716	90.67	80	120		
		Nicke Silver Thallii Vanad	l um dium			0.1000 0.1000 0.1000	0.08716 0.09067 0.1016	90.67	80 80	120 120 120		
		Nicke Silver Thallii Vanad Zinc	l um dium			0.1000 0.1000 0.1000 0.1000	0.08716 0.09067 0.1016 0.09743	90.67 101.6 97.43	80 80 80	120 120 120 120		
Qualifiers:		Nicke Silver Thallii Vanac Zinc	l um dium	ing Limit		0.1000 0.1000 0.1000 0.1000 MI -	0.08716 0.09067 0.1016 0.09743	90.67 101.6 97.43	80 80 80	120 120 120 120		
Qualifiers:		Nicke Silver Thallii Vanad Zinc ND/U - Not Detec B/V - Analyte dete	I um dium cted at the Report ected in the assoc	ing Limit	d Blank	0.1000 0.1000 0.1000 0.1000 MI - D -	0.08716 0.09067 0.1016 0.09743 Matrix Inte	90.67 101.6 97.43 erference Jnreportable	80 80 80 due to Dilu	120 120 120 120		
Qualifiers:		ND/U - Not Detect B/V - Analyte detect	I um dium cted at the Report ected in the assoc ue between MDL a	ing Limit iated Metho and PQL	d Blank	0.1000 0.1000 0.1000 0.1000 MI - D - * - F	0.08716 0.09067 0.1016 0.09743 Matrix Inte Recovery I	90.67 101.6 97.43 erference Jnreportable Outside Advis	80 80 80 due to Dilu able QC Li	120 120 120 120 120		

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

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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Conoco Phillips COP ElPaso1A

Analysis:	Metals by Method 6020A, Total	WorkOrder:	09061075
Method:	SW6020A	Lab Batch ID:	91317A-I

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

Sample Spiked: RunID: Analysis Date: Preparation Date:

09061012-01 ICPMS2_090629A-5091953 Units: 06/30/2009 0:45 Analys 06/22/2009 10:00 Prep E

Units: mg/L Analyst: S_C Prep By: AB1 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
Antimony	0.007264	0.1	0.1074	100.1	0.1	0.1063	99.04	1.029	20	75	125
Arsenic	0.006332	0.1	0.1042	97.87	0.1	0.1059	99.57	1.618	20	75	125
Barium	0.1385	0.1	0.2354	96.90	0.1	0.2377	99.20	0.9723	20	75	125
Cadmium	ND	0.1	0.1080	108.0	0.1	0.09907	99.07	8.625	20	75	125
Chromium	ND	0.1	0.09766	97.66	0.1	0.09745	97.45	0.2153	20	75	125
Cobalt	ND	0.1	0.1009	100.9	0.1	0.09805	98.05	2.865	20	75	125
Lead	ND	0.1	0.09541	95.41	0.1	0.09388	93.88	1.617	20	75	125
Manganese	0.03806	0.1	0.1384	100.3	0.1	0.1353	97.24	2.265	20	75	125
Molybdenum	0.08858	0.1	0.1930	104.4	0.1	0.1894	100.8	1.883	20	75	125
Nickel	ND	0.1	0.1084	104.4	0.1	0.1075	103.5	0.8337	20	75	125
Silver	ND	0.1	0.08207	82.07	0.1	0.08195	81.95	0.1463	20	75	125
Thallium	ND	0.1	0.09053	90.53	0.1	0.09065	90.65	0.1325	20	75	125
Vanadium	0.01955	0.1	0.1221	102.6	0.1	0.1173	97.75	4.010	20	75	125
Zinc	0.01318	0.1	0.1039	90.72	0.1	0.1045	91.32	0.5758	20	75	125

Qualifiers:

ND/U - Not Detected at the Reporting Limit

ing an internet in the second se

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

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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Conoco Phillips COP ElPaso1A

				CC	P ElPaso	51A						
Analysis:	Metals by Method 6	010B, Total						Wori	Order:	0906107	'5	
Method:	SW6010B							Lab	Batch ID:	91317b		
	Me	hod Blank				Samp	oles in Analy	tical Batcl	า:			
RunID: ICP2_090	628A-5088996	Units:	mg/L			Lab S	Sample ID		Client Sa	mple ID		
Analysis Date:	06/28/2009 20:04	Analyst:	EG			0906	1075-01B		MW-1			
Preparation Date:	06/22/2009 9:00	Prep By:	AB1 Method: S		V3010A	0906	1075-02B		MW-2			
						0906 ⁻	1075-03B		MW-3			
	A1.				1	0906	1075-04B		MW-4			
·	Analyte		Result			0906	1075-05B		Duplicate			
Sodiu	m		N	D 0.1								
Stront	ium		N	D 0.05]							
										in the second		
			L	aboratory (Control S	iample (L	<u>CS)</u>					
	Runit):	ICP2_09	0628A-50889	97 Un	its: n	ng/L					
	Analys	sis Date:	06/28/20	009 20:08	An	alyst: E	G					
	Prepa	ration Date:	06/19/20	009 15:00	Pre	ep By: N	I_K Method:	SW 3010A				
		Analy	te		Spike	Result	Percent	Lower	Upper			
		,			Added		Recovery	Limit	Limit			
	Aluminu	n			1.000	1.058	105.8	80	120			
	Sodium				1.000	1.043	104.3	80	120			
	Strontiur	n			1.000	1.046	104.6	80	120			
				I	l							
		Matrix	Spike (I	MS) / Matri	x Spike D	Duplicate	(MSD)					
	_											
	Sam	ple Spiked:	09061	012-01								
	Run	ID:	ICP2_0	90628A-508	8999 L	Inits:	mg/L					
	Ana	ysis Date:	06/28/	2009 20:17	A	nalyst:	EG					
	Prep	aration Date:	06/22/	2009 10:00	F	rep By:	AB1 Method	1: SW3010	A			

Ar	alyte	Sample	MS	MS	MS	% MS	D MSD	MSI	D% R	RPD RPI	D Low	High

Analyte	Result	Spike Added	Result	Recovery	Spike Added	Result	Recovery	RED	Limit	Limit	Limit
Aluminum	ND	1	1.161	116.1	1	1.208	120.8	3.968	20	75	125
Sodium	491.4	1	485.4	N/C	1	487.7	N/C	N/C	20	75	125
Strontium	0.7431	1	1.838	109.5	1	1.805	106.2	1.812	20	75	125

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

b - 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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Conoco Phillips COP ElPaso1A

Analysis: Method:	Metals by Method 6 SW6020A	020A, Total			WorkOrder: Lab Batch ID:	09061075 91317B-I				
	Met	hod Blank		Samples in Analytical Batch:						
RunID: ICPMS	2_090630A-5093574	Units:	mg/L	Lab Sample ID	Client Sar	nple ID				
Analysis Date:	06/30/2009 16:36	Analyst:	AL_H	09061075-01B	MW-1					
Preparation Date	: 06/22/2009 9:00	Prep By:	AB1 Method: SW3010A	09061075-02B	MW-2					
				09061075-03B	MW-3					
ſ	Analita		Regult Rep Limit	09061075-04B	MW-4					
Analyte Beryllium			ND 0.004	09061075-05B	Duplicate					

Laboratory Control Sample (LCS)

RunID:
Analysis Date:
Prenaration Date

06/30/2009	15:34
06/22/2009	9:00

ICPMS2_090630A-5093558 Units: 4 Analyst:

mg/L-AL_H Prep By: AB1 Method: SW3010A

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
3eryllium	0.1000	0.1096	109.6	80	120

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

Sample Spiked:
RunID:
Analysis Date:
Preparation Date:

09061012-01 ICPMS2_090630A-5093560 Units: mg/L 06/30/2009 15:45 Analyst: AL H 06/22/2009 10:00 Prep By: AB1 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
Beryllium	ND	0.1	0.1072	107.2	0.1	0.1057	105.7	1.409	20	75	125

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

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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HOUSTON LABORATORY 8880 INTERCHANGE DRIVE

HOUSTON, TX 77054 (713) 660-0901

Conoco Phillips COP ElPaso1A

Analysis: Method:	Metals by SW6020A	Method 60	20A, Total						Wor Lab	kOrder: Batch 1D:	090 913	61075 17-l		
	<u></u>	Meth	od Blank				Samp	les in Analy	tical Batc	h: .				
RunID: ICPMS	_090623A-50810	601	Units:	mg/L			Lab S	ample ID		Client	Sample IC)		
Analysis Date:	06/24/200	9 6:08	Analyst:	AL_H			09061	075-01B		MW-1		-		
Preparation Date	: 06/22/200	9 9:00	Prep By:	AB1 N	vlethod: SW	3010A	09061	075-02B		MW-2				
							09061	075-03B		MW-3				
		Analvte		Result	Rep Limit		09061	075-04B		MW-4				
Co	oper			ND	0.005		09061	075-05B		Duplica	te			
Sel	enium			ND	0.005									
				La	aboratory C	ontrol Sam	ple (LC	:S)						·
		RunID:		ICPMS_0	90623A-5081	602 Units:	m	a/L						
		Analysis	s Date:	06/24/20	09 6:13	Analys	t: Al	, н						
		Prepara	tion Date:	06/22/20	09 9:00	Prep E	By: AB	- 31 Method:	SW3010A	\				
			Analyt	e .		Spike R Added	esult	Percent Recovery	Lower Limit	Upper Limit				
		Copper				0 1000 0	1046	104.6	80	120	5			
•		Selenium				0.1000 0.	08701	87.01	80	120	5			
					I	 I	I_							
			Matrix	Spike (M	(IS) / Matrix	Spike Dun	icate (<u></u>	
		Sampl	le Spiked:	090610)12-01									
		RunID):	ICPMS_	090623A-508	81604 Units	5: I	ng/L						
		Analys	sis Date:	06/24/2	2009 6:23	Anal	yst: /	AL_H						
		Prepa	ration Date:	06/22/2	2009 10:00	Prep	By: /	AB1 Metho	d: SW3010	JA				
	Analyte		Sample	MS	MS	MS %	MSI		MS	D %	RPD	RPD	Low	High
			Result	Spike Added	Result	Recovery	Adde	e Resu ed	nt Rec	overy		Limit	Limit	
Copper			ND	0.1	0.0908	7 89.7	9 (0.0	9226	91.18	1.518	20	75	125
Selenium				0.1	0.0836	7 00.0	1 1	1 0.00	2257	90.71	0 1106	20	75	125

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

Blank D - Recovery Unreportable due to Dilution

* - Recovery Outside Advisable QC Limits

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Conoco Phillips COP ElPaso1A

Analysis:	Mercury, Total				WorkOrder:	09061075	
Method:	SW7470A				Lab Batch ID:	91490	
	Meth	od Blank		Samples in Analyti	cal Batch:		
RunID: HGLC_09	0626A-5086979	Units:	mg/L	Lab Sample ID	Client Sar	nple ID	
Analysis Date:	06/26/2009 14:12	Analyst:	F_S	09061075-01B	MW-1		
Preparation Date:	06/26/2009 10:10	Prep By:	F_S Method: SW7470A	09061075-02B	MW-2		
				09061075-03B	MW-3		
	Apolito		Bogult Bog Limit	09061075-04B	MW-4		
Mercu	ry		ND 0.0002	09061075-05B	Duplicate		

Laboratory Control Sample (LCS)

RunID: Analysis Date: Preparation Date:

HGLC_090626A-5086980 06/26/2009 14:15 06/26/2009 10:10

Units: mg/L Analyst: F_S Prep By: F_S Method: SW7470A

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Mercury	0.002000	0.001947	97.37	80	120

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

Sample Spiked:	09060865-03		
RuniD:	HGLC_090626A-5086982	Units:	mg/L
Analysis Date:	06/26/2009 14:19	Analyst:	F_S
Preparation Date:	06/26/2009 10:10	Prep By:	F S Method: SW7470A

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Mercury	ND	0.002	0.001593	79.64	0.002	0.001622	81.09	1.807	20	75	125

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

MI - Matrix Interference

J - Estimated value between MDL and PQL E - Estimated Value exceeds calibration curve D - Recovery Unreportable due to Dilution

* - Recovery Outside Advisable QC Limits

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Quality Control Report

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

Conoco Phillips COP ElPaso1A

Analysis: Method:	Volatile Organics by SW8260B	Method 8260	B		WorkOrder: Lab Batch ID:	09061075 R276708		
	Meth	nod Blank		Samples in Analytical Batch:				
RunID: N_0906	26E-5087979	Units:	ug/L	Lab Sample ID	Client Sar	npie ID		
Analysis Date:	06/26/2009 23:28	Analyst:	LT .	09061075-01A	MW-1			

Analyte	Result	Rep Limit
Benzene	ND	5.0
Ethylbenzene	ND	5.0
Toluene	ND	5.0
m,p-Xylene	ND	5.0
o-Xylene	ND	5.0
Xylenes,Total	ND	5.0
Surr: 1,2-Dichloroethane-d4	101.2	78-116
Surr: 4-Bromofluorobenzene	88.5	74-125
Surr: Toluene-d8	89.4	82-118

	Laboratory Con	ntrol Sample	e (LCS)
RunID:	N_090626E-5087978	Units:	ug/L
Analysis Date:	06/26/2009 23:02	Analyst:	LŤ

Analyte	Spike Added	Result	Percent Recovery	Lower · Limit	Upper Limit
Benzene	20.0	21.3	107	74	123
Ethylbenzene	20.0	18.8	. 94.0	72	127
Toluene	20.0	18.6	92.8	• 74	126
m,p-Xylene	40.0	36.8	92.0	71	129
p-Xylene	20.0	19.1	95.7	74	130
Xylenes,Total	60.0	55.9	93.2	71	130
Surr: 1,2-Dichloroethane-d4	50.0	49	98.1	78	116
Surr: 4-Bromofluorobenzene	50.0	46	91.9	74	125
Surr: Toluene-d8	50.0	44.9	89.7	82	118

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

Sample Spiked:
RunID:
Analvsis Date:

09061075-01 N_090626E-5087981 06/27/2009 2:24

Units: ug/L Analyst: LT

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

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Quality Control Report

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

Conoco Phillips COP ElPaso1A

Analysis: Method:	Volatile Organics b SW8260B	y Method 826	0B					WorkOrder Lab Batch I	: 090 D: R2	61075 76708		
	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	21.3	106	20	20.8	104	2.09	22	70	124
Ethylbenzene		ND	20	16.1	80.7	20	16.9	84.4	4.48	20	76	122
Toluene		ND	20	17.4	87.1	20	17.8	88.9	2.13	24	80	117
m,p-Xylene		ND	40	34.2	85.6	40	32.7	81.8	4.59	20	69	127
o-Xylene	- 2 7. 1	ND	20	17.9	89.3	20	18.1	90.5	1.25	20	84	114
Xylenes,Total		ND	60	52.1	86.9	60	50.8	84.7	2.55	20	69	127
Surr: 1,2-Dichle	oroethane-d4	ND	50	. 52.2	104	50	49.6	99.2	5.07	30	78	116
Surr: 4-Bromof	luorobenzene	ND	50	46.7	93.4	50	46.5	92.9	0.494	30	74	125
Surr: Toluene-o	18	ND	50	45.1	90.2	50	44.9	89.7	0.576	30	82	118

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

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Quality Control Report

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

Conoco Phillips COP ElPaso1A

Analysis: Method:	Volatile Organics by SW8260B	y Method 826	DB _		WorkOrder: Lab Batch ID:	09061075 R276866
. <u>.</u>	Met	thod Blank		Samples in Analytic	al Batch:	
RunID: N_0906	629B-5090528	Units:	ug/L	Lab Sample ID	Client Sar	nple ID
Analysis Date:	06/29/2009 9:11	Analyst:	LT	09061075-02A	MW-2	
				09061075-03A	MW-3	
				09061075-04A	MW-4	
				09061075-05A	Duplicate	

Analyte	Result	Rep Limit
Benzene	ND	5.0
Ethylbenzene	ND	5.0
Toluene	ND	5.0
m,p-Xylene	ND	5.0
o-Xylene	ND	5.0
Xylenes,Total	ND	5.0
Surr: 1,2-Dichloroethane-d4	99.7	78-116
Surr: 4-Bromofluorobenzene	89.6	74-125
Surr: Toluene-d8	87.4	82-118

Laborator	v Control	Sample	(LCS)

RunID:	N_0906298-5090527	Units:	ug/L
Analysis Date:	06/29/2009 8:46	Analyst:	LT

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Benzene	20.0	21.8	109	74	123
Ethylbenzene	20.0	18.8	93.8	72	127
Toluene	20.0	20.3	102	74	126
m,p-Xylene	40.0	38.5	96.2	71	129
o-Xylene	20.0	20.0	100	74	130
Xylenes,Total	60.0	58.5	97.4	71	130
Surr: 1,2-Dichloroethane-d4	50.0	51.5	103	78	116
Surr: 4-Bromofluorobenzene	50.0	46.5	93.0	74	125
Surr: Toluene-d8	50.0	45.5	91.1	82	118

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

Sample Spiked: RunID: Analysis Date: 09060975-01 N_090629B-5090541 06/29/2009 14:12

Units: ug/L Analyst: LT

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.

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HOUSTON LABORATORY 8880 INTERCHANGE DRIVE

HOUSTON, TX 77054 (713) 660-0901

Conoco Phillips COP ElPaso1A

Analysis: Volatile Method: SW826	Organics by Method 826 0B	0B					WorkOrder	: 090 ID: R2	61075 76866		
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	20.6	93.9	20	19.9	90.6	3.26	22	70	124
Ethylbenzene	. ND	20	15.9	79.4	20	15.7	78.7	0.835	20	76	122
Toluene	ND	20	16.5	82.6	20	16.9	84.7	2.47	24	80	117
m,p-Xylene	ND	40	32.4	81.1	40	32.6	81.6	0.593	20	69	127
o-Xylene	ND	20	16.8	84.1	20	17.1	85.7	1.94	20	84	114
Xylenes,Total	ND	60	49.2	82.1	60	49.7	83.0	1.06	20	69	127
Surr: 1,2-Dichloroethane-c	4 ND	50	50.1	100	50	51.5	103	2.78	. 30	78	116
Surr: 4-Bromofluorobenze	ne ND	50	46.4	92.8	50	47.3	94.6	1.88	30	74	125
Surr: Toluene-d8	ND	50	44.9	89.7	50	45.1	90.2	0.554	30	82	118

Qualifiers: NE

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

nod Blank D - Recovery Unreportable due to Dilution

* - Recovery Outside Advisable QC Limits

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Conoco Phillips COP ElPaso1A

Analysis: Method:	Ion Chroma E300.0	tography						Worl Lab	kOrder: Batch ID:	090 R2)61075 76225		
		Method Blank				Samp	les in Analy	tical Batcl	h:				
RunID: IC2_	090622A-5080219	Units:	mg/L			Lab S	ample ID		Client S	Sample II	2		
Analysis Date:	06/22/2009 1	2:34 Analyst	BDG			09061	075-01C		MW-1		_		
						09061	075-02C		MW-2				
						09061	075-03C		MW-3				
Г	^^		Bacult	Ron Limit		09061	075-04C		MW -4				
6	Fluoride	aiyte	ND			09061	075-05C		Duplicat	te			
Ŀ		· .		0.00									
			La	boratory C	ontrol Sar	nple (LC	<u>55)</u>						
		RunID:	IC2_09062	22A-5080220	Units	: m	g/L						
		Analysis Date:	06/22/20	09 12:54	Analy	rst: Bl	DG						
	λ												
	Γ	Anal	yte	1	Spike F	Result	Percent	Lower	Upper]			
				/	Added		Recovery	Limit	Limit				
	· F	luoride			10.00	10.76	107.6	85	115				
		Matri	ix Spike (M	IS) / Matrix	Spike Du	olicate (MSD)						
		Sample Spiked:	090609	57-01									
		RunID:	IC2_090	622A-50802	38 Uni	ts: i	mg/L						
		Analysis Date:	06/22/2	:009 22:25	Ana	ilyst:	BDG						
	Analyte	Sample	MS	MS	MS %	MS		MS	D %	RPD	RPD	Low	High
	,	Result	Spike Added	Result	Recover	y Spik Adde	e Resu ed	lt Rec	overy		Limit	Limit	Limit
Fluoride		47.7	5 200	217.9	9 85.	07 2	200 2	03.0 7	7.61 *	7.095	20	80	120
		1							· I		L	L	L

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

Blank D - Recovery Unreportable due to Dilution

* - Recovery Outside Advisable QC Limits

MI - Matrix Interference

E - Estimated Value exceeds calibration curve

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Conoco Phillips COP ElPaso1A

Analysis: Method:	ion Chromatography E300.0	,			WorkOrder: Lab Batch ID:	09061075 R276654A
	Meth	od Blank		Samples in An	alytical Batch:	
RunID: IC2_090	626A-5087226	Units:	mg/L	Lab Sample ID	Client Sa	mple ID
Analysis Date:	06/26/2009 16:05	Analyst:	BDG	09061075-01C	MW-1	
				09061075-02C	MW-2,	
				09061075-03C	MW-3	
	Analita		Beault Bea Lim	09061075-04C	MW-4	
Sulfa	Analyte			09061075-05C	Duplicate	
Joura						

	Laboratory Con	trol Sample	+ (LCS)
RunID:	IC2_090626A-5087227	Units:	mg/L
Analysis Date:	06/26/2009 16:24	Analyst:	BDG

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Sulfate	10.00	9.926	99.26	85	115

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

Sample Spiked: RunID: Analysis Date:

09061274-01 IC2_090626A-5087239 06/26/2009 22:37

Units: mg/L BDG 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
Sulfate	ND	. 10	9.530	95.30	10	9.497	94.97	0.3469	20	80	120

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B/V - Analyte detected in the associated Method Blank

MI - Matrix Interference

D - Recovery Unreportable due to Dilution

* - Recovery Outside Advisable QC Limits

J - Estimated value between MDL and PQL 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.

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Sample Receipt Checklist And Chain of Custody

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Sample Receipt Checklist

Workorder:	09061075		Received By:	RE
Date and Time Received:	6/19/2009 9:30:00 AM		Carrier name	: Fedex-Standard Overnight
Temperature:	0.7°C		Chilled by:	Water Ice
1. Shipping container/co	ooler 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 pre-	sent?	Yes 🗹	No 🗌	
5. Chain of custody sign	ned when relinquished and received?	Yes 🗹	No 🗌	
6. Chain of custody agr	ees with sample labels? rip blanks not listed on chain.	Yes	No 🗹	
7. Samples in proper co	ntainer/bottle?	Yes 🔽	No	
8. Sample containers in	tact?	Yes 🔽	No 🗌	
9. Sufficient sample vol	ume for indicated test?	Yes 🗹	No 🗌	
10. All samples received	within holding time?	Yes 🗹	Νο	
11. Container/Temp Blan	k temperature in compliance?	Yes 🗹	No 🗌	
12. Water - VOA vials hav	re zero headspace?	Yes 🗹	No 🗌 🛛 V	/OA Vials Not Present
13. Water - Preservation	checked upon receipt (except VOA*)?	Yes 🗹	No 🗌	Not Applicable
*VOA Preservation Cl	necked After Sample Analysis			·
SPL Representat	ve:	Contact Date 8	L Time:	
Client Name Contact	ed:			
Non Conformance 1. Issues:	Logged in on hold pending client contact.			
Client Instructions:			· · · · · · · · · · · · · · · · · · ·	

327822	pageof	ested Analysis	a																Intact? Ice? Temp:	PM (eview (initial):				2) Hughes Drive II 49686 (231) 947-5777
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		matrix bottle size pr	A=ai A=ai factor fa	103 x=0th 0=0 1 x=0 0=01 1 x=0 0=01 0=01	22=HIV (602 A=soil E=cnd A=soil E=cnd A=soil	titer S star S star S star A star A A	HCI =HCI =HCI =HCI =HCI =HCI =HCI =HCI =	mp grab ≶ 55 Å`C 1 & 1	ON V N	X W V HO	OH N M X	DH N M X	X W V 40 1	XAVX	XQWX	XWPX	X A X X	X A X X	remarks:	Finail PDF		date K M time 430	date	ate (9/09 time 30	sador Caffery Parkway 0583 (337) 237-4775
	Request & Chain of Custody Record	,h	SCARAL KO. NE SUITO	UND FINIT VANUE RANCE	1A CARDON CONTRACTOR	NH NH	Ph:	DATE TIME con	(0/18/09/ 0920	6/18/09 0900	6119 09 1015	61609 0935	6116109 1000	6/18/09/0920	41K 09 0900	6118/09 1015	6 18/09 0935	6/18/09 1000	Laboratory r	Special Reporting Requirements Results: Fax	Standard QC Level 3 QC Revert QC TX TRH	I. Relinquished by Sampler:	3. Relinquished by:	5. Relinquished by:	e Drive I 500 Ambass) 660-0901 Scott, LA 70
	Analysis R	Client Name: TO-Tro TOC	Address: Col 21 Indian City ATDUQUOROUD	Phone/Fax: 505 - 237 - 8	Project Name/No.: ELOCO	Site Name: Site Location: 12/(FMCV)	Invoice To:	SAMPLE ID	HW-1	MW-2	MW-3	h-MM	Duplicate	MW-1	MW-2	MW-3	M-M-J	Duplicat	Client/Consultant Remarks:	Requested TAT	1 Business Day Contract	2 Business Days	3 Business Days	Other	U 8880 Interchange Houston, TX 77054 (713

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 		SPL, Inc.										327	824
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Address Constrained Market	Client Name: TOAYA TECI	P			ir mat	rix bottle	size	pres.		Re	quested	l Analy	/șis
Interform Size - 3.3.3 - 7.U(U) Printer (contract, EL) 20.5 - 1.3.3 - 7.U(U) Printer (contract, EL) 20.5 - 1.4 Printer (contract, EL) 20.5 - 1.4 Printer (contract, EL) 20.5 - 1.4 Site holds: MWU - 1 MWU - 3 DupUL DHC Site holds: MU - 1 DupUL DHC Site holds: DupUL DHC <td>City Albitational</td> <td>State NM</td> <td></td> <td>NO IO</td> <td>e=A</td> <td>lass lass ther</td> <td>rial er</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	City Albitational	State NM		NO IO	e=A	lass lass ther	rial er						
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