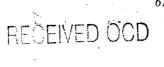
# 3R - 427

# DEC 2009 QUARTERLY GWMR

02/23/2011





6121 Indian School Rd. NE Suite 200 Albuquerque, NM 87110 (505) 237-8440

2011 FEB 28 P 1:06

February 23, 2011

Mr. Glenn von Gonten State of New Mexico Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, New Mexico 87505

> RE: ConocoPhillips El Paso No. 1A December 2009 Quarterly Groundwater Monitoring Report Blanco, New Mexico

Dear Mr. von Gonten:

Enclosed please find a copy of the above-referenced document as compiled by Tetra Tech, Inc., formerly Maxim Technologies, for this Blanco area site.

Please do not hesitate to contact me at (505) 237-8440 if you have any questions or require additional information.

Sincerely,

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Kelly E. Blanchard

Kelly E. Blanchard Project Manager/Geologist

Enclosures (1)

Cc: Brandon Powell, NMOCD Terry Lauck, ConocoPhillips (electronic)

# QUARTERLY GROUNDWATER MONITORING REPORT DECEMBER 2009 SAMPLING EVENT

# CONOCOPHILLIPS COMPANY EL PASO NO.IA SAN JUAN COUNTY, NEW MEXICO

API # 30-045-22778

**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

May 2010

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3. Site Cross Section

- 4. Groundwater Elevation Contour Map
- 5. Groundwater Quality Standard Exceedences Concentration Map

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2. Groundwater Elevation Data Summary

3. Groundwater Laboratory Analytical Results Summary

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Appendix A. Groundwater Sampling Field Forms

Appendix B. Groundwater Laboratory Analytical Report

## QUARTERLY GROUNDWATER MONITORING REPORT CONOCOPHILLIPS COMPANY EL PASO NO.1A, SAN JUAN COUNTY, NEW MEXICO

## **I.0 INTRODUCTION**

This report details the results of quarterly groundwater monitoring completed by Tetra Tech, Inc. (Tetra Tech) on December 15, 2009 at the ConocoPhillips Company El Paso No. 1A site in San Juan County, New Mexico (Site). This sampling event represents the sixth quarter of groundwater monitoring conducted by Tetra Tech at the Site.

The Site is located on BLM land east of Blanco, NM near the intersection of New Mexico Highway 64 and County Road 4450 in Section 20, Township 29 North, Range 9 West. The Site can be accessed by turning southeast on County Road 4450 and traveling approximately 300 feet before veering south. Veer south again after traveling 0.1 miles and continue 0.4 miles to the Site. The Site consists of well head El Paso No. IS and well head El Paso No. IA; with associated equipment and installations. The location and general features of the Site are presented as **Figures 1** and **2**, respectively. A generalized cross section of the Site is presented as **Figure 3**.

## I.I Site History

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

## 2.0 METHODOLOGY AND RESULTS

## 2.1 Groundwater Monitoring Methodology

### Groundwater Elevation Measurements

On December 15, 2009 groundwater elevation measurements were recorded in Monitor Wells MW-1, MW-2, MW-3, and MW-4 using a dual interface probe. Groundwater elevations are detailed in **Table 2**. A groundwater elevation contour map is presented as **Figure 4**. Based on December 2009 monitoring event data, groundwater flow is southwest and consistent with historic records at this site. The San Juan River is approximately 1 mile from the site and flows west.

#### Groundwater sampling

Each monitor well was sampled after approximately 3 well casing volumes had been purged; or until measured groundwater parameters including temperature, pH, conductivity, total dissolved solids (TDS), oxidation-reduction potential (ORP), and dissolved oxygen (DO) had stabilized. Parameters were collected using a YSI 556 multi-parameter sonde and were recorded on Tetra Tech Groundwater Sampling Field Forms (**Appendix A**).

Purged groundwater was disposed of in the Site produced water tank (**Figure 2**). A 1.5-inch polyethylene 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 (SPL) located in Houston, Texas. The samples were analyzed for presence of volatile organic compounds (VOC) including benzene, toluene, ethylbenzene, *Tetra Tech* 1 *May 2010* 

and xylenes (BTEX) by Environmental Protection Agency (EPA) Method 8260B, ion chromatography by EPA Method E300.0, total dissolved solids (TDS) by EPA Method 2540C, and dissolved metals for manganese by EPA Method 6010B.

Total metals testing was conducted during prior events as requested by the Oil Conservation Division (OCD) in April of 2008; however, since all New Mexico Water Quality Control Commission (NMWQCC) drinking water standards pertain to dissolved metals concentrations, Tetra Tech requested and received approval from the OCD on September 8, 2009 to run dissolved metals analyses for only those metals which had exceeded the NMWQCC drinking water standards. Dissolved metals testing will continue for metals exceeding NMWQCC drinking water standards.

## 2.3 Groundwater Sampling Analytical Results

The December 2009 analysis of the collected groundwater samples indicates that all BTEX constituents are below NMWQCC groundwater quality standards. Groundwater laboratory analytical results are summarized in **Table 3**. A figure showing all NMWQCC standard exceedences is provided as **Figure 5**. The laboratory analysis report for the December 2009 groundwater sampling event is included as **Appendix B**.

## • Fluoride

The groundwater quality standard for fluoride is 1.6 milligrams per liter (mg/L). Laboratory detection limits of December 2009 groundwater samples were set higher than the NMWQCC standard for fluoride by SPL. Tetra Tech notified SPL and future detection limits will be below the standard. During the previous monitoring event in September 2009; the fluoride standard was only exceeded in MW-4 at 2.26 mg/L.

#### Sulfate

The groundwater quality standard for sulfate is 600 mg/L. Groundwater collected from Monitor Wells MW-1, MW-2, MW-3 and MW-4 were found to contain sulfate at concentrations of 10,100 mg/L; 22,100 mg/L; 7,490 mg/L; and 5,660 mg/L; respectively.

## Manganese

The groundwater quality standard for dissolved manganese is 0.2 mg/L. Groundwater collected from Monitor Wells MW-1, MW-2, MW-3 and MW-4 were found to contain manganese at concentrations of 1.68 mg/L; 1.54 mg/L; 0.583 mg/L; and 0.201 mg/L; respectively.

#### • Total Dissolved Solids

The groundwater quality standard for TDS is 1,000 mg/L. Groundwater collected from monitor wells MW-1, MW-2, MW-3 and MW-4 were found to contain TDS at concentrations of 10,400 mg/L; 25,100 mg/L; 9,230 mg/L; and 6,500 mg/L; respectively.

## 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 *Tetra Tech* 2 *May 2010* 

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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.

3.

## **FIGURES**

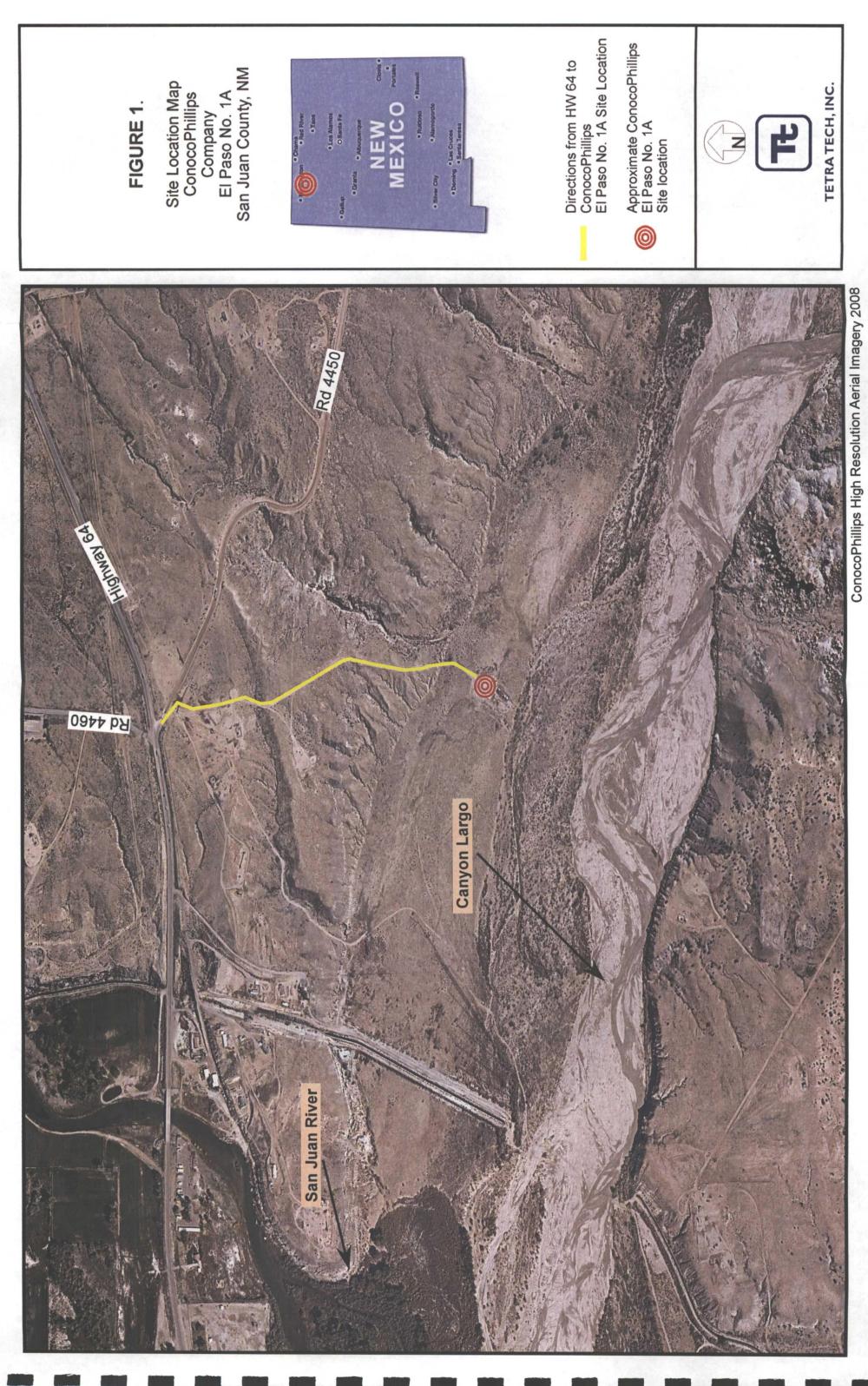
Site Location Map
 Site Layout Map
 Site Cross Section

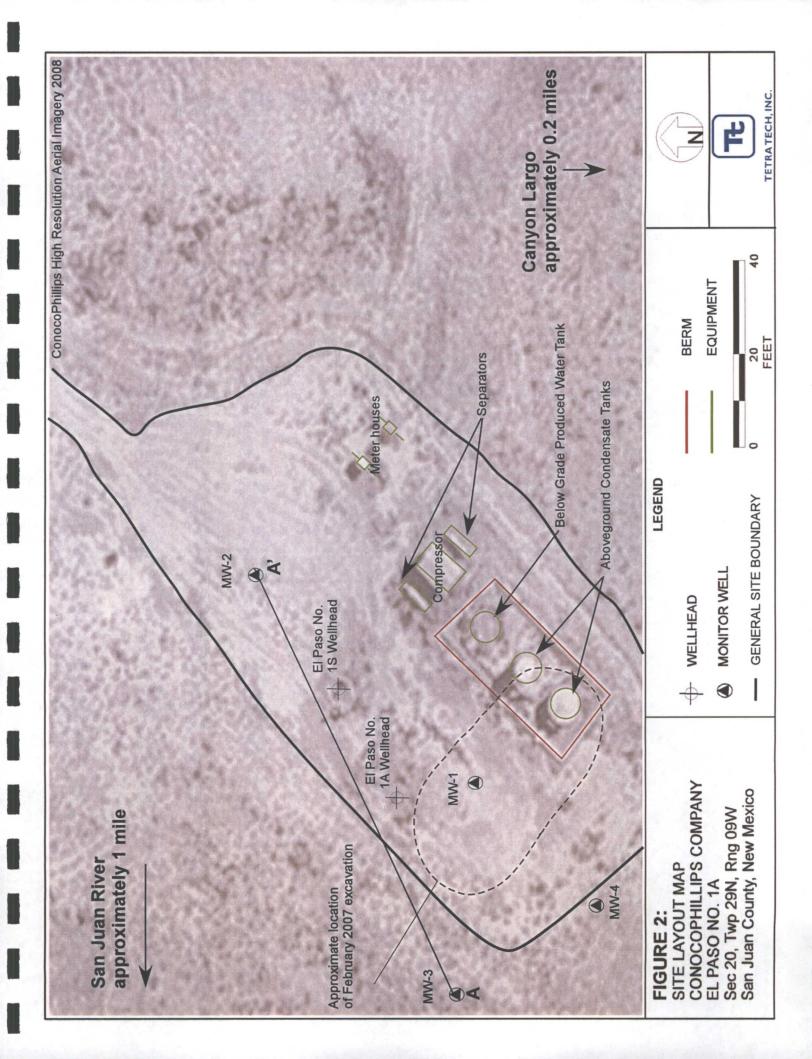
4. Groundwater Elevation Contour Map

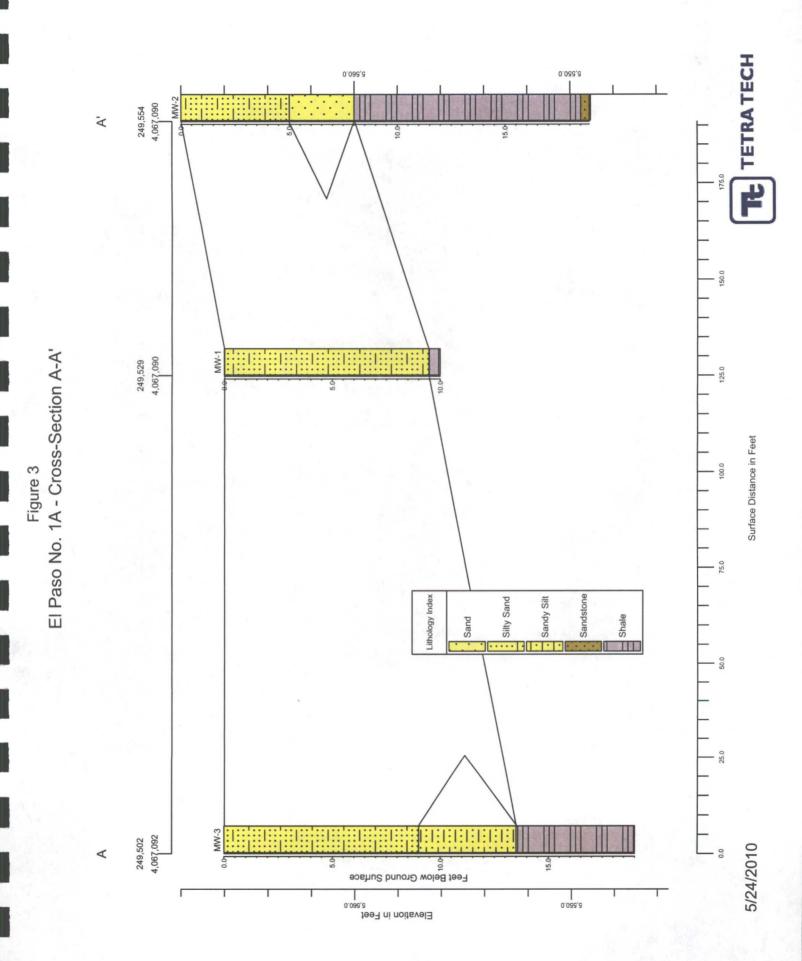
5. Groundwater Quality Standard Exceedences Concentration Map

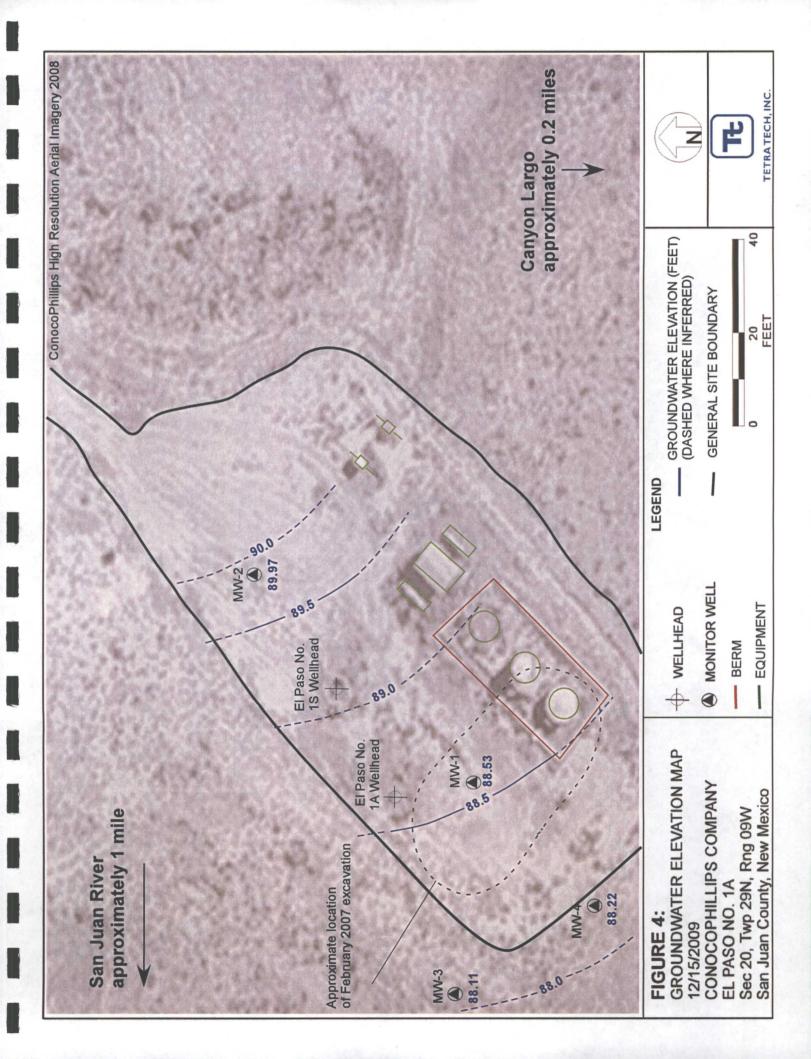
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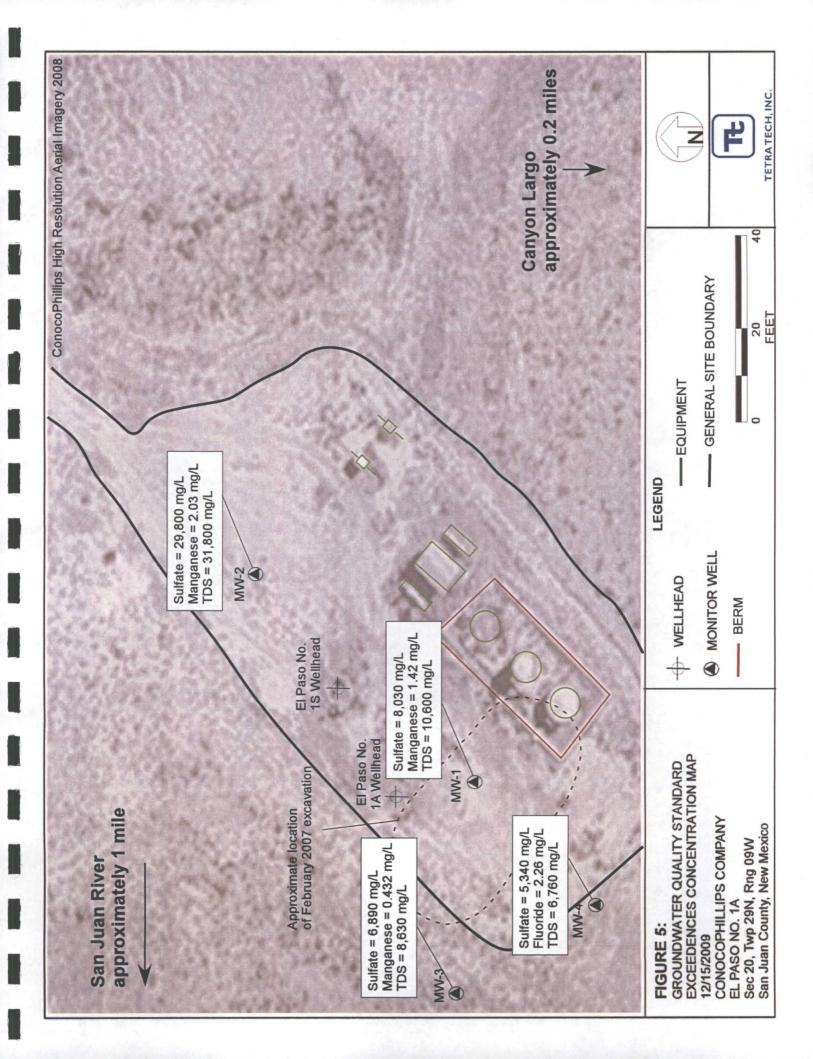
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# TABLES

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

DATE	ACTIVITY
5-Jan-78	Well spudded by El Paso Natural Gas Co.
1-Nov-86	Meridian Oil, Inc. becomes the operator under El Paso Production Company
31-Dec-00	Operator name change from Burlington Resources Oil and Gas Company to Burlington Resources Oil and Gas Company LP.
31-Mar-06	ConocoPhillips Company completed the aquistion of Burlington Resources.
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.
ena in Sep-07 datem	Envirotech report recommends plugging and abandonment of the temporary ground water monitoring well and a No Further Action determination for the Site (Envirotech, 2007).
Apr-08	Oil Conservation Division of NM Energy, Minerals, and Resources Dept. indicates additional investigation and sampling is necessary for closure consideration during a meeting with Glenn Von Gonten
25-Oct-08	1st quarter sampling of MW-1 by Tetra Tech
Jan-09	Attempt to install additional monitoring wells; roads inaccessible by drill rig due to winter weather conditions.
28-Jan-09	2nd quarter groundwater sampling of MW-1 by Tetra Tech. Groundwater samples were reported missing by Southern Petroleum Laboratory. No data was received for January 2009 sampling event.
3-4-March-09	Monitoring wells MW-2, MW-3, MW-4 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.
29-Sep-09	3rd quarter groundwater sampling conducted by Tetra Tech to include wells MW-1, MW-2, MW 3 and MW-4. Samples collected for dissolved metals exceeding standards that were previously run by the total metals test method; Al, Mn, Fe.
15-Dec-09	4th quarter groundwater sampling conducted by Tetra Tech to include wells MW-1, MW-2, MW 3 and MW-4. Analytical results for flouride are inconclusive.

#### Table 1. Site History Timeline - ConocoPhillips Company El Paso 1A

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

							F
Weli ID	Total Depth (ft bgs)	Screen Interval (ft)	*Elevation (ft) (TOC)	Date Measured	Depth to Groundwater (ft below TOC)	Relative Groundwater Elevation	
				9/21/2007	7.00	92.52	
		•		10/25/2008	10.92	88.60	_
			1	1/30/2009	ŇM	NM	-
MW-1	13.35	4'8"-9'8"	99.52	4/2/2009	10.33	89.19	
				6/18/2009	10.65	88.87	
				9/29/2009	10.96	88.56	
		,		12/15/2009	10.99	88.53	
				4/2/2009	8.49	90.23	_
MW-2	20 74	3-17 0	08 7 <i>7</i>	6/18/2009	8.71	90.01	
7	1.07	2.2.2	20.00	9/29/2009	8.70	90.02	_
				12/15/2009	8.75	89.97	
				4/2/2009	9.71	88.47	_
MW-3	01 10 01 10	3 1-18 1	08 175 -	6/18/2009	9.75	88.43	
	2		201.000	9/29/2009	10.10	88.08	
				12/15/2009	10.07	88.11	_
				4/2/2009	9.74	88.54	
MW-4	20.82	2 0 <u>-</u> 17 0	98 78	6/18/2009	9.78	. 88.50	_
			2	9/29/2009	10.04	88.24	_
				12/15/2009	10.06	88.22	-

ft = Feet

TOC = Top of casing

bgs = below ground surface

\* Elevation relative to wellhead, set at an arbitrary elevation of 100 feet above mean sea level

NM = Not Measured

Tetra Tech

Table 3. Groundwater Laboratory Analytical Results Summary - ConocoPhilitips Company El Paso 1A

Well D         Date         Bination         Fundition         Funditi												
9717007         14         0.5         -6.2         0.3         NS         NA	Well ID	Date	Benzene (μg/L)	Toluene (μg/L)	Ethylbenzene (μg/L)	Xylenes (µg/L)	Fluoride (mg/L)	Sulfate (mg/L)	Aluminum (mg/L)	lron (mg/L)	Manganese (mg/L)	Total Dissolved Solids (mg/L)
10.25/2008         (-0.5)         (-0		9/21/2007	1.4	0.5	<0.2	0.3	NS	NS	NS	NS	NS	NA
130/2009NANANANANANANANA14/2009<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.514/2009<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.5<0.59/29/2009<1<1<1<1<1<1<1<1<1<1<1<112/15/2009<1<1<1<1<1<1<0.0237142<14212/15/2009<		10/25/2008	<b>2</b> .0>	<0.5	<b>5</b> .0>	<0.5	.<2	6400	NS	26*	5.49*	NA
412.000             29:6          0.03         3.14*           6138.000         <5         <5         <5         <5         <5         770         770         7.16         3.06*           9129.2000         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1         <1<		1/30/2009	٧N	NA	٩N	AN	AN	AN	NA	NA	NA	AN
618/2005              7504         756 <sup>5</sup> 306 <sup>5</sup> 306 <sup>5</sup> 9/29/2005         <1               740          766 <sup>5</sup> 306 <sup>5</sup> 306 <sup>5</sup> 9/29/2005                 142            142           12/15/2009                 146          146          146           146          146          146          146          146          146          146          146         146          146          146          146          146          146 <th>MW-1</th> <th>4/2/2009</th> <th>&lt;0.5</th> <th>&lt;0.5</th> <th>&lt;0.5</th> <th>&lt;0.5</th> <th>1.92</th> <th>7580</th> <th>2.21*</th> <th>29.6*</th> <th>3.14*</th> <th>10000</th>	MW-1	4/2/2009	<0.5	<0.5	<0.5	<0.5	1.92	7580	2.21*	29.6*	3.14*	10000
9129/2009         <1		6/18/2009	<5	<5	<5>	<5	2.04	0267	2.1*	7.66*	3.06*	AN
1215/2009 $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$		9/29/2009	<١>	<1	<1	4	1.56	8030	<0.1	0.0237	1.42	10600
4/22009         <0.5		12/15/2009	<1	<1	<۱	4	<50	10100	NA	NA	1.68	10400
618/2009         <5		4/2/2009	< 2.0>	<0.5	<0.5	<0.5	<0.5	15900	0.705*	0.751*	1.16*	22500
	C-WIM	6/18/2009	<5.	<5	<5	<5	0.67	17000	1.49*	1.23*	1.92*	AN
12/15/2009 $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$ $<1$	7-4410	9/29/2009	<1	<1	<1	4	<0.5	29800	<0.1	<0.02	2.03	31800
4/2/2009         <0.5		12/15/2009	<1	<1	<1	<1	<100	22100	NA	NA	1.54	25100
6/18/2009         <5		4/2/2009	<0.5	<0.5	52	362	1.68	4090	5.47*	9.31*	0.788*	7530
9/29/2009         <1	MW.3	6/18/2009	<5	<5	15	87	1.68	5750	3.75*	5.3 <sup>∗</sup>	0.454*	AN
12/15/2009         <1		9/29/2009	4	<1	2.7	20	1.47	6890	0.224	0.14	0.432	8630
4/2/2009         <0.5		12/15/2009	·<1	<1	. 3	24	<50	7490	NA	NA	0.583	9230
6/18/2009         <5		4/2/2009	<0.5	<0.5	<0.5	<0.5	2.42	4750	2.1*	2.12*	<b>.0.396</b>	6660
9/29/2009         <1	MW-4	6/18/2009	<5	<5	<5	<5	2.25	5300	5.52*	6.91*	0.333*	NA
09         <1		9/29/2009	4	<b>c1</b> .	£	ţ	2.26	5340	0.943	0.393	0.134	6760
10 (µg/L) 750 (µg/L) 750 (µg/L) 620 (µg/L) 1.6 (mg/L) 600 (mg/L) 5 (mg/L) 1 (mg/L) 0.2 (mg/L)		12/15/2009	4	<1	₽	<1	<50	5660	NA	NA	0.201	6500
	NMWQCC	C Standards	10 (µg/L)	750 (µg/L)	750 (µg/L)	620 (µg/L)	1.6 (mg/L)	600 (mg/L)	5 (mg/L)	1 (mg/L)	0.2 (mg/L)	1000 (mg/L)
	Evaluation	-										

 Explanation

 ND = Not Detected

 NMWQCC = New Mexico Water Quality Control Commission

 mg/L = milligrams per lifer (parts per million)

 mg/L = milligrams per lifer (parts per million)

 MA = Not Analyzed due to laboratory error

 0.7 = Below laboratory detection limit of 0.7 ug/L

 Bold = concentrations that exceed the NMWQCC limits

 \* = Results reported for total metals analysis, results can not be compared to NMWQCC Standards for dissolved metals

Tetra Tech, Inc.

Page 1 of 1

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# **APPENDIX A**

## **GROUNDWATER SAMPLING FIELD FORMS**

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WATER SAMPLING FIELD FORM

Project Name El Paso 1A	Page1 of4
Project No.	
Site Location Blanco, NM	A 7
Site/Well No. MW-1 Coded/ Replicate No. Duplicate	Date 21509
Weather SANAL, COOS Began 68	Time Sampling Completed [625]
)/ EVACUATION DATA	
Description of Measuring Point (MP) Top of Casing	
Height of MP Above/Below Land Surface MP Elevation	n
Total Sounded Depth of Well Below MP 13.58 Water-Level	Elevation
10 010	· · · · · · · · · · · · · · · · · · ·
Gallons Pur	nped/Bailed)
Wet Water Column in Well Prior to Sam	pling
Gallons per Foot0.16Sampling Pu	imp Intake Setting
Gallons in Well (feet below la	and surface)
Purging Equipment Purge pump / Bailer X3=1.25	
SAMPLING DATA/FIELD PARAMETERS	
TimeTemperature (°C)pHConductivity ( $\mu$ S/cm³)TDS (g/L16.2113.731.5112.0577.638	
7.23 3.75 7.47 11958 7.48	2.88 -69. 194161
1624 13.72 7,53 11895 7.53	<u>3.47 -72.5</u> 025gallaus
Sampling Equipment <u>Purge Pump/Bailer</u>	
Constituents Sampled Container Description	Preservative
BTEX 3 40mL VOA's	HCI
Total-Metals Dissolved Mn plastic	none
Flouride, Sulfate plastic	none
$\mathbf{N}$ is the state of the second se	11.
Romarks Duplicate Collected @ 1630,	_ Hz() is dark brown
Sampling Personnel With	bio odor, no shoen
Well Casing Volumes	
Gal./ft. 1 ¼" = 0.077 2" = 0.16 3"	= 0.37 4" = 0.65
	= 0.50 6" = 1.46

R:\Share\MaxIm Forms\Field Forms\EP1A Water Sampling Field Forms.xis

FIOJECL Name	El Paso 1A			Page	2 of
Project No.				· · _	
Site Location	Blanco, NM				
Site/Well No.	MW-2	Coded/ Replicate No.		Date	2/15/09
Weather	surny, cold 31°	Time Sampling Began 1634		Time Sampling Completed	1650
	.,	EVACUATION D	ATA		
Description o	f Measuring Point (MP) Top	of Casing			
Height of MP	Above/Below Land Surface		MP Elevation		
Total Sounde	d Depth of Well Below MP	20.75	Water-Level El	evation	
Held	_ Depth to Water Below MF Water Column in Wel		Diameter of Ca Gallons Pumpe Prior to Sampli	d/βailed)	
Purging Equi	Gallons per Foo Gallons in Wel	<u>1.92 x 3 = 5.76</u>		o Intake Setting d surface)	
enantine and the constant of		SAMPLING DATA/FIELD	PARAMETERS		
Time  4,31  4,4 i  644  644	Temperature (°C) 1.2.46 1.4.71 1.5.03 1.5.03	$\begin{array}{c c c c c c c c c c c c c c c c c c c $		287 -	P(mV) 53.9 58.4 57.5 57.5 57.5 57.5 57.5 57.7
Sampling Eq	uipment Purc	ge Pump/Bailer		<u> </u>	v dans a v three spranness statemen
	ituents Sampled	Container Descrip	tion	Pres	ervative
BTEX	Nice-Ind Ma	3 40mL VOA's		HCI	
Total-Metals		_plastic		none	<u> </u>
Flouride, Sulf		plastic	<u> </u>	none	<u> </u>
	H20 is light	It gray, bio	odar, no	sheen	
Remarks Sampling Pe	rsonnel				
		Well Casing V	(olumon		

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## WATER SAMPLING FIELD FORM

Project Name	El Paso 1A				Page	ə <u>3</u>	of <u>4</u>
Project No.			······				
Site Location	Blanco, NM						
Site/Well No.	<u>MW-3</u>	Coded/ Replicate No.			Date	2/15/09	
Weather	Summy cold 31°F	Time Sampling Began	1600	-	Time Samplir Completed	<sup>19</sup> 6	20
		EVACU				<u> </u>	
Description of I	Measuring Point (MP) Top	of Casing					
		· · ·					
Height of MP A	bove/Below Land Surface		M	P Elevation	·····		
Total Sounded	Depth of Well Below MP	21.11	W	ater-Level E	levation		i Data Pag
Held	Depth to Water Below MF	10.07		iameter of Ca allons Pumpe			
Wet	Water Column in Wel	11.04		rior to Sampli			
	Gallons per Foo	0.16					
	Gallons in Wel	1.76x3=0	5.28 Si		p Intake Setting d surface)		
	1	7			<u> </u>		for the state of the state of the
Purging Equipr	ment Purge pump Ba				· · ·		
Time	Temperature (°C)	pH Conductiv	/FIELD PARA	METERS TDS (g/L)	DO (mg/L)	ORP (mV)	vol.
1611	14.45 =	2.94 100	139	6.782	1.64	-87.0	93,592l
1614		ميكانين <u>مسيحة مسيحة مستكلمات مسيحي</u>	206	6.675	2.58	-98.1	-7.5 yzz.
•							
Sampling Equi	nment Purc	e Pump/Bailer				.1	
	·					D II	
	<u>uents Sampled</u>		Description			<u>Preservative</u>	
BTEX	the had the form	3 40mL VOA's			HCI		
Total Metals	Dissolved Hetals !!	<b>N</b> plastic			none	• 	
Flouride, Sulfa	te	plastic			none		·
Remarks						· · · · · · · · · · · · · · · · · · ·	
Sampling Pers	onnel					·······	
1 0			Cooling Volum			<u></u>	٦
	Gal./ft. 1 ¼° = 0.077		Casing Volum		= 0.37	4" = 0.65	

Project No.	El Paso 1A				Page	4	of 4
nojectivo.			·			•	
Site Location	Blanco, NM						
Site/Well No.	MW-4	Coded/ Replicate No.			Date	2/15/0	99.
Weather	zumy, Cold 31°F	Time Sampling Began	1555	 	Time Sampling Completed	<u>1/e1</u>	0
	"	EV	ACUATION DAT	A			
Description of N	Aeasuring Point (MP) Top	of Casing					-
-	bove/Below Land Surface			MP Elevation			
	Depth of Well Below MP	20.86		Water-Level Ele	vation	······································	e site
	Depth to Water Below M	18.01		Diameter of Cas			
	Water Column in We	10.00		Gallons Pumpeo Prior to Samplin	Bailed	·	
			<u> </u>	Filor to Samplin	9		
توريستان بود. مورستان بود. س	Gallons per Fo			Sampling Pump			
494 g.	Gallons in We			(feet below land	surface)	<u> </u>	
Purging Equipn	nent Purge pump //B	ailer X	(3= 5.18	4	<u></u>		، ئوتى يەج - بۇئ بىر
	Tomoreture (%C)						1
Time 1601	Temperature (°C)		uctivity (µS/cm³) 7926	TDS (g/L)	DO (mg/L) <b>4,0 i</b>	ORP (mV) ~64,7	4 gallor
1604	15.38	7,93	7956	5.171	\$ 2.88	-67.8	4.5 gallor
1606	15.69	1.40 8	<u> 2194</u>	5.210	680	- 61.0	
	·	*					
Sampling Equip	oment <u>Pur</u>	ge Pump/Bailer			De		
<u>Constitu</u>	ents Sampled	Cont	tainer Description	<u>1</u>	E	reservative	2
		3 40mL VOA's			HCI		
BTEX	Dissolved Min	plastic			none		
·····					none		
Total Metals	- · · · · · · · · · · · · · · · · · · ·	plastic					
BTEX Total Metals Flouride, Sulfat			1	1			
Total Metals		plastic	la bio	odor, no	sheen	_ pivgl	Hza
Total Metals Flouride, Sulfat	Hz0 light		la bio	odor, no	sheen grad	progr	bailer

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# GROUNDWATER LABORATORY ANALYTICAL REPORT

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

## **Conoco Phillips**

	Certificate of Analysis Number: <u>09120787</u>							
Report To:	Project Name: COP ElPaso1A							
Tetra Tech, Inc.	Site: Blanco, 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: 1/3/2010							

## This Report Contains A Total Of 17 Pages

Excluding This Page, Chain Of Custody

And

Any Attachments

1/4/2010

Date

C

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

C	ertificate of Ana	alysis Number:	
	<u>09120</u>	<u>)787</u>	
Report To:		Project Name:	COP ElPaso1A
Tetra Tech, Inc.	:	Site:	Blanco, NM
Kelly Blanchard		Site Address:	
6121 Indian School Road, N.E.			
Suite 200 Albuquerque	ļ	PO Number:	
NM		State:	New Mexico
87110-		State Cert. No .:	
ph: (505) 237-8440 fax:		Date Reported:	1/3/2010

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:

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 flimitations, this cannot be provided at this time.

**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.

a Cardenas

09120787 Page 1 1/4/2010

Erica Cardenas Project Manager

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



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

## **Conoco Phillips**

	-	<u>0912</u>	<u>0787</u>		
Report To:	Tetra Tech, Inc.		Project Name:	COP ElPaso1A	
	Kelly Blanchard		Site:	Blanco, NM	
	6121 Indian School Ro Suite 200	oad, N.E.	Site Address:		
	Albuquerque				
	NM		<u>PO Number:</u>		
	87110-	· · · · · · · · · · · · · · · · · · ·	State:	New Mexico	
	ph: (505) 237-8440	fax: (505) 881-3283	State Cert. No.:		
<del>ax To:</del>	•		Date Reported:	1/3/2010	

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
MW-1	09120787-01	Water	12/15/2009 4:25:00 PM	12/18/2009 9:30:00 AM	292840	
MW-2	09120787-02	Water	12/15/2009 4:50:00 PM	12/18/2009 9:30:00 AM	292850	
MW-3	09120787-03	Water	12/15/2009 4:20:00 PM	12/18/2009 9:30:00 AM	292850	
MW-4	09120787-04	Water	12/15/2009 4:10:00 PM	12/18/2009 9:30:00 AM	292850	
Duplicate The Area Cartas For a Manufacture	09120787-05	Water	12/15/2009 4:30:00 PM	12/18/2009 9:30:00 AM	292735	
Trip Blank	09120787-06	Water	12/17/2009 11:30:00 AM	12/18/2009 9:30:00 AM	292735	

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a Cardenas 85

1/4/2010

Date

Erica Cardenas Project Manager

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

> > Ted Yen Quality Assurance Officer

> > > 09120787 Page 2 1/4/2010 10:57:47 AM



8880 INTERCHANGE DRIVE

HOUSTON, TX 77054 (713) 660-0901

Client Sample ID:MW-	1		Collected	: 12/15/200	9 16:25	SPL Sar	mple ID:	09120787-01
			Site: B	lanco, NM				
Analyses/Method	Resu	it QUAL	Rep.Limi	t I	Dil. Factor	Date Ana	lyzed An	alyst Seq. #
ION CHROMATOGRAF	PHY			MCL		E300.0	Units:	mg/L
Fluoride	. NE	) .	50	)	100	12/28/0	97:49 BDG	5345588
Sulfate	1010	) .: C	500	)	1000	12/28/09	15:56 BDG	5345637
METALS BY METHOD	6010B, DISSOLVE	D		MCL	SI	W6010B	Units:	mg/L
Manganese	1.6	3	0.00	5	1	12/29/09	13:26 AB1	5346750
Prep Method	Prep Date	Prep Initials	Prep Factor	1				
SW3005A	12/21/2009 10:00	R_V	1.00					
TOTAL DISSOLVED SO	DLIDS			MCL	SI	M2540 C	Units:	mg/L
Total Dissolved Solids (Residue,Filterable)	1040	)	100	)	10	12/21/09	16:30 CFS	5339531
VOLATILE ORGANICS	BY METHOD 8260	B		MCL	SI	W8260B	Units:	ug/L
Benzene	NE	)		ł	1	12/25/09	15:38 LU_l	5343877
Ethylbenzene	. NE	),			1	12/25/09	15:38 LU_l	5343877
Toluene	NE	) .		1	1	12/25/09	15:38 LU_I	_ 5343877
m,p-Xylene	. NC	) i		1	1	12/25/09	15:38 LU_I	5343877
o-Xylene		) .		1	1	12/25/09	15:38 LU_I	_ 5343877
Xylenes,Total	NE	),		t	1	12/25/09	15:38 LU_I	5343877
Surr: 1,2-Dichloroethane	e-d4 98.	3 /	% 70-130	)	1	12/25/09	15:38 LU_I	- 5343877
0 1 0 1						40/05/00	45.00	5343877
Surr: 4-Bromofluoroben:	zene 🚛 📜 102	2 · · /	% 74-12	<b>b</b>	1	12/25/09	15:38 LU_l	- 53436/7

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		Collect	ed: 1	2/15/2009 16:50	SPL San	n <b>ple ID:</b> 0912	0787-02
			Site:	Blai	nco, NM	•		
Analyses/Method	Result	QUAL	Rep.L	imit	Dil. Facto	or Date Anal	yzed Analyst	Seq. #
ION CHROMATOGRA	VPHY		•		MCL	E300.0	Units: mg/L	
Fluoride	ND			100	200	12/28/09	8:06 BDG	5345589
Sulfate	22100		5	5000	10000	12/30/09	13:00 BDG	5349007
METALS BY METHOD	0 6010B, DISSOLVED	)			MCL S	SW6010B	Units: mg/L	
Manganese	1.54		0.	.005	1	12/29/09	13:31 AB1	5346751
Prep Method	Prep Date	Prep Initials	Prep Fac	tor				
SW3005A	12/21/2009 10:00	R_V	1.00					
TOTAL DISSOLVED S	SOLIDS				MCL S	M2540 C	Units: mg/L	
Total Dissolved Solids (Residue,Filterable)	25100		1	200	20	12/21/09	16:30 CFS	5339532
VOLATILE ORGANIC	S BY METHOD 8260E	3			MCL S	SW8260B	Units: ug/L	
Benzene	ND			1	1	12/25/09	16:07 LU_L	5343878
Ethylbenzene :	ND			1	1	12/25/09	16:07 LU_L	5343878
Toluene	ND			1	1	12/25/09	16:07 LU_L	5343878
m,p-Xylene	ND	;		1	1	12/25/09	16:07 LU_L	5343878
o-Xylene	ND	· ;		1	. 1	12/25/09	16:07 LU_L	5343878
Xylenes,Total	ND			1	1	12/25/09	16:07 LU_L	5343878
Surr: 1,2-Dichloroetha	ne-d4 104	,	% 70-	130	1	12/25/09	16:07 LU_L	5343878
Surr: 4-Bromofluorobe	nzene 99.8	- in (	% 74-	-125	1	12/25/09	16:07 LU_L	5343878
Surr: Toluene-d8	100	L.	% 82-	118	· 1	12/25/09	16:07 LU_L	5343878

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
- ${\sf J}$  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: 1	2/15/2009	16:20	SPL San	n <b>ple ID:</b> 091	20787-03
			Site: Bla	nco, NM				•
Analyses/Method	Resul	t QUAL	Rep.Limit	D	il. Factor	Date Anal	yzed Analyst	Seq. #
ION CHROMATOGRA	PHY			MCL		E300.0	Units: mg/L	
Fluoride	· ND		50		100	12/28/09	8:23 BDG	5345590
Sulfate	7490		500		1000	12/28/09	16:30 BDG	5345639
METALS BY METHO	0 6010B, DISSOLVEI	D		MCL	SV	V6010B	Units: mg/L	
Manganese	0.583		0.005		1	12/29/09	13:36 AB1	5346752
Prep Method	Prep Date	Prep Initials	Prep Factor					
SW3005A	12/21/2009 10:00	R_V	1.00					
TOTAL DISSOLVED	SOLIDS			MCL	SN	12540 C	Units: mg/L	
Total Dissolved Solids (Residue,Filterable)	9230	·· .	. 50	•	5	12/21/09	16:30 CFS	5339533
VOLATILE ORGANIC								
		0		MCL	SV	V8260B	Units: ug/L	
Benzene	ND		1	MCL	SV 1		Units: ug/L 16:33 LU_L	5343879
Benzene Ethylbenzene			1	MCL		12/25/09		5343879 5343879
	ND		1 1 1	MCL	1	12/25/09 12/25/09	16:33 LU_L	
Ethylbenzene	ND 3		1	MCL	1	12/25/09 12/25/09 12/25/09	16:33 LU_L 16:33 LU_L	5343879
Ethylbenzene Toluene	ND 3 ND		1	MCL	1 1 1	12/25/09 12/25/09 12/25/09 12/25/09	16:33 LU_L 16:33 LU_L 16:33 LU_L	5343879 5343879
Ethylbenzene Toluene m,p-Xylene	ND 3 ND 24	;	1 1 1	MCL	1 1 1 1	12/25/09 12/25/09 12/25/09 12/25/09 12/25/09	16:33 LU_L 16:33 LU_L 16:33 LU_L 16:33 LU_L	5343879 5343879 5343879
Ethylbenzene Toluene m,p-Xylene o-Xylene	ND 3 ND 24 ND 24	;	1 1 1 1 1	MCL	1 1 1 1 1 1	12/25/09 12/25/09 12/25/09 12/25/09 12/25/09 12/25/09	16:33 LU_L 16:33 LU_L 16:33 LU_L 16:33 LU_L 16:33 LU_L 16:33 LU_L	5343879 5343879 5343879 5343879 5343879
Ethylbenzene Toluene m,p-Xylene o-Xylene Xylenes,Total	ND 3 ND 24 ND 24 ne-d4 99.9		1 1 1 1 1 1	MCL	1 1 1 1 1 1 1	12/25/09 12/25/09 12/25/09 12/25/09 12/25/09 12/25/09 12/25/09	16:33 LU_L 16:33 LU_L 16:33 LU_L 16:33 LU_L 16:33 LU_L 16:33 LU_L 16:33 LU_L	5343879 5343879 5343879 5343879 5343879 5343879

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	-4			Collect	ed: 12	/15/2009	16:10	SPL San	nple ID: 0912	20787-04
·				Site:	Blan	co, NM				
Analyses/Method	R	Result	QUAL	Rep.L	imit	Dil	. Factor	Date Ana	lyzed Analyst	Seq. #
ION CHROMATOGRA	PHY					MCL		E300.0	Units: mg/L	
Fluoride		ND			50		100	12/28/09	98:40 BDG	5345591
Sulfate		5660			500	1	000	12/28/09	16:46 BDG	5345640
METALS BY METHO	0 6010B, DISSOI	LVED	,			MCL	S	W6010B	Units: mg/L	,
Manganese	(	0.201		0.	005	· · · · · · · · ·	1	12/29/09	13:40 AB1	5346753
Prep Method SW3005A	Prep Date 12/21/2009 10:00		<u>Prep Initials</u> R_V	Prep Fac 1.00	tor					
TOTAL DISSOLVED	OLIDS					MCL	SI	12540 C	Units: mg/L	
Total Dissolved Solids (Residue,Filterable)	•	6500	:		40	•	4	12/21/09	16:30 CFS	5339534
VOLATILE ORGANIC	S BY METHOD 8	3260B				MCL	S	W8260B	Units: ug/L	
Benzene	······································	ND			1		· 1	12/25/09	16:59 LU_L	5343880
Ethylbenzene		ND			1		1.	12/25/09	16:59 LU_L	5343880
Toluene		ND			1		1	12/25/09	16:59 LU_L	5343880
m,p-Xylene	· .	ND	1		1		1	12/25/09	16:59 LU_L	5343880
o-Xylene	Provinsion - Provinsion	ND	j.		1		1	12/25/09	16:59 LU_L	5343880
Xylenes,Total	1. A. T. T.	ND			1		1	12/25/09	16:59 LU_L	5343880
Surr: 1,2-Dichloroetha	ne-d4	96.6	• • • •	% 70-	130		1	12/25/09	16:59 LU_L	5343880
Surr: 4-Bromofluorobe	nzene	96.4		% 74-	125		1	12/25/09	16:59 LU_L	5343880
Surr: Toluene-d8		101	-	% 82-	118		1	12/25/09	16:59 LU_L	5343880

Qualifiers:

 $\ensuremath{\mathsf{B/\!V}}\xspace$  - 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

Client Sample ID: Duplicate

Collected: 12/15/2009 16:30

SPL Sample ID: 09120787-05

			Sit	e: Blar	nco, NN	ſ				
Analyses/Method	Result	QUAL	R	ep.Limit		Dil. Factor	Date Ana	yzed	Analyst	Seq. #
VOLATILE ORGANICS BY MET	HOD 8260B				MCL	. sv	V8260B	Ur	nits: ug/L	
Benzene	ND			1		1	12/25/09	17:28	LU_L	5343881
Ethylbenzene	ND	I		1		.1	12/25/09	17:28	LU_L	5343881
Toluene	ND			1		1	12/25/09	17:28	LU_L	5343881
m,p-Xylene	ND			1		1	12/25/09	17:28	LU_L	5343881
o-Xylene	ND			1		1	12/25/09	17:28	LU_L	5343881
Xylenes,Total	ND	;		1		1	12/25/09	17:28	LU_L	5343881
Surr: 1,2-Dichloroethane-d4	101		%	70-130		1	12/25/09	17:28	LU_L	5343881
Surr: 4-Bromofluorobenzene	99.5	;	%	74-125		1	12/25/09	17:28	LU_L	5343881
Surr: Toluene-d8	100		%	82-118		1	12/25/09	17:28	LU_L	5343881

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

Client Sample ID: Trip Blank

Collected: 12/17/2009 11:30

SPL Sample ID: 09120787-06

		S	ite: Blan	ico, NM			
Analyses/Method	Result		Rep.Limit	Dil. Fa	ctor Date Anal	yzed Analyst	Seq. #
VOLATILE ORGANICS BY MET	HOD 8260B			MCL	SW8260B	Units: ug/L	
Benzene	ND		1	1	12/25/09	15:12 LU_L	5344892
Ethylbenzene	ND	,	1	1	12/25/09	15:12 LU_L	5344892
Toluene	ND		1.	1	12/25/09	15:12 LU_L	5344892
m,p-Xylene	ND		1	1	12/25/09	15:12 LU_L	5344892
o-Xylene	ND	i i i i i i i i i i i i i i i i i i i	1	1	12/25/09	15:12 LU_L	5344892
Xylenes,Total	ND		1	1	12/25/09	15:12 LU_L	5344892
Surr: 1,2-Dichloroethane-d4	102	%	70-130	1	12/25/09	15:12 LU_L	5344892
Surr: 4-Bromofluorobenzene	100	%	74-125	1	12/25/09	15:12 LU_L	5344892
Surr: Toluene-d8	. 101	%	82-118	1	12/25/09	15:12 LU_L	5344892

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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1/4/2010 10:58:01 AM



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

## Conoco Phillips COP ElPaso1A

Analysis: Method:	Metals by Method SW6010B	6010B, Dissol <sup>y</sup>	/ed						Order: Batch ID		120787 603		
	Me	thod Blank				Sampl	es in Analy	tical Batch	:				
RunID: ICP2_09 Analysis Date: Preparation Date:	229A-5346723 12/29/2009 11:17 12/21/2009 10:00	Units: Analyst: Prep By:	mg/L AB1 R_V	Method SW	3005A	091207 091207 091207	1mple ID 787-01B 787-02B 787-03B		MW-1 MW-2 MW-3	Sample II	<u>2</u>		
Mang	Analyte anese		Result N			09120	′87-04B	·	MW-4				
)			· <u>L</u>	aboratory C	ontrol Sar	nple (LC	<u>S)</u>						
۱ <u>.</u>	•	D: rsis Date: aration Date:	12/29/2	91229A-534672 2009 11:22 2009 10:00	24 Units Analy Prep	st: AE		SW3005A					
	Mangan	Analyt	e		Added	Result 0.1073	Percent Recovery 107.3	Lower Limit 80	Upper Limit	0			
		Matrix	Spike (	(MS) / Matrix	Spike Du	olicate (l	MSD)						
. · ·	Ru	nple Spiked: nID:	09120 ICP2_0	0780-01 091229A-5346	726 Uni	is: r	ng/L						
·		lysis Date: paration Date:	12/21	/2009 11:31 /2009 10:00	Pre	pBy: F	NB1 ₹_V Methoo						
Ą.	nalyte	Sample Result	MS Spike Added	MS Result	MS % Recover	MSE y Spike Adde	e Resul	MSE Reco		RPD	RPD Limit	Low Limit	High Limit
Manganese		0.5764	0.1	0.718	3 N		0.1 0.7	158	N/C	N/C	20	75	12

**Qualifiers:** 

iers: 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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Surr: 4-Bromofluorobenzene

Surr: Toluene-d8

## **Quality Control Report**

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

## Conoco Phillips COP ElPaso1A

Analysis: Method:	Volatile Organics by Meth SW8260B	od 8260B	•		WorkOrder: Lab Batch ID:	09120787 R292280	
	Method B	lank		Samples in Analytica	l Batch:		
RunID: K_09	1224B-5343862 U	nits: ug/L		Lab Sample ID	Client San	nple ID	
Analysis Date:	12/25/2009 8:27 A	nalyst: LU_L		09120787-01A	MW-1		
•				09120787-02A	MW-2		· · ·
			· .	09120787-03A	MW-3		
_				09120787-04A	MW-4		
	Analyte	Result	Rep Limit	09120787-05A	Duplicate		
B	enzene	ND	1.0		•		
E	thylbenzene	. ND	1.0	09120787-06A	Trip Blank		
Τ	oluene	ND	1.0				
m	a,p-Xylene	ND	1.0				
0-	Xylene	ND	1.0				
	ylenes,Total	ND		<u></u>			
	Surr: 1,2-Dichloroethane-d4	100.3	70-130				

)		Laboratory Control Sample (LCS)										
	RunID:	K_091224B-5343861	Units:	ug/L								
	Analysis Date:	12/25/2009 7:55	Analyst:	LU_L								

74-125

82-118

103.4

101.6

Analyte	Spike Added	Result	Percent Recovery	Lower · Limit	Upper Limit
Benzene	20.0	21.7	109	74	123
Ethylbenzene	20.0	19.2	95.9	72	127
Toluene	· 20.0	19.3	96.7	74	126
m,p-Xylene	40.0	39.2	98.0	71	129
o-Xylene	20.0	19.4	96.9	. 74	130
Xylenes,Total	60.0	58.6	97.7	71	130
Surr: 1,2-Dichloroethane-d4	50.0	52.6	105	70	130
Surr: 4-Bromofluorobenzene	50.0	50.9	102	74	125
Surr: Toluene-d8	50.0	50.2	100	82	118

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

Sample Spiked: RunID: Analysis Date: 09120826-05 K\_091224B-5343865 12/25/2009 10:00

Units: ug/L Analyst: LU\_L

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

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## **Quality Control Report**

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

## Conoco Phillips COP ElPaso1A

Analysis: Volatile Organie Method: SW8260B	cs by Method 826	0B					WorkOrder Lab Batch I		20787 92280		
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	21.1	105	20	21.3	107	1.18	- 22	70	124
Ethylbenzene	ND	20	. 17.6	88.2	20	18.2	91.2	3.37	20	. 76	122
Toluene	ND	20	19.0	94.8	20	18.9	94.4	0.418	24	80	117
m,p-Xylene	ND	40	35.6	89.1	40	37.0	92.4	3.70	20	69	127
o-Xylene	ND	20	18.9	94.6	20	19.0	95.1	0.575	20	84	114
Xylenes,Total	. ND	60	54.5	90.9	60	56.0	93.3	2.63	20	69	127
Surr: 1,2-Dichloroethane-d4	. ND	50	51.7	103	50	53.4	107	. 3.19	30	70	130
Surr: 4-Bromofluorobenzene	ND	· 50	50.6	101	50	51.5	103	1.91	30	74	125
Surr: Toluene-d8	ND	50	49.2	98.3	50	49.3	98.6	0.262	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

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

# COP ElPaso1A

Method:	SM2540 C	Solids						VorkOrder: ab Batch IC		0912078 R29202			
	. <u>N</u>	lethod Blank	<u>s</u>			Samples in	Analytical B	atch:					
RunID: WE	T_091221K-5339511	Units	mg/l	L		.ab Sampl	e ID	Client	Sample	D		•	
Analysis Date:	12/21/2009 16:30	Analy	st: CFS	6	_	9120787-0		MW-1				ĺ	
						9120787-0		MW-2					
						9120787-0		MW-3		1			
г						9120787-0		MW-4				ł	
-	Analyte		Resu									:	
Ľ	Total Dissolved Solids (Resi	due,Filterable)		ND 10									
e protecto	Labo	ratory Contro	ol Sample	e/Laboratory C	ontrol Sam	ole Duplica	ate (LCS/LCS	<u>D)</u>				l·	<del>.</del>
				•									
	RunID:		_		Jnits: m							1	
	Analysis [	Date: 12	/21/2009	16:30 A	Analyst: CF	-S							
	Analita					1000		000		1	Linner		
. 1	Analyte	LCS Spike	LCS Result	LCS Percent	LCSD Spike	LCSD Result	LCSD Percent	RPD	RPD Limit	Lower Limit	Upper Limit		
. :	÷ •	Added	·	Recovery	Added	, tooun	Recovery			2			
Total Dissolve	d Solids (Residue, Filterab	1 200.0	198.0	99.00	200.0	202.0	101.0	2.0	10	95	107		
· · · ·					ple Duplicat						1		-
,													
		Original Sam	ole: 09	120860-02									
	.	RunID:	W	ET_091221K-533	39537 Unit	s: mg/	L						
	, ,	Analysis Date	: 12	/21/2009 16:30	Ana	lyst: CFS	3				•		
		1	Analyte	-	Sample	DUP	T I						
			/ incayo	e	Joannpie		RPD	RPD					
	·		Pintaryt	e	Result	Result	RPD	RPD Limit					
1		Total Dissolve		e Residue,Filtera	Result	Result							
1		Total Dissolve			Result	Result		Limit					
1		Total Dissolve			Result	Result		Limit		·			
ı		Total Dissolve			Result	Result		Limit					
ı		Total Dissolve			Result	Result		Limit	·	·			
		Total Dissolve			Result	Result		Limit					
·		Total Dissolve			Result	Result		Limit	·				
		Total Dissolve			Result	Result		Limit					
		Total Dissolve			Result	Result		Limit					
·		Total Dissolve			Result	Result		Limit					
		Total Dissolve			Result	Result		Limit					
		Total Dissolve			Result	Result		Limit					
		Total Dissolve			Result	Result		Limit					
		•	ad Solids (		Result	Result 533	0.376	Limit					
Qualifiers:	ND/U - Not Detected at	the Reporting	d Solids (	Residue,Filtera	Result	Result 533	0.376	Limit 10			· · · · ·		
Qualifiers:	ND/U - Not Detected at B - Analyte Detected In	the Reporting	Limit	Residue,Filtera	MI - M D - Re	Result 533	0.376 erence reportable due	Limit 10 to Dilution					
Qualifiers:	ND/U - Not Detected at B - Analyte Detected In J - Estimated Value Bet	the Reporting The Associate ween MDL Ar	Limit Ed Method	Residue,Filtera	MI - M D - Re	Result 533	0.376	Limit 10 to Dilution			·		
Qualifiers:	ND/U - Not Detected at B - Analyte Detected In J - Estimated Value Bet E - Estimated Value exc	the Reporting The Associate ween MDL Ar eeds calibrati	Limit Ed Method Id PQL on curve	Residue,Filtera	Result bl 531 MI - M D - Re * - Re	Result 533 fatrix Interfe ecovery Unit covery Outs	0.376 erence reportable due side Advisable	Limit 10 to Dilution QC Limits					
Qualifiers:	ND/U - Not Detected at B - Analyte Detected In J - Estimated Value Bett E - Estimated Value exc N/C - Not Calculated - S	the Reporting The Associate ween MDL Ar eeds calibrati sample conce	Limit Ed Method Id PQL on curve	Residue,Filtera	Result bl 531 MI - M D - Re * - Re	Result 533 fatrix Interfe ecovery Unit covery Outs	0.376 erence reportable due side Advisable	Limit 10 to Dilution QC Limits	not apply				
	ND/U - Not Detected at B - Analyte Detected In J - Estimated Value Bet E - Estimated Value exc	the Reporting The Associate ween MDL Ar eeds calibrati sample conce to count	Limit Ed Method Id PQL on curve Intration is	Residue,Filtera	MI - M D - Re * - Re	Result 533 latrix Interfe ecovery Uni covery Outs punt of spik	erence reportable due side Advisable se added. Cont	Limit 10 to Dilution QC Limits	not apply		99120787	Page 13	



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

## **Conoco Phillips**

Analysis: Method:	lon Chromat E300.0							WorkOrder Lab Batch	•	20787 923660	;	
		<u>Method Blank</u>				Samples	in Analytica	Batch:				
RuniD: IC Analysis Dat	2_091227A-5345581 ie: 12/28/2009 5:	Units: 35 ; Analyst:	mg/L BDG		(	Lab Sam <u>r</u> 09120787 09120787 09120787	-01C -02C	MW- MW- MW-	2 -3	<u>0</u>		
	Ana	lyte	Result	Rep Limit	(	09120787	-04C	MW-	4			
	Fluoride	.,	ND	0.50								
	Sulfate	<u> </u>	ND	0.50								
	, .											<u> </u>
	<u>)</u>		<u>La</u>	boratory Co	ontrol Samp	ole (LCS)						
		RunID:	IC2_09122	27A-5345582	Units:	mg/L						
	ì	Analysis Date:	12/28/200	09 5:52	Analyst	: BDG						
	·	Analyl	e		pike Re	1		wer Uppe imit Limi				•
	F	luoride			10.00 1	10.63	106.3	85	115			
i.		ulfate				10.62	106.2		115			ι.
,	· · ·											
		Sample Spiked:	091206									
	· . !	RunID:		227A-534559		•						
	с.,	Analysis Date:	12/28/2	009 14:16	Analy	st: BDC	3					
	Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limi
Fluoride		ND	10	14.08	136.0 *	10	12.60	121.3 *	11.02	20	80	12
Sulfate		1.013	10	16.05	150.4 *	10	14.33	133.1 *	11.35	20	80	12
	ND/U - Not Detecte	ed at the Reporting Lir				flatrix Inter		lue to Dilution				
Qualifiers:	B - Analyte Detecte											
Qualifiers:	J - Estimated Value	ed In The Associated I Between MDL And F e exceeds calibration	QL					ble QC Limits				

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.

1/4/2010 10:58:05 AM



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

## Conoco Phillips

Method:	lon Chro E300.0	matograph	ıy	r						rkOrder: Batch ID		120787 292548		
		Met	thod Blank				Sample	s in Analy	tical Bat	ch:				
RunID: IC1	1_091229D-534898	2	Units:	mg/L			l ab Sa	mple ID		Client	Sample I	D		
Analysis Date	e: 12/30/200	09 1:38	2 Analyst:	BDG			091207			MW-2				
			. / maryou	220										
	[	A		<b>D</b>	Des Linit									
	Sulfate	Analyte		Result ND	Rep Limit 0.50									
	Sunate				0.50									
	· ·			La	boratory Co	ontrol San	ple (LC	<u>S)</u>						
	ι,	Runic	<b>.</b>		9D-5348983	Units:	-	n				•		
	· · ·			12/30/200										
		Analys	sis Date:	12/30/200	9 1:55	Analy	SI: BU	6						
t	; .		Analyt	e		pike R dded	esult	Percent Recovery	Lower Limit	Upper Limit				÷
1	- Carlos - C	Sulfate				10.00	10.67	106.7	8	5 11	5			
		L	· · · ·		•			t						
- and -	}		Matrix	Spike (M	S) / Matrix	Spike Dup	licate (N	ISD)						
	ÿ		Matrix	Spike (M	S) / Matrix	Spike Dup	licate (N	<u>ISD)</u>						
	j	Sam	<u>Matrix</u>	091210	51-06		licate (N	<u>ISD)</u>						
· _ ~	, ,	Sarr Run	ple Spiked:	091210				ISD) Ig/L				•		
· · . ·	)	Run	ple Spiked:	091210 IC1_091	51-06		s: m							
· _ <del>-</del>		Run	nple Spiked: ID:	091210 IC1_091	51-06 229D-534900	8 Unit	s: m	ıg/L						
·	Analyte	Run	nple Spiked: ID:	091210 IC1_091 12/30/2 MS	51-06 229D-534900	8 Unit	s: m lyst: B	ig/L DG MSD	M	SD %	RPD	RPD	Low	High
, , , , , , , , , , , , , , , , , , ,	·	Run	nple Spiked: ID: lysis Date:	091210 IC1_091: 12/30/24	51-06 229D-534900 009 13:17	8 Unit Ana	s: m lyst: B	ng/L DG MSD Result		SD % covery	RPD	RPD	Low Limit	High Limit
, 	·	Run	nple Spiked: ID: lysis Date: Sample	091210 IC1_091 12/30/2 MS Spike	51-06 229D-534900 009 13:17 MS	8 Unit Ana MS % Recovery	s: m lyst: B MSD Spike Added	ng/L DG MSD Result	t Re		RPD 2.944	Limit	Limit	Limit
, 	·	Run Anai	nple Spiked: ID: Iysis Date: Sample Result	091210 IC1_091 12/30/2 MS Spike Added	51-06 229D-534900 009 13:17 MS Result	8 Unit Ana MS % Recovery	s: m lyst: B MSD Spike Added	ng/L DG MSD Result	t Re	covery		Limit	Limit	Limit
, 	·	Run Anai	nple Spiked: ID: Iysis Date: Sample Result	091210 IC1_091 12/30/2 MS Spike Added	51-06 229D-534900 009 13:17 MS Result	8 Unit Ana MS % Recovery	s: m lyst: B MSD Spike Added	ng/L DG MSD Result	t Re	covery		Limit	Limit	Limit
, 	·	Run Anai	nple Spiked: ID: Iysis Date: Sample Result	091210 IC1_091 12/30/2 MS Spike Added	51-06 229D-534900 009 13:17 MS Result	8 Unit Ana MS % Recovery	s: m lyst: B MSD Spike Added	ng/L DG MSD Result	t Re	covery		Limit	Limit	Limit
, 	·	Run Anai	nple Spiked: ID: Iysis Date: Sample Result	091210 IC1_091 12/30/2 MS Spike Added	51-06 229D-534900 009 13:17 MS Result	8 Unit Ana MS % Recovery	s: m lyst: B MSD Spike Added	ng/L DG MSD Result	t Re	covery		Limit	Limit	Limit
, 	·	Run Anai	nple Spiked: ID: Iysis Date: Sample Result	091210 IC1_091 12/30/2 MS Spike Added	51-06 229D-534900 009 13:17 MS Result	8 Unit Ana MS % Recovery	s: m lyst: B MSD Spike Added	ng/L DG MSD Result	t Re	covery		Limit	Limit	Limit
Sulfate	·	Run Anai	nple Spiked: ID: Iysis Date: Sample Result	091210 IC1_091 12/30/2 MS Spike Added	51-06 229D-534900 009 13:17 MS Result	8 Unit Ana MS % Recovery	s: m lyst: B MSD Spike Added	ng/L DG MSD Result	t Re	covery		Limit	Limit	Limit
, 	·	Run Anai	nple Spiked: ID: Iysis Date: Sample Result	091210 IC1_091 12/30/2 MS Spike Added	51-06 229D-534900 009 13:17 MS Result	8 Unit Ana MS % Recovery	s: m lyst: B MSD Spike Added	ng/L DG MSD Result	t Re	covery		Limit	Limit	Limit
Sulfate	Analyte	Run Anal	nple Spiked: ID: Iysis Date: Sample Result 11.64	091210 IC1_091 12/30/2 MS Spike Added 10	51-06 229D-534900 009 13:17 MS Result	8 Unit Ana MS % Recovery 182.9	s: m yst: B / MSD / Spike Addea * 1	ng/L DG MSD Result	t Re	covery		Limit	Limit	Limit
, 	Analyte ND/U - Not De	Run Anal	nple Spiked: ID: Iysis Date: Sample Result 11.64	091210 IC1_091 12/30/2 MS Spike Added 10	51-06 229D-534900 009 13:17 MS Result 29.92	8 Unit Ana MS % Recovery 182.9	s: m yst: B / MSD / Spike Addea * 1	ng/L DG Result d 0 30	t Re	covery 191.8 *		Limit	Limit	Limit
Sulfate	Analyte	Run Anal	nple Spiked: ID: IVsis Date: Sample Result 11.64	091210 IC1_091 12/30/2 MS Spike Added 10	51-06 229D-534900 009 13:17 MS Result 29.92	8 Unit Ana MS % Recovery 182.9 182.9 MI - D - I	s: m yst: B / MSD / Spike Addea * 1	ng/L DG Result d 0 30	0.82	Dilution		Limit	Limit	Limit

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calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

09120787 Page 15 1/4/2010 10:58:05 AM Sample Receipt Checklist And Chain of Custody

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09120787 Page 16 1/4/2010 10:58:05 AM



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

## Sample Receipt Checklist

Workorder:         09120787           Date and Time Received:         12/18/2009 9:30:00 AM           Temperature:         4.2°C		Received By: Carrier name: Chilled by:	RE Fedex-Standard Overnight Water Ice
1. Shipping container/cooler in good condition?	Yes 🗹	No 🗌	Not Present
2. Custody seals intact on shippping container/cooler?	Yes 🗹		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 🔽	No 🗌	
9. Sufficient sample volume for indicated test?	Yes 🔽	No 🗌	
0. All samples received within holding time?	Yes 🗹	No	
1. Container/Temp Blank temperature in compliance?	Yes 🗹	No 🗌	
2. Water - VOA vials have zero headspace?	Yes 🔽	No 🗌 🛛 VOA	Vials Not Present
3. Water - Preservation checked upon receipt (except VOA*)?	Yes	No 🗌	Not Applicable
*VOA Preservation Checked After Sample Analysis			
SPL Representative:	Contact Date	& Time:	·
Non Conformance Issues:			
Client Instructions:	· · · · · · · · · · · · · · · · · · ·	· · · · ·	
	1		·

SPL ID:     SPL ID:       Telenisment     Frind     Rentry Internation       Distribution     Rentry Internation     Rentry Internatio	09/200787 page 1 of 2	Teducsta Teducstra Testioners Testioner			Special Detection Limits (given by the second part of the second part	2 .
SPL, Inc. SPL, Inc. SPL, Inc. SPL, Inc. SPL, Inc. SPL, Inc. SPL, Inc. State NI SPL, Inc. State NI SPL, Inc. SPL, Inc. State NI SPL, Inc. SPL, Inc. SPL					Laboratory remarks: 03 0/10/15/5 seuts: 4.2 15/13/1 1/20 0 seuts: 4.2 17 TTRP 1 1.2 RHCAP	ULUE 12/109/12/ date 12/109/12/ 500 Ambassador Caffery Parkway
	SPL, Inc. Aruitysis Request & Clasin of Uestorly Record	CCALCC Phy Sch100 Phy State NN State NN Trunit	DATE DA	-2-1-1215 1215 1215	 CONE NUTIS (MTUN)	1. Refinguished by: 5. Refinguished by: ge Drive

<b>••</b> 1 1		And House Control of the second secon
LRUOCIL	Number of Containers ND 450 Number of Containers XD 450 W50 ND	Special Detection Limits (specify): limit 2.00 2. Received by: limit 2.00 2. Received by: lime 4. Received
	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	" " " " " " " " " " " " " " " " " " " "
t ('ustody Record	237.8.56 237.8.56 201 1010 201 1130 201 1130 201 1130	Scott, LA
SP s Yoquest &	A LIST AND	Client/Consultant Remarks:         PULIE       Internet Remarks:         PULIE       Internet Remarks:         Requested TAT       Special Reporting Requirements Res         I business Days       Contract         I business Days       Simmand         I shuinest Days       Simmand         I businest Days <td< td=""></td<>