GW-054

Annual GW Report

DATE:
2009

TETRA TECH, INC.

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

September 15, 2009

Mr. Wayne Price
New Mexico Oil Conservation Division
1220 S. St. Francis Drive
Santa Fe, NM 87505

Subject: 2009 Annual Groundwater Monitoring Report
Groundwater Discharge Plan No. GW-054
ConocoPhillips Wingate Fractionating Plant
Gallup, New Mexico

Dear Mr. Price,

Tetra Tech is pleased to deliver the enclosed Annual Groundwater Monitoring Report per the requirements of the Groundwater Discharge Plan GW-054.

Should you have any questions, please contact Kelly Blanchard at 505-237-8440.

Sincerely,

Kelly E. Blanchard
Project Manager/Geologist

Enclosures (1)

Cc: Beverly Cox, ConocoPhillips
Kim Kamps, ConocoPhillips

2009 ANNUAL GROUNDWATER MONITORING REPORT

WINGATE FRACTIONATING PLANT
Gallup, New Mexico

IN COMPLIANCE WITH GROUNDWATER DISCHARGE PLAN GW-054

Prepared For:

ConocoPhillips

Wingate Fractionating Plant
68 El Paso Circle
Gallup, New Mexico 87301

Prepared By:

TETRA TECH, INC.
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(505) 237-8440

ConocoPhillips Work Order No.: 4506659939
Tetra Tech Project No.: 114-690117

August 2009

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1.0 INTRODUCTION AND SITE HISTORY

The Wingate Fractionating Plant is located in McKinley County, New Mexico, within portions of Sections 9, 10, 15, 16, and 17, Township 15 North, Range 17 West (**Figure 1**). A Groundwater Discharge Plan for the Wingate Plant was first approved by the New Mexico Oil Conservation Division (OCD) on August 17, 1992.

Four monitor wells were installed in June 2003. Three of these wells surround the evaporation ponds and one is located on the east side of the plant. Two of the wells surrounding the evaporation pond were installed above the groundwater table in order to determine if leakage from the ponds is occurring. Monitor well MW-1 was damaged and was re-drilled; it is now referred to as MWR-1. To date there has been no indication of water in the two wells installed above the groundwater table.

In a letter dated March 24, 2004, OCD approved the current Groundwater Discharge Plan, GW-054, with amended conditions contained in an attachment to the plan. On September 22, 2004 and September 23, 2004, two monitor wells were installed as specified in the discharge plan amended conditions.

In accordance with Groundwater Discharge Plan GW-054, Tetra Tech Inc. (Tetra Tech) conducted an annual groundwater sampling event from June 22, 2009 through June 24, 2009. This report presents results from this groundwater monitoring event.

2.0 SITE DESCRIPTION

The site consists of a gas fractionating plant with associated pipelines and storage tanks. The site is surrounded by a chain-link fence, and the office is located on the south end of the site. Two evaporation ponds are located to the northwest of the site (**Figure 1**). These ponds are used and maintained by ConocoPhillips Company (ConocoPhillips) and are surrounded by a chain-link fence. All monitor wells are on ConocoPhillips property except for WMW-8, which is on property belonging to El Paso Natural Gas. A site layout map is provided as **Figure 2**.

The site lies along the south side of an east-west trending alluvial drainage formed by the south fork of the Puerco River. The site is approximately 6,590 feet above mean sea level (amsl), and lies on Quaternary-aged alluvium. To the south of the plant are the Zuni Mountains, reaching a maximum elevation of approximately 9,000 feet amsl. To the north of the plant, a red sandstone escarpment rises 400 feet above the valley to an elevation of approximately 7,000 feet amsl. The escarpment is comprised of Jurassic-age sandstone and siltstone deposits of the Entrada Formation. Groundwater at the site has been encountered during drilling at

approximately 20 feet below ground surface (bgs), rising to approximately 8 feet bgs in well casing, suggesting confined aquifer conditions. **Table 1** lists well completion information and groundwater elevations. During the 2009 groundwater sampling event, the groundwater flow direction was predominantly to the northwest. This is consistent with previous data. Groundwater potentiometric contours are presented in **Figure 2**.

There are currently 13 monitor wells on and surrounding the site (**Figure 2**)

3.0 GROUNDWATER SAMPLING METHODOLOGY

Tetra Tech performed groundwater monitoring activities from June 22, 2009 through June 24, 2009. Groundwater depths were measured using an electronic water level indicator; this data, along with casing diameter and total depth information, was used to calculate the water volume in each monitor well. An oil/water interface probe was used to measure groundwater depth in WMW-2 and check for the presence of free product. Before and after each use, the water level indicator and interface probe were cleaned with soap and water, then sprayed with an Alconox®/de-ionized water solution, and then were finally sprayed with de-ionized water. Graphs presenting groundwater elevations versus time for each monitor well are presented in **Appendix A**. Water was purged from the wells with a submersible pump or disposable bailer until field parameters such as pH, oxidation reduction potential (ORP), dissolved oxygen (DO), conductivity, and temperature stabilized and/or three well volumes of water were removed. Field parameters were monitored using a YSI instrumented flow-through cell. The purpose of the purge was to obtain a groundwater sample that would be representative of aquifer conditions rather than possible stagnant conditions in the well.

Following purging, groundwater samples were collected through vinyl tubing attached to the submersible pump and placed into laboratory-prepared sample containers. Disposable nitrile gloves were worn by sampling personnel and were changed at each well location. The pump and tubing were decontaminated following each well sampling by circulating Alconox® soap and de-ionized water solution through the pump followed by circulating a de-ionized water rinse. WMW-2, the monitor well known to contain constituents of concern (COCs), was sampled last.

Following collection, the sample containers were immediately labeled, placed on ice, and chilled to approximately 4° Celsius. Samples were submitted to Southern Petroleum Laboratory in Houston, Texas for analyses of benzene, toluene, ethylbenzene, and total xylene (BTEX) by Environmental Protection Agency (EPA) Method 8260B; semi-volatile organics by EPA Method 8270; chloride, sulfate, and nitrate by EPA Method 300.0A; alkalinity by EPA Method 310.1; metals including mercury, arsenic, barium, calcium, cadmium, chromium, magnesium, selenium,

silver, sodium, and lead by EPA Method 6010B; total dissolved solids (TDS) by EPA Method 160.1, and pH by EPA Method 150.1. These analytes are referred to as Data Set 1, and results for these analyses are presented in **Table 2**. Data Set 2 is composed of samples collected from the evaporation pond area (MWR-1, MW-2, and MW-3, East Pond and West Pond). These locations were additionally analyzed for Biochemical Oxygen Demand, (BOD), Chemical Oxygen Demand (COD), and total coliform analyses under Environmental Protection Agency (EPA) procedures 405.1, 410.1, and Standard Method (SM) 19, 1995 9223B, respectively. Results for these analyses are presented in **Table 3**. Analytical results were compared to the New Mexico Water Quality Control Commission (NMWQCC) ground water quality standards contained in Title 20, Chapter 6, Part 2, Section 3103 of the New Mexico Administrative Code (20.6.2.3103 NMAC). Applicable ground water quality standards are found in Subsection A, *Human Health Standards,* and Subsection B, *Other Standards for Domestic Water Supply.*

A duplicate sample was collected from WMW-2 and analyzed for BTEX. The analytical results were comparable to the results for the primary sample.

4.0 GROUNDWATER ANALYTICAL RESULTS

The 2009 groundwater analytical results are presented in **Tables 2** and **3**. **Appendix A** contains graphs depicting selected analytical results versus time for each well in addition to site hydrographs. The laboratory analytical report (including the chain-of-custody) is presented in **Appendix B**.

4.1 Evaporation Pond Perimeter Monitor Wells and Evaporation Pond Surface Water Samples

The shallow, vadose zone wells installed to monitor possible evaporation pond leakage are MWS-1 and MWS-2. These wells were installed at a depth of 15 feet and were screened from 5 to 15 feet. They were dry at the time they were constructed and were also dry at the time of the sampling fieldwork. Thus, no water samples were collected from these wells and no leakage is apparent from site evaporation ponds.

The samples from MWR-1, MW-2, and MW-3 did not contain BTEX above laboratory detection limits. Similarly, BOD was not found above laboratory detection limits in MW-2 and MW-3. BOD results for MWR-1 were similar to historical results, which have never exceeded the Discharge Plan limit of 30 mg/l. MWR-1 and MW-3 results for COD were comparable to historical results, while the COD result for MW-2 has increased significantly since it was last sampled in July 2008, but is only slightly higher than data collected from 2004 to 2007. However, none of these monitor wells have ever exceeded the COD limit of 125 mg/l. The samples from MW-3 and were below laboratory detection limits for coliform. MWR-1 and

MW-2 contained coliform concentrations of 10 colonies per 100 milliliter (10/100 ml) and 7/100ml, respectively, while the Discharge Plan limit for coliform is 500/100 ml. Analytical result concentrations from MWR-1, MW-2, and MW-3 were above NMWQCC ground water quality standards for manganese. MWR-1 also contained concentrations of iron just above NMWQCC ground water quality standards. The MW-2 sample had a TDS concentration of 1,030 milligrams per liter (mg/L), which is above the NMWQCC ground water quality standard of 1,000 mg/L. No other analytical results exceeded applicable NMWQCC ground water quality standards.

The East Evaporation Pond sample had a COD result lower than the historical results and below the Discharge Plan limit. BOD and coliform results were also below the Discharge Plan limits, but the values did increase slightly in the East Evaporation Pond to 4.4 mg/L and 4/100ml, respectively. Note that the East Evaporation Pond water sample contained sulfate, chloride, and TDS concentrations in excess of ground water quality standards.

The West Evaporation Pond sample contained a COD concentration of 1,600 mg/L; the Discharge Plan limit is 125 mg/L. The water sample collected from the West Evaporation Pond was below the laboratory detection limit for coliform and had a BOD concentration of 7.7 mg/L. The West Evaporation Pond water sample contained manganese, chloride, sulfate, and TDS concentrations above ground water quality standards.

4.2 Wingate Facility and Surrounding Monitor Wells

Monitor wells WMW-1, WMW-3, WMW-4, WMW-5, WMW-6, WMW-7, and WMW-8 did not contain BTEX in concentrations above laboratory detection limits. The ground water sample collected from WMW-2 contained 9,800 micrograms per liter (µg/L) benzene. This concentration is well above the human health groundwater quality standard of 10 µg/L for benzene. However, due to the introduction of Regenesis™ Oxygen Release Compound socks into WMW-2, the benzene concentration in this well has decreased significantly since the 29,000 µg/L result in 2005. Toluene, ethylbenzene, and xylenes were detected in WMW-2 at levels below the NMWQCC human health ground water quality standards. BTEX was not detected in two down-gradient monitor wells from WMW-2 (WMW-4 and WMW-7), which suggests that the benzene impact may be localized in the area of WMW-2.

The groundwater samples collected from WMW-1, WMW-2, WMW-3, and WMW-5 contained chloride in concentrations above the ground water quality standard of 250 mg/L. Chloride concentrations have remained relatively constant since the 2005 sampling event.

The samples collected from WMW-1, WMW-3, and WMW-5 contained sulfate and TDS concentrations above ground water quality standards, while ground water samples collected from WMW-2, WMW-4, WMW-6 and WMW-7 were found to contain TDS in concentrations above ground water quality standards. TDS and sulfate concentrations in these monitor wells have also remained relatively constant since the 2005 sampling event.

5.0 Summary and Recommendations

Site evaporation ponds showed no signs of leakage during the June 2009 monitoring event, and no evidence of bacterial contamination was found in water samples collected from the ponds. However, the COD of the West Evaporation Pond was found to be elevated relative to the limits imposed by the Discharge Plan for the site. Concentrations of TDS, iron, manganese, sulfate, chloride and lead have been found above NMWQCC ground water quality standards in site monitor wells and evaporation ponds. The concentration of benzene in monitor well WMW-2 continues to exceed ground water quality standards by several orders of magnitude; however, benzene was not detected down-gradient of WMW-2, suggesting a localized benzene impact around this monitor well. As a result of these findings, Tetra Tech recommends the continuation of annual monitoring at the site. The next monitoring event is scheduled to take place in June 2010.

Please contact Kelly Blanchard at (505) 237-8440 or at Kelly.blanchard@tetratech.com if you have any questions or concerns regarding the information contained in this report.

FIGURES

FIGURE 1.

Site Location Map
ConocoPhillips
Wingate Gas Fractionating Plant
Gallup, NM

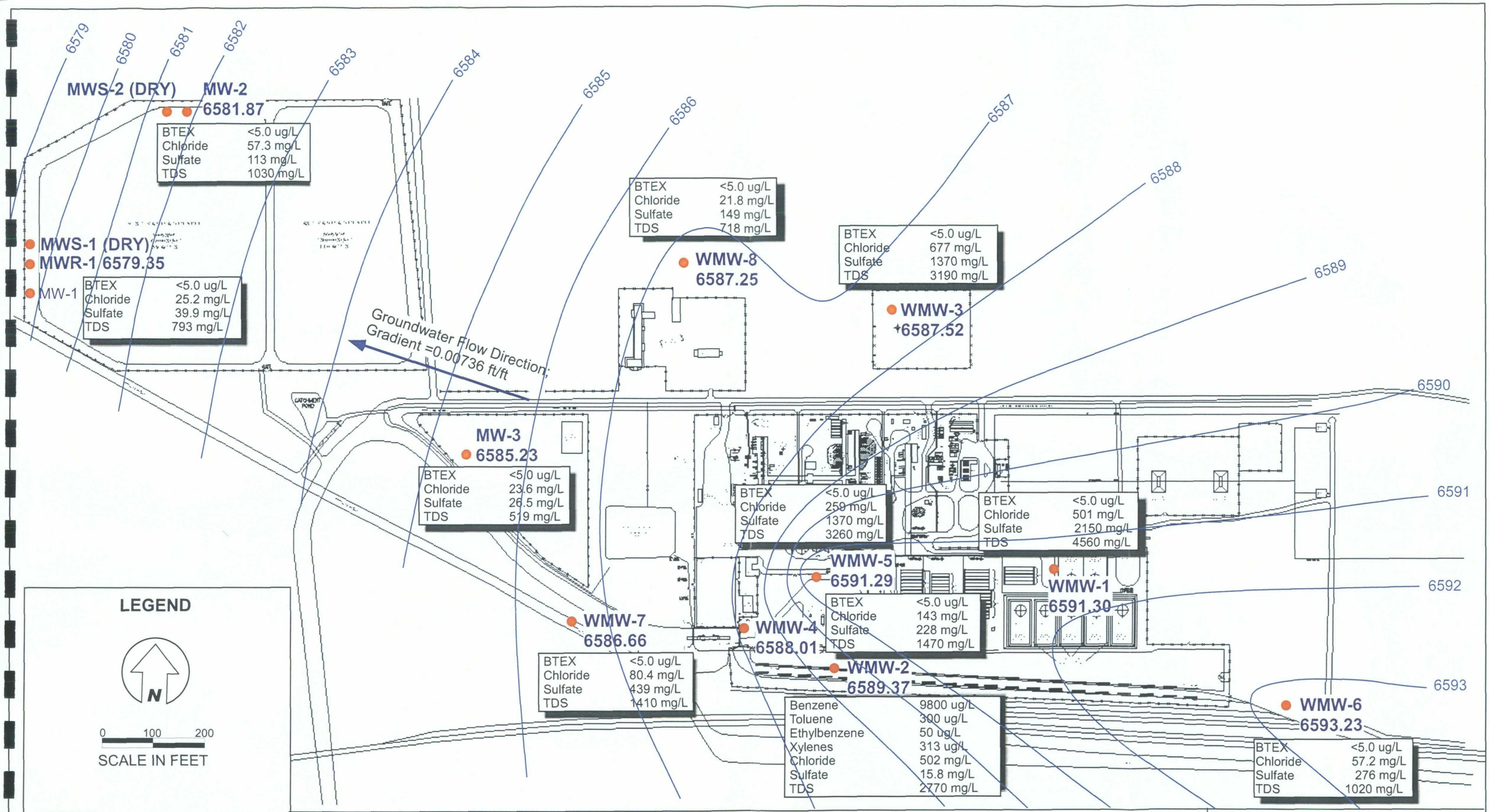
N

Approximate Boundary of the Wingate Plant

Evaporation Ponds Used for Facility Waste Water

ConocoPhillips

TETRA TECH, INC.



ConocoPhillips Wingate Gas Fractionating Plant
Gallup, New Mexico

FIGURE 2: Site Map with Groundwater Potentiometric Surface Contours and Analytical Results

ConocoPhillips

TETRA TECH, INC.

TABLES

Table 1. 2009 Groundwater Elevations - Wingate Fractionating Plant, Gallup, New Mexico

Well ID	TOC Elevation (ft above msl)	Screened Interval (ft)	Total Depth (ft bgs)	Depth to Groundwater (ft below TOC)	Groundwater Elevation (ft)
MWR-1	6585.13	20 - 45	45	5.78	**6579.35**
MW-2	6585.91	20 - 45	45	4.04	**6581.87**
MW-3	6590.08	20 - 45	45	4.85	**6585.23**
WMW-1	6597.13	5 - 15	15	5.83	**6591.30**
WMW-2	6594.88	5 - 20	20	5.51	**6589.37**
WMW-3	6594.92	5 - 20	20	7.4	**6587.52**
WMW-4	6595.49	5 - 20	20	7.48	**6588.01**
WMW-5	6597.11	5 - 20	20	5.82	**6591.29**
WMW-6	6603.86	20-35	35	10.63	**6593.23**
WMW-7	6594.7	16-38	38	8.04	**6586.66**
WMW-8	6594.05	17-38	38	6.8	**6587.25**

Explanation

bgs - below ground surface
ft - feet
msl - mean sea level
MW - Monitor Well
MWR - Redrilled Monitor Well
TOC - top of casing
WMW - Monitor well within the Wingate site boundary

Table 2. Groundwater Analysis Summary (Data Set 1), 2003 through 2009, Wingate Fractionating Plant, Gallup, New Mexico

Sample Location	Date Sampled	SW846 8260B Micrograms per Liter (ug/L)					Total Metals by SW846 6020A/6010B, Milligrams per Liter (mg/L)												SW 7470A (mg/L), Total	MCAWW 300.0A (mg/L)			SW846 8270C (ug/L)	EPA 150.1 (pH units)	MCAWW 310.1 (mg/L)	MCAWW 160.1 (mg/L)
		Benzene	Toluene	Ethylbenzene	Xylenes	TPH-GRO	Calcium	Iron	Magnesium	Manganese	Sodium	Arsenic	Barium	Cadmium	Chromium	Lead	Selenium	Silver	Mercury	Chloride	Nitrate	Sulfate	Naphthalene	pH	Alkalinity	TDS
MWR-1	07/31/03	<0.5	<0.7	<0.8	<0.8	ND	92.4	NA	46.1	NA	397	0.0114	**1.87**	<0.00087	**0.0522**	**0.0562**	0.0086	<0.0018	<0.00016	154	<0.40	147	NA	7.9	725	**1,340**
	09/24/04	<0.5	<0.7	<0.8	<0.8	NS	12.5	NA	7.56	NA	291	<0.0047	0.252	<0.00076	<0.0025	<0.0100	<0.0059	<0.0020	<0.00028	30.5	<0.40	27.0	<1	8.0	553	712
	06/21/05	<0.5	<0.7	<0.8	<0.8	NS	10.2	NA	6.02	NA	278	<0.0093	0.191	<0.00097	<0.0048	<0.0084	<0.0094	<0.0020	<0.000062	30.5	<0.40	38.0	<1	7.9	611	775
	06/21/06	<0.5	<0.7	<0.8	<0.8	NS	11.1	NA	6.61	NA	317	<0.01	0.221	<0.00091	<0.0023	<0.0069	<0.0094	<0.0016	<0.000056	24.3	0.26	43.6	<1	8.1	611	684
	06/19/07	<0.5	<0.7	<0.8	<0.8	NS	31.3	NA	15.2	NA	331	<0.01	0.728	<0.00090	0.0176	0.0126	<0.0094	<0.0016	0.000058	34.1	<0.25	58.8	<1	8.2	705	886
	07/01/08	<5.0	<5.0	<5.0	<5.0	NS	10.9	**3**	6.53	**0.369**	299	<0.005	0.225	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0002	29.6	<1	37.9	<5	8.1	579	865
	06/24/09	<5	<5	<5	<5	NS	19.7	**9.07**	7.89	**0.577**	332	<0.005	0.488	<0.005	0.00666	<0.005	<0.005	<0.005	<0.0002	25.2	<0.5	39.9	<5	7.96	600	793
MWS-1		Dry Wells; Not Sampled																								
MWS-2																										
MW-2	05/14/03	<0.1	<1.0	<1.0	<2.0	NS	14.7	NA	7.9	NA	418	<0.01	0.21	<0.002	<0.005	<0.003	NA	NA	NA	64.4	<0.5	102	<9.6	NA	770	**1,140**
	09/24/04	<0.5	<0.7	<0.8	<0.8	ND	6.30	NA	2.96	NA	321	0.0131	0.126	<0.00076	<0.0025	<0.0100	<0.0059	<0.0020	<0.000028	29.6	<0.40	4.4	<0.9	8.3	718	860
	06/21/05	<0.5	<0.7	<0.8	<0.8	NS	6.45	NA	3.14	NA	310	0.0196	0.141	<0.00097	<0.0048	<0.0084	<0.0094	<0.0020	<0.000062	38.9	<0.40	18.6	<1	8.2	708	878
	06/21/06	<0.5	<0.7	<0.8	<0.8	NS	7.16	NA	3.57	NA	384	0.0212	0.141	<0.00091	<0.0023	<0.0069	<0.0094	<0.0016	<0.000056	38.6	<0.25	22.9	<1	8.2	712	908
	06/19/07	<0.5	<0.7	<0.8	<0.8	NS	6.73	NA	3.41	NA	284	0.0190	0.139	<0.00090	<0.0023	<0.0069	<0.0094	<0.0016	<0.000056	33.0	1.3	13.3	<1	8.3	708	888
	07/02/08	<5.0	<5.0	<5.0	<5.0	NS	13.2	0.601	9.6	**0.354**	361	0.00783	0.223	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0002	62.9	<0.5	125	<5	7.77	626	**1,050**
	06/23/09	<5	<5	<5	<5	NS	14.5	0.611	8.18	**0.314**	403	0.0115	0.255	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0002	57.3	<0.5	113	<5	7.94	580	**1,030**
MW-3	05/14/03	<0.1	<1.0	<1.0	<2.0	NS	28.7	NA	13.5	NA	149	<0.01	<0.2	<0.002	<0.005	<0.003	NA	NA	NA	19.2	<0.5	15.5	<9.6	NA	428	542
	09/24/04	<0.5	<0.7	<0.8	<0.8	NS	27.9	NA	13.4	NA	156	<0.0047	0.150	<0.00076	<0.0025	<0.0100	<0.0059	<0.0020	<0.00028	19.6	<0.40	14.6	<1	7.8	419	493
	06/21/05	<0.5	<0.7	<0.8	<0.8	NS	26.6	NA	12.8	NA	144	0.0108	0.160	<0.00097	<0.0048	0.0084	<0.0094	<0.0020	<0.000062	20.6	<0.40	13.3	<1	7.6	415	488
	06/21/06	<0.5	<0.7	<0.8	<0.8	NS	27.4	NA	13.3	NA	161	<0.010	0.16	<0.00091	<0.0023	<0.0069	<0.0094	<0.0016	<0.000056	19.5	<0.25	14.9	<1	7.7	394	507
	06/19/07	<0.5	<0.7	<0.8	<0.8	NS	28.4	NA	13.5	NA	170	<0.010	0.143	<0.00090	<0.0023	<0.0069	<0.0094	<0.0016	<0.000056	22.1	<0.25	17.3	<1	7.7	417	510
	07/01/08	<5.0	<5.0	<5.0	<5.0	NS	27.5	**4.66**	13.2	**1.97**	151	0.0388	0.307	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002	19.3	<1	15.4	<5	7.64	382	538
	06/23/09	<5	<5	<5	<5	NS	29.5	0.255	14.5	**0.703**	172	0.00654	0.178	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0002	23.6	<0.5	26.5	<5	7.74	339	519
WMW-1	05/14/03	<0.1	<1.0	<1.0	<2.0	NS	258	NA	69.7	NA	1,140	<0.01	<0.2	<0.002	<0.005	<0.003	NA	NA	NA	**648**	<0.5	**1,870**	<9.8	NA	1050	**5,090**
	09/24/04	<0.5	<0.7	<0.8	<0.8	NS	236	NA	63.8	NA	1,370	<0.0047	0.0256	<0.00076	0.0025	<0.0100	0.0059	0.002	<0.000028	**627**	<0.40	**1,880**	<1	7.8	1,030	**5,150**
	06/20/05	<0.5	<0.7	<0.8	<0.8	NS	224	NA	61.1	NA	1,370	<0.0093	0.0177	<0.00097	<0.0048	<0.0084	<0.0094	<0.0020	<0.000062	**614**	<0.40	**1,760**	<1	7.0	1,060	**5,140**
	06/21/06	<0.5	<0.7	<0.8	<0.8	NS	279	NA	76.8	NA	1,310	<0.01	0.0706	<0.00091	0.003	<0.0069	<0.0094	<0.0016	<0.000056	**609**	<0.25	**1,940**	<1	7.1	1,030	**5,150**
	06/18/07	<0.5	<0.7	<0.8	<0.8	NS	287	NA	77.2	NA	1,310	<0.01	0.0317	<0.00090	<0.0023	<0.0069	<0.0094	<0.0018	<0.000056	**579**	<0.25	**1,880**	<1	7.2	1,050	**5,130**
	06/30/08	<5.0	<5.0	<5.0	<5.0	NS	228	**1.92**	63.7	**3.97**	1,210	<0.005	0.0478	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0002	**566**	<0.5	**2,010**	<5	6.78	998	**4,640**
	06/22/09	<5	<5	<5	<5	NS	222	0.192	60.9	**3.94**	1,330	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.0002	**501**	<0.5	**2,150**	<5	7.05	845	**4,560**
WMW-2	05/14/03	**29,000**	<500	<500	**<1,000**	NS	47.3	NA	27.4	NA	1,140	0.016	0.42	0.0081	0.0095	0.0180	NA	NA	NA	**628**	0.6	8.2	24	NA	1,710	**3,150**
	09/24/04	**28,000**	450	110	**650**	NS	57.2	NA	33.8	NA	1,510	<0.0047	0.421	0.0036	<0.0025	0.0100	<0.0059	<0.0020	<0.000028	**936**	<0.40	<1.5	21	7.6	2,110	**4,220**
	06/21/05	**29,000**	350	110	**570**	NS	53.6	NA	32.3	NA	1,450	<0.0093	0.442	0.0047	<0.0048	<0.0084	<0.0094	<0.0020	<0.000062	**962**	<0.40	<1.5	17	7.5	2,090	**3,800**
	duplicate	***25,000***	62	84	470	NS	NS	NA	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	06/21/06	**5,300**	15	24	150	NS	4.04	NA	190	NA	1,050	<0.01	0.0841	<0.00091	<0.0023	<0.0069	<0.0094	<0.0016	<0.000056	**730**	<0.25	74	3	**9.9**	2,000	**3,400**
	duplicate	**5,300**	15	24	150	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	06/20/07	**7,200**	90	40	280	NS	19.3	NA	104	NA	712	0.0138	0.102	0.0065	0.0064	<0.0069	<0.0094	<0.0016	<0.000056	**468**	<0.25	76.9	9	**9.9**	1,200	**1,900**
	duplicate	**5,200**	87	39	270	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	07/02/08	**7,700**	190	34	201	NS	128	NA	110	**0.476**	852	0.00993	0.411	0.131	0.029	0.0288	<0.005	<0.005	<0.0002	**565**	<0.5	25.9	6	**9.31**	1,220	282
	duplicate	**7,900**	220	56	346	NA	NA	**48.8**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	06/24/09	**9,800**	300	50	313	NA	16.2	0.482	99.9	<0.25	1,000	<0.005	0.11	<0.005	0.00809	<0.005	<0.01	<0.005	<0.0002	**502**	<0.5	15.8	5.6	**9.59**	1,530	**2,770**
	duplicate	**9,700**	290	49	313	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WMW-3	05/14/03	<0.1	<1.0	<1.0	<2.0	NS	186	NA	88.5	NA	1,860	0.014	0.62	<0.002	**0.19**	0.042	NA	NA	NA	**1,150**	1.5	**1,680**	<9.5	NA	1,090	**5,570**
	09/25/04	<0.5	<0.7	<0.8	<0.8	NS	470	NA	216	NA	1,810	0.0351	**1.14**	0.0012	**0.905**	**0.250**	<0.0059	<0.0020	<0.00028	**985**	<0.40	**1,410**	<10	7.5	1,700	***6,030***
	06/20/05	<0.5	<0.7	<0.8	<0.8	NS	112	NA	48.0	NA	1,700	<0.0093	0.210	<0.00097	0.0421	0.0112	<0.0094	<0.0020	<0.000062	**1,030**	<0.40	**1,380**	<1	7.5	1,230	**5,590**
	06/21/06	<0.5	<0.7	<0.8	<0.8	NS	155	NA	73.8	NA	1,850	<0.01	0.468	<0.00091	0.0996	0.0339	<0.0094	<0.0016	0.00012	**1,150**	<0.25	**1,580**	<1	7.5	1,210	**5,640**
	06/20/07	<0.5	<0.7	<0.8	<0.8	NS	199	NA	70.4	NA	2,040	0.0107	0.320	<0.00090	0.0701	0.0292	<0.0094	<0.0016	0.000076	**1,540**	1.5	**1,950**	<10	7.5	1,520	**5,900**
	07/01/08	<5.0	<5.0	<5.0	<5.0	NS	336	**230**	157	**4.45**	1,500	0.0187	2.05	<0.005	0.31	**0.158**	<0.005	<0.005	<0.002	**548**	<5	**963**	<5.4	7.54	964	**7,800**
	06/24/09	<5	<5	<5	<5	NS	400	**4.3**	57.4	**3.35**	1,710	0.0166	0.265	<0.005	0.0154	**0.0568**	<0.01	<0.005	<0.0002	**677**	0.716	**1,370**	<5	7.65	1,410	**3,190**

Table 2. Groundwater Analysis Summary (Data Set 1), 2003 through 2009, Wingate Fractionating Plant, Gallup, New Mexico

Sample Location	Date Sampled	SW846 8260B Micrograms per Liter (ug/L)					Total Metals by SW846 6020A/6010B, Milligrams per Liter (mg/L)												SW 7470A (mg/L), Total	MCAWW 300.0A (mg/L)			SW846 8270C (ug/L)	EPA 150.1 (pH units)	MCAWW 310.1 (mg/L)	MCAWW 160.1 (mg/L)
		Benzene	Toluene	Ethylbenzene	Xylenes	TPH-GRO	Calcium	Iron	Magnesium	Manganese	Sodium	Arsenic	Barium	Cadmium	Chromium	Lead	Selenium	Silver	Mercury	Chloride	Nitrate	Sulfate	Naphthalene	pH	Alkalinity	TDS
WMW-4	05/14/03	<0.1	<1.0	<1.0	<2.0	NS	37.3	NA	16.8	NA	550	<0.01	0.28	<0.002	0.006	**16.8**	NA	NA	NA	133	<0.5	240	<9.7	NA	783	**3,070**
	07/30/03	<0.5	<0.7	<0.8	<0.8	53	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/23/04	<0.5	<0.7	<0.8	<0.8	NS	12.5	NA	13.1	NA	553	0.0077	0.0435	<0.00076	<0.0025	<0.0100	<0.0059	0.0020	<0.000028	149	<0.40	247	<1	7.8	788	**1,550**
	06/20/05	<0.5	<0.7	<0.8	<0.8	NS	11.7	NA	12.5	NA	529	<0.0093	0.0449	<0.00097	<0.0048	<0.0084	<0.0094	<0.0020	<0.000062	152	<0.40	243	<1	7.8	764	**1,470**
	06/21/06	<0.5	<0.7	<0.8	<0.8	NS	12	NA	12.8	NA	532	<0.01	0.0414	<0.00091	<0.0023	<0.0069	<0.0094	<0.0016	<0.000056	163	<0.25	266	<1	7.8	722	**1,480**
	06/20/07	<0.5	<0.7	<0.8	<0.8	NS	15	NA	13.8	NA	582	<0.01	0.0782	<0.00090	0.0039	<0.0069	<0.0094	<0.0016	<0.000056	184	<0.25	265	<1	8.0	765	**1,380**
	06/30/08	<5.0	<5.0	<5.0	<5.0	NS	12.1	0.963	0.248	**0.248**	526	<0.005	0.0463	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0002	186	<0.5	240	<5	7.54	672	**1,460**
	06/22/09	<5	<5	<5	<5	NS	16.5	**4.13**	12.2	**0.325**	566	<0.025	0.0627	<0.025	<0.025	<0.025	<0.025	<0.025	<0.0002	143	<0.5	228	<5	7.73	673	**1,470**
WMW-5	05/14/03	<0.1	<1.0	<1.0	<2.0	NS	332	NA	98	NA	1,310	<0.01	<0.2	<0.002	<0.005	<0.003	NA	NA	NA	**598**	<0.5	**2,380**	<9.5	NA	895	**5,530**
	07/30/03	<0.5	<0.7	<0.8	<0.8	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/23/04	<0.5	<0.7	<0.8	<0.8	NS	186	NA	48.8	NA	915	<0.0047	0.0117	<0.00076	<0.0025	<0.0100	<0.0059	<0.0020	0.000044	**307**	<0.40	**1,330**	<1	7.1	788	**3,410**
	06/20/05	<0.5	<0.7	<0.8	<0.8	NS	187	NA	50.5	NA	834	<0.0093	0.0137	<0.00097	<0.0048	<0.0084	<0.0094	<0.0020	<0.000062	**334**	<0.40	**1,400**	<1	7.0	693	**3,300**
	06/21/06	<0.5	<0.7	<0.8	<0.8	NS	144	NA	38.7	NA	730	<0.01	0.0076	<0.00091	<0.0023	<0.0069	<0.0094	<0.0016	<0.000056	224	<0.25	**1,210**	<1	7.1	680	**2,380**
	06/18/07	<0.5	<0.7	<0.8	<0.8	NS	253	NA	69	NA	1,170	<0.01	0.0213	<0.00090	<0.0023	<0.0069	<0.0094	<0.0016	<0.000056	**383**	<0.25	**1,730**	<1	7.2	796	**4,380**
	06/30/08	<0.5	<0.5	<0.5	<0.5	NS	137	0.562	41.4	**1.12**	811	<0.005	0.0163	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0002	232	<0.5	**1,270**	<5	7.15	548	**3,020**
	06/22/09	<5	<5	<5	<5	NS	172	0.346	49.4	**0.693**	912	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.0002	**259**	<0.5	**1,370**	<5	7.37	682	**3,260**
WMW-6	09/24/04	<0.5	<0.7	<0.8	<0.8	ND	34.4	NA	13.2	NA	315	<0.0047	0.0517	<0.00076	<0.0025	<0.0100	<0.0059	<0.0020	<0.000028	57.5	<0.40	285	<1	7.8	425	**1,020**
	06/21/05	<0.5	<0.7	<0.8	<.08	NS	35.9	NA	13.4	NA	294	<0.0093	0.0490	<0.00097	<0.0048	<0.0084	<0.0094	<0.0020	<0.000062	58.8	<0.40	290	<1	7.7	428	952
	06/21/06	<0.5	<0.7	<0.8	<0.8	NS	38.1	NA	14.1	NA	300	<0.01	0.049	<0.00091	<0.0023	<0.0069	0.0094	<0.0016	<0.000056	58.9	<0.25	293	<1	7.7	488	966
	06/18/07	<0.5	<0.7	<0.8	<0.8	NS	44.3	NA	15.5	NA	320	<0.01	0.0637	<0.00090	<0.0023	<0.0069	0.0094	<0.0016	<0.000056	66.7	<0.25	280	<1	7.7	449	**1,070**
	07/01/08	<5.0	<5.0	<5.0	<5.0	NS	194	**77**	56.3	**2.76**	317	0.0119	2.34	<0.005	0.0863	**0.0545**	<0.005	<0.005	<0.0002	76.5	<1	328	<5	7.82	451	**1,500**
	06/23/09	<5	<5	<5	<5	NS	41.1	0.516	14.4	0.162	339	<0.005	0.0679	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0002	57.2	<0.5	276	<5	7.87	389	**1,020**
WMW-7	09/24/04	<0.5	<0.7	<0.8	<0.8	NS	35.5	NA	15.8	NA	362	<0.0047	0.179	<0.00076	0.0074	<0.0100	<0.0059	<0.0020	<0.000028	63.7	<0.40	309	<1	7.7	526	**1,200**
	06/21/05	<0.5	<0.7	<0.8	<0.8	NS	48.0	NA	25.4	NA	803	<0.0093	0.0394	<0.00097	<0.0048	<0.0084	<0.0094	<0.0020	<0.000062	170	<0.40	**1,120**	<1	7.7	630	**2,590**
	06/21/06	<0.5	<0.7	<0.8	<0.8	NS	42.2	NA	22.2	NA	776	<0.01	0.0315	<0.00091	<0.0023	<0.0069	<0.0094	<0.0016	<0.000056	234	<0.25	**1,080**	<1	7.6	589	**2,360**
	06/18/07	<0.5	<0.7	<0.8	<0.8	NS	42.9	NA	21.8	NA	773	<0.01	0.0339	<0.00090	<0.0023	<0.0069	<0.0094	<0.0016	<0.000056	152	<0.25	**896**	<1	7.7	643	**2,310**
	06/30/08	<5.0	<5.0	<5.0	<5.0	NS	50.5	**15.3**	24.9	**0.511**	478	<0.005	0.198	<0.005	0.0137	0.00946	<0.005	<0.005	<0.0002	92.4	<0.5	224	<5	7.34	514	**1,580**
	06/22/09	<5	<5	<5	<5	NS	41.1	0.284	16.9	**0.2**	509	<0.025	0.0371	<0.025	<0.025	<0.025	<0.025	<0.025	<0.0002	80.4	<0.5	439	<5	7.56	520	**1,410**
WMW-8	09/24/04	<0.5	<0.7	<0.8	<0.8	NS	36.1	NA	17.6	NA	218	<0.0047	0.213	<0.00076	<0.0025	<0.0100	<0.0059	<0.0020	<0.000028	27.0	<0.40	130	<1	7.8	440	753
	06/21/05	<0.5	<0.7	<.08	<0.8	NS	29.3	NA	14.7	NA	279	<0.0093	0.126	<0.00097	<0.0048	<0.0084	<0.0094	<0.0020	<0.000062	42.9	<0.40	169	<1	7.7	497	882
	06/21/06	<0.5	<0.7	<0.8	<0.8	NS	28.9	NA	14.8	NA	286	<0.01	0.151	<0.00091	<0.0023	<0.0069	<0.0094	<0.0016	<0.000056	NA[1]	<0.25	NA[1]	<1	NA[1]	506	NA[1]
	06/19/07	<0.5	<0.7	<0.8	<0.8	NS	295	NA	186	NA	186	<0.01	0.171	<0.00090	<0.0023	<0.0069	<0.0094	<0.0016	<0.000056	28.5	<0.25	143	<1	7.6	487	795
	07/01/08	<5.0	<5.0	<5.0	<5.0	NS	38.5	0.083	18.2	**0.311**	214	<0.005	0.185	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002	21.6	<0.5	148	<5	7.6	425	816
	06/23/09	<5	<5	<5	<5	NS	39.6	0.0771	18	**0.278**	220	<0.005	0.215	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0002	21.8	<0.5	149	<5	7.69	369	718
West Pond	09/23/04	<10	<14	<16	<16	NS	698	NA	8,830	NA	57,900	0.0362	0.0858	<0.00076	0.0051	<0.0100	0.0199	<0.0020	<0.000028	**90,300**	**<80**	**29,500**	<1	8.5	469	**209,000**
	06/20/05	<0.5	<0.7	<0.8	<0.8	NS	539	NA	4,950	NA	142,000	0.0253	0.103	0.0016	<0.0048	<0.0840	0.0145	0.0077	<0.000062	**180,000**	**<1600**	**16,400**	<1	7.7	357	**369,000**
	06/19/07	<0.5	<0.7	<0.8	<0.8	NS	34.4	NA	18.1	NA	283	0.0193	0.0591	<0.00090	<0.0023	<0.0069	<0.0094	0.0069	0.00012	**36,000**	<2.5	**19,600**	<1	7.9	416	**361,000**
	07/02/08	<5.0	<5.0	<5.0	<5.0	NS	257	0.223	14,800	**5.79**	59,900	0.0468	0.0207	<0.005	0.0062	<0.005	0.00788	<0.005	<0.0002	**153,000**	<50	**15,400**	<5.5	7.46	799	**285,000**
	06/24/09	<5	<5	<5	<5	NS	440	0.197	5,250	**1.2**	68,000	0.0336	<0.1	<0.1	<0.25	<0.1	<0.01	<0.1	<0.0002	**173,000**	<2500	**14,800**	<5	8.1	435	**397,000**
East Pond	09/23/04	<3	<4	<4	<4	NS	1,080	NA	625	NA	12,400	<0.0047	0.0730	<0.00076	0.0029	<0.0100	0.0061	<0.0020	<0.000028	**19,600**	<0.40	**6,690**	<1	**9.8**	148	**46,200**
	06/20/05	<0.5	<0.7	<0.8	<0.8	NS	1,010	NA	488	NA	9,560	<0.0093	0.0731	<0.00097	<0.0048	<0.0084	<0.0094	<0.0020	<0.000062	**13,000**	<0.40	**5,090**	<1	**10.4**	110	**31,100**
	06/21/06	<0.5	<0.7	<0.8	<0.8	NS	1,400	NA	889	NA	9,640	0.0113	0.117	<0.00091	<0.0023	<0.0069	<0.0094	<0.0016	<0.000056	**13,000**	<0.25	**9,180**	<1	**10.4**	156	**34,800**
	06/19/07	<0.5	<0.7	<0.8	<0.8	NS	251	NA	161	NA	4,340	<0.01	0.0667	<0.00090	<0.0023	<0.0069	<0.0094	<0.0016	<0.000056	**5,720**	1.3	**5,860**	<1	**9.8**	103	**19,700**
	07/02/08	<5.0	<5.0	<5.0	<5.0	NS	1,070	<0.02	736	<0.005	3,890	<0.005	0.0813	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002	**4,880**	<5.0	**7,690**	<5.0	**10**	76	**16,200**
	06/24/09	<5	<5	<5	<5	NS	849	<0.02	605	<0.25	2,510	<0.005	0.0443	<0.005	0.00521	<0.005	<0.01	<0.005	<0.0002	**2,270**	<0.5	**5,360**	<5	**10**	88	**13,000**
NMWQCC Groundwater Standards for Human Health or Domestic Water Supply[2]		**10**	**750**	**750**	**620**	**NE**	**NE**	**1.0**	**NE**	**0.2**	**NE**	**0.1**	**1.0**	**0.01**	**0.05**	**0.05**	**0.05**	**0.05**	**0.002**	**250**	**10**	**600**	**30**	**6.6 - 8.6 (see note 2)**	**NE**	**1,000**

Explanation

[1]Due to an error on the chain-of-custody, WMW-8 was not analyzed for the presense of Chloride, Sulfate, pH, or TDS.
MCAWW - "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983, subsequent revisions included
MW - Monitoring Well
MWR - Redrilled Monitor Well
MWS - Shallow Monitor Well
NA - Not Analyzed
ND - Not detected above laboratory detection limits
NMWQCC - New Mexico Water Quality Control Commission
NE - Not established by NMWQCC
NS - Not Sampled
SW846 - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986, updates included
Values in bold indicate an exceedance of the NMWQCC standard
[2]With the exception of pH, which as the Discharge Permit states, shall be regulated by 20.6.2.2101 NMAC.

Table 3. Groundwater analysis Summary (Data Set 2), 2003 through 2009,
Wingate Fractionating Plant, Gallup, New Mexico

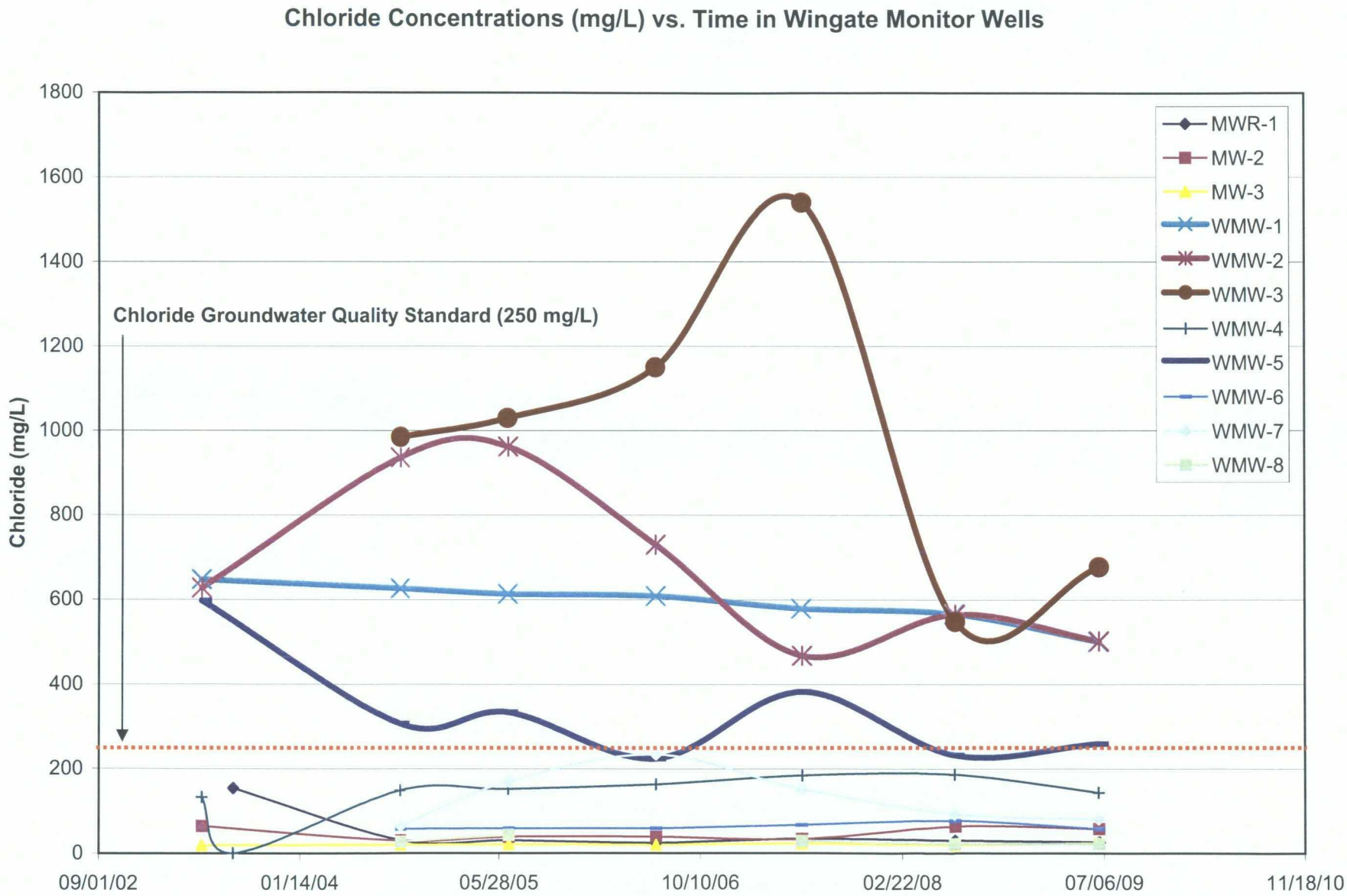
Sample Location	Date Sampled	EPA 405.1	EPA 410.1	Standard Method 19, 1995, 9223B
		BOD (mg/L)	COD (mg/L)	Total Coliform (colonies/100 mL)
MWR-1	07/31/03	9.2	32.1	NS
	09/24/04	11.0	20.6	<1.0
	06/21/05	<3.5	12.9	<1.0
	06/21/06	<5.0	16.7	<1.0
	06/19/07	15.9	68.5	<1.0
	07/01/08	<2.0	9.41	<1.0
	06/24/09	2.87	17.5	10
MW-2	09/24/04	<6.0	26.70	<1.0
	06/21/05	<2.5	32.40	<1.0
	06/21/06	<5.8	28.30	<1.0
	06/19/07	<3.8	29.0	<1.0
	07/02/08	<2.0	7.23	<1.0
	06/23/09	< 2	40	7
MW-3	05/14/03	<4.0	ND	NS
	09/24/04	5.2	<1.4	<1.0
	06/21/05	<2.2	7.4	<1.0
	06/21/06	<2.0	6.8	<1.0
	06/19/07	<2.5	19.7	NA[1]
	07/01/08	<2.0	7.06	12
	06/23/09	< 2	7.5	< 1
MWS-1	Dry Wells; Not Sampled			
MWS-2				
East Pond	09/23/04	18.9	**150**	>200.5
	06/21/05	8.7	105	>200.5
	06/21/06	<11.9	**147**	8.7
	06/19/07	<9.8	**462**	>200.5
	07/02/08	<2.0	94	<1.0
	06/24/09	4.4	67.5	4
West Pond	09/23/04	**62.5**	**1,210**	<1.0
	06/21/05	7.5	**775**	<1.0
	06/19/07	<42.4[2]	**10,200**	<1.0
	07/02/08	**30.8**	**2,940**	<1.0
	06/24/09	7.7	**1,600**	< 1
Discharge Permit Limit[3]		**< 30**	**< 125**	**< 500**

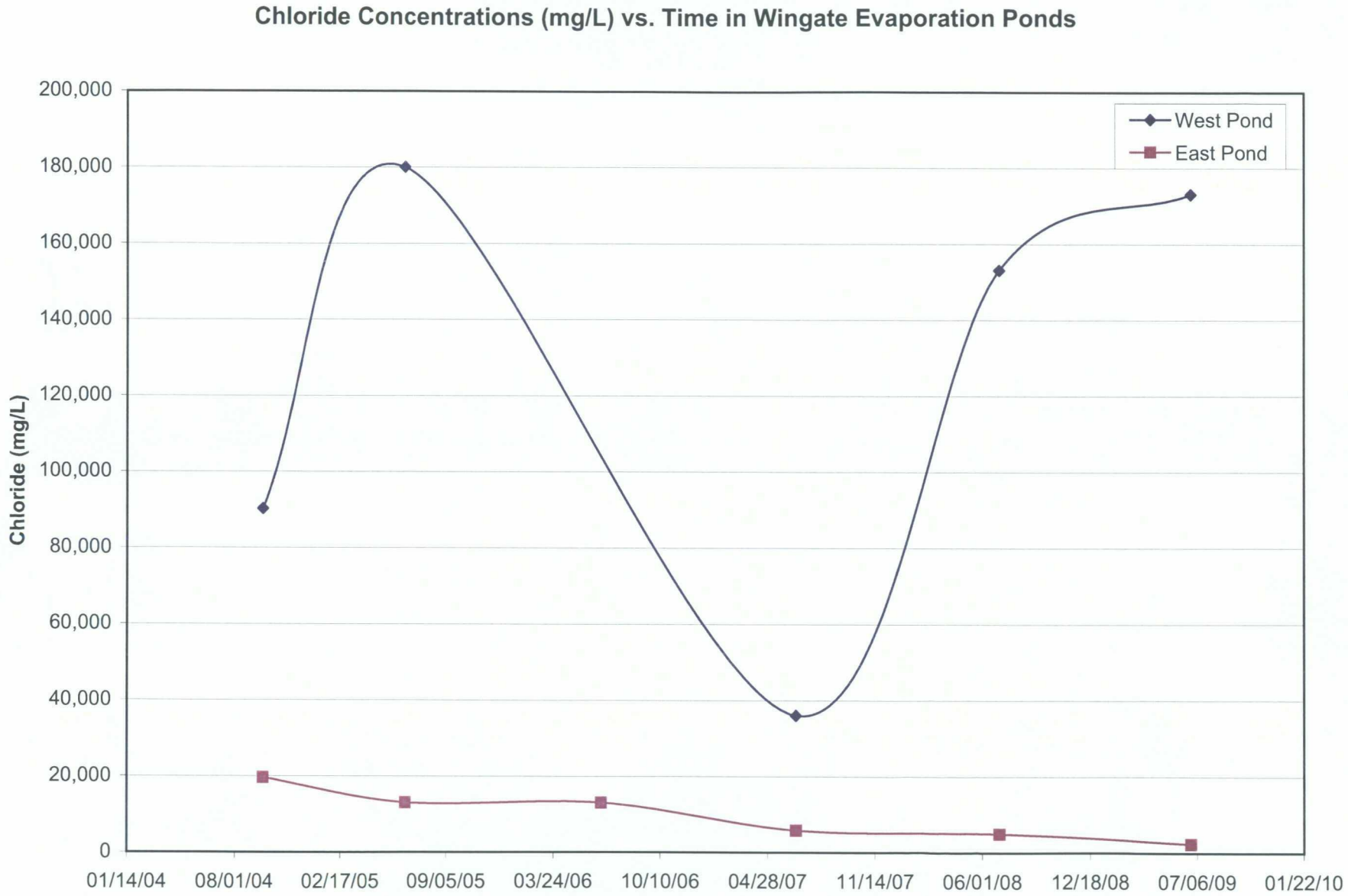
Explanation

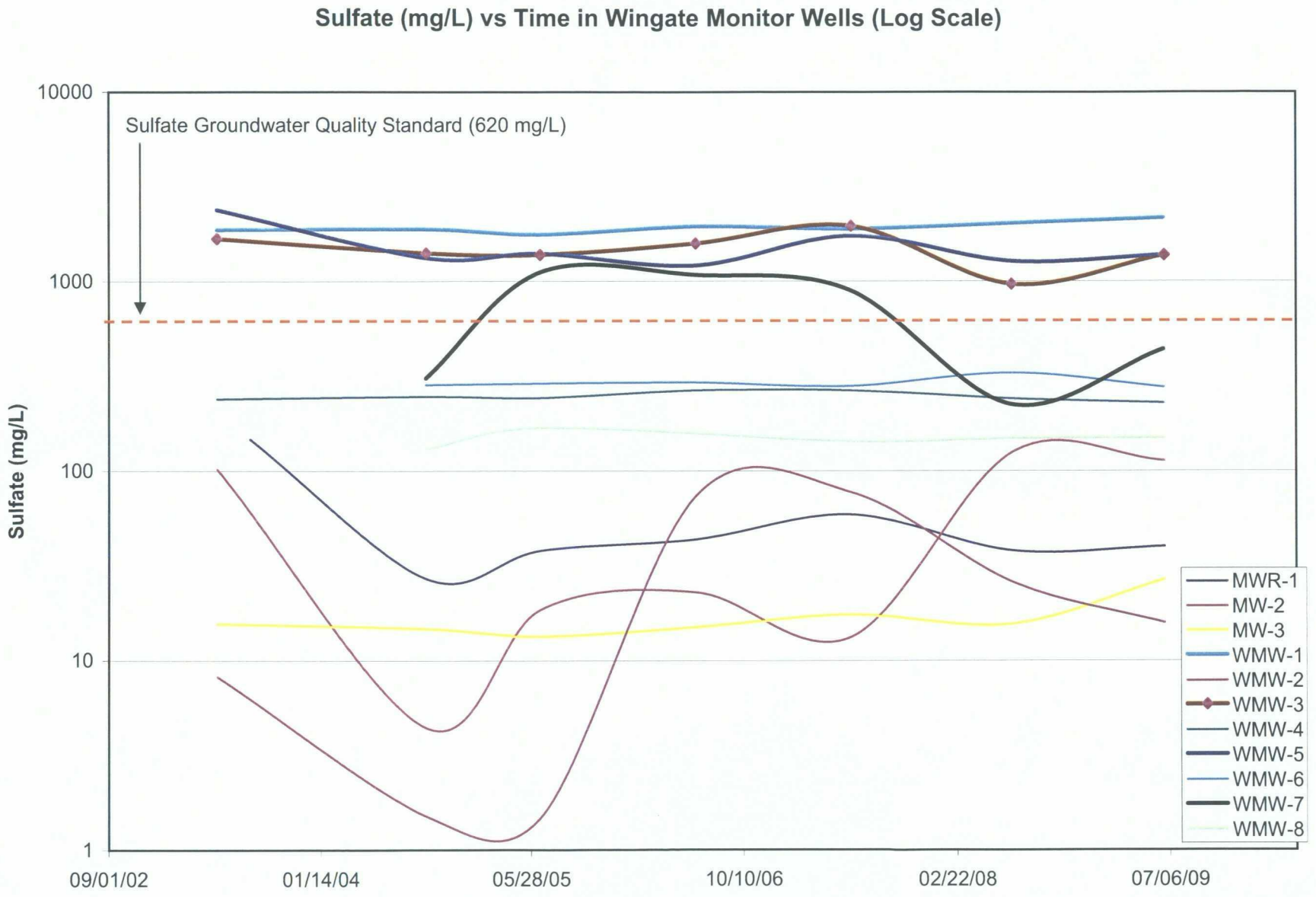
[1]The sample was positive for chlorine and therefore was considered invalid and could not be analyzed
[2]Estimated BOD result
BOD - Biological Oxygen Demand
COD - Chemical Oxygen Demand
MW - Monitor Well
MWR - Redrilled Monitor Well
MWS - Shallow Monitor Well
NA - Not Analyzed
ND - Not detected above laboratory detection limits
NS - Not Sampled
[3]Permit Limit as stipulated in the Discharge Permit and regulated by 20.6.2.2101 NMAC, Subpart A.

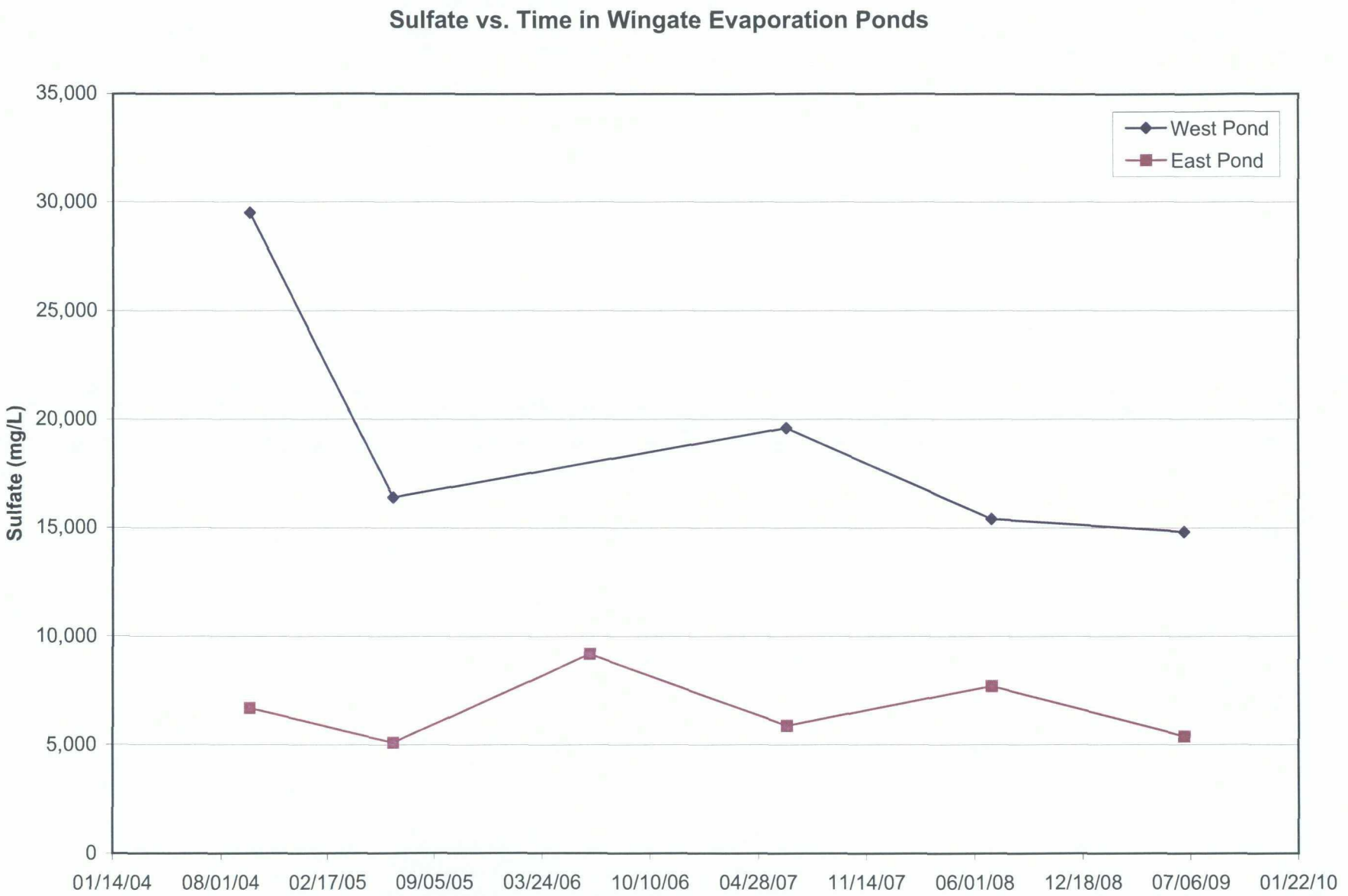
APPENDIX A

Analytical Concentrations vs. Time Graphs and Site Hydrographs

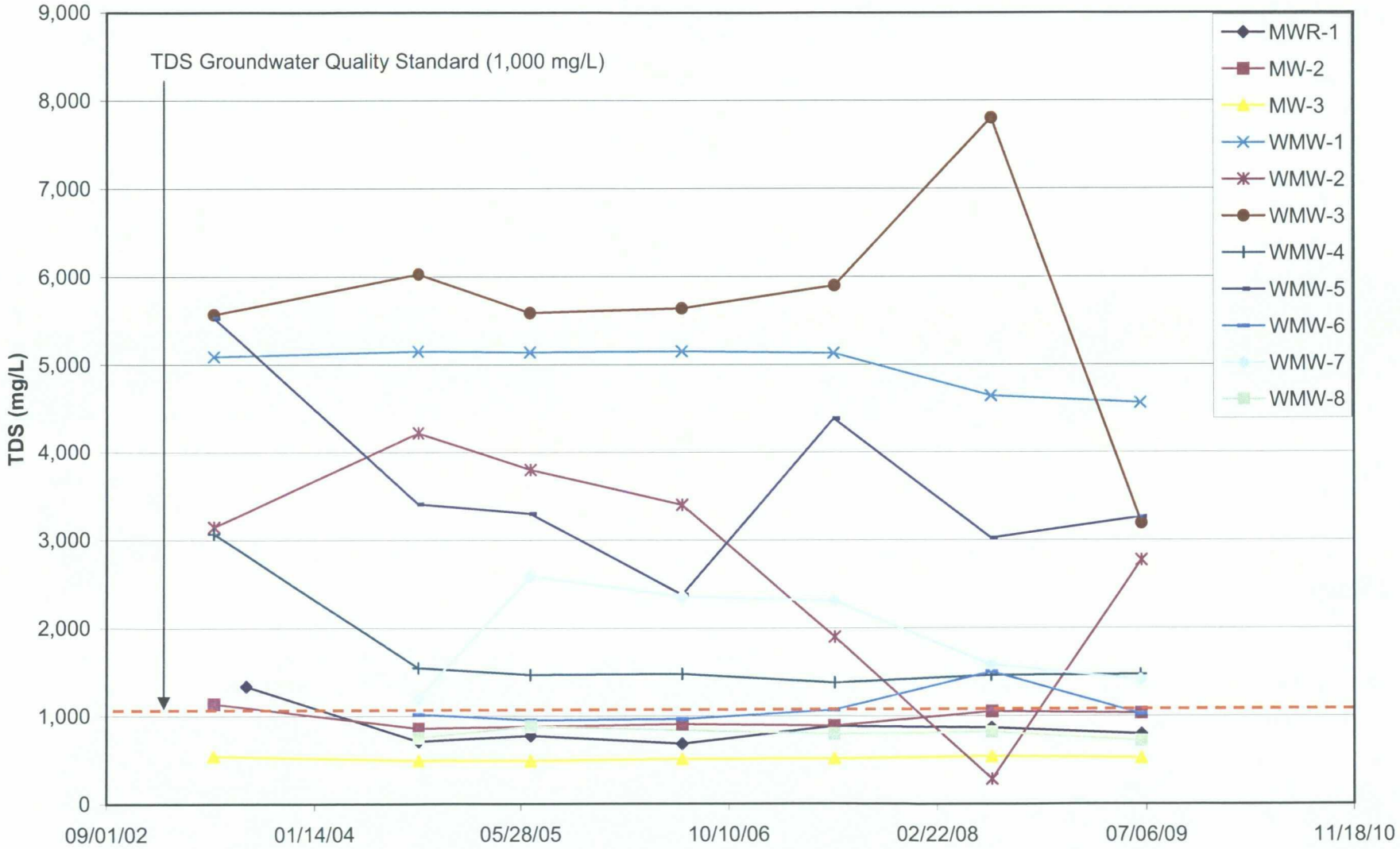

Chloride Concentrations (mg/L) vs. Time in Wingate Monitor Wells
Chloride (mg/L)
1800
1600
1400
1200
1000
800
600
400
200
0
Chloride Groundwater Quality Standard (250 mg/L)
09/01/02
01/14/04
05/28/05
10/10/06
02/22/08
07/06/09
11/18/10
MWR-1
MW-2
MW-3
WMW-1
WMW-2
WMW-3
WMW-4
WMW-5
WMW-6
WMW-7
WMW-8


Chloride Concentrations (mg/L) vs. Time in Wingate Evaporation Ponds
Chloride (mg/L)
200,000
180,000
160,000
140,000
120,000
100,000
80,000
60,000
40,000
20,000
0
01/14/04
08/01/04
02/17/05
09/05/05
03/24/06
10/10/06
04/28/07
11/14/07
06/01/08
12/18/08
07/06/09
01/22/10
West Pond
East Pond

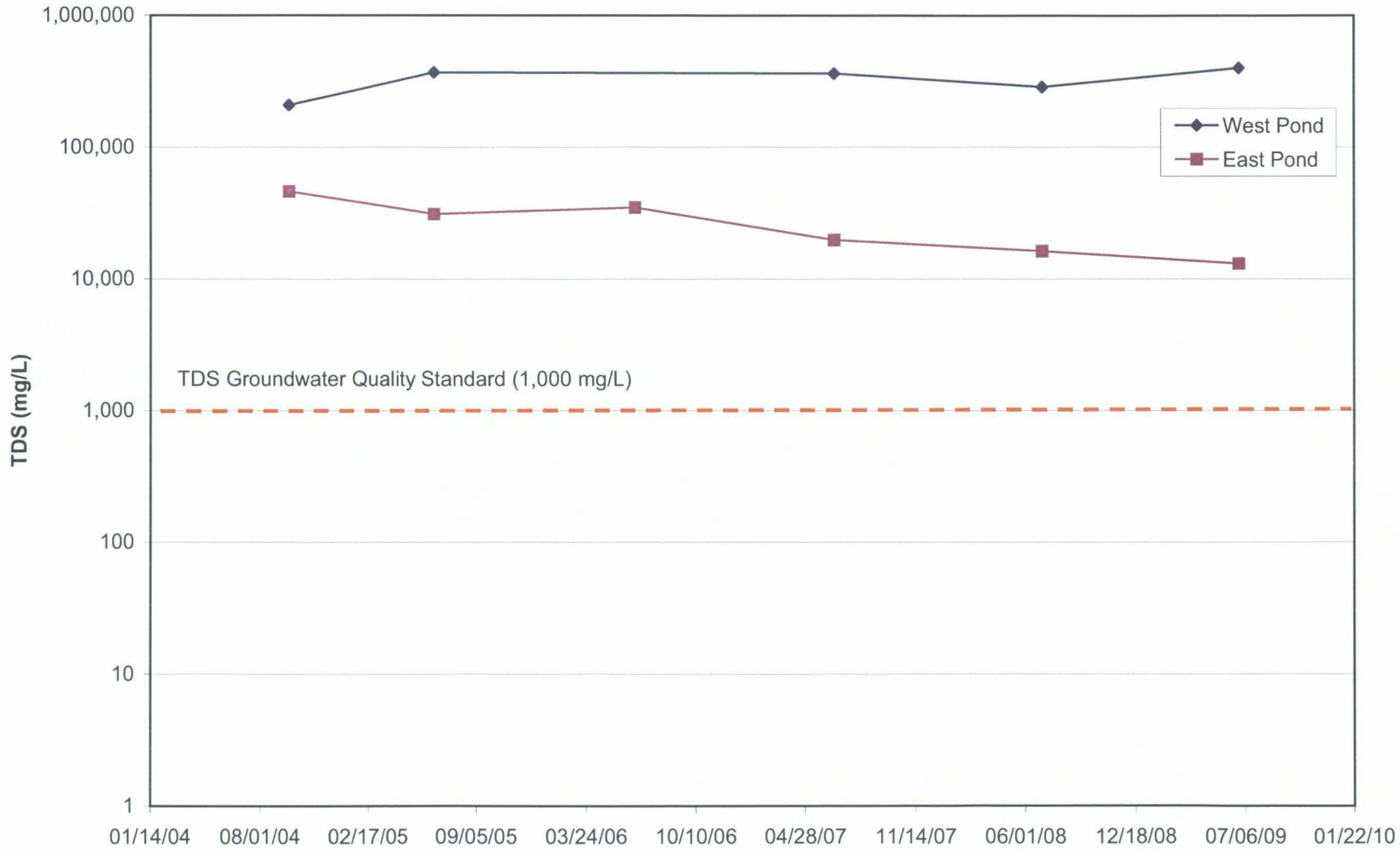

Sulfate (mg/L) vs Time in Wingate Monitor Wells (Log Scale)
Sulfate Groundwater Quality Standard (620 mg/L)
Sulfate (mg/L)
10000
1000
100
10
1
09/01/02
01/14/04
05/28/05
10/10/06
02/22/08
07/06/09
MWR-1
MW-2
MW-3
WMW-1
WMW-2
WMW-3
WMW-4
WMW-5
WMW-6
WMW-7
WMW-8

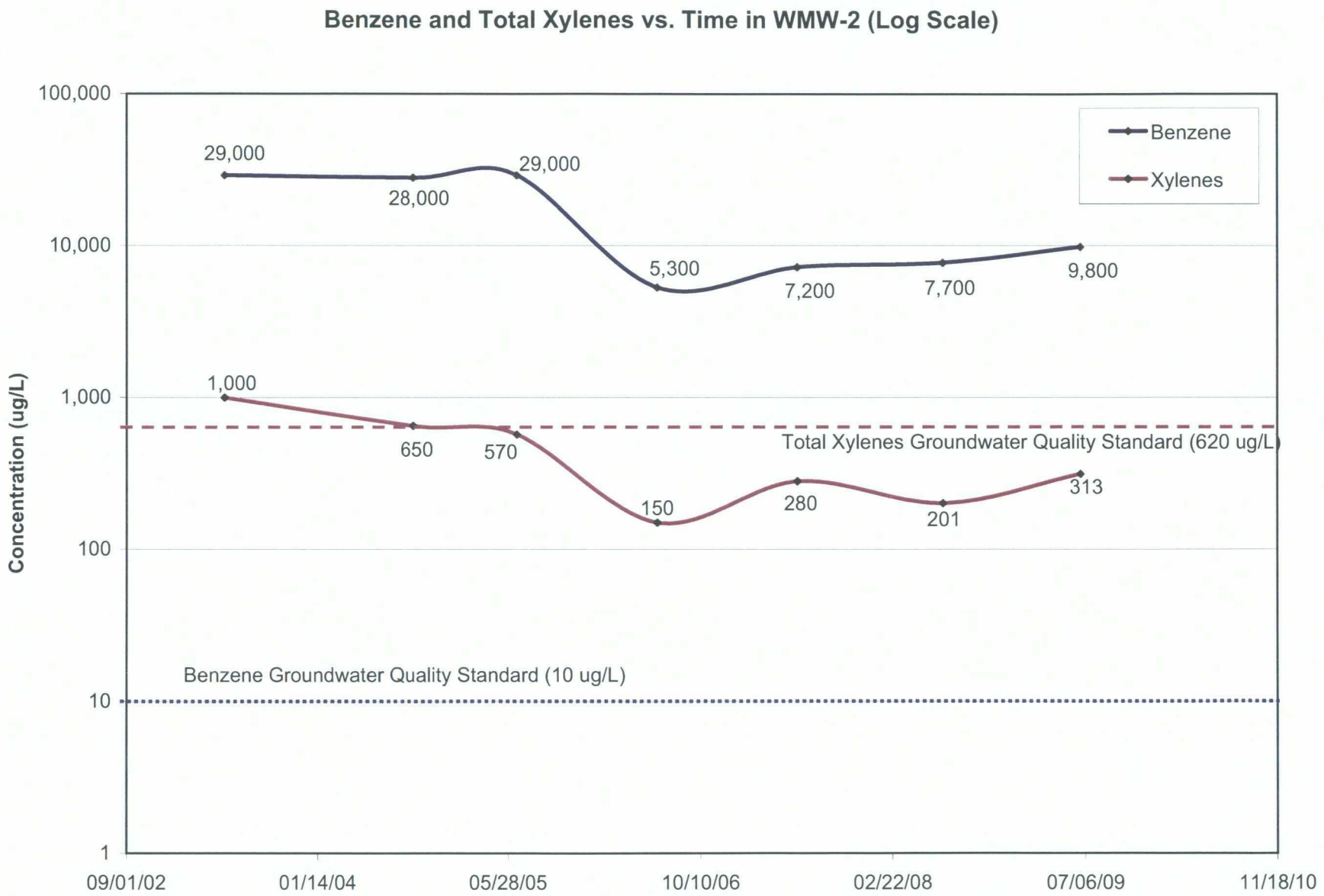

Sulfate vs. Time in Wingate Evaporation Ponds
Sulfate (mg/L)
35,000
30,000
25,000
20,000
15,000
10,000
5,000
0
01/14/04
08/01/04
02/17/05
09/05/05
03/24/06
10/10/06
04/28/07
11/14/07
06/01/08
12/18/08
07/06/09
01/22/10
West Pond
East Pond

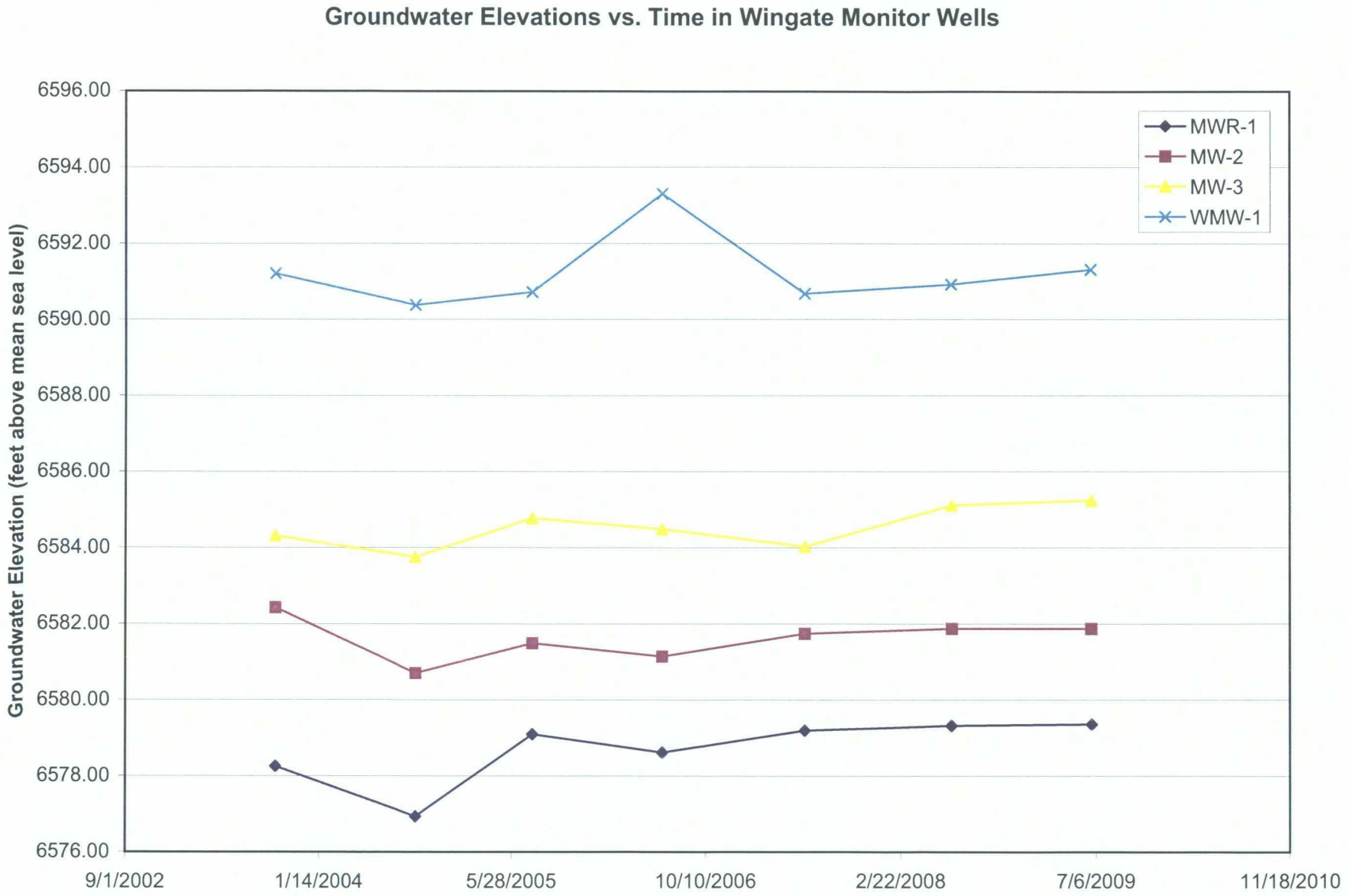
Total Dissolved Solids vs. Time in Wingate Monitor Wells

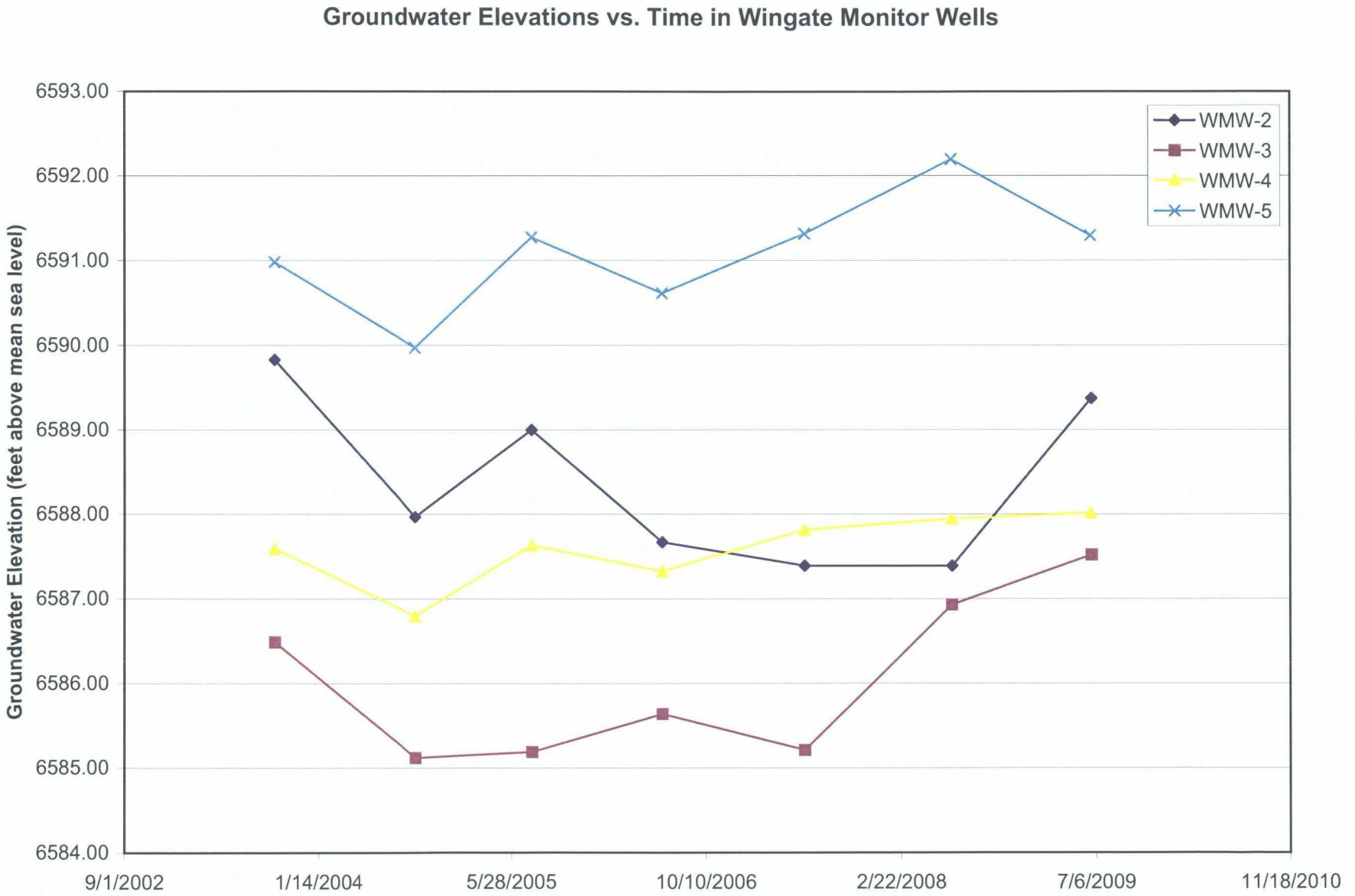


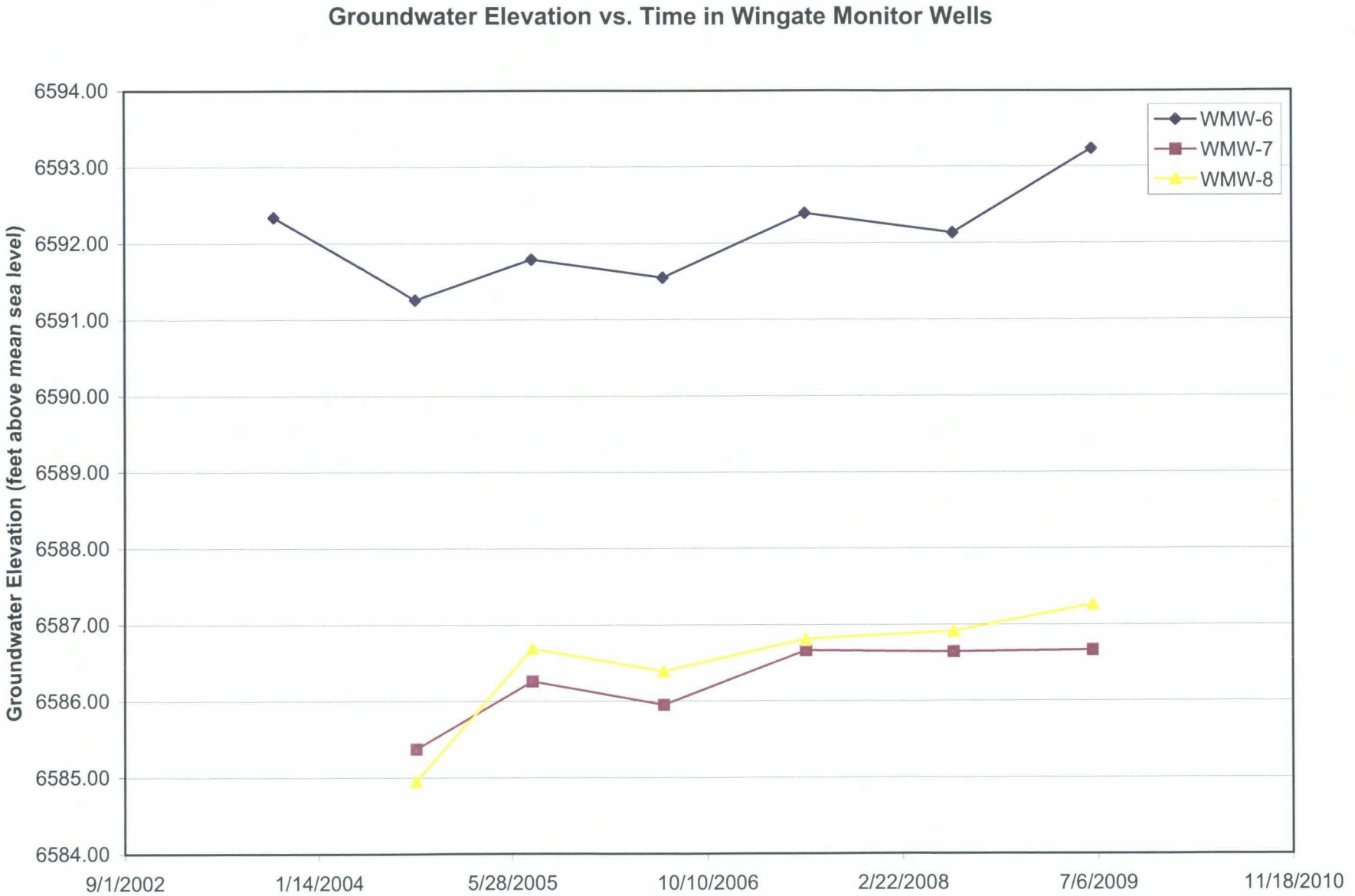
Total Dissolved Solids vs. Time in Wingate Evaporation Ponds (Log Scale)




Benzene and Total Xylenes vs. Time in WMW-2 (Log Scale)
Concentration (ug/L)
100,000
10,000
1,000
100
10
1
09/01/02
01/14/04
05/28/05
10/10/06
02/22/08
07/06/09
11/18/10
Benzene
Xylenes
29,000
28,000
29,000
5,300
7,200
7,700
9,800
1,000
650
570
150
280
201
313
Total Xylenes Groundwater Quality Standard (620 ug/L)
Benzene Groundwater Quality Standard (10 ug/L)


Groundwater Elevations vs. Time in Wingate Monitor Wells
Groundwater Elevation (feet above mean sea level)
6596.00
6594.00
6592.00
6590.00
6588.00
6586.00
6584.00
6582.00
6580.00
6578.00
6576.00
9/1/2002
1/14/2004
5/28/2005
10/10/2006
2/22/2008
7/6/2009
11/18/2010
MWR-1
MW-2
MW-3
WMW-1


Groundwater Elevations vs. Time in Wingate Monitor Wells
Groundwater Elevation (feet above mean sea level)
6593.00
6592.00
6591.00
6590.00
6589.00
6588.00
6587.00
6586.00
6585.00
6584.00
9/1/2002
1/14/2004
5/28/2005
10/10/2006
2/22/2008
7/6/2009
11/18/2010
WMW-2
WMW-3
WMW-4
WMW-5


Groundwater Elevation vs. Time in Wingate Monitor Wells
Groundwater Elevation (feet above mean sea level)
6594.00
6593.00
6592.00
6591.00
6590.00
6589.00
6588.00
6587.00
6586.00
6585.00
6584.00
9/1/2002
1/14/2004
5/28/2005
10/10/2006
2/22/2008
7/6/2009
11/18/2010
WMW-6
WMW-7
WMW-8

APPENDIX B

Laboratory Analytical Report

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

Conoco Phillips

Certificate of Analysis Number:

09061252

Report To:		Project Name:	COP Wingate
Tetra Tech, Inc.		Site:	Gallup, NM
Kelly Blanchard		Site Address:	
6121 Indian School Road, N.E.			
Suite 200		PO Number:	4511799321
Albuquerque		State:	New Mexico
NM		State Cert. No.:	
87110-		Date Reported:	7/7/2009
ph: (505) 237-8440	fax:		

This Report Contains A Total Of 49 Pages

Excluding This Page, Chain Of Custody

And

Any Attachments

7/8/2009

Date

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

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

Case Narrative for:

Conoco Phillips

Certificate of Analysis Number:

09061252

Report To:		Project Name:	COP Wingate
Tetra Tech, Inc.		Site:	Gallup, NM
Kelly Blanchard		Site Address:	
6121 Indian School Road, N.E.			
Suite 200		PO Number:	4511799321
Albuquerque		State:	New Mexico
NM		State Cert. No.:	
87110-		Date Reported:	7/7/2009
ph: (505) 237-8440	fax:		

I. SAMPLE RECEIPT:

Your samples "MW-2 and MW-3" were received expired for the Total Coliforms analysis. SPL continued with the analysis.

II: ANALYSIS AND EXCEPTIONS:

SW8270C Semivolatile Organics:

Due to limited sample volume, a Matrix Spike (MS) or Matrix Spike Duplicate (MSD) was not extracted for Semivolatile Organics analysis. A Laboratory Control Sample (LCS) and a Laboratory Control Sample Duplicate (LCSD) were extracted with the analytical batch and serve as the batch quality control (QC). The LCS and LCSD recovered acceptably and precision criteria were met.

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 Method Blank (MB) are processed with the samples 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.

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.

Erica Cardenas
Project Manager

Date

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

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

Conoco Phillips

Certificate of Analysis Number:

09061252

Report To: Tetra Tech, Inc.
Kelly Blanchard
6121 Indian School Road, N.E.
Suite 200
Albuquerque
NM
87110-
ph: (505) 237-8440 fax: (505) 881-3283

Fax To:

Project Name: COP Wingate
Site: Gallup, NM
Site Address:
PO Number: 4511799321
State: New Mexico
State Cert. No.:
Date Reported: 7/7/2009

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
WMW-6	09061252-01	Water	6/23/2009 11:45:00 AM	6/24/2009 10:00:00 AM		☐
MW-3	09061252-02	Water	6/23/2009 10:35:00 AM	6/24/2009 10:00:00 AM		☐
WMW-8	09061252-03	Water	6/23/2009 11:45:00 AM	6/24/2009 10:00:00 AM		☐
MW-2	09061252-04	Water	6/23/2009 2:50:00 PM	6/24/2009 10:00:00 AM		☐
TRIP BLANK	09061252-05	Water	6/23/2009	6/24/2009 10:00:00 AM		☐

Erica Cardenas
Project Manager

7/8/2009
Date

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

Ted Yen
Quality Assurance Officer

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

Client Sample ID: WMW-6 **Collected:** 06/23/2009 11:45 **SPL Sample ID:** 09061252-01

Site: Gallup, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
ALKALINITY (AS CACO3), TOTAL				**MCL**	**E310.1**	**Units: mg/L**	
Alkalinity, Total (As CaCO3)	389		2	1	06/30/09 18:00	PAC	5094596
ION CHROMATOGRAPHY				**MCL**	**E300.0**	**Units: mg/L**	
Chloride	57.2		5	10	06/27/09 14:47	BDG	5088442
Sulfate	276		25	50	06/27/09 15:04	BDG	5088443
Nitrogen,Nitrate (As N)	ND		0.5	1	06/24/09 17:37	BDG	5084072
MERCURY, TOTAL				**MCL**	**SW7470A**	**Units: mg/L**	
Mercury	ND		0.0002	1	07/02/09 14:57	F_S	5097651

Prep Method	Prep Date	Prep Initials	Prep Factor
SW7470A	07/02/2009 10:15	F_S	1.00

METALS BY METHOD 6010B, TOTAL				**MCL**	**SW6010B**	**Units: mg/L**	
Calcium	41.1		0.1	1	07/04/09 17:23	EG	5101742
Iron	0.516		0.02	1	07/04/09 17:23	EG	5101742
Magnesium	14.4		0.1	1	07/04/09 17:23	EG	5101742
Sodium	339		1	10	07/05/09 14:51	EG	5101428

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	06/27/2009 13:30	AB1	1.00

METALS BY METHOD 6020A, TOTAL				**MCL**	**SW6020A**	**Units: mg/L**	
Arsenic	ND		0.005	1	07/03/09 1:35	AL_H	5098298
Barium	0.0679		0.005	1	07/03/09 1:35	AL_H	5098298
Cadmium	ND		0.005	1	07/04/09 1:59	AL_H	5102035
Chromium	ND		0.005	1	07/03/09 1:35	AL_H	5098298
Lead	ND		0.005	1	07/03/09 1:35	AL_H	5098298
Manganese	0.162		0.005	1	07/03/09 1:35	AL_H	5098298
Selenium	ND		0.005	1	07/04/09 7:20	AL_H	5101301
Silver	ND		0.005	1	07/03/09 1:35	AL_H	5098298

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	06/27/2009 13:30	AB1	1.00

PH				**MCL**	**SM4500-H B**	**Units: pH Units**	
pH	7.87		0.1	1	06/24/09 13:45	S_H	5082652
Temperature (oC)	22.1		0.1	1	06/24/09 13:45	S_H	5082652

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

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

Client Sample ID: WMW-6 **Collected:** 06/23/2009 11:45 **SPL Sample ID:** 09061252-01

Site: Gallup, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
SEMIVOLATILE ORGANICS BY METHOD 8270C			**MCL**	**SW8270C**	**Units: ug/L**		
1,2,4-Trichlorobenzene	ND		5	1	06/29/09 20:17	S_G	5092149
1,2-Dichlorobenzene	ND		5	1	06/29/09 20:17	S_G	5092149
1,2-Diphenylhydrazine	ND		10	1	06/29/09 20:17	S_G	5092149
1,3-Dichlorobenzene	ND		5	1	06/29/09 20:17	S_G	5092149
1,4-Dichlorobenzene	ND		5	1	06/29/09 20:17	S_G	5092149
2,4,5-Trichlorophenol	ND		10	1	06/29/09 20:17	S_G	5092149
2,4,6-Trichlorophenol	ND		5	1	06/29/09 20:17	S_G	5092149
2,4-Dichlorophenol	ND		5	1	06/29/09 20:17	S_G	5092149
2,4-Dimethylphenol	ND		5	1	06/29/09 20:17	S_G	5092149
2,4-Dinitrophenol	ND		25	1	06/29/09 20:17	S_G	5092149
2,4-Dinitrotoluene	ND		5	1	06/29/09 20:17	S_G	5092149
2,6-Dinitrotoluene	ND		5	1	06/29/09 20:17	S_G	5092149
2-Chloronaphthalene	ND		5	1	06/29/09 20:17	S_G	5092149
2-Chlorophenol	ND		5	1	06/29/09 20:17	S_G	5092149
2-Methylnaphthalene	ND		5	1	06/29/09 20:17	S_G	5092149
2-Nitroaniline	ND		25	1	06/29/09 20:17	S_G	5092149
2-Nitrophenol	ND		5	1	06/29/09 20:17	S_G	5092149
3,3'-Dichlorobenzidine	ND		10	1	06/29/09 20:17	S_G	5092149
3-Nitroaniline	ND		25	1	06/29/09 20:17	S_G	5092149
4,6-Dinitro-2-methylphenol	ND		25	1	06/29/09 20:17	S_G	5092149
4-Bromophenyl phenyl ether	ND		5	1	06/29/09 20:17	S_G	5092149
4-Chloro-3-methylphenol	ND		5	1	06/29/09 20:17	S_G	5092149
4-Chloroaniline	ND		5	1	06/29/09 20:17	S_G	5092149
4-Chlorophenyl phenyl ether	ND		5	1	06/29/09 20:17	S_G	5092149
4-Nitroaniline	ND		25	1	06/29/09 20:17	S_G	5092149
4-Nitrophenol	ND		25	1	06/29/09 20:17	S_G	5092149
Acenaphthene	ND		5	1	06/29/09 20:17	S_G	5092149
Acenaphthylene	ND		5	1	06/29/09 20:17	S_G	5092149
Aniline	ND		5	1	06/29/09 20:17	S_G	5092149
Anthracene	ND		5	1	06/29/09 20:17	S_G	5092149
Benz(a)anthracene	ND		5	1	06/29/09 20:17	S_G	5092149
Benzo(a)pyrene	ND		5	1	06/29/09 20:17	S_G	5092149
Benzo(b)fluoranthene	ND		5	1	06/29/09 20:17	S_G	5092149
Benzo(g,h,i)perylene	ND		5	1	06/29/09 20:17	S_G	5092149
Benzo(k)fluoranthene	ND		5	1	06/29/09 20:17	S_G	5092149
Benzoic acid	ND		25	1	06/29/09 20:17	S_G	5092149
Benzyl alcohol	ND		5	1	06/29/09 20:17	S_G	5092149
Bis(2-chloroethoxy)methane	ND		5	1	06/29/09 20:17	S_G	5092149
Bis(2-chloroethyl)ether	ND		5	1	06/29/09 20:17	S_G	5092149

Qualifiers:

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J - Estimated Value between MDL and PQL
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TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
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HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: WMW-6 **Collected:** 06/23/2009 11:45 **SPL Sample ID:** 09061252-01

Site: Gallup, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
Bis(2-chloroisopropyl)ether	ND		5	1	06/29/09 20:17	S_G	5092149
Bis(2-ethylhexyl)phthalate	ND		5	1	06/29/09 20:17	S_G	5092149
Butyl benzyl phthalate	ND		5	1	06/29/09 20:17	S_G	5092149
Carbazole	ND		5	1	06/29/09 20:17	S_G	5092149
Chrysene	ND		5	1	06/29/09 20:17	S_G	5092149
Dibenz(a,h)anthracene	ND		5	1	06/29/09 20:17	S_G	5092149
Dibenzofuran	ND		5	1	06/29/09 20:17	S_G	5092149
Diethyl phthalate	ND		5	1	06/29/09 20:17	S_G	5092149
Dimethyl phthalate	ND		5	1	06/29/09 20:17	S_G	5092149
Di-n-butyl phthalate	ND		5	1	06/29/09 20:17	S_G	5092149
Di-n-octyl phthalate	ND		5	1	06/29/09 20:17	S_G	5092149
Fluoranthene	ND		5	1	06/29/09 20:17	S_G	5092149
Fluorene	ND		5	1	06/29/09 20:17	S_G	5092149
Hexachlorobenzene	ND		5	1	06/29/09 20:17	S_G	5092149
Hexachlorobutadiene	ND		5	1	06/29/09 20:17	S_G	5092149
Hexachlorocyclopentadiene	ND		5	1	06/29/09 20:17	S_G	5092149
Hexachloroethane	ND		5	1	06/29/09 20:17	S_G	5092149
Indeno(1,2,3-cd)pyrene	ND		5	1	06/29/09 20:17	S_G	5092149
Isophorone	ND		5	1	06/29/09 20:17	S_G	5092149
Naphthalene	ND		5	1	06/29/09 20:17	S_G	5092149
Nitrobenzene	ND		5	1	06/29/09 20:17	S_G	5092149
N-Nitrosodi-n-propylamine	ND		5	1	06/29/09 20:17	S_G	5092149
N-Nitrosodiphenylamine	ND		5	1	06/29/09 20:17	S_G	5092149
Pentachlorophenol	ND		25	1	06/29/09 20:17	S_G	5092149
Phenanthrene	ND		5	1	06/29/09 20:17	S_G	5092149
Phenol	ND		5	1	06/29/09 20:17	S_G	5092149
Pyrene	ND		5	1	06/29/09 20:17	S_G	5092149
Pyridine	ND		5	1	06/29/09 20:17	S_G	5092149
2-Methylphenol	ND		5	1	06/29/09 20:17	S_G	5092149
3 & 4-Methylphenol	ND		5	1	06/29/09 20:17	S_G	5092149
Surr: 2,4,6-Tribromophenol	68.1		% 10-123	1	06/29/09 20:17	S_G	5092149
Surr: 2-Fluorobiphenyl	69.4		% 23-116	1	06/29/09 20:17	S_G	5092149
Surr: 2-Fluorophenol	43.2		% 16-110	1	06/29/09 20:17	S_G	5092149
Surr: Nitrobenzene-d5	62.4		% 21-114	1	06/29/09 20:17	S_G	5092149
Surr: Phenol-d5	36.4		% 10-110	1	06/29/09 20:17	S_G	5092149
Surr: Terphenyl-d14	62.6		% 22-141	1	06/29/09 20:17	S_G	5092149

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3510C	06/26/2009 12:28	N_M	1.00

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

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

Client Sample ID: WMW-6 **Collected:** 06/23/2009 11:45 **SPL Sample ID:** 09061252-01

Site: Gallup, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
TOTAL DISSOLVED SOLIDS			**MCL**	**E160.1**	**Units: mg/L**		
Total Dissolved Solids (Residue,Filterable)	1020		10	1	06/25/09 15:00	BDG	5085793
VOLATILE ORGANICS BY METHOD 8260B			**MCL**	**SW8260B**	**Units: ug/L**		
Benzene	ND		5	1	07/01/09 8:23	JC	5094852
Ethylbenzene	ND		5	1	07/01/09 8:23	JC	5094852
Toluene	ND		5	1	07/01/09 8:23	JC	5094852
m,p-Xylene	ND		5	1	07/01/09 8:23	JC	5094852
o-Xylene	ND		5	1	07/01/09 8:23	JC	5094852
Xylenes,Total	ND		5	1	07/01/09 8:23	JC	5094852
Surr: 1,2-Dichloroethane-d4	87.3		% 78-116	1	07/01/09 8:23	JC	5094852
Surr: 4-Bromofluorobenzene	93.4		% 74-125	1	07/01/09 8:23	JC	5094852
Surr: Toluene-d8	88.7		% 82-118	1	07/01/09 8:23	JC	5094852

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

Client Sample ID: MW-3 **Collected:** 06/23/2009 10:35 **SPL Sample ID:** 09061252-02

Site: Gallup, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
ALKALINITY (AS CACO3), TOTAL				**MCL**	**E310.1**	**Units: mg/L**	
Alkalinity, Total (As CaCO3)	339		2	1	06/30/09 18:00	PAC	5094597
BIOCHEMICAL OXYGEN DEMAND - 5 DAYS				**MCL**	**SM5210 B**	**Units: mg/L**	
Biochemical Oxygen Demand	ND		2	1	06/24/09 12:45	S_H	5089599
CHEMICAL OXYGEN DEMAND				**MCL**	**SM5220 C**	**Units: mg/L**	
Chemical Oxygen Demand	7.5		3	1	06/25/09 12:00	PAC	5084743
ION CHROMATOGRAPHY				**MCL**	**E300.0**	**Units: mg/L**	
Chloride	23.6		1	2	06/27/09 15:21	BDG	5088444
Sulfate	26.5		1	2	06/27/09 15:21	BDG	5088444
Nitrogen,Nitrate (As N)	ND		0.5	1	06/24/09 17:56	BDG	5084073
MERCURY, TOTAL				**MCL**	**SW7470A**	**Units: mg/L**	
Mercury	ND		0.0002	1	07/02/09 15:00	F_S	5097652

Prep Method	Prep Date	Prep Initials	Prep Factor
SW7470A	07/02/2009 10:15	F_S	1.00

METALS BY METHOD 6010B, TOTAL				**MCL**	**SW6010B**	**Units: mg/L**	
Calcium	29.5		0.1	1	07/04/09 14:49	EG	5101710
Iron	0.255		0.02	1	07/04/09 14:49	EG	5101710
Magnesium	14.5		0.1	1	07/04/09 14:49	EG	5101710
Sodium	172		1	10	07/05/09 13:29	EG	5101413

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	06/27/2009 13:30	AB1	1.00

METALS BY METHOD 6020A, TOTAL				**MCL**	**SW6020A**	**Units: mg/L**	
Arsenic	0.00654		0.005	1	07/03/09 0:21	AL_H	5098286
Barium	0.178		0.005	1	07/03/09 0:21	AL_H	5098286
Cadmium	ND		0.005	1	07/04/09 0:55	AL_H	5102022
Chromium	ND		0.005	1	07/03/09 0:21	AL_H	5098286
Lead	ND		0.005	1	07/03/09 0:21	AL_H	5098286
Manganese	0.703		0.005	1	07/03/09 0:21	AL_H	5098286
Selenium	ND		0.005	1	07/04/09 6:05	AL_H	5101288
Silver	ND		0.005	1	07/03/09 0:21	AL_H	5098286

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	06/27/2009 13:30	AB1	1.00

Qualifiers:

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E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
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HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: MW-3 **Collected:** 06/23/2009 10:35 **SPL Sample ID:** 09061252-02

Site: Gallup, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
PH			**MCL**	**SM4500-H B**	**Units: pH Units**		
pH	7.74		0.1	1	06/24/09 13:45	S_H	5082653
Temperature (oC)	21.5		0.1	1	06/24/09 13:45	S_H	5082653

Qualifiers:

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* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
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HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: MW-3 **Collected:** 06/23/2009 10:35 **SPL Sample ID:** 09061252-02

Site: Gallup, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
SEMIVOLATILE ORGANICS BY METHOD 8270C			**MCL**	**SW8270C**	**Units: ug/L**		
1,2,4-Trichlorobenzene	ND		5	1	06/29/09 20:57	S_G	5092150
1,2-Dichlorobenzene	ND		5	1	06/29/09 20:57	S_G	5092150
1,2-Diphenylhydrazine	ND		10	1	06/29/09 20:57	S_G	5092150
1,3-Dichlorobenzene	ND		5	1	06/29/09 20:57	S_G	5092150
1,4-Dichlorobenzene	ND		5	1	06/29/09 20:57	S_G	5092150
2,4,5-Trichlorophenol	ND		10	1	06/29/09 20:57	S_G	5092150
2,4,6-Trichlorophenol	ND		5	1	06/29/09 20:57	S_G	5092150
2,4-Dichlorophenol	ND		5	1	06/29/09 20:57	S_G	5092150
2,4-Dimethylphenol	ND		5	1	06/29/09 20:57	S_G	5092150
2,4-Dinitrophenol	ND		25	1	06/29/09 20:57	S_G	5092150
2,4-Dinitrotoluene	ND		5	1	06/29/09 20:57	S_G	5092150
2,6-Dinitrotoluene	ND		5	1	06/29/09 20:57	S_G	5092150
2-Chloronaphthalene	ND		5	1	06/29/09 20:57	S_G	5092150
2-Chlorophenol	ND		5	1	06/29/09 20:57	S_G	5092150
2-Methylnaphthalene	ND		5	1	06/29/09 20:57	S_G	5092150
2-Nitroaniline	ND		25	1	06/29/09 20:57	S_G	5092150
2-Nitrophenol	ND		5	1	06/29/09 20:57	S_G	5092150
3,3´-Dichlorobenzidine	ND		10	1	06/29/09 20:57	S_G	5092150
3-Nitroaniline	ND		25	1	06/29/09 20:57	S_G	5092150
4,6-Dinitro-2-methylphenol	ND		25	1	06/29/09 20:57	S_G	5092150
4-Bromophenyl phenyl ether	ND		5	1	06/29/09 20:57	S_G	5092150
4-Chloro-3-methylphenol	ND		5	1	06/29/09 20:57	S_G	5092150
4-Chloroaniline	ND		5	1	06/29/09 20:57	S_G	5092150
4-Chlorophenyl phenyl ether	ND		5	1	06/29/09 20:57	S_G	5092150
4-Nitroaniline	ND		25	1	06/29/09 20:57	S_G	5092150
4-Nitrophenol	ND		25	1	06/29/09 20:57	S_G	5092150
Acenaphthene	ND		5	1	06/29/09 20:57	S_G	5092150
Acenaphthylene	ND		5	1	06/29/09 20:57	S_G	5092150
Aniline	ND		5	1	06/29/09 20:57	S_G	5092150
Anthracene	ND		5	1	06/29/09 20:57	S_G	5092150
Benz(a)anthracene	ND		5	1	06/29/09 20:57	S_G	5092150
Benzo(a)pyrene	ND		5	1	06/29/09 20:57	S_G	5092150
Benzo(b)fluoranthene	ND		5	1	06/29/09 20:57	S_G	5092150
Benzo(g,h,i)perylene	ND		5	1	06/29/09 20:57	S_G	5092150
Benzo(k)fluoranthene	ND		5	1	06/29/09 20:57	S_G	5092150
Benzoic acid	ND		25	1	06/29/09 20:57	S_G	5092150
Benzyl alcohol	ND		5	1	06/29/09 20:57	S_G	5092150
Bis(2-chloroethoxy)methane	ND		5	1	06/29/09 20:57	S_G	5092150
Bis(2-chloroethyl)ether	ND		5	1	06/29/09 20:57	S_G	5092150

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

Client Sample ID: MW-3 **Collected:** 06/23/2009 10:35 **SPL Sample ID:** 09061252-02

Site: Gallup, NM

Analyses/Method	Result	QUAL		Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
Bis(2-chloroisopropyl)ether	ND			5	1	06/29/09 20:57	S_G	5092150
Bis(2-ethylhexyl)phthalate	ND			5	1	06/29/09 20:57	S_G	5092150
Butyl benzyl phthalate	ND			5	1	06/29/09 20:57	S_G	5092150
Carbazole	ND			5	1	06/29/09 20:57	S_G	5092150
Chrysene	ND			5	1	06/29/09 20:57	S_G	5092150
Dibenz(a,h)anthracene	ND			5	1	06/29/09 20:57	S_G	5092150
Dibenzofuran	ND			5	1	06/29/09 20:57	S_G	5092150
Diethyl phthalate	ND			5	1	06/29/09 20:57	S_G	5092150
Dimethyl phthalate	ND			5	1	06/29/09 20:57	S_G	5092150
Di-n-butyl phthalate	ND			5	1	06/29/09 20:57	S_G	5092150
Di-n-octyl phthalate	ND			5	1	06/29/09 20:57	S_G	5092150
Fluoranthene	ND			5	1	06/29/09 20:57	S_G	5092150
Fluorene	ND			5	1	06/29/09 20:57	S_G	5092150
Hexachlorobenzene	ND			5	1	06/29/09 20:57	S_G	5092150
Hexachlorobutadiene	ND			5	1	06/29/09 20:57	S_G	5092150
Hexachlorocyclopentadiene	ND			5	1	06/29/09 20:57	S_G	5092150
Hexachloroethane	ND			5	1	06/29/09 20:57	S_G	5092150
Indeno(1,2,3-cd)pyrene	ND			5	1	06/29/09 20:57	S_G	5092150
Isophorone	ND			5	1	06/29/09 20:57	S_G	5092150
Naphthalene	ND			5	1	06/29/09 20:57	S_G	5092150
Nitrobenzene	ND			5	1	06/29/09 20:57	S_G	5092150
N-Nitrosodi-n-propylamine	ND			5	1	06/29/09 20:57	S_G	5092150
N-Nitrosodiphenylamine	ND			5	1	06/29/09 20:57	S_G	5092150
Pentachlorophenol	ND			25	1	06/29/09 20:57	S_G	5092150
Phenanthrene	ND			5	1	06/29/09 20:57	S_G	5092150
Phenol	ND			5	1	06/29/09 20:57	S_G	5092150
Pyrene	ND			5	1	06/29/09 20:57	S_G	5092150
Pyridine	ND			5	1	06/29/09 20:57	S_G	5092150
2-Methylphenol	ND			5	1	06/29/09 20:57	S_G	5092150
3 & 4-Methylphenol	ND			5	1	06/29/09 20:57	S_G	5092150
Surr: 2,4,6-Tribromophenol	84.0		%	10-123	1	06/29/09 20:57	S_G	5092150
Surr: 2-Fluorobiphenyl	84.2		%	23-116	1	06/29/09 20:57	S_G	5092150
Surr: 2-Fluorophenol	52.9		%	16-110	1	06/29/09 20:57	S_G	5092150
Surr: Nitrobenzene-d5	77.2		%	21-114	1	06/29/09 20:57	S_G	5092150
Surr: Phenol-d5	37.5		%	10-110	1	06/29/09 20:57	S_G	5092150
Surr: Terphenyl-d14	78.6		%	22-141	1	06/29/09 20:57	S_G	5092150

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3510C	06/26/2009 12:28	N_M	1.00

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J - Estimated Value between MDL and PQL
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TNTC - Too numerous to count
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HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: MW-3 **Collected:** 06/23/2009 10:35 **SPL Sample ID:** 09061252-02

Site: Gallup, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
TOTAL COLIFORMS			**MCL**	**M9222 B**	**Units: colonies/100**		
Coliform, Total	ND		1	1	06/24/09 14:00	CFS	5084991
TOTAL DISSOLVED SOLIDS			**MCL**	**E160.1**	**Units: mg/L**		
Total Dissolved Solids (Residue,Filterable)	519		10	1	06/25/09 15:00	BDG	5085794
VOLATILE ORGANICS BY METHOD 8260B			**MCL**	**SW8260B**	**Units: ug/L**		
Benzene	ND		5	1	06/30/09 1:53	JC	5092169
Ethylbenzene	ND		5	1	06/30/09 1:53	JC	5092169
Toluene	ND		5	1	06/30/09 1:53	JC	5092169
m,p-Xylene	ND		5	1	06/30/09 1:53	JC	5092169
o-Xylene	ND		5	1	06/30/09 1:53	JC	5092169
Xylenes,Total	ND		5	1	06/30/09 1:53	JC	5092169
Surr: 1,2-Dichloroethane-d4	91.2		% 78-116	1	06/30/09 1:53	JC	5092169
Surr: 4-Bromofluorobenzene	96.1		% 74-125	1	06/30/09 1:53	JC	5092169
Surr: Toluene-d8	89.7		% 82-118	1	06/30/09 1:53	JC	5092169

Qualifiers:

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

Client Sample ID: WMW-8 **Collected:** 06/23/2009 11:45 **SPL Sample ID:** 09061252-03

Site: Gallup, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
ALKALINITY (AS CACO3), TOTAL				**MCL**	**E310.1**	**Units: mg/L**	
Alkalinity, Total (As CaCO3)	369		2	1	06/30/09 18:00	PAC	5094598
ION CHROMATOGRAPHY				**MCL**	**E300.0**	**Units: mg/L**	
Chloride	21.8		1	2	06/27/09 15:37	BDG	5088445
Sulfate	149		5	10	06/27/09 16:27	BDG	5088448
Nitrogen,Nitrate (As N)	ND		0.5	1	06/24/09 18:15	BDG	5084074
MERCURY, TOTAL				**MCL**	**SW7470A**	**Units: mg/L**	
Mercury	ND		0.0002	1	07/02/09 14:06	F_S	5097033

Prep Method	Prep Date	Prep Initials	Prep Factor
SW7470A	07/02/2009 10:15	F_S	1.00

METALS BY METHOD 6010B, TOTAL				**MCL**	**SW6010B**	**Units: mg/L**	
Calcium	39.6		0.1	1	07/04/09 17:32	EG	5101744
Iron	0.0771		0.02	1	07/04/09 17:32	EG	5101744
Magnesium	18		0.1	1	07/04/09 17:32	EG	5101744
Sodium	220		1	10	07/05/09 14:55	EG	5101429

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	06/27/2009 13:30	AB1	1.00

METALS BY METHOD 6020A, TOTAL				**MCL**	**SW6020A**	**Units: mg/L**	
Arsenic	ND		0.005	1	07/03/09 1:40	AL_H	5098299
Barium	0.215		0.005	1	07/03/09 1:40	AL_H	5098299
Cadmium	ND		0.005	1	07/04/09 2:04	AL_H	5102036
Chromium	ND		0.005	1	07/03/09 1:40	AL_H	5098299
Lead	ND		0.005	1	07/03/09 1:40	AL_H	5098299
Manganese	0.278		0.005	1	07/03/09 1:40	AL_H	5098299
Selenium	ND		0.005	1	07/04/09 7:26	AL_H	5101302
Silver	ND		0.005	1	07/03/09 1:40	AL_H	5098299

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	06/27/2009 13:30	AB1	1.00

PH				**MCL**	**SM4500-H B**	**Units: pH Units**	
pH	7.69		0.1	1	06/24/09 13:45	S_H	5082654
Temperature (oC)	21.9		0.1	1	06/24/09 13:45	S_H	5082654

Qualifiers:

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TNTC - Too numerous to count
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HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: WMW-8 **Collected:** 06/23/2009 11:45 **SPL Sample ID:** 09061252-03

Site: Gallup, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
SEMIVOLATILE ORGANICS BY METHOD 8270C			**MCL**	**SW8270C**	**Units: ug/L**		
1,2,4-Trichlorobenzene	ND		5	1	06/30/09 11:46	S_G	5092565
1,2-Dichlorobenzene	ND		5	1	06/30/09 11:46	S_G	5092565
1,2-Diphenylhydrazine	ND		10	1	06/30/09 11:46	S_G	5092565
1,3-Dichlorobenzene	ND		5	1	06/30/09 11:46	S_G	5092565
1,4-Dichlorobenzene	ND		5	1	06/30/09 11:46	S_G	5092565
2,4,5-Trichlorophenol	ND		10	1	06/30/09 11:46	S_G	5092565
2,4,6-Trichlorophenol	ND		5	1	06/30/09 11:46	S_G	5092565
2,4-Dichlorophenol	ND		5	1	06/30/09 11:46	S_G	5092565
2,4-Dimethylphenol	ND		5	1	06/30/09 11:46	S_G	5092565
2,4-Dinitrophenol	ND		25	1	06/30/09 11:46	S_G	5092565
2,4-Dinitrotoluene	ND		5	1	06/30/09 11:46	S_G	5092565
2,6-Dinitrotoluene	ND		5	1	06/30/09 11:46	S_G	5092565
2-Chloronaphthalene	ND		5	1	06/30/09 11:46	S_G	5092565
2-Chlorophenol	ND		5	1	06/30/09 11:46	S_G	5092565
2-Methylnaphthalene	ND		5	1	06/30/09 11:46	S_G	5092565
2-Nitroaniline	ND		25	1	06/30/09 11:46	S_G	5092565
2-Nitrophenol	ND		5	1	06/30/09 11:46	S_G	5092565
3,3'-Dichlorobenzidine	ND		10	1	06/30/09 11:46	S_G	5092565
3-Nitroaniline	ND		25	1	06/30/09 11:46	S_G	5092565
4,6-Dinitro-2-methylphenol	ND		25	1	06/30/09 11:46	S_G	5092565
4-Bromophenyl phenyl ether	ND		5	1	06/30/09 11:46	S_G	5092565
4-Chloro-3-methylphenol	ND		5	1	06/30/09 11:46	S_G	5092565
4-Chloroaniline	ND		5	1	06/30/09 11:46	S_G	5092565
4-Chlorophenyl phenyl ether	ND		5	1	06/30/09 11:46	S_G	5092565
4-Nitroaniline	ND		25	1	06/30/09 11:46	S_G	5092565
4-Nitrophenol	ND		25	1	06/30/09 11:46	S_G	5092565
Acenaphthene	ND		5	1	06/30/09 11:46	S_G	5092565
Acenaphthylene	ND		5	1	06/30/09 11:46	S_G	5092565
Aniline	ND		5	1	06/30/09 11:46	S_G	5092565
Anthracene	ND		5	1	06/30/09 11:46	S_G	5092565
Benz(a)anthracene	ND		5	1	06/30/09 11:46	S_G	5092565
Benzo(a)pyrene	ND		5	1	06/30/09 11:46	S_G	5092565
Benzo(b)fluoranthene	ND		5	1	06/30/09 11:46	S_G	5092565
Benzo(g,h,i)perylene	ND		5	1	06/30/09 11:46	S_G	5092565
Benzo(k)fluoranthene	ND		5	1	06/30/09 11:46	S_G	5092565
Benzoic acid	ND		25	1	06/30/09 11:46	S_G	5092565
Benzyl alcohol	ND		5	1	06/30/09 11:46	S_G	5092565
Bis(2-chloroethoxy)methane	ND		5	1	06/30/09 11:46	S_G	5092565
Bis(2-chloroethyl)ether	ND		5	1	06/30/09 11:46	S_G	5092565

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

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

Client Sample ID: WMW-8 **Collected:** 06/23/2009 11:45 **SPL Sample ID:** 09061252-03

Site: Gallup, NM

Analyses/Method	Result	QUAL		Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
Bis(2-chloroisopropyl)ether	ND			5	1	06/30/09 11:46	S_G	5092565
Bis(2-ethylhexyl)phthalate	ND			5	1	06/30/09 11:46	S_G	5092565
Butyl benzyl phthalate	ND			5	1	06/30/09 11:46	S_G	5092565
Carbazole	ND			5	1	06/30/09 11:46	S_G	5092565
Chrysene	ND			5	1	06/30/09 11:46	S_G	5092565
Dibenz(a,h)anthracene	ND			5	1	06/30/09 11:46	S_G	5092565
Dibenzofuran	ND			5	1	06/30/09 11:46	S_G	5092565
Diethyl phthalate	ND			5	1	06/30/09 11:46	S_G	5092565
Dimethyl phthalate	ND			5	1	06/30/09 11:46	S_G	5092565
Di-n-butyl phthalate	ND			5	1	06/30/09 11:46	S_G	5092565
Di-n-octyl phthalate	ND			5	1	06/30/09 11:46	S_G	5092565
Fluoranthene	ND			5	1	06/30/09 11:46	S_G	5092565
Fluorene	ND			5	1	06/30/09 11:46	S_G	5092565
Hexachlorobenzene	ND			5	1	06/30/09 11:46	S_G	5092565
Hexachlorobutadiene	ND			5	1	06/30/09 11:46	S_G	5092565
Hexachlorocyclopentadiene	ND			5	1	06/30/09 11:46	S_G	5092565
Hexachloroethane	ND			5	1	06/30/09 11:46	S_G	5092565
Indeno(1,2,3-cd)pyrene	ND			5	1	06/30/09 11:46	S_G	5092565
Isophorone	ND			5	1	06/30/09 11:46	S_G	5092565
Naphthalene	ND			5	1	06/30/09 11:46	S_G	5092565
Nitrobenzene	ND			5	1	06/30/09 11:46	S_G	5092565
N-Nitrosodi-n-propylamine	ND			5	1	06/30/09 11:46	S_G	5092565
N-Nitrosodiphenylamine	ND			5	1	06/30/09 11:46	S_G	5092565
Pentachlorophenol	ND			25	1	06/30/09 11:46	S_G	5092565
Phenanthrene	ND			5	1	06/30/09 11:46	S_G	5092565
Phenol	ND			5	1	06/30/09 11:46	S_G	5092565
Pyrene	ND			5	1	06/30/09 11:46	S_G	5092565
Pyridine	ND			5	1	06/30/09 11:46	S_G	5092565
2-Methylphenol	ND			5	1	06/30/09 11:46	S_G	5092565
3 & 4-Methylphenol	ND			5	1	06/30/09 11:46	S_G	5092565
Surr: 2,4,6-Tribromophenol	81.2		%	10-123	1	06/30/09 11:46	S_G	5092565
Surr: 2-Fluorobiphenyl	70.2		%	23-116	1	06/30/09 11:46	S_G	5092565
Surr: 2-Fluorophenol	47.9		%	16-110	1	06/30/09 11:46	S_G	5092565
Surr: Nitrobenzene-d5	65.4		%	21-114	1	06/30/09 11:46	S_G	5092565
Surr: Phenol-d5	35.9		%	10-110	1	06/30/09 11:46	S_G	5092565
Surr: Terphenyl-d14	81.8		%	22-141	1	06/30/09 11:46	S_G	5092565

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3510C	06/26/2009 12:28	N_M	1.00

Qualifiers:

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

Client Sample ID: WMW-8 **Collected:** 06/23/2009 11:45 **SPL Sample ID:** 09061252-03

Site: Gallup, NM

Analyses/Method	Result	QUAL	Rep.Limit		Dil. Factor	Date Analyzed	Analyst	Seq. #
TOTAL DISSOLVED SOLIDS				**MCL**	**E160.1**	**Units: mg/L**		
Total Dissolved Solids (Residue,Filterable)	718		10		1	06/25/09 15:00	BDG	5085795
VOLATILE ORGANICS BY METHOD 8260B				**MCL**	**SW8260B**	**Units: ug/L**		
Benzene	ND		5		1	06/30/09 2:20	JC	5092170
Ethylbenzene	ND		5		1	06/30/09 2:20	JC	5092170
Toluene	ND		5		1	06/30/09 2:20	JC	5092170
m,p-Xylene	ND		5		1	06/30/09 2:20	JC	5092170
o-Xylene	ND		5		1	06/30/09 2:20	JC	5092170
Xylenes,Total	ND		5		1	06/30/09 2:20	JC	5092170
Surr: 1,2-Dichloroethane-d4	90.6		% 78-116		1	06/30/09 2:20	JC	5092170
Surr: 4-Bromofluorobenzene	94.8		% 74-125		1	06/30/09 2:20	JC	5092170
Surr: Toluene-d8	93.5		% 82-118		1	06/30/09 2:20	JC	5092170

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

Client Sample ID: MW-2 **Collected:** 06/23/2009 14:50 **SPL Sample ID:** 09061252-04

Site: Gallup, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
ALKALINITY (AS CACO3), TOTAL				**MCL**	**E310.1**	**Units: mg/L**	
Alkalinity, Total (As CaCO3)	580		2	1	06/30/09 18:00	PAC	5094599
BIOCHEMICAL OXYGEN DEMAND - 5 DAYS				**MCL**	**SM5210 B**	**Units: mg/L**	
Biochemical Oxygen Demand	ND		2	1	06/24/09 12:45	S_H	5089600
CHEMICAL OXYGEN DEMAND				**MCL**	**SM5220 C**	**Units: mg/L**	
Chemical Oxygen Demand	40		3	1	06/25/09 12:00	PAC	5084745
ION CHROMATOGRAPHY				**MCL**	**E300.0**	**Units: mg/L**	
Chloride	57.3		5	10	06/27/09 17:00	BDG	5088450
Sulfate	113		5	10	06/27/09 17:00	BDG	5088450
Nitrogen,Nitrate (As N)	ND		0.5	1	06/25/09 13:57	BDG	5088557
MERCURY, TOTAL				**MCL**	**SW7470A**	**Units: mg/L**	
Mercury	ND		0.0002	1	07/02/09 15:02	F_S	5097653

Prep Method	Prep Date	Prep Initials	Prep Factor
SW7470A	07/02/2009 10:15	F_S	1.00

METALS BY METHOD 6010B, TOTAL				**MCL**	**SW6010B**	**Units: mg/L**	
Calcium	14.5		0.1	1	07/04/09 17:50	EG	5101748
Iron	0.611		0.02	1	07/04/09 17:50	EG	5101748
Magnesium	8.18		0.1	1	07/04/09 17:50	EG	5101748
Sodium	403		1	10	07/05/09 15:14	EG	5101431

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	06/27/2009 13:30	AB1	1.00

METALS BY METHOD 6020A, TOTAL				**MCL**	**SW6020A**	**Units: mg/L**	
Arsenic	0.0115		0.005	1	07/03/09 1:46	AL_H	5098300
Barium	0.255		0.005	1	07/03/09 1:46	AL_H	5098300
Cadmium	ND		0.005	1	07/04/09 2:09	AL_H	5102037
Chromium	ND		0.005	1	07/03/09 1:46	AL_H	5098300
Lead	ND		0.005	1	07/03/09 1:46	AL_H	5098300
Manganese	0.314		0.005	1	07/03/09 1:46	AL_H	5098300
Selenium	ND		0.005	1	07/04/09 7:32	AL_H	5101303
Silver	ND		0.005	1	07/03/09 1:46	AL_H	5098300

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	06/27/2009 13:30	AB1	1.00

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

Client Sample ID: MW-2 **Collected:** 06/23/2009 14:50 **SPL Sample ID:** 09061252-04

Site: Gallup, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
PH			**MCL**	**SM4500-H B**	**Units: pH Units**		
pH	7.94		0.1	1	06/24/09 13:45	S_H	5082655
Temperature (oC)	22.2		0.1	1	06/24/09 13:45	S_H	5082655

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

Client Sample ID: MW-2 **Collected:** 06/23/2009 14:50 **SPL Sample ID:** 09061252-04

Site: Gallup, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
SEMIVOLATILE ORGANICS BY METHOD 8270C			**MCL**	**SW8270C**	**Units: ug/L**		
1,2,4-Trichlorobenzene	ND		5	1	06/30/09 12:23	S_G	5092566
1,2-Dichlorobenzene	ND		5	1	06/30/09 12:23	S_G	5092566
1,2-Diphenylhydrazine	ND		10	1	06/30/09 12:23	S_G	5092566
1,3-Dichlorobenzene	ND		5	1	06/30/09 12:23	S_G	5092566
1,4-Dichlorobenzene	ND		5	1	06/30/09 12:23	S_G	5092566
2,4,5-Trichlorophenol	ND		10	1	06/30/09 12:23	S_G	5092566
2,4,6-Trichlorophenol	ND		5	1	06/30/09 12:23	S_G	5092566
2,4-Dichlorophenol	ND		5	1	06/30/09 12:23	S_G	5092566
2,4-Dimethylphenol	ND		5	1	06/30/09 12:23	S_G	5092566
2,4-Dinitrophenol	ND		25	1	06/30/09 12:23	S_G	5092566
2,4-Dinitrotoluene	ND		5	1	06/30/09 12:23	S_G	5092566
2,6-Dinitrotoluene	ND		5	1	06/30/09 12:23	S_G	5092566
2-Chloronaphthalene	ND		5	1	06/30/09 12:23	S_G	5092566
2-Chlorophenol	ND		5	1	06/30/09 12:23	S_G	5092566
2-Methylnaphthalene	ND		5	1	06/30/09 12:23	S_G	5092566
2-Nitroaniline	ND		25	1	06/30/09 12:23	S_G	5092566
2-Nitrophenol	ND		5	1	06/30/09 12:23	S_G	5092566
3,3'-Dichlorobenzidine	ND		10	1	06/30/09 12:23	S_G	5092566
3-Nitroaniline	ND		25	1	06/30/09 12:23	S_G	5092566
4,6-Dinitro-2-methylphenol	ND		25	1	06/30/09 12:23	S_G	5092566
4-Bromophenyl phenyl ether	ND		5	1	06/30/09 12:23	S_G	5092566
4-Chloro-3-methylphenol	ND		5	1	06/30/09 12:23	S_G	5092566
4-Chloroaniline	ND		5	1	06/30/09 12:23	S_G	5092566
4-Chlorophenyl phenyl ether	ND		5	1	06/30/09 12:23	S_G	5092566
4-Nitroaniline	ND		25	1	06/30/09 12:23	S_G	5092566
4-Nitrophenol	ND		25	1	06/30/09 12:23	S_G	5092566
Acenaphthene	ND		5	1	06/30/09 12:23	S_G	5092566
Acenaphthylene	ND		5	1	06/30/09 12:23	S_G	5092566
Aniline	ND		5	1	06/30/09 12:23	S_G	5092566
Anthracene	ND		5	1	06/30/09 12:23	S_G	5092566
Benz(a)anthracene	ND		5	1	06/30/09 12:23	S_G	5092566
Benzo(a)pyrene	ND		5	1	06/30/09 12:23	S_G	5092566
Benzo(b)fluoranthene	ND		5	1	06/30/09 12:23	S_G	5092566
Benzo(g,h,i)perylene	ND		5	1	06/30/09 12:23	S_G	5092566
Benzo(k)fluoranthene	ND		5	1	06/30/09 12:23	S_G	5092566
Benzoic acid	ND		25	1	06/30/09 12:23	S_G	5092566
Benzyl alcohol	ND		5	1	06/30/09 12:23	S_G	5092566
Bis(2-chloroethoxy)methane	ND		5	1	06/30/09 12:23	S_G	5092566
Bis(2-chloroethyl)ether	ND		5	1	06/30/09 12:23	S_G	5092566

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

Client Sample ID: MW-2 **Collected:** 06/23/2009 14:50 **SPL Sample ID:** 09061252-04

Site: Gallup, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
Bis(2-chloroisopropyl)ether	ND		5	1	06/30/09 12:23	S_G	5092566
Bis(2-ethylhexyl)phthalate	ND		5	1	06/30/09 12:23	S_G	5092566
Butyl benzyl phthalate	ND		5	1	06/30/09 12:23	S_G	5092566
Carbazole	ND		5	1	06/30/09 12:23	S_G	5092566
Chrysene	ND		5	1	06/30/09 12:23	S_G	5092566
Dibenz(a,h)anthracene	ND		5	1	06/30/09 12:23	S_G	5092566
Dibenzofuran	ND		5	1	06/30/09 12:23	S_G	5092566
Diethyl phthalate	ND		5	1	06/30/09 12:23	S_G	5092566
Dimethyl phthalate	ND		5	1	06/30/09 12:23	S_G	5092566
Di-n-butyl phthalate	ND		5	1	06/30/09 12:23	S_G	5092566
Di-n-octyl phthalate	ND		5	1	06/30/09 12:23	S_G	5092566
Fluoranthene	ND		5	1	06/30/09 12:23	S_G	5092566
Fluorene	ND		5	1	06/30/09 12:23	S_G	5092566
Hexachlorobenzene	ND		5	1	06/30/09 12:23	S_G	5092566
Hexachlorobutadiene	ND		5	1	06/30/09 12:23	S_G	5092566
Hexachlorocyclopentadiene	ND		5	1	06/30/09 12:23	S_G	5092566
Hexachloroethane	ND		5	1	06/30/09 12:23	S_G	5092566
Indeno(1,2,3-cd)pyrene	ND		5	1	06/30/09 12:23	S_G	5092566
Isophorone	ND		5	1	06/30/09 12:23	S_G	5092566
Naphthalene	ND		5	1	06/30/09 12:23	S_G	5092566
Nitrobenzene	ND		5	1	06/30/09 12:23	S_G	5092566
N-Nitrosodi-n-propylamine	ND		5	1	06/30/09 12:23	S_G	5092566
N-Nitrosodiphenylamine	ND		5	1	06/30/09 12:23	S_G	5092566
Pentachlorophenol	ND		25	1	06/30/09 12:23	S_G	5092566
Phenanthrene	ND		5	1	06/30/09 12:23	S_G	5092566
Phenol	ND		5	1	06/30/09 12:23	S_G	5092566
Pyrene	ND		5	1	06/30/09 12:23	S_G	5092566
Pyridine	ND		5	1	06/30/09 12:23	S_G	5092566
2-Methylphenol	ND		5	1	06/30/09 12:23	S_G	5092566
3 & 4-Methylphenol	ND		5	1	06/30/09 12:23	S_G	5092566
Surr: 2,4,6-Tribromophenol	82.4		% 10-123	1	06/30/09 12:23	S_G	5092566
Surr: 2-Fluorobiphenyl	75.8		% 23-116	1	06/30/09 12:23	S_G	5092566
Surr: 2-Fluorophenol	50.7		% 16-110	1	06/30/09 12:23	S_G	5092566
Surr: Nitrobenzene-d5	68.2		% 21-114	1	06/30/09 12:23	S_G	5092566
Surr: Phenol-d5	38.9		% 10-110	1	06/30/09 12:23	S_G	5092566
Surr: Terphenyl-d14	79.8		% 22-141	1	06/30/09 12:23	S_G	5092566

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3510C	06/26/2009 12:28	N_M	1.00

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

Client Sample ID: MW-2 **Collected:** 06/23/2009 14:50 **SPL Sample ID:** 09061252-04

Site: Gallup, NM

Analyses/Method	Result	QUAL	Rep.Limit		Dil. Factor	Date Analyzed	Analyst	Seq. #
TOTAL COLIFORMS				**MCL**	**M9222 B**	**Units: colonies/100**		
Coliform, Total	7		1		1	06/24/09 14:00	CFS	5084993
TOTAL DISSOLVED SOLIDS				**MCL**	**E160.1**	**Units: mg/L**		
Total Dissolved Solids (Residue,Filterable)	1030		10		1	06/25/09 15:00	BDG	5085796
VOLATILE ORGANICS BY METHOD 8260B				**MCL**	**SW8260B**	**Units: ug/L**		
Benzene	ND		5		1	06/30/09 2:47	JC	5092171
Ethylbenzene	ND		5		1	06/30/09 2:47	JC	5092171
Toluene	ND		5		1	06/30/09 2:47	JC	5092171
m,p-Xylene	ND		5		1	06/30/09 2:47	JC	5092171
o-Xylene	ND		5		1	06/30/09 2:47	JC	5092171
Xylenes,Total	ND		5		1	06/30/09 2:47	JC	5092171
Surr: 1,2-Dichloroethane-d4	89.1		% 78-116		1	06/30/09 2:47	JC	5092171
Surr: 4-Bromofluorobenzene	92.1		% 74-125		1	06/30/09 2:47	JC	5092171
Surr: Toluene-d8	90.5		% 82-118		1	06/30/09 2:47	JC	5092171

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TNTC - Too numerous to count
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HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: TRIP BLANK **Collected:** 06/23/2009 0:00 **SPL Sample ID:** 09061252-05

Site: Gallup, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS BY METHOD 8260B			**MCL**	**SW8260B**	**Units: ug/L**		
Benzene	ND		5	1	06/30/09 3:14	JC	5092172
Ethylbenzene	ND		5	1	06/30/09 3:14	JC	5092172
Toluene	ND		5	1	06/30/09 3:14	JC	5092172
m,p-Xylene	ND		5	1	06/30/09 3:14	JC	5092172
o-Xylene	ND		5	1	06/30/09 3:14	JC	5092172
Xylenes,Total	ND		5	1	06/30/09 3:14	JC	5092172
Surr: 1,2-Dichloroethane-d4	89.9		% 78-116	1	06/30/09 3:14	JC	5092172
Surr: 4-Bromofluorobenzene	95.1		% 74-125	1	06/30/09 3:14	JC	5092172
Surr: Toluene-d8	87.3		% 82-118	1	06/30/09 3:14	JC	5092172

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

Quality Control Documentation

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

Quality Control Report

Conoco Phillips

COP Wingate

Analysis: Metals by Method 6010B, Total
Method: SW6010B
WorkOrder: 09061252
Lab Batch ID: 91534

Method Blank

RunID: ICP2_090704A-5101708 Units: mg/L
Analysis Date: 07/04/2009 14:40 Analyst: EG
Preparation Date: 06/27/2009 13:30 Prep By: AB1 Method SW3010A

Analyte	Result	Rep Limit
Calcium	ND	0.1
Iron	ND	0.02
Magnesium	ND	0.1

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
09061252-01E	WMW-6
09061252-02E	MW-3
09061252-03E	WMW-8
09061252-04E	MW-2

Laboratory Control Sample (LCS)

RunID: ICP2_090704A-5101709 Units: mg/L
Analysis Date: 07/04/2009 14:44 Analyst: EG
Preparation Date: 06/27/2009 13:30 Prep By: AB1 Method SW3010A

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Calcium	1.000	1.031	103.1	80	120
Iron	1.000	1.058	105.8	80	120
Magnesium	1.000	1.034	103.4	80	120

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

Sample Spiked: 09061252-02
RunID: ICP2_090704A-5102070 Units: mg/L
Analysis Date: 07/04/2009 14:53 Analyst: EG
Preparation Date: 06/27/2009 13:30 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
Calcium	29.46	1	29.41	N/C	1	30.20	N/C	N/C	20	75	125
Iron	0.2546	1	1.301	104.6	1	1.329	107.4	2.129	20	75	125
Magnesium	14.46	1	14.85	N/C	1	15.25	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
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

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

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Quality Control Report

Conoco Phillips

COP Wingate

Analysis: Metals by Method 6010B, Total
Method: SW6010B
WorkOrder: 09061252
Lab Batch ID: 91534a

Method Blank

RunID: ICP2_090705A-5101411 Units: mg/L
Analysis Date: 07/05/2009 13:20 Analyst: EG
Preparation Date: 06/27/2009 13:30 Prep By: AB1 Method SW3010A

Analyte	Result	Rep Limit
Sodium	ND	0.1

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
09061252-01E	WMW-6
09061252-02E	MW-3
09061252-03E	WMW-8
09061252-04E	MW-2

Laboratory Control Sample (LCS)

RunID: ICP2_090705A-5101412 Units: mg/L
Analysis Date: 07/05/2009 13:25 Analyst: EG
Preparation Date: 06/27/2009 13:30 Prep By: AB1 Method SW3010A

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Sodium	1.000	1.023	102.3	80	120

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

Sample Spiked: 09061252-02
RunID: ICP2_090705A-5101414 Units: mg/L
Analysis Date: 07/05/2009 13:33 Analyst: EG
Preparation Date: 06/27/2009 13:30 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
Sodium	171.8	1	171.9	N/C	1	176.5	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
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

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

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Quality Control Report

Conoco Phillips

COP Wingate

Analysis: Metals by Method 6020A, Total
Method: SW6020A
WorkOrder: 09061252
Lab Batch ID: 91534A-I

Method Blank

RunID: ICPMS2_090706A-5101286 Units: mg/L
Analysis Date: 07/04/2009 5:54 Analyst: AL_H
Preparation Date: 06/27/2009 13:30 Prep By: AB1 Method SW3010A

Analyte	Result	Rep Limit
Selenium	ND	0.005

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
09061252-01E	WMW-6
09061252-02E	MW-3
09061252-03E	WMW-8
09061252-04E	MW-2

Laboratory Control Sample (LCS)

RunID: ICPMS2_090706A-5101287 Units: mg/L
Analysis Date: 07/04/2009 6:00 Analyst: AL_H
Preparation Date: 06/27/2009 13:30 Prep By: AB1 Method SW3010A

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Selenium	0.1000	0.1033	103.3	80	120

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

Sample Spiked: 09061252-02
RunID: ICPMS2_090706A-5101289 Units: mg/L
Analysis Date: 07/04/2009 6:11 Analyst: AL_H
Preparation Date: 06/27/2009 13:30 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
Selenium	ND	0.1	0.09015	89.46	0.1	0.09449	93.80	4.701	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
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
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable 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.

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Quality Control Report

Conoco Phillips

COP Wingate

Analysis: Metals by Method 6020A, Total
Method: SW6020A
WorkOrder: 09061252
Lab Batch ID: 91534B-I

Method Blank

RunID: ICPMS_090703A-5102020 Units: mg/L
Analysis Date: 07/04/2009 0:46 Analyst: AL_H
Preparation Date: 06/27/2009 13:30 Prep By: AB1 Method SW3010A

Analyte	Result	Rep Limit
Cadmium	ND	0.005

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
09061252-01E	WMW-6
09061252-02E	MW-3
09061252-03E	WMW-8
09061252-04E	MW-2

Laboratory Control Sample (LCS)

RunID: ICPMS_090703A-5102021 Units: mg/L
Analysis Date: 07/04/2009 0:51 Analyst: AL_H
Preparation Date: 06/27/2009 13:30 Prep By: AB1 Method SW3010A

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Cadmium	0.1000	0.1007	100.7	80	120

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

Sample Spiked: 09061252-02
RunID: ICPMS_090703A-5102023 Units: mg/L
Analysis Date: 07/04/2009 1:00 Analyst: AL_H
Preparation Date: 06/27/2009 13:30 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
Cadmium	ND	0.1	0.09934	99.34	0.1	0.09795	97.95	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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Quality Control Report

Conoco Phillips

COP Wingate

Analysis: Metals by Method 6020A, Total
Method: SW6020A
WorkOrder: 09061252
Lab Batch ID: 91534-I

Method Blank

RunID: ICPMS2_090702A-5098284 Units: mg/L
Analysis Date: 07/03/2009 0:09 Analyst: AL_H
Preparation Date: 06/27/2009 13:30 Prep By: AB1 Method SW3010A

Analyte	Result	Rep Limit
Arsenic	ND	0.005
Barium	ND	0.005
Chromium	ND	0.005
Lead	ND	0.005
Manganese	ND	0.005
Silver	ND	0.005

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
09061252-01E	WMW-6
09061252-02E	MW-3
09061252-03E	WMW-8
09061252-04E	MW-2

Laboratory Control Sample (LCS)

RunID: ICPMS2_090702A-5098285 Units: mg/L
Analysis Date: 07/03/2009 0:15 Analyst: AL_H
Preparation Date: 06/27/2009 13:30 Prep By: AB1 Method SW3010A

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Arsenic	0.1000	0.1161	116.1	80	120
Barium	0.1000	0.1144	114.4	80	120
Chromium	0.1000	0.1101	110.1	80	120
Lead	0.1000	0.1047	104.7	80	120
Manganese	0.1000	0.1033	103.3	80	120
Silver	0.1000	0.1087	108.7	80	120

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

Sample Spiked: 09061252-02
RunID: ICPMS2_090702A-5098287 Units: mg/L
Analysis Date: 07/03/2009 0:26 Analyst: AL_H
Preparation Date: 06/27/2009 13:30 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
Arsenic	0.006536	0.1	0.1279	121.4	0.1	0.1255	119.0	1.894	20	75	125
Barium	0.1778	0.1	0.2959	118.1	0.1	0.2902	112.4	1.945	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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Quality Control Report

Conoco Phillips

COP Wingate

Analysis: Metals by Method 6020A, Total **WorkOrder:** 09061252
Method: SW6020A **Lab Batch ID:** 91534-I

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

Sample Spiked: 09061252-02
RunID: ICPMS2_090702A-5098287 Units: mg/L
Analysis Date: 07/03/2009 0:26 Analyst: AL_H
Preparation Date: 06/27/2009 13:30 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
Chromium	ND	0.1	0.1168	116.8	0.1	0.1125	112.5	3.751	20	75	125
Lead	ND	0.1	0.1064	106.4	0.1	0.1072	107.2	0.7491	20	75	125
Manganese	0.7026	0.1	0.8438	N/C	0.1	0.8258	N/C	N/C	20	75	125
Silver	ND	0.1	0.1044	104.4	0.1	0.1055	105.5	1.048	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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Quality Control Report

Conoco Phillips

COP Wingate

Analysis: Mercury, Total
Method: SW7470A

WorkOrder: 09061252
Lab Batch ID: 91688

Method Blank

RunID: HGLC_090702A-5097031 Units: mg/L
Analysis Date: 07/02/2009 14:01 Analyst: F_S
Preparation Date: 07/02/2009 10:15 Prep By: F_S Method SW7470A

Analyte	Result	Rep Limit
Mercury	ND	0.0002

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
09061252-01E	WMW-6
09061252-02E	MW-3
09061252-03E	WMW-8
09061252-04E	MW-2

Laboratory Control Sample (LCS)

RunID: HGLC_090702A-5097032 Units: mg/L
Analysis Date: 07/02/2009 14:04 Analyst: F_S
Preparation Date: 07/02/2009 10:15 Prep By: F_S Method SW7470A

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Mercury	0.002000	0.001976	98.79	80	120

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

Sample Spiked: 09061252-03
RunID: HGLC_090702A-5097034 Units: mg/L
Analysis Date: 07/02/2009 14:10 Analyst: F_S
Preparation Date: 07/02/2009 10:15 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	0.001891	94.54	0.002	0.001916	95.80	1.319	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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Quality Control Report

Conoco Phillips

COP Wingate

Analysis: Semivolatile Organics by Method 8270C
Method: SW8270C
WorkOrder: 09061252
Lab Batch ID: 91487

Method Blank

RunID: J_090629B-5090857 Units: ug/L
Analysis Date: 06/29/2009 11:44 Analyst: S_G
Preparation Date: 06/26/2009 12:28 Prep By: N_M Method SW3510C

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
09061252-01D	WMW-6
09061252-02D	MW-3
09061252-03D	WMW-8
09061252-04D	MW-2

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

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

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

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Quality Control Report

Conoco Phillips

COP Wingate

Analysis: Semivolatile Organics by Method 8270C
Method: SW8270C
WorkOrder: 09061252
Lab Batch ID: 91487

Method Blank

RunID: J_090629B-5090857 Units: ug/L
Analysis Date: 06/29/2009 11:44 Analyst: S_G
Preparation Date: 06/26/2009 12:28 Prep By: N_M Method SW3510C

Analyte	Result	Rep Limit
Diethyl phthalate	ND	5.0
Dimethyl phthalate	ND	5.0
Di-n-butyl phthalate	ND	5.0
Di-n-octyl phthalate	ND	5.0
Fluoranthene	ND	5.0
Fluorene	ND	5.0
Hexachlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Hexachlorocyclopentadiene	ND	5.0
Hexachloroethane	ND	5.0
Indeno(1,2,3-cd)pyrene	ND	5.0
Isophorone	ND	5.0
Naphthalene	ND	5.0
Nitrobenzene	ND	5.0
N-Nitrosodi-n-propylamine	ND	5.0
N-Nitrosodiphenylamine	ND	5.0
Pentachlorophenol	ND	25
Phenanthrene	ND	5.0
Phenol	ND	5.0
Pyrene	ND	5.0
Pyridine	ND	5.0
2-Methylphenol	ND	5.0
3 & 4-Methylphenol	ND	5.0
Surr: 2,4,6-Tribromophenol	75.3	10-123
Surr: 2-Fluorobiphenyl	78.0	23-116
Surr: 2-Fluorophenol	67.9	16-110
Surr: Nitrobenzene-d5	69.2	21-114
Surr: Phenol-d5	69.2	10-110
Surr: Terphenyl-d14	75.0	22-141

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

RunID: J_090629B-5090852 Units: ug/L
Analysis Date: 06/29/2009 10:15 Analyst: S_G
Preparation Date: 06/26/2009 12:28 Prep By: N_M Method SW3510C

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
1,2,4-Trichlorobenzene	25.0	21.3	85.2	25.0	20.6	82.4	3.3	39	21	120
1,2-Dichlorobenzene	25.0	20.2	80.8	25.0	20.4	81.6	1.0	50	20	150

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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Quality Control Report

Conoco Phillips

COP Wingate

Analysis: Semivolatile Organics by Method 8270C **WorkOrder:** 09061252
Method: SW8270C **Lab Batch ID:** 91487

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

RunID: J_090629B-5090852 Units: ug/L
Analysis Date: 06/29/2009 10:15 Analyst: S_G
Preparation Date: 06/26/2009 12:28 Prep By: N_M Method SW3510C

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
1,2-Diphenylhydrazine	25.0	20.9	83.6	25.0	20.7	82.8	1.0	50	10	251
1,3-Dichlorobenzene	25.0	19.7	78.8	25.0	19.5	78.0	1.0	50	20	150
1,4-Dichlorobenzene	25.0	20.0	80.0	25.0	19.7	78.8	1.5	45	20	150
2,4,5-Trichlorophenol	25.0	21.5	86.0	25.0	22.2	88.8	3.2	50	30	150
2,4,6-Trichlorophenol	25.0	21.1	84.4	25.0	21.1	84.4	0.0	50	30	150
2,4-Dichlorophenol	25.0	21.8	87.2	25.0	21.4	85.6	1.9	50	30	150
2,4-Dimethylphenol	25.0	21.0	84.0	25.0	20.9	83.6	0.5	50	32	140
2,4-Dinitrophenol	25.0	23.3	93.2	25.0	22.5	90.0	3.5	50	10	160
2,4-Dinitrotoluene	25.0	23.7	94.8	25.0	24.0	96.0	1.3	50	30	150
2,6-Dinitrotoluene	25.0	22.2	88.8	25.0	22.7	90.8	2.2	50	30	150
2-Chloronaphthalene	25.0	20.7	82.8	25.0	21.2	84.8	2.4	50	30	150
2-Chlorophenol	25.0	20.5	82.0	25.0	20.6	82.4	0.5	40	23	134
2-Methylnaphthalene	25.0	20.8	83.2	25.0	20.4	81.6	1.9	50	20	170
2-Nitroaniline	25.0	20.2	80.8	25.0	20.9	83.6	3.4	50	20	160
2-Nitrophenol	25.0	20.5	82.0	25.0	20.9	83.6	1.9	50	29	182
3,3'-Dichlorobenzidine	25.0	19.2	76.8	25.0	19.4	77.6	1.0	50	30	200
3-Nitroaniline	25.0	20.0	80.0	25.0	20.6	82.4	3.0	50	20	160
4,6-Dinitro-2-methylphenol	25.0	20.6	82.4	25.0	20.4	81.6	1.0	50	10	160
4-Bromophenyl phenyl ether	25.0	21.5	86.0	25.0	21.3	85.2	0.9	50	30	150
4-Chloro-3-methylphenol	25.0	20.6	82.4	25.0	20.6	82.4	0.0	42	25	160
4-Chloroaniline	25.0	21.4	85.6	25.0	21.1	84.4	1.4	50	20	160
4-Chlorophenyl phenyl ether	25.0	21.8	87.2	25.0	21.2	84.8	2.8	50	25	158
4-Nitroaniline	25.0	22.1	88.4	25.0	23.2	92.8	4.9	50	20	160
4-Nitrophenol	25.0	19.6	78.4	25.0	20.6	82.4	5.0	50	10	132
Acenaphthene	25.0	21.0	84.0	25.0	21.7	86.8	3.3	31	30	150
Acenaphthylene	25.0	21.9	87.6	25.0	22.3	89.2	1.8	50	33	250
Aniline	50.0	37.8	75.6	50.0	38.4	76.8	1.6	50	10	135
Anthracene	25.0	21.7	86.8	25.0	22.2	88.8	2.3	50	27	133
Benz(a)anthracene	25.0	22.6	90.4	25.0	22.5	90.0	0.4	50	33	143
Benzo(a)pyrene	25.0	20.8	83.2	25.0	21.0	84.0	1.0	50	17	163
Benzo(b)fluoranthene	25.0	22.1	88.4	25.0	22.1	88.4	0.0	50	24	159
Benzo(g,h,i)perylene	25.0	22.5	90.0	25.0	22.5	90.0	0.0	50	30	160
Benzo(k)fluoranthene	25.0	23.0	92.0	25.0	23.1	92.4	0.4	50	11	162

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HOUSTON LABORATORY
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HOUSTON, TX 77054
(713) 660-0901

Quality Control Report

Conoco Phillips

COP Wingate

Analysis: Semivolatile Organics by Method 8270C
Method: SW8270C
WorkOrder: 09061252
Lab Batch ID: 91487

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

RunID: J_090629B-5090852 Units: ug/L
Analysis Date: 06/29/2009 10:15 Analyst: S_G
Preparation Date: 06/26/2009 12:28 Prep By: N_M Method SW3510C

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Benzoic acid	25.0	4.22	16.9	25.0	4.70	18.8	10.8	50	10	400
Benzyl alcohol	25.0	19.9	79.6	25.0	20.4	81.6	2.5	50	30	160
Bis(2-chloroethoxy)methane	25.0	20.4	81.6	25.0	20.0	80.0	2.0	50	33	184
Bis(2-chloroethyl)ether	25.0	20.3	81.2	25.0	20.2	80.8	0.5	50	12	158
Bis(2-chloroisopropyl)ether	25.0	19.7	78.8	25.0	19.2	76.8	2.6	50	20	160
Bis(2-ethylhexyl)phthalate	25.0	22.8	91.2	25.0	20.7	82.8	9.7	50	10	158
Butyl benzyl phthalate	25.0	23.5	94.0	25.0	22.2	88.8	5.7	50	30	160
Carbazole	25.0	21.5	86.0	25.0	22.3	89.2	3.7	50	30	150
Chrysene	25.0	22.0	88.0	25.0	21.8	87.2	0.9	50	17	168
Dibenz(a,h)anthracene	25.0	22.5	90.0	25.0	22.9	91.6	1.8	50	30	160
Dibenzofuran	25.0	21.6	86.4	25.0	22.1	88.4	2.3	50	30	150
Diethyl phthalate	25.0	22.3	89.2	25.0	21.7	86.8	2.7	50	30	160
Dimethyl phthalate	25.0	22.0	88.0	25.0	21.8	87.2	0.9	50	30	160
Di-n-butyl phthalate	25.0	23.4	93.6	25.0	21.9	87.6	6.6	50	30	160
Di-n-octyl phthalate	25.0	22.9	91.6	25.0	21.1	84.4	8.2	50	20	150
Fluoranthene	25.0	22.9	91.6	25.0	23.2	92.8	1.3	50	26	137
Fluorene	25.0	21.7	86.8	25.0	21.8	87.2	0.5	50	30	150
Hexachlorobenzene	25.0	20.8	83.2	25.0	20.8	83.2	0.0	50	20	150
Hexachlorobutadiene	25.0	20.4	81.6	25.0	19.9	79.6	2.5	50	20	140
Hexachlorocyclopentadiene	25.0	19.9	79.6	25.0	19.3	77.2	3.1	50	10	150
Hexachloroethane	25.0	19.6	78.4	25.0	19.5	78.0	0.5	50	14	120
Indeno(1,2,3-cd)pyrene	25.0	24.7	98.8	25.0	25.0	100	1.2	50	30	160
Isophorone	25.0	22.8	91.2	25.0	22.4	89.6	1.8	50	21	196
Naphthalene	25.0	21.2	84.8	25.0	21.0	84.0	0.9	50	21	133
Nitrobenzene	25.0	20.1	80.4	25.0	19.8	79.2	1.5	50	20	160
N-Nitrosodi-n-propylamine	25.0	20.8	83.2	25.0	20.5	82.0	1.5	38	30	160
N-Nitrosodiphenylamine	50.0	50.6	101	50.0	50.9	102	0.6	50	30	150
Pentachlorophenol	25.0	20.5	82.0	25.0	20.2	80.8	1.5	50	14	176
Phenanthrene	25.0	21.8	87.2	25.0	21.8	87.2	0.0	50	10	140
Phenol	25.0	21.5	86.0	25.0	21.9	87.6	1.8	42	40	132
Pyrene	25.0	21.5	86.0	25.0	21.3	85.2	0.9	38	30	150
Pyridine	50.0	32.9	65.8	50.0	33.3	66.6	1.2	50	10	150
2-Methylphenol	25.0	20.8	83.2	25.0	20.9	83.6	0.5	50	30	160

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Quality Control Report

Conoco Phillips

COP Wingate

Analysis: Semivolatile Organics by Method 8270C **WorkOrder:** 09061252
Method: SW8270C **Lab Batch ID:** 91487

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

RunID: J_090629B-5090852 Units: ug/L
Analysis Date: 06/29/2009 10:15 Analyst: S_G
Preparation Date: 06/26/2009 12:28 Prep By: N_M Method SW3510C

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
3 & 4-Methylphenol	25.0	21.2	84.8	25.0	21.7	86.8	2.3	50	10	160
Surr: 2,4,6-Tribromophenol	75.0	67.8	90.4	75.0	68.9	91.9	1.6	30	10	123
Surr: 2-Fluorobiphenyl	50.0	41.1	82.2	50.0	42.2	84.4	2.6	30	23	116
Surr: 2-Fluorophenol	75.0	59.1	78.8	75.0	59.3	79.1	0.3	30	16	110
Surr: Nitrobenzene-d5	50.0	38.9	77.8	50.0	39.3	78.6	1.0	30	21	114
Surr: Phenol-d5	75.0	60.7	80.9	75.0	61.8	82.4	1.8	30	10	110
Surr: Terphenyl-d14	50.0	42.5	85.0	50.0	41.2	82.4	3.1	30	22	141

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Quality Control Report

Conoco Phillips

COP Wingate

Analysis: Volatile Organics by Method 8260B
Method: SW8260B
WorkOrder: 09061252
Lab Batch ID: R276914

Method Blank

RunID: Q_090629A-5092157 Units: ug/L
Analysis Date: 06/29/2009 18:41 Analyst: JC

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	91.5	78-116
Surr: 4-Bromofluorobenzene	95.9	74-125
Surr: Toluene-d8	94.7	82-118

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
09061252-02A	MW-3
09061252-03A	WMW-8
09061252-04A	MW-2
09061252-05A	TRIP BLANK

Laboratory Control Sample (LCS)

RunID: Q_090629A-5092156 Units: ug/L
Analysis Date: 06/29/2009 18:13 Analyst: JC

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Benzene	20.0	19.1	95.5	74	123
Ethylbenzene	20.0	22.0	110	72	127
Toluene	20.0	19.7	98.7	74	126
m,p-Xylene	40.0	45.7	114	71	129
o-Xylene	20.0	22.7	113	74	130
Xylenes,Total	60.0	68.4	114	71	130
Surr: 1,2-Dichloroethane-d4	50.0	45.1	90.2	78	116
Surr: 4-Bromofluorobenzene	50.0	51.4	103	74	125
Surr: Toluene-d8	50.0	49	98.0	82	118

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

Sample Spiked: 09061336-01
RunID: Q_090629A-5092159 Units: ug/L
Analysis Date: 06/29/2009 19:35 Analyst: JC

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
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Quality Control Report

Conoco Phillips

COP Wingate

Analysis: Volatile Organics by Method 8260B **WorkOrder:** 09061252
Method: SW8260B **Lab Batch ID:** R276914

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	1000	830	83.0	1000	843	84.3	1.51	22	70	124
Ethylbenzene	ND	1000	949	94.9	1000	964	96.4	1.54	20	76	122
Toluene	ND	1000	857	85.7	1000	881	88.1	2.68	24	80	117
m,p-Xylene	ND	2000	2000	100	2000	1980	99.0	1.09	20	69	127
o-Xylene	ND	1000	1010	101	1000	1030	103	1.33	20	84	114
Xylenes,Total	ND	3000	3010	100	3000	3010	100	0.273	20	69	127
Surr: 1,2-Dichloroethane-d4	ND	2500	2110	84.6	2500	2270	90.8	7.12	30	78	116
Surr: 4-Bromofluorobenzene	ND	2500	2530	101	2500	2560	103	1.30	30	74	125
Surr: Toluene-d8	ND	2500	2360	94.4	2500	2350	94.1	0.232	30	82	118

Qualifiers:

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Quality Control Report

Conoco Phillips

COP Wingate

Analysis: Volatile Organics by Method 8260B
Method: SW8260B
WorkOrder: 09061252
Lab Batch ID: R277121

Method Blank

RunID: Q_090701A-5094845 Units: ug/L
Analysis Date: 07/01/2009 4:48 Analyst: JC

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
09061252-01A	WMW-6

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	89.5	78-116
Surr: 4-Bromofluorobenzene	95.0	74-125
Surr: Toluene-d8	90.7	82-118

Laboratory Control Sample (LCS)

RunID: Q_090701A-5094842 Units: ug/L
Analysis Date: 07/01/2009 4:21 Analyst: JC

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Benzene	20.0	20.7	104	74	123
Ethylbenzene	20.0	21.6	108	72	127
Toluene	20.0	19.3	96.7	74	126
m,p-Xylene	40.0	45.3	113	71	129
o-Xylene	20.0	23.8	119	74	130
Xylenes,Total	60.0	69.1	115	71	130
Surr: 1,2-Dichloroethane-d4	50.0	45.1	90.3	78	116
Surr: 4-Bromofluorobenzene	50.0	49.7	99.4	74	125
Surr: Toluene-d8	50.0	44.7	89.5	82	118

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

Sample Spiked: 09061467-01
RunID: Q_090701A-5094855 Units: ug/L
Analysis Date: 07/01/2009 10:12 Analyst: JC

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
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Quality Control Report

Conoco Phillips

COP Wingate

Analysis: Volatile Organics by Method 8260B **WorkOrder:** 09061252
Method: SW8260B **Lab Batch ID:** R277121

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	21.0	105	20	20.3	102	2.98	22	70	124
Ethylbenzene	ND	20	22.1	110	20	21.2	106	4.03	20	76	122
Toluene	ND	20	19.9	99.4	20	19.1	95.4	4.02	24	80	117
m,p-Xylene	ND	40	44.8	112	40	43.3	108	3.57	20	69	127
o-Xylene	ND	20	22.6	113	20	22.5	112	0.700	20	84	114
Xylenes,Total	ND	60	67.4	112	60	65.8	110	2.60	20	69	127
Surr: 1,2-Dichloroethane-d4	ND	50	42.8	85.7	50	42.6	85.2	0.564	30	78	116
Surr: 4-Bromofluorobenzene	ND	50	48.1	96.2	50	49.3	98.6	2.45	30	74	125
Surr: Toluene-d8	ND	50	45.7	91.3	50	45.2	90.4	0.957	30	82	118

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Quality Control Report

Conoco Phillips

COP Wingate

Analysis: pH
Method: SM4500-H B

WorkOrder: 09061252
Lab Batch ID: R276359

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
09061252-01C	WMW-6
09061252-02C	MW-3
09061252-03C	WMW-8
09061252-04C	MW-2

Laboratory Control Sample (LCS)

RunID: WET_090624E-5082642 Units: pH Units
Analysis Date: 06/24/2009 12:40 Analyst: S_H

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
pH	7.000	7.040	100.6	98	102

Sample Duplicate

Original Sample: 09061246-01
RunID: WET_090624E-5082643 Units: pH Units
Analysis Date: 06/24/2009 12:40 Analyst: S_H

Analyte	Sample Result	DUP Result	RPD	RPD Limit
pH	7.98	7.97	0.125	5
Temperature (oC)	23	23	0	5

Qualifiers:

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E - Estimated Value exceeds calibration curve
MI - Matrix Interference
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Quality Control Report

Conoco Phillips

COP Wingate

Analysis: Ion Chromatography
Method: E300.0

WorkOrder: 09061252
Lab Batch ID: R276459

Method Blank

RunID: IC2_090624A-5084064 Units: mg/L
Analysis Date: 06/24/2009 14:37 Analyst: BDG

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

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
09061252-01C	WMW-6
09061252-02C	MW-3
09061252-03C	WMW-8

Laboratory Control Sample (LCS)

RunID: IC2_090624A-5084065 Units: mg/L
Analysis Date: 06/24/2009 14:56 Analyst: BDG

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Nitrogen,Nitrate (As N)	10.00	9.832	98.32	90	110

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

Sample Spiked: 09061259-01
RunID: IC2_090624A-5084080 Units: mg/L
Analysis Date: 06/24/2009 20:30 Analyst: BDG

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Nitrogen,Nitrate (As N)	ND	10	8.947	84.75	10	7.430	69.58 *	18.53	20	80	120

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Quality Control Report

Conoco Phillips

COP Wingate

Analysis: Chemical Oxygen Demand
Method: SM5220 C
WorkOrder: 09061252
Lab Batch ID: R276490

Method Blank

RunID: WET_090625H-5084707 Units: mg/L
Analysis Date: 06/25/2009 12:00 Analyst: PAC

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
09061252-02G	MW-3
09061252-04G	MW-2

Analyte	Result	Rep Limit
Chemical Oxygen Demand	ND	3.0

Laboratory Control Sample (LCS)

RunID: WET_090625H-5084712 Units: mg/L
Analysis Date: 06/25/2009 12:00 Analyst: PAC

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Chemical Oxygen Demand	104.0	100.0	96.15	85	115

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

Sample Spiked: 09061330-01
RunID: WET_090625H-5084717 Units: mg/L
Analysis Date: 06/25/2009 12:00 Analyst: PAC

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Chemical Oxygen Demand	40.00	50	85.00	90.00	50	85.00	90.00	0	10	80	120

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.

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

Quality Control Report

Conoco Phillips

COP Wingate

Analysis: Total Coliforms
Method: M9222 B

WorkOrder: 09061252
Lab Batch ID: R276507

Method Blank

RunID: WET_090624ZG-5084990 Units: colonies/100mL
Analysis Date: 06/24/2009 14:00 Analyst: CFS

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
09061252-02H	MW-3
09061252-04H	MW-2

Analyte	Result	Rep Limit
Coliform, Total	ND	1.0

Sample Duplicate

Original Sample: 09061252-02
RunID: WET_090624ZG-5084991 Units: colonies/100mL
Analysis Date: 06/24/2009 14:00 Analyst: CFS

Analyte	Sample Result	DUP Result	RPD	RPD Limit
Coliform, Total	ND	1	200 *	48

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.

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

Quality Control Report

Conoco Phillips

COP Wingate

Analysis: Total Dissolved Solids
Method: E160.1

WorkOrder: 09061252
Lab Batch ID: R276566

Method Blank

RunID: WET_090625ZA-5085789 Units: mg/L
Analysis Date: 06/25/2009 15:00 Analyst: BDG

Analyte	Result	Rep Limit
Total Dissolved Solids (Residue,Filterable)	ND	10

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
09061252-01B	WMW-6
09061252-02B	MW-3
09061252-03B	WMW-8
09061252-04B	MW-2

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

RunID: WET_090625ZA-5085791 Units: mg/L
Analysis Date: 06/25/2009 15:00 Analyst: BDG

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Total Dissolved Solids (Residue,Filterabl	200.0	202.0	101.0	200.0	199.0	99.50	1.5	10	95	107

Sample Duplicate

Original Sample: 09061252-04
RunID: WET_090625ZA-5085796 Units: mg/L
Analysis Date: 06/25/2009 15:00 Analyst: BDG

Analyte	Sample Result	DUP Result	RPD	RPD Limit
Total Dissolved Solids (Residue,Filterabl	1030	1033	0.583	10

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.

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

Quality Control Report

Conoco Phillips

COP Wingate

Analysis: Ion Chromatography
Method: E300.0
WorkOrder: 09061252
Lab Batch ID: R276737

Method Blank

RunID: IC1_090627A-5088433 Units: mg/L
Analysis Date: 06/27/2009 12:01 Analyst: BDG

Analyte	Result	Rep Limit
Chloride	ND	0.50
Sulfate	ND	0.50

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
09061252-01C	WMW-6
09061252-02C	MW-3
09061252-03C	WMW-8
09061252-04C	MW-2

Laboratory Control Sample (LCS)

RunID: IC1_090627A-5088434 Units: mg/L
Analysis Date: 06/27/2009 12:17 Analyst: BDG

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Chloride	10.00	9.125	91.25	85	115
Sulfate	10.00	10.44	104.4	85	115

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

Sample Spiked: 09061415-14
RunID: IC1_090627A-5088463 Units: mg/L
Analysis Date: 06/27/2009 20:37 Analyst: BDG

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Chloride	25.40	500	470.0	88.92	500	471.1	89.15	0.2376	20	80	120
Sulfate	105.1	500	615.7	102.1	500	616.0	102.2	0.05018	20	80	120

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.

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

Quality Control Report

Conoco Phillips

COP Wingate

Analysis: Ion Chromatography **WorkOrder:** 09061252
Method: E300.0 **Lab Batch ID:** R276740A

Method Blank

RunID: IC2_090625A-5088555 Units: mg/L
Analysis Date: 06/25/2009 12:11 Analyst: BDG

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
09061252-04C	MW-2

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

Laboratory Control Sample (LCS)

RunID: IC2_090625A-5088556 Units: mg/L
Analysis Date: 06/25/2009 12:31 Analyst: BDG

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Nitrogen,Nitrate (As N)	10.00	10.09	100.9	90	110

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

Sample Spiked: 09061263-01
RunID: IC2_090625A-5088585 Units: mg/L
Analysis Date: 06/26/2009 0:05 Analyst: BDG

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Nitrogen,Nitrate (As N)	ND	10	7.532	75.32 *	10	7.309	73.09 *	3.005	20	80	120

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.

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

Quality Control Report

Conoco Phillips

COP Wingate

Analysis: Biochemical Oxygen Demand - 5 Days
Method: SM5210 B
WorkOrder: 09061252
Lab Batch ID: R276797

Method Blank

RunID: WET_090624ZO-5089589 Units: mg/L
Analysis Date: 06/24/2009 10:30 Analyst: S_H

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
09061252-02F	MW-3
09061252-04F	MW-2

Analyte	Result	Rep Limit
Biochemical Oxygen Demand	ND	2.0

Laboratory Control Sample (LCS)

RunID: WET_090624ZO-5089591 Units: mg/L
Analysis Date: 06/24/2009 10:30 Analyst: S_H

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Biochemical Oxygen Demand	198.0	198.4	100.2	83.7	114

Sample Duplicate

Original Sample: 09061234-03
RunID: WET_090624ZO-5089592 Units: mg/L
Analysis Date: 06/24/2009 10:30 Analyst: S_H

Analyte	Sample Result	DUP Result	RPD	RPD Limit
Biochemical Oxygen Demand	39	39.75	1.90	20

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.

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

Quality Control Report

Conoco Phillips

COP Wingate

Analysis: Alkalinity (as CaCO3), Total
Method: E310.1
WorkOrder: 09061252
Lab Batch ID: R277103

Method Blank

RunID: WET_090630N-5094587 Units: mg/L
Analysis Date: 06/30/2009 18:00 Analyst: PAC

Analyte	Result	Rep Limit
Alkalinity, Total (As CaCO3)	ND	2.0

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
09061252-01B	WMW-6
09061252-02B	MW-3
09061252-03B	WMW-8
09061252-04B	MW-2

Laboratory Control Sample (LCS)

RunID: WET_090630N-5094589 Units: mg/L
Analysis Date: 06/30/2009 18:00 Analyst: PAC

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Alkalinity, Total (As CaCO3)	38.70	38.00	98.19	90	110

Sample Duplicate

Original Sample: 09061339-05
RunID: WET_090630N-5094594 Units: mg/L
Analysis Date: 06/30/2009 18:00 Analyst: PAC

Analyte	Sample Result	DUP Result	RPD	RPD Limit
Alkalinity, Total (As CaCO3)	435	435	0	20

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.

Sample Receipt Checklist

And

Chain of Custody

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

Sample Receipt Checklist

Workorder:	**09061252**	Received By:	**RE**
Date and Time Received:	**6/24/2009 10:00:00 AM**	Carrier name:	**Fedex-Standard Overnight**
Temperature:	**3.5°C**	Chilled by:	**Water Ice**

1.	**Shipping container/cooler in good condition?**	Yes ☑	No ☐	Not Present ☐
2.	**Custody seals intact on shippping container/cooler?**	Yes ☑	No ☐	Not Present ☐
3.	**Custody seals intact on sample bottles?**	Yes ☐	No ☐	Not Present ☑
4.	**Chain of custody present?**	Yes ☑	No ☐	
5.	**Chain of custody signed when relinquished and received?**	Yes ☑	No ☐	
6.	**Chain of custody agrees with sample labels?**	Yes ☑	No ☐	
7.	**Samples in proper container/bottle?**	Yes ☑	No ☐	
8.	**Sample containers intact?**	Yes ☑	No ☐	
9.	**Sufficient sample volume for indicated test?**	Yes ☑	No ☐	
10.	**All samples received within holding time?** 1.Received 2-sets of coliforms (MW-2 and MW-3)expired collected 6/23/09	Yes ☐	No ☑	
11.	**Container/Temp Blank temperature in compliance?** 867026830566-2.0,867026830555-2.0	Yes ☑	No ☐	
12.	**Water - VOA vials have zero headspace?**	Yes ☑	No ☐	VOA Vials Not Present ☐
13.	**Water - Preservation checked upon receipt (except VOA*)?**	Yes ☑	No ☐	Not Applicable ☐

***VOA Preservation Checked After Sample Analysis**

SPL Representative: _____ **Contact Date & Time:** _____

Client Name Contacted: _____

Non Conformance Issues: 1.Continue with analysis until client can be notified.

Client Instructions:

Chain of Custody Record

Client: Tetra Tech/ Conoco Phillips | **SPL Workorder Number:** 0906252

Attention: Kelly Blanchard/Tetra Tech

Phone: 505-237-8440 | email: kelly.blanchard@tetratech.c

Address: 6121 Indian School Road, NE Ste. 200

City: Albuquerque | State: NM | Zip Code: 87110

Project Name: Wingate Fractionating Plant

P.O. Number:

Sampled By: Kelly E Blanchard (signature) / Kelly E. Blanchard (print)

Sample ID	Collected Date	Collected Time	Sample Type Comp	Sample Type Grab	Matrix Water	Matrix Soil	Bottle Type	Preservative Type	# of Containers	Requested Analysis: B260-Voc TCL	B260-BTEX ONLY	B270-SVOC TCL	TDS, pH, Alk.	Chl, SO4, Nitrate	Coliform	COD	BOD	12 Metals-6020/4010 < 21
WMW-6	6-23-09	910		X	X		1	3	3	X								
WMW-6	6-23-09	910		X	X		3	1	2				X	X				
WMW-6	6-23-09	910		X	X		4	1	2			X						
WMW-6	6-23-09	910		X	X		3	2	1									X
MW-3	6-23-09	1035		X	X		1	3	3	X								
MW-3	6-23	1035		X	X		3	1	2				X	X				
MW-3	6-23	1035		X	X		4	1	2			X						
MW-3	6-23	1035		X	X		3	2	1									X
WMW-8	6-23	1145		X	X		1	3	3	X								
WMW-8	6-23	1145		X	X		3	1	2				X	X				

Turnaround Time Requirements:
24 hr( ) 48 hr( )
72 hr( ) 5 wday( )
10 wday - Standard(X)

Remarks:

Intact? Y or N

Temperature: 3.5c

Bottle Types: 1: 3/40ml Vials 2. 1L Glass 3. 1L Plastic 4. 1L Amber Glass 5. Box Plastic

Preservative Types: 1: NONE 2. HNO3 3. HCL 4. H2SO4

Relinquished by Sampler:	Date	Time	Received by:
Kelly E Blanchard	6-23-09	1600	
Relinquished by:	Date	Time	Received by:
Relinquished by:	Date	Time	Received by SPL, Inc
	6/24/09	1000	

0906125 2

Chain of Custody Record

~~0906~~ RUSH

Client: Tetra Tech/ Conoco Phillips

SPL Workorder Number:

Attention: Kelly Blandchard/Tetra Tech

Phone: 505-237-8440 | email: kelly.blandchard@tetratech.c

Address: 6121 Indian School Road, NE Ste. 200

City: Albuquerque | State: NM | Zip Code: 87110

Project Name: Wingate Fractionating Plant

P.O. Number:

Sampled By: Signature: Kelly E Blandchard | print: Kelly E. Blandchard

Sample ID	Collected Date	Collected Time	Sample Type Comp	Sample Type Grab	Matrix Water	Matrix Soil	Bottle Type	Preservative Type	# of Containers	Requested Analysis: 8260-Voc TCL	8260-BTEX ONLY	8270-SVOC TCL	TDS, pH, Alk.	Chl, SO4, Nitrate	Coliform	COD	BOD	12 Metals-6020/6010
WMW-8	6-23	1145		X	X		4	1	2			X						
WMW-8	6-23	1145		X	X		3	2	1									X
MW-2	6-23	1450		X	X		1	3	3	X								
MW-2	6-23	1450		X	X		3	1	2				X	X				
MW-2	6-23	1450		X	X		4	1	2			X						
MW-2	6-23	1450		X	X		3	2	1									X
MW-2	6-23	1450		X	X		5,6	None 4	2							X	X	
MW-2	6-23	1450		X	X		1	2	2						X			
MW-3	6-23	1035		X	X		5,6	None 4	2							X	X	
MW-3	6-23	1035		X	X		1	2	2						X			

Turnaround Time Requirements
24 hr( ) 48 hr( )
72 hr( ) 5 wday( )
10 wday - Standard(X)

Remarks: Please Run trip blank for BTEX only

Intact? Y or N

Temperature: 3.7

Bottle Types: 1: 3/40ml Vials 2. 1L Glass 3. 1L Plastic 4. 1L Amber Glass 5. 8oz Plastic

Preservative Types: 1: NONE 2. HNO3 3. HCL 4. H2SO4 6. 16 oz Plastic

Relinquished by Sampler	Date	Time	Received by:
Kelly E Blandchard	6-23-09	1600	
Relinquished by:	Date	Time	Received by:
Relinquished by:	Date	Time	Received by SPL:
	6/24/09	1000	

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

Conoco Phillips

Certificate of Analysis Number:

09061178

Report To:		Project Name:	COP Wingate
Tetra Tech, Inc.		Site:	Gallup, NM
Kelly Blanchard		Site Address:	
6121 Indian School Road, N.E.			
Suite 200		PO Number:	4511799321
Albuquerque		State:	New Mexico
NM		State Cert. No.:	
87110-		Date Reported:	7/9/2009
ph: (505) 237-8440	fax:		

This Report Contains A Total Of 38 Pages

Excluding This Page, Chain Of Custody

And

Any Attachments

7/10/2009

Date

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

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

Case Narrative for:

Conoco Phillips

Certificate of Analysis Number:

09061178

Report To:		Project Name:	COP Wingate
Tetra Tech, Inc.		Site:	Gallup, NM
Kelly Blanchard		Site Address:	
6121 Indian School Road, N.E.			
Suite 200		PO Number:	4511799321
Albuquerque		State:	New Mexico
NM		State Cert. No.:	
87110-		Date Reported:	7/9/2009
ph: (505) 237-8440	fax:		

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: ANALYSIS 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.

Due to limited sample volume, a Matrix Spike (MS) or Matrix Spike Duplicate (MSD) was not extracted with Batch ID: 91487 for the Semivolatile Organics analysis by SW846 Method 8270C. A Laboratory Control Sample (LCS) and a Laboratory Control Sample Duplicate (LCSD) were extracted with the analytical batch and serve as the batch quality control (QC). The LCS and LCSD recovered acceptably and precision criteria were met.

III. GENERAL REPORTING COMMENTS:

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

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.

Erica Cardenas

7/10/2009

Erica Cardenas
Project Manager

Date

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

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

Conoco Phillips

Certificate of Analysis Number:

09061178

Report To: Tetra Tech, Inc.
Kelly Blanchard
6121 Indian School Road, N.E.
Suite 200
Albuquerque
NM
87110-
ph: (505) 237-8440 fax: (505) 881-3283

Fax To:

Project Name: COP Wingate
Site: Gallup, NM
Site Address:

PO Number: 4511799321
State: New Mexico
State Cert. No.:
Date Reported: 7/9/2009

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
WMW-1	09061178-01	Water	6/22/2009 10:30:00 AM	6/23/2009 9:30:00 AM		☐
WMW-5	09061178-02	Water	6/22/2009 11:30:00 AM	6/23/2009 9:30:00 AM		☐
WMW-4	09061178-03	Water	6/22/2009 1:05:00 PM	6/23/2009 9:30:00 AM		☐
WMW-7	09061178-04	Water	6/22/2009 2:25:00 PM	6/23/2009 9:30:00 AM		☐

Erica Cardenas
Project Manager

7/10/2009
Date

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

Ted Yen
Quality Assurance Officer

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

Client Sample ID: WMW-1 **Collected:** 06/22/2009 10:30 **SPL Sample ID:** 09061178-01

Site: Gallup, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
ALKALINITY (AS CACO3), TOTAL				**MCL**	**E310.1**	**Units: mg/L**	
Alkalinity, Total (As CaCO3)	845		2	1	06/24/09 17:00	PAC	5083343
ION CHROMATOGRAPHY				**MCL**	**E300.0**	**Units: mg/L**	
Chloride	501		250	500	06/26/09 23:15	BDG	5087241
Sulfate	2150		250	500	06/26/09 23:15	BDG	5087241
MERCURY, TOTAL				**MCL**	**SW7470A**	**Units: mg/L**	
Mercury	ND		0.0002	1	06/30/09 15:56	F_S	5093358

Prep Method	Prep Date	Prep Initials	Prep Factor
SW7470A	06/30/2009 10:30	F_S	1.00

METALS BY METHOD 6010B, TOTAL				**MCL**	**SW6010B**	**Units: mg/L**	
Calcium	222		0.1	1	07/02/09 13:15	EG	5097224
Iron	0.192		0.02	1	07/02/09 13:15	EG	5097224
Magnesium	60.9		0.1	1	07/02/09 13:15	EG	5097224
Sodium	1330		1	10	07/02/09 14:20	EG	5097232

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	06/26/2009 12:00	AB1	1.00

METALS BY METHOD 6020A, TOTAL				**MCL**	**SW6020A**	**Units: mg/L**	
Arsenic	ND		0.025	5	07/02/09 13:48	S_C	5097459
Barium	ND		0.025	5	07/02/09 13:48	S_C	5097459
Cadmium	ND		0.025	5	07/02/09 13:48	S_C	5097459
Chromium	ND		0.025	5	07/02/09 13:48	S_C	5097459
Lead	ND		0.025	5	07/02/09 13:48	S_C	5097459
Manganese	3.94		0.025	5	07/02/09 13:48	S_C	5097459
Selenium	ND		0.025	5	07/02/09 13:48	S_C	5097459
Silver	ND		0.025	5	07/02/09 13:48	S_C	5097459

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	06/26/2009 12:00	AB1	1.00

NITRATE NITROGEN (AS N), TOTAL				**MCL**	**SM4500-NO3 F**	**Units: mg/L**	
Nitrogen, Nitrate (As N)	ND		0.5	1	06/23/09 18:30	ESK	5082313
PH				**MCL**	**SM4500-H B**	**Units: pH Units**	
pH	7.05		0.1	1	06/23/09 14:00	S_H	5081450
Temperature (oC)	24.7		0.1	1	06/23/09 14:00	S_H	5081450

Qualifiers:

ND/U - Not Detected at the Reporting Limit
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J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

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

Client Sample ID: WMW-1 **Collected:** 06/22/2009 10:30 **SPL Sample ID:** 09061178-01

Site: Gallup, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
SEMIVOLATILE ORGANICS BY METHOD 8270C			**MCL**	**SW8270C**	**Units: ug/L**		
1,2,4-Trichlorobenzene	ND		5	1	06/29/09 13:05	S_G	5090862
1,2-Dichlorobenzene	ND		5	1	06/29/09 13:05	S_G	5090862
1,2-Diphenylhydrazine	ND		10	1	06/29/09 13:05	S_G	5090862
1,3-Dichlorobenzene	ND		5	1	06/29/09 13:05	S_G	5090862
1,4-Dichlorobenzene	ND		5	1	06/29/09 13:05	S_G	5090862
2,4,5-Trichlorophenol	ND		10	1	06/29/09 13:05	S_G	5090862
2,4,6-Trichlorophenol	ND		5	1	06/29/09 13:05	S_G	5090862
2,4-Dichlorophenol	ND		5	1	06/29/09 13:05	S_G	5090862
2,4-Dimethylphenol	ND		5	1	06/29/09 13:05	S_G	5090862
2,4-Dinitrophenol	ND		25	1	06/29/09 13:05	S_G	5090862
2,4-Dinitrotoluene	ND		5	1	06/29/09 13:05	S_G	5090862
2,6-Dinitrotoluene	ND		5	1	06/29/09 13:05	S_G	5090862
2-Chloronaphthalene	ND		5	1	06/29/09 13:05	S_G	5090862
2-Chlorophenol	ND		5	1	06/29/09 13:05	S_G	5090862
2-Methylnaphthalene	ND		5	1	06/29/09 13:05	S_G	5090862
2-Nitroaniline	ND		25	1	06/29/09 13:05	S_G	5090862
2-Nitrophenol	ND		5	1	06/29/09 13:05	S_G	5090862
3,3'-Dichlorobenzidine	ND		10	1	06/29/09 13:05	S_G	5090862
3-Nitroaniline	ND		25	1	06/29/09 13:05	S_G	5090862
4,6-Dinitro-2-methylphenol	ND		25	1	06/29/09 13:05	S_G	5090862
4-Bromophenyl phenyl ether	ND		5	1	06/29/09 13:05	S_G	5090862
4-Chloro-3-methylphenol	ND		5	1	06/29/09 13:05	S_G	5090862
4-Chloroaniline	ND		5	1	06/29/09 13:05	S_G	5090862
4-Chlorophenyl phenyl ether	ND		5	1	06/29/09 13:05	S_G	5090862
4-Nitroaniline	ND		25	1	06/29/09 13:05	S_G	5090862
4-Nitrophenol	ND		25	1	06/29/09 13:05	S_G	5090862
Acenaphthene	ND		5	1	06/29/09 13:05	S_G	5090862
Acenaphthylene	ND		5	1	06/29/09 13:05	S_G	5090862
Aniline	ND		5	1	06/29/09 13:05	S_G	5090862
Anthracene	ND		5	1	06/29/09 13:05	S_G	5090862
Benz(a)anthracene	ND		5	1	06/29/09 13:05	S_G	5090862
Benzo(a)pyrene	ND		5	1	06/29/09 13:05	S_G	5090862
Benzo(b)fluoranthene	ND		5	1	06/29/09 13:05	S_G	5090862
Benzo(g,h,i)perylene	ND		5	1	06/29/09 13:05	S_G	5090862
Benzo(k)fluoranthene	ND		5	1	06/29/09 13:05	S_G	5090862
Benzoic acid	ND		25	1	06/29/09 13:05	S_G	5090862
Benzyl alcohol	ND		5	1	06/29/09 13:05	S_G	5090862
Bis(2-chloroethoxy)methane	ND		5	1	06/29/09 13:05	S_G	5090862
Bis(2-chloroethyl)ether	ND		5	1	06/29/09 13:05	S_G	5090862

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

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

Client Sample ID: WMW-1 **Collected:** 06/22/2009 10:30 **SPL Sample ID:** 09061178-01

Site: Gallup, NM

Analyses/Method	Result	QUAL		Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
Bis(2-chloroisopropyl)ether	ND			5	1	06/29/09 13:05	S_G	5090862
Bis(2-ethylhexyl)phthalate	ND			5	1	06/29/09 13:05	S_G	5090862
Butyl benzyl phthalate	ND			5	1	06/29/09 13:05	S_G	5090862
Carbazole	ND			5	1	06/29/09 13:05	S_G	5090862
Chrysene	ND			5	1	06/29/09 13:05	S_G	5090862
Dibenz(a,h)anthracene	ND			5	1	06/29/09 13:05	S_G	5090862
Dibenzofuran	ND			5	1	06/29/09 13:05	S_G	5090862
Diethyl phthalate	ND			5	1	06/29/09 13:05	S_G	5090862
Dimethyl phthalate	ND			5	1	06/29/09 13:05	S_G	5090862
Di-n-butyl phthalate	ND			5	1	06/29/09 13:05	S_G	5090862
Di-n-octyl phthalate	ND			5	1	06/29/09 13:05	S_G	5090862
Fluoranthene	ND			5	1	06/29/09 13:05	S_G	5090862
Fluorene	ND			5	1	06/29/09 13:05	S_G	5090862
Hexachlorobenzene	ND			5	1	06/29/09 13:05	S_G	5090862
Hexachlorobutadiene	ND			5	1	06/29/09 13:05	S_G	5090862
Hexachlorocyclopentadiene	ND			5	1	06/29/09 13:05	S_G	5090862
Hexachloroethane	ND			5	1	06/29/09 13:05	S_G	5090862
Indeno(1,2,3-cd)pyrene	ND			5	1	06/29/09 13:05	S_G	5090862
Isophorone	ND			5	1	06/29/09 13:05	S_G	5090862
Naphthalene	ND			5	1	06/29/09 13:05	S_G	5090862
Nitrobenzene	ND			5	1	06/29/09 13:05	S_G	5090862
N-Nitrosodi-n-propylamine	ND			5	1	06/29/09 13:05	S_G	5090862
N-Nitrosodiphenylamine	ND			5	1	06/29/09 13:05	S_G	5090862
Pentachlorophenol	ND			25	1	06/29/09 13:05	S_G	5090862
Phenanthrene	ND			5	1	06/29/09 13:05	S_G	5090862
Phenol	ND			5	1	06/29/09 13:05	S_G	5090862
Pyrene	ND			5	1	06/29/09 13:05	S_G	5090862
Pyridine	ND			5	1	06/29/09 13:05	S_G	5090862
2-Methylphenol	ND			5	1	06/29/09 13:05	S_G	5090862
3 & 4-Methylphenol	ND			5	1	06/29/09 13:05	S_G	5090862
Surr: 2,4,6-Tribromophenol	71.2		%	10-123	1	06/29/09 13:05	S_G	5090862
Surr: 2-Fluorobiphenyl	72.4		%	23-116	1	06/29/09 13:05	S_G	5090862
Surr: 2-Fluorophenol	48.7		%	16-110	1	06/29/09 13:05	S_G	5090862
Surr: Nitrobenzene-d5	64.8		%	21-114	1	06/29/09 13:05	S_G	5090862
Surr: Phenol-d5	34.8		%	10-110	1	06/29/09 13:05	S_G	5090862
Surr: Terphenyl-d14	69.4		%	22-141	1	06/29/09 13:05	S_G	5090862

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3510C	06/26/2009 12:28	N_M	1.00

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TNTC - Too numerous to count
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HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: WMW-1 **Collected:** 06/22/2009 10:30 **SPL Sample ID:** 09061178-01

Site: Gallup, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
TOTAL DISSOLVED SOLIDS			**MCL**	**E160.1**	**Units: mg/L**		
Total Dissolved Solids (Residue,Filterable)	4560		40	4	06/23/09 16:00	CFS	5081775
VOLATILE ORGANICS BY METHOD 8260B			**MCL**	**SW8260B**	**Units: ug/L**		
Benzene	ND		5	1	06/29/09 20:30	JC	5092161
Ethylbenzene	ND		5	1	06/29/09 20:30	JC	5092161
Toluene	ND		5	1	06/29/09 20:30	JC	5092161
m,p-Xylene	ND		5	1	06/29/09 20:30	JC	5092161
o-Xylene	ND		5	1	06/29/09 20:30	JC	5092161
Xylenes,Total	ND		5	1	06/29/09 20:30	JC	5092161
Surr: 1,2-Dichloroethane-d4	92.7		% 78-116	1	06/29/09 20:30	JC	5092161
Surr: 4-Bromofluorobenzene	98.1		% 74-125	1	06/29/09 20:30	JC	5092161
Surr: Toluene-d8	94.7		% 82-118	1	06/29/09 20:30	JC	5092161

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

Client Sample ID: WMW-5 **Collected:** 06/22/2009 11:30 **SPL Sample ID:** 09061178-02

Site: Gallup, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
ALKALINITY (AS CACO3), TOTAL				**MCL**	**E310.1**	**Units: mg/L**	
Alkalinity, Total (As CaCO3)	682		2	1	06/24/09 17:00	PAC	5083344
ION CHROMATOGRAPHY				**MCL**	**E300.0**	**Units: mg/L**	
Chloride	259		100	200	06/26/09 23:34	BDG	5087242
Sulfate	1370		100	200	06/26/09 23:34	BDG	5087242
MERCURY, TOTAL				**MCL**	**SW7470A**	**Units: mg/L**	
Mercury	ND		0.0002	1	06/30/09 15:58	F_S	5093359

Prep Method	Prep Date	Prep Initials	Prep Factor
SW7470A	06/30/2009 10:30	F_S	1.00

METALS BY METHOD 6010B, TOTAL				**MCL**	**SW6010B**	**Units: mg/L**	
Calcium	172		0.1	1	07/02/09 13:19	EG	5097225
Iron	0.346		0.02	1	07/02/09 13:19	EG	5097225
Magnesium	49.4		0.1	1	07/02/09 13:19	EG	5097225
Sodium	912		1	10	07/02/09 14:25	EG	5097233

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	06/26/2009 12:00	AB1	1.00

METALS BY METHOD 6020A, TOTAL				**MCL**	**SW6020A**	**Units: mg/L**	
Arsenic	ND		0.025	5	07/02/09 13:53	S_C	5097460
Barium	ND		0.025	5	07/02/09 13:53	S_C	5097460
Cadmium	ND		0.025	5	07/02/09 13:53	S_C	5097460
Chromium	ND		0.025	5	07/02/09 13:53	S_C	5097460
Lead	ND		0.025	5	07/02/09 13:53	S_C	5097460
Manganese	0.693		0.025	5	07/02/09 13:53	S_C	5097460
Selenium	ND		0.025	5	07/02/09 13:53	S_C	5097460
Silver	ND		0.025	5	07/02/09 13:53	S_C	5097460

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	06/26/2009 12:00	AB1	1.00

NITRATE NITROGEN (AS N), TOTAL				**MCL**	**SM4500-NO3 F**	**Units: mg/L**	
Nitrogen, Nitrate (As N)	ND		0.5	1	06/23/09 18:30	ESK	5082314
PH				**MCL**	**SM4500-H B**	**Units: pH Units**	
pH	7.37		0.1	1	06/23/09 14:00	S_H	5081451
Temperature (oC)	25		0.1	1	06/23/09 14:00	S_H	5081451

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

Client Sample ID: WMW-5 **Collected:** 06/22/2009 11:30 **SPL Sample ID:** 09061178-02

Site: Gallup, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
SEMIVOLATILE ORGANICS BY METHOD 8270C			**MCL**	**SW8270C**	**Units: ug/L**		
1,2,4-Trichlorobenzene	ND		5	1	06/29/09 13:49	S_G	5090863
1,2-Dichlorobenzene	ND		5	1	06/29/09 13:49	S_G	5090863
1,2-Diphenylhydrazine	ND		10	1	06/29/09 13:49	S_G	5090863
1,3-Dichlorobenzene	ND		5	1	06/29/09 13:49	S_G	5090863
1,4-Dichlorobenzene	ND		5	1	06/29/09 13:49	S_G	5090863
2,4,5-Trichlorophenol	ND		10	1	06/29/09 13:49	S_G	5090863
2,4,6-Trichlorophenol	ND		5	1	06/29/09 13:49	S_G	5090863
2,4-Dichlorophenol	ND		5	1	06/29/09 13:49	S_G	5090863
2,4-Dimethylphenol	ND		5	1	06/29/09 13:49	S_G	5090863
2,4-Dinitrophenol	ND		25	1	06/29/09 13:49	S_G	5090863
2,4-Dinitrotoluene	ND		5	1	06/29/09 13:49	S_G	5090863
2,6-Dinitrotoluene	ND		5	1	06/29/09 13:49	S_G	5090863
2-Chloronaphthalene	ND		5	1	06/29/09 13:49	S_G	5090863
2-Chlorophenol	ND		5	1	06/29/09 13:49	S_G	5090863
2-Methylnaphthalene	ND		5	1	06/29/09 13:49	S_G	5090863
2-Nitroaniline	ND		25	1	06/29/09 13:49	S_G	5090863
2-Nitrophenol	ND		5	1	06/29/09 13:49	S_G	5090863
3,3´-Dichlorobenzidine	ND		10	1	06/29/09 13:49	S_G	5090863
3-Nitroaniline	ND		25	1	06/29/09 13:49	S_G	5090863
4,6-Dinitro-2-methylphenol	ND		25	1	06/29/09 13:49	S_G	5090863
4-Bromophenyl phenyl ether	ND		5	1	06/29/09 13:49	S_G	5090863
4-Chloro-3-methylphenol	ND		5	1	06/29/09 13:49	S_G	5090863
4-Chloroaniline	ND		5	1	06/29/09 13:49	S_G	5090863
4-Chlorophenyl phenyl ether	ND		5	1	06/29/09 13:49	S_G	5090863
4-Nitroaniline	ND		25	1	06/29/09 13:49	S_G	5090863
4-Nitrophenol	ND		25	1	06/29/09 13:49	S_G	5090863
Acenaphthene	ND		5	1	06/29/09 13:49	S_G	5090863
Acenaphthylene	ND		5	1	06/29/09 13:49	S_G	5090863
Aniline	ND		5	1	06/29/09 13:49	S_G	5090863
Anthracene	ND		5	1	06/29/09 13:49	S_G	5090863
Benz(a)anthracene	ND		5	1	06/29/09 13:49	S_G	5090863
Benzo(a)pyrene	ND		5	1	06/29/09 13:49	S_G	5090863
Benzo(b)fluoranthene	ND		5	1	06/29/09 13:49	S_G	5090863
Benzo(g,h,i)perylene	ND		5	1	06/29/09 13:49	S_G	5090863
Benzo(k)fluoranthene	ND		5	1	06/29/09 13:49	S_G	5090863
Benzoic acid	ND		25	1	06/29/09 13:49	S_G	5090863
Benzyl alcohol	ND		5	1	06/29/09 13:49	S_G	5090863
Bis(2-chloroethoxy)methane	ND		5	1	06/29/09 13:49	S_G	5090863
Bis(2-chloroethyl)ether	ND		5	1	06/29/09 13:49	S_G	5090863

Qualifiers:

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TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

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

Client Sample ID: WMW-5 **Collected:** 06/22/2009 11:30 **SPL Sample ID:** 09061178-02

Site: Gallup, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
Bis(2-chloroisopropyl)ether	ND		5	1	06/29/09 13:49	S_G	5090863
Bis(2-ethylhexyl)phthalate	ND		5	1	06/29/09 13:49	S_G	5090863
Butyl benzyl phthalate	ND		5	1	06/29/09 13:49	S_G	5090863
Carbazole	ND		5	1	06/29/09 13:49	S_G	5090863
Chrysene	ND		5	1	06/29/09 13:49	S_G	5090863
Dibenz(a,h)anthracene	ND		5	1	06/29/09 13:49	S_G	5090863
Dibenzofuran	ND		5	1	06/29/09 13:49	S_G	5090863
Diethyl phthalate	ND		5	1	06/29/09 13:49	S_G	5090863
Dimethyl phthalate	ND		5	1	06/29/09 13:49	S_G	5090863
Di-n-butyl phthalate	ND		5	1	06/29/09 13:49	S_G	5090863
Di-n-octyl phthalate	ND		5	1	06/29/09 13:49	S_G	5090863
Fluoranthene	ND		5	1	06/29/09 13:49	S_G	5090863
Fluorene	ND		5	1	06/29/09 13:49	S_G	5090863
Hexachlorobenzene	ND		5	1	06/29/09 13:49	S_G	5090863
Hexachlorobutadiene	ND		5	1	06/29/09 13:49	S_G	5090863
Hexachlorocyclopentadiene	ND		5	1	06/29/09 13:49	S_G	5090863
Hexachloroethane	ND		5	1	06/29/09 13:49	S_G	5090863
Indeno(1,2,3-cd)pyrene	ND		5	1	06/29/09 13:49	S_G	5090863
Isophorone	ND		5	1	06/29/09 13:49	S_G	5090863
Naphthalene	ND		5	1	06/29/09 13:49	S_G	5090863
Nitrobenzene	ND		5	1	06/29/09 13:49	S_G	5090863
N-Nitrosodi-n-propylamine	ND		5	1	06/29/09 13:49	S_G	5090863
N-Nitrosodiphenylamine	ND		5	1	06/29/09 13:49	S_G	5090863
Pentachlorophenol	ND		25	1	06/29/09 13:49	S_G	5090863
Phenanthrene	ND		5	1	06/29/09 13:49	S_G	5090863
Phenol	ND		5	1	06/29/09 13:49	S_G	5090863
Pyrene	ND		5	1	06/29/09 13:49	S_G	5090863
Pyridine	ND		5	1	06/29/09 13:49	S_G	5090863
2-Methylphenol	ND		5	1	06/29/09 13:49	S_G	5090863
3 & 4-Methylphenol	ND		5	1	06/29/09 13:49	S_G	5090863
Surr: 2,4,6-Tribromophenol	73.5		% 10-123	1	06/29/09 13:49	S_G	5090863
Surr: 2-Fluorobiphenyl	77.4		% 23-116	1	06/29/09 13:49	S_G	5090863
Surr: 2-Fluorophenol	46.4		% 16-110	1	06/29/09 13:49	S_G	5090863
Surr: Nitrobenzene-d5	68.8		% 21-114	1	06/29/09 13:49	S_G	5090863
Surr: Phenol-d5	35.2		% 10-110	1	06/29/09 13:49	S_G	5090863
Surr: Terphenyl-d14	67.8		% 22-141	1	06/29/09 13:49	S_G	5090863

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3510C	06/26/2009 12:28	N_M	1.00

Qualifiers:

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J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

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

Client Sample ID: WMW-5 **Collected:** 06/22/2009 11:30 **SPL Sample ID:** 09061178-02

Site: Gallup, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
TOTAL DISSOLVED SOLIDS			**MCL**	**E160.1**	**Units: mg/L**		
Total Dissolved Solids (Residue,Filterable)	3260		20	2	06/23/09 16:00	CFS	5081777
VOLATILE ORGANICS BY METHOD 8260B			**MCL**	**SW8260B**	**Units: ug/L**		
Benzene	ND		5	1	06/29/09 20:57	JC	5092162
Ethylbenzene	ND		5	1	06/29/09 20:57	JC	5092162
Toluene	ND		5	1	06/29/09 20:57	JC	5092162
m,p-Xylene	ND		5	1	06/29/09 20:57	JC	5092162
o-Xylene	ND		5	1	06/29/09 20:57	JC	5092162
Xylenes,Total	ND		5	1	06/29/09 20:57	JC	5092162
Surr: 1,2-Dichloroethane-d4	90.6		% 78-116	1	06/29/09 20:57	JC	5092162
Surr: 4-Bromofluorobenzene	96.5		% 74-125	1	06/29/09 20:57	JC	5092162
Surr: Toluene-d8	94.3		% 82-118	1	06/29/09 20:57	JC	5092162

Qualifiers:

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J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

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

Client Sample ID: WMW-4 **Collected:** 06/22/2009 13:05 **SPL Sample ID:** 09061178-03

Site: Gallup, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
ALKALINITY (AS CACO3), TOTAL				**MCL**	**E310.1**	**Units: mg/L**	
Alkalinity, Total (As CaCO3)	673		2	1	06/24/09 17:00	PAC	5083345
ION CHROMATOGRAPHY				**MCL**	**E300.0**	**Units: mg/L**	
Chloride	143		50	100	06/26/09 23:54	BDG	5087243
Sulfate	228		50	100	06/26/09 23:54	BDG	5087243
MERCURY, TOTAL				**MCL**	**SW7470A**	**Units: mg/L**	
Mercury	ND		0.0002	1	06/30/09 16:00	F_S	5093360

Prep Method	Prep Date	Prep Initials	Prep Factor
SW7470A	06/30/2009 10:30	F_S	1.00

METALS BY METHOD 6010B, TOTAL				**MCL**	**SW6010B**	**Units: mg/L**	
Calcium	16.5		0.1	1	07/02/09 13:23	EG	5097226
Iron	4.13		0.02	1	07/02/09 13:23	EG	5097226
Magnesium	12.2		0.1	1	07/02/09 13:23	EG	5097226
Sodium	566		1	10	07/02/09 14:29	EG	5097234

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	06/26/2009 12:00	AB1	1.00

METALS BY METHOD 6020A, TOTAL				**MCL**	**SW6020A**	**Units: mg/L**	
Arsenic	ND		0.025	5	07/02/09 13:58	S_C	5097461
Barium	0.0627		0.025	5	07/02/09 13:58	S_C	5097461
Cadmium	ND		0.025	5	07/02/09 13:58	S_C	5097461
Chromium	ND		0.025	5	07/02/09 13:58	S_C	5097461
Lead	ND		0.025	5	07/02/09 13:58	S_C	5097461
Manganese	0.325		0.025	5	07/02/09 13:58	S_C	5097461
Selenium	ND		0.025	5	07/02/09 13:58	S_C	5097461
Silver	ND		0.025	5	07/02/09 13:58	S_C	5097461

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	06/26/2009 12:00	AB1	1.00

NITRATE NITROGEN (AS N), TOTAL				**MCL**	**SM4500-NO3 F**	**Units: mg/L**	
Nitrogen, Nitrate (As N)	ND		0.5	1	06/23/09 18:30	ESK	5082315
PH				**MCL**	**SM4500-H B**	**Units: pH Units**	
pH	7.73		0.1	1	06/23/09 14:00	S_H	5081452
Temperature (oC)	24.8		0.1	1	06/23/09 14:00	S_H	5081452

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TNTC - Too numerous to count
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HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: WMW-4 **Collected:** 06/22/2009 13:05 **SPL Sample ID:** 09061178-03

Site: Gallup, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
SEMIVOLATILE ORGANICS BY METHOD 8270C			**MCL**	**SW8270C**	**Units: ug/L**		
1,2,4-Trichlorobenzene	ND		5	1	06/29/09 14:32	S_G	5090864
1,2-Dichlorobenzene	ND		5	1	06/29/09 14:32	S_G	5090864
1,2-Diphenylhydrazine	ND		10	1	06/29/09 14:32	S_G	5090864
1,3-Dichlorobenzene	ND		5	1	06/29/09 14:32	S_G	5090864
1,4-Dichlorobenzene	ND		5	1	06/29/09 14:32	S_G	5090864
2,4,5-Trichlorophenol	ND		10	1	06/29/09 14:32	S_G	5090864
2,4,6-Trichlorophenol	ND		5	1	06/29/09 14:32	S_G	5090864
2,4-Dichlorophenol	ND		5	1	06/29/09 14:32	S_G	5090864
2,4-Dimethylphenol	ND		5	1	06/29/09 14:32	S_G	5090864
2,4-Dinitrophenol	ND		25	1	06/29/09 14:32	S_G	5090864
2,4-Dinitrotoluene	ND		5	1	06/29/09 14:32	S_G	5090864
2,6-Dinitrotoluene	ND		5	1	06/29/09 14:32	S_G	5090864
2-Chloronaphthalene	ND		5	1	06/29/09 14:32	S_G	5090864
2-Chlorophenol	ND		5	1	06/29/09 14:32	S_G	5090864
2-Methylnaphthalene	ND		5	1	06/29/09 14:32	S_G	5090864
2-Nitroaniline	ND		25	1	06/29/09 14:32	S_G	5090864
2-Nitrophenol	ND		5	1	06/29/09 14:32	S_G	5090864
3,3'-Dichlorobenzidine	ND		10	1	06/29/09 14:32	S_G	5090864
3-Nitroaniline	ND		25	1	06/29/09 14:32	S_G	5090864
4,6-Dinitro-2-methylphenol	ND		25	1	06/29/09 14:32	S_G	5090864
4-Bromophenyl phenyl ether	ND		5	1	06/29/09 14:32	S_G	5090864
4-Chloro-3-methylphenol	ND		5	1	06/29/09 14:32	S_G	5090864
4-Chloroaniline	ND		5	1	06/29/09 14:32	S_G	5090864
4-Chlorophenyl phenyl ether	ND		5	1	06/29/09 14:32	S_G	5090864
4-Nitroaniline	ND		25	1	06/29/09 14:32	S_G	5090864
4-Nitrophenol	ND		25	1	06/29/09 14:32	S_G	5090864
Acenaphthene	ND		5	1	06/29/09 14:32	S_G	5090864
Acenaphthylene	ND		5	1	06/29/09 14:32	S_G	5090864
Aniline	ND		5	1	06/29/09 14:32	S_G	5090864
Anthracene	ND		5	1	06/29/09 14:32	S_G	5090864
Benz(a)anthracene	ND		5	1	06/29/09 14:32	S_G	5090864
Benzo(a)pyrene	ND		5	1	06/29/09 14:32	S_G	5090864
Benzo(b)fluoranthene	ND		5	1	06/29/09 14:32	S_G	5090864
Benzo(g,h,i)perylene	ND		5	1	06/29/09 14:32	S_G	5090864
Benzo(k)fluoranthene	ND		5	1	06/29/09 14:32	S_G	5090864
Benzoic acid	ND		25	1	06/29/09 14:32	S_G	5090864
Benzyl alcohol	ND		5	1	06/29/09 14:32	S_G	5090864
Bis(2-chloroethoxy)methane	ND		5	1	06/29/09 14:32	S_G	5090864
Bis(2-chloroethyl)ether	ND		5	1	06/29/09 14:32	S_G	5090864

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

Client Sample ID: WMW-4 **Collected:** 06/22/2009 13:05 **SPL Sample ID:** 09061178-03

Site: Gallup, NM

Analyses/Method	Result	QUAL		Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
Bis(2-chloroisopropyl)ether	ND			5	1	06/29/09 14:32	S_G	5090864
Bis(2-ethylhexyl)phthalate	ND			5	1	06/29/09 14:32	S_G	5090864
Butyl benzyl phthalate	ND			5	1	06/29/09 14:32	S_G	5090864
Carbazole	ND			5	1	06/29/09 14:32	S_G	5090864
Chrysene	ND			5	1	06/29/09 14:32	S_G	5090864
Dibenz(a,h)anthracene	ND			5	1	06/29/09 14:32	S_G	5090864
Dibenzofuran	ND			5	1	06/29/09 14:32	S_G	5090864
Diethyl phthalate	ND			5	1	06/29/09 14:32	S_G	5090864
Dimethyl phthalate	ND			5	1	06/29/09 14:32	S_G	5090864
Di-n-butyl phthalate	ND			5	1	06/29/09 14:32	S_G	5090864
Di-n-octyl phthalate	ND			5	1	06/29/09 14:32	S_G	5090864
Fluoranthene	ND			5	1	06/29/09 14:32	S_G	5090864
Fluorene	ND			5	1	06/29/09 14:32	S_G	5090864
Hexachlorobenzene	ND			5	1	06/29/09 14:32	S_G	5090864
Hexachlorobutadiene	ND			5	1	06/29/09 14:32	S_G	5090864
Hexachlorocyclopentadiene	ND			5	1	06/29/09 14:32	S_G	5090864
Hexachloroethane	ND			5	1	06/29/09 14:32	S_G	5090864
Indeno(1,2,3-cd)pyrene	ND			5	1	06/29/09 14:32	S_G	5090864
Isophorone	ND			5	1	06/29/09 14:32	S_G	5090864
Naphthalene	ND			5	1	06/29/09 14:32	S_G	5090864
Nitrobenzene	ND			5	1	06/29/09 14:32	S_G	5090864
N-Nitrosodi-n-propylamine	ND			5	1	06/29/09 14:32	S_G	5090864
N-Nitrosodiphenylamine	ND			5	1	06/29/09 14:32	S_G	5090864
Pentachlorophenol	ND			25	1	06/29/09 14:32	S_G	5090864
Phenanthrene	ND			5	1	06/29/09 14:32	S_G	5090864
Phenol	ND			5	1	06/29/09 14:32	S_G	5090864
Pyrene	ND			5	1	06/29/09 14:32	S_G	5090864
Pyridine	ND			5	1	06/29/09 14:32	S_G	5090864
2-Methylphenol	ND			5	1	06/29/09 14:32	S_G	5090864
3 & 4-Methylphenol	ND			5	1	06/29/09 14:32	S_G	5090864
Surr: 2,4,6-Tribromophenol	40.5		%	10-123	1	06/29/09 14:32	S_G	5090864
Surr: 2-Fluorobiphenyl	48.6		%	23-116	1	06/29/09 14:32	S_G	5090864
Surr: 2-Fluorophenol	36.5		%	16-110	1	06/29/09 14:32	S_G	5090864
Surr: Nitrobenzene-d5	44.8		%	21-114	1	06/29/09 14:32	S_G	5090864
Surr: Phenol-d5	29.6		%	10-110	1	06/29/09 14:32	S_G	5090864
Surr: Terphenyl-d14	40.2		%	22-141	1	06/29/09 14:32	S_G	5090864

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3510C	06/26/2009 12:28	N_M	1.00

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

Client Sample ID: WMW-4 **Collected:** 06/22/2009 13:05 **SPL Sample ID:** 09061178-03

Site: Gallup, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
TOTAL DISSOLVED SOLIDS			**MCL**	**E160.1**	**Units: mg/L**		
Total Dissolved Solids (Residue,Filterable)	1470		10	1	06/23/09 16:00	CFS	5081778
VOLATILE ORGANICS BY METHOD 8260B			**MCL**	**SW8260B**	**Units: ug/L**		
Benzene	ND		5	1	06/29/09 21:24	JC	5092163
Ethylbenzene	ND		5	1	06/29/09 21:24	JC	5092163
Toluene	ND		5	1	06/29/09 21:24	JC	5092163
m,p-Xylene	ND		5	1	06/29/09 21:24	JC	5092163
o-Xylene	ND		5	1	06/29/09 21:24	JC	5092163
Xylenes,Total	ND		5	1	06/29/09 21:24	JC	5092163
Surr: 1,2-Dichloroethane-d4	92.1		% 78-116	1	06/29/09 21:24	JC	5092163
Surr: 4-Bromofluorobenzene	95.6		% 74-125	1	06/29/09 21:24	JC	5092163
Surr: Toluene-d8	90.3		% 82-118	1	06/29/09 21:24	JC	5092163

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

Client Sample ID: WMW-7 **Collected:** 06/22/2009 14:25 **SPL Sample ID:** 09061178-04

Site: Gallup, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
ALKALINITY (AS CACO3), TOTAL				**MCL**	**E310.1**	**Units: mg/L**	
Alkalinity, Total (As CaCO3)	520		2	1	06/24/09 17:00	PAC	5083346
ION CHROMATOGRAPHY				**MCL**	**E300.0**	**Units: mg/L**	
Chloride	80.4		50	100	06/27/09 0:13	BDG	5087244
Sulfate	439		50	100	06/27/09 0:13	BDG	5087244
MERCURY, TOTAL				**MCL**	**SW7470A**	**Units: mg/L**	
Mercury	ND		0.0002	1	06/30/09 16:03	F_S	5093361

Prep Method	Prep Date	Prep Initials	Prep Factor
SW7470A	06/30/2009 10:30	F_S	1.00

METALS BY METHOD 6010B, TOTAL				**MCL**	**SW6010B**	**Units: mg/L**	
Calcium	41.1		0.1	1	07/02/09 13:28	EG	5097227
Iron	0.284		0.02	1	07/02/09 13:28	EG	5097227
Magnesium	16.9		0.1	1	07/02/09 13:28	EG	5097227
Sodium	509		1	10	07/02/09 14:33	EG	5097235

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	06/26/2009 12:00	AB1	1.00

METALS BY METHOD 6020A, TOTAL				**MCL**	**SW6020A**	**Units: mg/L**	
Arsenic	ND		0.025	5	07/02/09 14:03	S_C	5097462
Barium	0.0371		0.025	5	07/02/09 14:03	S_C	5097462
Cadmium	ND		0.025	5	07/02/09 14:03	S_C	5097462
Chromium	ND		0.025	5	07/02/09 14:03	S_C	5097462
Lead	ND		0.025	5	07/02/09 14:03	S_C	5097462
Manganese	0.2		0.025	5	07/02/09 14:03	S_C	5097462
Selenium	ND		0.025	5	07/02/09 14:03	S_C	5097462
Silver	ND		0.025	5	07/02/09 14:03	S_C	5097462

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	06/26/2009 12:00	AB1	1.00

NITRATE NITROGEN (AS N), TOTAL				**MCL**	**SM4500-NO3 F**	**Units: mg/L**	
Nitrogen, Nitrate (As N)	ND		0.5	1	06/23/09 18:30	ESK	5082316
PH				**MCL**	**SM4500-H B**	**Units: pH Units**	
pH	7.56		0.1	1	06/23/09 14:00	S_H	5081453
Temperature (oC)	24.8		0.1	1	06/23/09 14:00	S_H	5081453

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TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
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HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: WMW-7 **Collected:** 06/22/2009 14:25 **SPL Sample ID:** 09061178-04

Site: Gallup, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
SEMIVOLATILE ORGANICS BY METHOD 8270C			**MCL**	**SW8270C**	**Units: ug/L**		
1,2,4-Trichlorobenzene	ND		5	1	06/29/09 15:58	S_G	5092143
1,2-Dichlorobenzene	ND		5	1	06/29/09 15:58	S_G	5092143
1,2-Diphenylhydrazine	ND		10	1	06/29/09 15:58	S_G	5092143
1,3-Dichlorobenzene	ND		5	1	06/29/09 15:58	S_G	5092143
1,4-Dichlorobenzene	ND		5	1	06/29/09 15:58	S_G	5092143
2,4,5-Trichlorophenol	ND		10	1	06/29/09 15:58	S_G	5092143
2,4,6-Trichlorophenol	ND		5	1	06/29/09 15:58	S_G	5092143
2,4-Dichlorophenol	ND		5	1	06/29/09 15:58	S_G	5092143
2,4-Dimethylphenol	ND		5	1	06/29/09 15:58	S_G	5092143
2,4-Dinitrophenol	ND		25	1	06/29/09 15:58	S_G	5092143
2,4-Dinitrotoluene	ND		5	1	06/29/09 15:58	S_G	5092143
2,6-Dinitrotoluene	ND		5	1	06/29/09 15:58	S_G	5092143
2-Chloronaphthalene	ND		5	1	06/29/09 15:58	S_G	5092143
2-Chlorophenol	ND		5	1	06/29/09 15:58	S_G	5092143
2-Methylnaphthalene	ND		5	1	06/29/09 15:58	S_G	5092143
2-Nitroaniline	ND		25	1	06/29/09 15:58	S_G	5092143
2-Nitrophenol	ND		5	1	06/29/09 15:58	S_G	5092143
3,3'-Dichlorobenzidine	ND		10	1	06/29/09 15:58	S_G	5092143
3-Nitroaniline	ND		25	1	06/29/09 15:58	S_G	5092143
4,6-Dinitro-2-methylphenol	ND		25	1	06/29/09 15:58	S_G	5092143
4-Bromophenyl phenyl ether	ND		5	1	06/29/09 15:58	S_G	5092143
4-Chloro-3-methylphenol	ND		5	1	06/29/09 15:58	S_G	5092143
4-Chloroaniline	ND		5	1	06/29/09 15:58	S_G	5092143
4-Chlorophenyl phenyl ether	ND		5	1	06/29/09 15:58	S_G	5092143
4-Nitroaniline	ND		25	1	06/29/09 15:58	S_G	5092143
4-Nitrophenol	ND		25	1	06/29/09 15:58	S_G	5092143
Acenaphthene	ND		5	1	06/29/09 15:58	S_G	5092143
Acenaphthylene	ND		5	1	06/29/09 15:58	S_G	5092143
Aniline	ND		5	1	06/29/09 15:58	S_G	5092143
Anthracene	ND		5	1	06/29/09 15:58	S_G	5092143
Benz(a)anthracene	ND		5	1	06/29/09 15:58	S_G	5092143
Benzo(a)pyrene	ND		5	1	06/29/09 15:58	S_G	5092143
Benzo(b)fluoranthene	ND		5	1	06/29/09 15:58	S_G	5092143
Benzo(g,h,i)perylene	ND		5	1	06/29/09 15:58	S_G	5092143
Benzo(k)fluoranthene	ND		5	1	06/29/09 15:58	S_G	5092143
Benzoic acid	ND		25	1	06/29/09 15:58	S_G	5092143
Benzyl alcohol	ND		5	1	06/29/09 15:58	S_G	5092143
Bis(2-chloroethoxy)methane	ND		5	1	06/29/09 15:58	S_G	5092143
Bis(2-chloroethyl)ether	ND		5	1	06/29/09 15:58	S_G	5092143

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

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

Client Sample ID: WMW-7 **Collected:** 06/22/2009 14:25 **SPL Sample ID:** 09061178-04

Site: Gallup, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
Bis(2-chloroisopropyl)ether	ND		5	1	06/29/09 15:58	S_G	5092143
Bis(2-ethylhexyl)phthalate	ND		5	1	06/29/09 15:58	S_G	5092143
Butyl benzyl phthalate	ND		5	1	06/29/09 15:58	S_G	5092143
Carbazole	ND		5	1	06/29/09 15:58	S_G	5092143
Chrysene	ND		5	1	06/29/09 15:58	S_G	5092143
Dibenz(a,h)anthracene	ND		5	1	06/29/09 15:58	S_G	5092143
Dibenzofuran	ND		5	1	06/29/09 15:58	S_G	5092143
Diethyl phthalate	ND		5	1	06/29/09 15:58	S_G	5092143
Dimethyl phthalate	ND		5	1	06/29/09 15:58	S_G	5092143
Di-n-butyl phthalate	ND		5	1	06/29/09 15:58	S_G	5092143
Di-n-octyl phthalate	ND		5	1	06/29/09 15:58	S_G	5092143
Fluoranthene	ND		5	1	06/29/09 15:58	S_G	5092143
Fluorene	ND		5	1	06/29/09 15:58	S_G	5092143
Hexachlorobenzene	ND		5	1	06/29/09 15:58	S_G	5092143
Hexachlorobutadiene	ND		5	1	06/29/09 15:58	S_G	5092143
Hexachlorocyclopentadiene	ND		5	1	06/29/09 15:58	S_G	5092143
Hexachloroethane	ND		5	1	06/29/09 15:58	S_G	5092143
Indeno(1,2,3-cd)pyrene	ND		5	1	06/29/09 15:58	S_G	5092143
Isophorone	ND		5	1	06/29/09 15:58	S_G	5092143
Naphthalene	ND		5	1	06/29/09 15:58	S_G	5092143
Nitrobenzene	ND		5	1	06/29/09 15:58	S_G	5092143
N-Nitrosodi-n-propylamine	ND		5	1	06/29/09 15:58	S_G	5092143
N-Nitrosodiphenylamine	ND		5	1	06/29/09 15:58	S_G	5092143
Pentachlorophenol	ND		25	1	06/29/09 15:58	S_G	5092143
Phenanthrene	ND		5	1	06/29/09 15:58	S_G	5092143
Phenol	ND		5	1	06/29/09 15:58	S_G	5092143
Pyrene	ND		5	1	06/29/09 15:58	S_G	5092143
Pyridine	ND		5	1	06/29/09 15:58	S_G	5092143
2-Methylphenol	ND		5	1	06/29/09 15:58	S_G	5092143
3 & 4-Methylphenol	ND		5	1	06/29/09 15:58	S_G	5092143
Surr: 2,4,6-Tribromophenol	59.3		% 10-123	1	06/29/09 15:58	S_G	5092143
Surr: 2-Fluorobiphenyl	63.4		% 23-116	1	06/29/09 15:58	S_G	5092143
Surr: 2-Fluorophenol	39.2		% 16-110	1	06/29/09 15:58	S_G	5092143
Surr: Nitrobenzene-d5	55.6		% 21-114	1	06/29/09 15:58	S_G	5092143
Surr: Phenol-d5	27.5		% 10-110	1	06/29/09 15:58	S_G	5092143
Surr: Terphenyl-d14	60.4		% 22-141	1	06/29/09 15:58	S_G	5092143

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3510C	06/26/2009 12:28	N_M	1.00

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

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

Client Sample ID: WMW-7 **Collected:** 06/22/2009 14:25 **SPL Sample ID:** 09061178-04

Site: Gallup, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
TOTAL DISSOLVED SOLIDS			**MCL**	**E160.1**	**Units: mg/L**		
Total Dissolved Solids (Residue,Filterable)	1410		10	1	06/23/09 16:00	CFS	5081779
VOLATILE ORGANICS BY METHOD 8260B			**MCL**	**SW8260B**	**Units: ug/L**		
Benzene	ND		5	1	06/29/09 21:51	JC	5092164
Ethylbenzene	ND		5	1	06/29/09 21:51	JC	5092164
Toluene	ND		5	1	06/29/09 21:51	JC	5092164
m,p-Xylene	ND		5	1	06/29/09 21:51	JC	5092164
o-Xylene	ND		5	1	06/29/09 21:51	JC	5092164
Xylenes,Total	ND		5	1	06/29/09 21:51	JC	5092164
Surr: 1,2-Dichloroethane-d4	88.6		% 78-116	1	06/29/09 21:51	JC	5092164
Surr: 4-Bromofluorobenzene	99.5		% 74-125	1	06/29/09 21:51	JC	5092164
Surr: Toluene-d8	91.6		% 82-118	1	06/29/09 21:51	JC	5092164

Qualifiers:

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B/V - Analyte detected in the associated Method Blank
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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

Quality Control Documentation

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

Quality Control Report

Conoco Phillips

COP Wingate

Analysis: Metals by Method 6010B, Total
Method: SW6010B
WorkOrder: 09061178
Lab Batch ID: 91486b

Method Blank

RunID: ICP2_090702A-5097214 Units: mg/L
Analysis Date: 07/02/2009 12:31 Analyst: EG
Preparation Date: 06/26/2009 12:00 Prep By: AB1 Method: SW3010A

Analyte	Result	Rep Limit
Calcium	ND	0.1
Iron	ND	0.02
Magnesium	ND	0.1
Sodium	ND	0.1

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
09061178-01E	WMW-1
09061178-02E	WMW-5
09061178-03E	WMW-4
09061178-04E	WMW-7

Laboratory Control Sample (LCS)

RunID: ICP2_090702A-5097215 Units: mg/L
Analysis Date: 07/02/2009 12:35 Analyst: EG
Preparation Date: 06/26/2009 12:00 Prep By: AB1 Method: SW3010A

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Calcium	1.000	1.080	108.0	80	120
Iron	1.000	1.081	108.1	80	120
Magnesium	1.000	1.065	106.5	80	120
Sodium	1.000	1.002	100.2	80	120

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

Sample Spiked: 09061319-01
RunID: ICP2_090702A-5097217 Units: mg/L
Analysis Date: 07/02/2009 12:44 Analyst: EG
Preparation Date: 06/26/2009 12:00 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
Calcium	92.92	1	92.67	N/C	1	93.95	N/C	N/C	20	75	125
Iron	3.054	1	4.115	106.1	1	4.101	104.7	0.3408	20	75	125
Magnesium	22.58	1	23.46	N/C	1	23.67	N/C	N/C	20	75	125
Sodium	280.1	1	279.2	N/C	1	282.6	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
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

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

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Quality Control Report

Conoco Phillips

COP Wingate

Analysis: Metals by Method 6020A, Total
Method: SW6020A
WorkOrder: 09061178
Lab Batch ID: 91486B-I

Method Blank

RunID: ICPMS_090702A-5097444 Units: mg/L
Analysis Date: 07/02/2009 12:34 Analyst: S_C
Preparation Date: 06/26/2009 12:00 Prep By: AB1 Method: SW3010A

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

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
09061178-01E	WMW-1
09061178-02E	WMW-5
09061178-03E	WMW-4
09061178-04E	WMW-7

Laboratory Control Sample (LCS)

RunID: ICPMS_090702A-5097466 Units: mg/L
Analysis Date: 07/02/2009 14:26 Analyst: S_C
Preparation Date: 06/26/2009 12:00 Prep By: AB1 Method: SW3010A

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Arsenic	0.1000	0.1065	106.5	80	120
Barium	0.1000	0.09103	91.03	80	120
Cadmium	0.1000	0.1129	112.9	80	120
Chromium	0.1000	0.09849	98.49	80	120
Lead	0.1000	0.09087	90.87	80	120
Manganese	0.1000	0.09855	98.55	80	120
Selenium	0.1000	0.1151	115.1	80	120
Silver	0.1000	0.1054	105.4	80	120

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

Sample Spiked: 09061319-01
RunID: ICPMS_090702A-5097449 Units: mg/L
Analysis Date: 07/02/2009 13:03 Analyst: S_C

Analyte	Sample Result	PDS Spike Added	PDS Result	PDS % Recovery	PDSD Spike Added	PDSD Result	PDSD % Recovery	RPD	RPD Limit	Low Limit	High Limit

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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Quality Control Report

Conoco Phillips

COP Wingate

Analysis: Metals by Method 6020A, Total **WorkOrder:** 09061178
Method: SW6020A **Lab Batch ID:** 91486B-I

Arsenic	ND	5	5.938	118.8	5	5.979	119.6	0.6881	20	75	125
Barium	ND	5	5.063	101.3	5	5.059	101.2	0.07904	20	75	125
Selenium	ND	5	6.633	132.7 *	5	6.764	135.3 *	1.956	20	75	125

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

Sample Spiked: 09061319-01
RunID: ICPMS_090702A-5097446 Units: mg/L
Analysis Date: 07/02/2009 12:49 Analyst: S_C
Preparation Date: 06/26/2009 12:00 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
Arsenic	ND	0.1	0.1497	149.7 *	0.1	0.1486	148.6 *	0.7375	20	75	125
Barium	ND	0.1	0.2628	262.8 *	0.1	0.2588	258.8 *	1.534	20	75	125
Cadmium	ND	0.1	D	D	0.1	D	D	D	20	75	125
Chromium	ND	0.1	D	D	0.1	D	D	D	20	75	125
Lead	ND	0.1	0.1223	122.3	0.1	0.1196	119.6	2.232	20	75	125
Manganese	0.8558	0.1	0.8875	N/C	0.1	0.8575	N/C	N/C	20	75	125
Selenium	ND	0.1	0.1273	127.3 *	0.1	0.1199	119.9	5.987	20	75	125
Silver	ND	0.1	0.1074	107.4	0.1	0.1040	104.0	3.217	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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Quality Control Report

Conoco Phillips

COP Wingate

Analysis: Mercury, Total
Method: SW7470A

WorkOrder: 09061178
Lab Batch ID: 91605

Method Blank

RunID: HGLC_090630A-5092798 Units: mg/L
Analysis Date: 06/30/2009 14:13 Analyst: F_S
Preparation Date: 06/30/2009 10:30 Prep By: F_S Method: SW7470A

Analyte	Result	Rep Limit
Mercury	ND	0.0002

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
09061178-01E	WMW-1
09061178-02E	WMW-5
09061178-03E	WMW-4
09061178-04E	WMW-7

Laboratory Control Sample (LCS)

RunID: HGLC_090630A-5092799 Units: mg/L
Analysis Date: 06/30/2009 14:15 Analyst: F_S
Preparation Date: 06/30/2009 10:30 Prep By: F_S Method: SW7470A

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Mercury	0.002000	0.001963	98.13	80	120

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

Sample Spiked: 09061076-02
RunID: HGLC_090630A-5092801 Units: mg/L
Analysis Date: 06/30/2009 14:21 Analyst: F_S
Preparation Date: 06/30/2009 10:30 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	0.001919	95.93	0.002	0.001843	92.17	3.996	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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Quality Control Report

Conoco Phillips

COP Wingate

Analysis: Semivolatile Organics by Method 8270C
Method: SW8270C
WorkOrder: 09061178
Lab Batch ID: 91487

Method Blank

RunID: J_090629B-5090857 Units: ug/L
Analysis Date: 06/29/2009 11:44 Analyst: S_G
Preparation Date: 06/26/2009 12:28 Prep By: N_M Method: SW3510C

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
09061178-01B	WMW-1
09061178-02B	WMW-5
09061178-03B	WMW-4
09061178-04B	WMW-7

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

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

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

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

Quality Control Report

Conoco Phillips

COP Wingate

Analysis: Semivolatile Organics by Method 8270C
Method: SW8270C
WorkOrder: 09061178
Lab Batch ID: 91487

Method Blank

RunID: J_090629B-5090857 Units: ug/L
Analysis Date: 06/29/2009 11:44 Analyst: S_G
Preparation Date: 06/26/2009 12:28 Prep By: N_M Method: SW3510C

Analyte	Result	Rep Limit
Diethyl phthalate	ND	5.0
Dimethyl phthalate	ND	5.0
Di-n-butyl phthalate	ND	5.0
Di-n-octyl phthalate	ND	5.0
Fluoranthene	ND	5.0
Fluorene	ND	5.0
Hexachlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Hexachlorocyclopentadiene	ND	5.0
Hexachloroethane	ND	5.0
Indeno(1,2,3-cd)pyrene	ND	5.0
Isophorone	ND	5.0
Naphthalene	ND	5.0
Nitrobenzene	ND	5.0
N-Nitrosodi-n-propylamine	ND	5.0
N-Nitrosodiphenylamine	ND	5.0
Pentachlorophenol	ND	25
Phenanthrene	ND	5.0
Phenol	ND	5.0
Pyrene	ND	5.0
Pyridine	ND	5.0
2-Methylphenol	ND	5.0
3 & 4-Methylphenol	ND	5.0
Surr: 2,4,6-Tribromophenol	75.3	10-123
Surr: 2-Fluorobiphenyl	78.0	23-116
Surr: 2-Fluorophenol	67.9	16-110
Surr: Nitrobenzene-d5	69.2	21-114
Surr: Phenol-d5	69.2	10-110
Surr: Terphenyl-d14	75.0	22-141

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

RunID: J_090629B-5090852 Units: ug/L
Analysis Date: 06/29/2009 10:15 Analyst: S_G
Preparation Date: 06/26/2009 12:28 Prep By: N_M Method: SW3510C

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
1,2,4-Trichlorobenzene	25.0	21.3	85.2	25.0	20.6	82.4	3.3	39	21	120
1,2-Dichlorobenzene	25.0	20.2	80.8	25.0	20.4	81.6	1.0	50	20	150

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

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

Quality Control Report

Conoco Phillips

COP Wingate

Analysis: Semivolatile Organics by Method 8270C
Method: SW8270C
WorkOrder: 09061178
Lab Batch ID: 91487

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

RunID: J_090629B-5090852 Units: ug/L
Analysis Date: 06/29/2009 10:15 Analyst: S_G
Preparation Date: 06/26/2009 12:28 Prep By: N_M Method: SW3510C

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
1,2-Diphenylhydrazine	25.0	20.9	83.6	25.0	20.7	82.8	1.0	50	10	251
1,3-Dichlorobenzene	25.0	19.7	78.8	25.0	19.5	78.0	1.0	50	20	150
1,4-Dichlorobenzene	25.0	20.0	80.0	25.0	19.7	78.8	1.5	45	20	150
2,4,5-Trichlorophenol	25.0	21.5	86.0	25.0	22.2	88.8	3.2	50	30	150
2,4,6-Trichlorophenol	25.0	21.1	84.4	25.0	21.1	84.4	0.0	50	30	150
2,4-Dichlorophenol	25.0	21.8	87.2	25.0	21.4	85.6	1.9	50	30	150
2,4-Dimethylphenol	25.0	21.0	84.0	25.0	20.9	83.6	0.5	50	32	140
2,4-Dinitrophenol	25.0	23.3	93.2	25.0	22.5	90.0	3.5	50	10	160
2,4-Dinitrotoluene	25.0	23.7	94.8	25.0	24.0	96.0	1.3	50	30	150
2,6-Dinitrotoluene	25.0	22.2	88.8	25.0	22.7	90.8	2.2	50	30	150
2-Chloronaphthalene	25.0	20.7	82.8	25.0	21.2	84.8	2.4	50	30	150
2-Chlorophenol	25.0	20.5	82.0	25.0	20.6	82.4	0.5	40	23	134
2-Methylnaphthalene	25.0	20.8	83.2	25.0	20.4	81.6	1.9	50	20	170
2-Nitroaniline	25.0	20.2	80.8	25.0	20.9	83.6	3.4	50	20	160
2-Nitrophenol	25.0	20.5	82.0	25.0	20.9	83.6	1.9	50	29	182
3,3'-Dichlorobenzidine	25.0	19.2	76.8	25.0	19.4	77.6	1.0	50	30	200
3-Nitroaniline	25.0	20.0	80.0	25.0	20.6	82.4	3.0	50	20	160
4,6-Dinitro-2-methylphenol	25.0	20.6	82.4	25.0	20.4	81.6	1.0	50	10	160
4-Bromophenyl phenyl ether	25.0	21.5	86.0	25.0	21.3	85.2	0.9	50	30	150
4-Chloro-3-methylphenol	25.0	20.6	82.4	25.0	20.6	82.4	0.0	42	25	160
4-Chloroaniline	25.0	21.4	85.6	25.0	21.1	84.4	1.4	50	20	160
4-Chlorophenyl phenyl ether	25.0	21.8	87.2	25.0	21.2	84.8	2.8	50	25	158
4-Nitroaniline	25.0	22.1	88.4	25.0	23.2	92.8	4.9	50	20	160
4-Nitrophenol	25.0	19.6	78.4	25.0	20.6	82.4	5.0	50	10	132
Acenaphthene	25.0	21.0	84.0	25.0	21.7	86.8	3.3	31	30	150
Acenaphthylene	25.0	21.9	87.6	25.0	22.3	89.2	1.8	50	33	250
Aniline	50.0	37.8	75.6	50.0	38.4	76.8	1.6	50	10	135
Anthracene	25.0	21.7	86.8	25.0	22.2	88.8	2.3	50	27	133
Benz(a)anthracene	25.0	22.6	90.4	25.0	22.5	90.0	0.4	50	33	143
Benzo(a)pyrene	25.0	20.8	83.2	25.0	21.0	84.0	1.0	50	17	163
Benzo(b)fluoranthene	25.0	22.1	88.4	25.0	22.1	88.4	0.0	50	24	159
Benzo(g,h,i)perylene	25.0	22.5	90.0	25.0	22.5	90.0	0.0	50	30	160
Benzo(k)fluoranthene	25.0	23.0	92.0	25.0	23.1	92.4	0.4	50	11	162

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Quality Control Report

Conoco Phillips

COP Wingate

Analysis: Semivolatile Organics by Method 8270C
Method: SW8270C
WorkOrder: 09061178
Lab Batch ID: 91487

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

RunID: J_090629B-5090852 Units: ug/L
Analysis Date: 06/29/2009 10:15 Analyst: S_G
Preparation Date: 06/26/2009 12:28 Prep By: N_M Method: SW3510C

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Benzoic acid	25.0	4.22	16.9	25.0	4.70	18.8	10.8	50	10	400
Benzyl alcohol	25.0	19.9	79.6	25.0	20.4	81.6	2.5	50	30	160
Bis(2-chloroethoxy)methane	25.0	20.4	81.6	25.0	20.0	80.0	2.0	50	33	184
Bis(2-chloroethyl)ether	25.0	20.3	81.2	25.0	20.2	80.8	0.5	50	12	158
Bis(2-chloroisopropyl)ether	25.0	19.7	78.8	25.0	19.2	76.8	2.6	50	20	160
Bis(2-ethylhexyl)phthalate	25.0	22.8	91.2	25.0	20.7	82.8	9.7	50	10	158
Butyl benzyl phthalate	25.0	23.5	94.0	25.0	22.2	88.8	5.7	50	30	160
Carbazole	25.0	21.5	86.0	25.0	22.3	89.2	3.7	50	30	150
Chrysene	25.0	22.0	88.0	25.0	21.8	87.2	0.9	50	17	168
Dibenz(a,h)anthracene	25.0	22.5	90.0	25.0	22.9	91.6	1.8	50	30	160
Dibenzofuran	25.0	21.6	86.4	25.0	22.1	88.4	2.3	50	30	150
Diethyl phthalate	25.0	22.3	89.2	25.0	21.7	86.8	2.7	50	30	160
Dimethyl phthalate	25.0	22.0	88.0	25.0	21.8	87.2	0.9	50	30	160
Di-n-butyl phthalate	25.0	23.4	93.6	25.0	21.9	87.6	6.6	50	30	160
Di-n-octyl phthalate	25.0	22.9	91.6	25.0	21.1	84.4	8.2	50	20	150
Fluoranthene	25.0	22.9	91.6	25.0	23.2	92.8	1.3	50	26	137
Fluorene	25.0	21.7	86.8	25.0	21.8	87.2	0.5	50	30	150
Hexachlorobenzene	25.0	20.8	83.2	25.0	20.8	83.2	0.0	50	20	150
Hexachlorobutadiene	25.0	20.4	81.6	25.0	19.9	79.6	2.5	50	20	140
Hexachlorocyclopentadiene	25.0	19.9	79.6	25.0	19.3	77.2	3.1	50	10	150
Hexachloroethane	25.0	19.6	78.4	25.0	19.5	78.0	0.5	50	14	120
Indeno(1,2,3-cd)pyrene	25.0	24.7	98.8	25.0	25.0	100	1.2	50	30	160
Isophorone	25.0	22.8	91.2	25.0	22.4	89.6	1.8	50	21	196
Naphthalene	25.0	21.2	84.8	25.0	21.0	84.0	0.9	50	21	133
Nitrobenzene	25.0	20.1	80.4	25.0	19.8	79.2	1.5	50	20	160
N-Nitrosodi-n-propylamine	25.0	20.8	83.2	25.0	20.5	82.0	1.5	38	30	160
N-Nitrosodiphenylamine	50.0	50.6	101	50.0	50.9	102	0.6	50	30	150
Pentachlorophenol	25.0	20.5	82.0	25.0	20.2	80.8	1.5	50	14	176
Phenanthrene	25.0	21.8	87.2	25.0	21.8	87.2	0.0	50	10	140
Phenol	25.0	21.5	86.0	25.0	21.9	87.6	1.8	42	40	132
Pyrene	25.0	21.5	86.0	25.0	21.3	85.2	0.9	38	30	150
Pyridine	50.0	32.9	65.8	50.0	33.3	66.6	1.2	50	10	150
2-Methylphenol	25.0	20.8	83.2	25.0	20.9	83.6	0.5	50	30	160

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Quality Control Report

Conoco Phillips

COP Wingate

Analysis: Semivolatile Organics by Method 8270C **WorkOrder:** 09061178
Method: SW8270C **Lab Batch ID:** 91487

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

RunID: J_090629B-5090852 Units: ug/L
Analysis Date: 06/29/2009 10:15 Analyst: S_G
Preparation Date: 06/26/2009 12:28 Prep By: N_M Method: SW3510C

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
3 & 4-Methylphenol	25.0	21.2	84.8	25.0	21.7	86.8	2.3	50	10	160
Surr: 2,4,6-Tribromophenol	75.0	67.8	90.4	75.0	68.9	91.9	1.6	30	10	123
Surr: 2-Fluorobiphenyl	50.0	41.1	82.2	50.0	42.2	84.4	2.6	30	23	116
Surr: 2-Fluorophenol	75.0	59.1	78.8	75.0	59.3	79.1	0.3	30	16	110
Surr: Nitrobenzene-d5	50.0	38.9	77.8	50.0	39.3	78.6	1.0	30	21	114
Surr: Phenol-d5	75.0	60.7	80.9	75.0	61.8	82.4	1.8	30	10	110
Surr: Terphenyl-d14	50.0	42.5	85.0	50.0	41.2	82.4	3.1	30	22	141

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Quality Control Report

Conoco Phillips

COP Wingate

Analysis: Volatile Organics by Method 8260B **WorkOrder:** 09061178
Method: SW8260B **Lab Batch ID:** R276914

Method Blank

RunID: Q_090629A-5092157 Units: ug/L
Analysis Date: 06/29/2009 18:41 Analyst: JC

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	91.5	78-116
Surr: 4-Bromofluorobenzene	95.9	74-125
Surr: Toluene-d8	94.7	82-118

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
09061178-01A	WMW-1
09061178-02A	WMW-5
09061178-03A	WMW-4
09061178-04A	WMW-7

Laboratory Control Sample (LCS)

RunID: Q_090629A-5092156 Units: ug/L
Analysis Date: 06/29/2009 18:13 Analyst: JC

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Benzene	20.0	19.1	95.5	74	123
Ethylbenzene	20.0	22.0	110	72	127
Toluene	20.0	19.7	98.7	74	126
m,p-Xylene	40.0	45.7	114	71	129
o-Xylene	20.0	22.7	113	74	130
Xylenes,Total	60.0	68.4	114	71	130
Surr: 1,2-Dichloroethane-d4	50.0	45.1	90.2	78	116
Surr: 4-Bromofluorobenzene	50.0	51.4	103	74	125
Surr: Toluene-d8	50.0	49	98.0	82	118

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

Sample Spiked: 09061336-01
RunID: Q_090629A-5092159 Units: ug/L
Analysis Date: 06/29/2009 19:35 Analyst: JC

Qualifiers:

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B/V - Analyte detected in the associated Method Blank
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E - Estimated Value exceeds calibration curve
MI - Matrix Interference
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Quality Control Report

Conoco Phillips

COP Wingate

Analysis: Volatile Organics by Method 8260B **WorkOrder:** 09061178
Method: SW8260B **Lab Batch ID:** R276914

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	1000	830	83.0	1000	843	84.3	1.51	22	70	124
Ethylbenzene	ND	1000	949	94.9	1000	964	96.4	1.54	20	76	122
Toluene	ND	1000	857	85.7	1000	881	88.1	2.68	24	80	117
m,p-Xylene	ND	2000	2000	100	2000	1980	99.0	1.09	20	69	127
o-Xylene	ND	1000	1010	101	1000	1030	103	1.33	20	84	114
Xylenes,Total	ND	3000	3010	100	3000	3010	100	0.273	20	69	127
Surr: 1,2-Dichloroethane-d4	ND	2500	2110	84.6	2500	2270	90.8	7.12	30	78	116
Surr: 4-Bromofluorobenzene	ND	2500	2530	101	2500	2560	103	1.30	30	74	125
Surr: Toluene-d8	ND	2500	2360	94.4	2500	2350	94.1	0.232	30	82	118

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Quality Control Report

Conoco Phillips

COP Wingate

Analysis: pH
Method: SM4500-H B

WorkOrder: 09061178
Lab Batch ID: R276295

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
09061178-01C	WMW-1
09061178-02C	WMW-5
09061178-03C	WMW-4
09061178-04C	WMW-7

Laboratory Control Sample (LCS)

RunID: WET_090623N-5081443 Units: pH Units
Analysis Date: 06/23/2009 14:00 Analyst: S_H

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
pH	7.000	7.030	100.4	98	102

Sample Duplicate

Original Sample: 09061180-01
RunID: WET_090623N-5081447 Units: pH Units
Analysis Date: 06/23/2009 14:00 Analyst: S_H

Analyte	Sample Result	DUP Result	RPD	RPD Limit
pH	7.14	7.13	0.140	5
Temperature (oC)	25	25	0	5

Qualifiers:

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MI - Matrix Interference
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Quality Control Report

Conoco Phillips

COP Wingate

Analysis: Total Dissolved Solids
Method: E160.1

WorkOrder: 09061178
Lab Batch ID: R276307

Method Blank

RunID: WET_090623R-5081771 Units: mg/L
Analysis Date: 06/23/2009 16:00 Analyst: CFS

Analyte	Result	Rep Limit
Total Dissolved Solids (Residue,Filterable)	ND	10

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
09061178-01C	WMW-1
09061178-02C	WMW-5
09061178-03C	WMW-4
09061178-04C	WMW-7

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

RunID: WET_090623R-5081773 Units: mg/L
Analysis Date: 06/23/2009 16:00 Analyst: CFS

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Total Dissolved Solids (Residue,Filterabl	200.0	202.0	101.0	200.0	198.0	99.00	2.0	10	95	107

Sample Duplicate

Original Sample: 09061178-01
RunID: WET_090623R-5081775 Units: mg/L
Analysis Date: 06/23/2009 16:00 Analyst: CFS

Analyte	Sample Result	DUP Result	RPD	RPD Limit
Total Dissolved Solids (Residue,Filterabl	4560	4564	0.0877	10

Qualifiers:

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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
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Quality Control Report

Conoco Phillips

COP Wingate

Analysis: Nitrate Nitrogen (as N), Total
Method: SM4500-NO3 F

WorkOrder: 09061178
Lab Batch ID: R276343

Method Blank

RunID: WET_090623X-5082309 Units: mg/L
Analysis Date: 06/23/2009 18:30 Analyst: ESK

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

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
09061178-01D	WMW-1
09061178-02D	WMW-5
09061178-03D	WMW-4
09061178-04D	WMW-7

Laboratory Control Sample (LCS)

RunID: WET_090623X-5082310 Units: mg/L
Analysis Date: 06/23/2009 18:30 Analyst: ESK

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Nitrogen, Nitrate (As N)	5.00	5.22	104	90	110

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

Sample Spiked: 09060957-01
RunID: WET_090623X-5082318 Units: mg/L
Analysis Date: 06/23/2009 18:30 Analyst: ESK

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Nitrogen, Nitrate (As N)	9.05	5	14.9	116 *	5	14.9	116 *	0.0606	20	90	110

Qualifiers:

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B/V - Analyte detected in the associated Method Blank
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E - Estimated Value exceeds calibration curve
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Quality Control Report

Conoco Phillips

COP Wingate

Analysis: Alkalinity (as CaCO3), Total
Method: E310.1

WorkOrder: 09061178
Lab Batch ID: R276410

Method Blank

RunID: WET_090624W-5083338 Units: mg/L
Analysis Date: 06/24/2009 17:00 Analyst: PAC

Analyte	Result	Rep Limit
Alkalinity, Total (As CaCO3)	ND	2.0

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
09061178-01C	WMW-1
09061178-02C	WMW-5
09061178-03C	WMW-4
09061178-04C	WMW-7

Laboratory Control Sample (LCS)

RunID: WET_090624W-5083340 Units: mg/L
Analysis Date: 06/24/2009 17:00 Analyst: PAC

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Alkalinity, Total (As CaCO3)	38.70	37.00	95.61	90	110

Sample Duplicate

Original Sample: 09060943-01
RunID: WET_090624W-5083341 Units: mg/L
Analysis Date: 06/24/2009 17:00 Analyst: PAC

Analyte	Sample Result	DUP Result	RPD	RPD Limit
Alkalinity, Total (As CaCO3)	449	449	0	20

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.

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

Quality Control Report

Conoco Phillips

COP Wingate

Analysis: Ion Chromatography **WorkOrder:** 09061178
Method: E300.0 **Lab Batch ID:** R276654

Method Blank

RunID: IC2_090626A-5087226 Units: mg/L
Analysis Date: 06/26/2009 16:05 Analyst: BDG

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
09061178-04D	WMW-7

Analyte	Result	Rep Limit
Chloride	ND	0.50
Sulfate	ND	0.50

Laboratory Control 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
Chloride	10.00	9.233	92.33	85	115
Sulfate	10.00	9.926	99.26	85	115

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

Sample Spiked: 09061178-04
RunID: IC2_090626A-5087247 Units: mg/L
Analysis Date: 06/27/2009 1:11 Analyst: BDG

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Chloride	80.35	1000	973.9	89.36	1000	987.9	90.75	1.424	20	80	120
Sulfate	438.6	1000	1416	97.70	1000	1424	98.55	0.5973	20	80	120

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.

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

Quality Control Report

Conoco Phillips

COP Wingate

Analysis: Ion Chromatography
Method: E300.0

WorkOrder: 09061178
Lab Batch ID: R276654A

Method Blank

RunID: IC2_090626A-5087226 Units: mg/L
Analysis Date: 06/26/2009 16:05 Analyst: BDG

Analyte	Result	Rep Limit
Chloride	ND	0.50
Sulfate	ND	0.50

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
09061178-01D	WMW-1
09061178-02D	WMW-5
09061178-03D	WMW-4

Laboratory Control 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
Chloride	10.00	9.233	92.33	85	115
Sulfate	10.00	9.926	99.26	85	115

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

Sample Spiked: 09061274-01
RunID: IC2_090626A-5087239 Units: mg/L
Analysis Date: 06/26/2009 22:37 Analyst: BDG

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Chloride	ND	10	8.974	89.74	10	8.832	88.32	1.595	20	80	120
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
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.

Sample Receipt Checklist

And

Chain of Custody

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

Sample Receipt Checklist

Workorder:	**09061178**	Received By:	**CAW**
Date and Time Received:	**6/23/2009 9:30:00 AM**	Carrier name:	**Fedex-Priority**
Temperature:	**1.4°C**	Chilled by:	**Water Ice**

1. **Shipping container/cooler in good condition?** 867026830533 1.4 c, 867026830544 2.0 c	Yes ☑	No ☐	Not Present ☐	
2. **Custody seals intact on shippping container/cooler?**	Yes ☑	No ☐	Not Present ☐	
3. **Custody seals intact on sample bottles?**	Yes ☐	No ☐	Not Present ☑	
4. **Chain of custody present?**	Yes ☑	No ☐		
5. **Chain of custody signed when relinquished and received?**	Yes ☑	No ☐		
6. **Chain of custody agrees with sample labels?**	Yes ☑	No ☐		
7. **Samples in proper container/bottle?**	Yes ☑	No ☐		
8. **Sample containers intact?**	Yes ☑	No ☐		
9. **Sufficient sample volume for indicated test?**	Yes ☑	No ☐		
10. **All samples received within holding time?**	Yes ☑	No ☐		
11. **Container/Temp Blank temperature in compliance?**	Yes ☑	No ☐		
12. **Water - VOA vials have zero headspace?**	Yes ☑	No ☐	VOA Vials Not Present ☐	
13. **Water - Preservation checked upon receipt (except VOA*)?**	Yes ☑	No ☐	Not Applicable ☐	

***VOA Preservation Checked After Sample Analysis**

SPL Representative: _____ **Contact Date & Time:** _____

Client Name Contacted: _____

Non Conformance Issues: _____

Client Instructions: _____

Chain of Custody Record

Client: Tetra Tech/ Conoco Phillips

SPL Workorder Number: 0906l178

Attention: Kelly Blandchard/Tetra Tech

Phone: 505-237-8440 | email: kelly.blanchard@tetratech.c

Address: 6121 Indian School Road, NE Ste. 200

City: Albuquerque | State: NM | Zip Code: 87110

Project Name: Wingate Fractionating Plant

P.O. Number:

Sampled By: signature Christine Matteros print

Sample ID	Collected Date	Collected Time	Sample Type Comp	Sample Type Grab	Matrix Water	Matrix Soil	Bottle Type	Preservative Type	# of Containers	Requested Analysis: 8260-Voc TCL	8260-BTEX ONLY	8270-SVOC TCL	TDS, pH, Alk.	Chl, SO4, Nitrate	Coliform	COD	BOD	12 Metals-6020/6010
WMW-1	6/22/09	1030		X	X		1	3	3	X								
WMW-1	6/22/09	1030		X	X		3	1	2				X	X				
WMW-1	6/22/09	1030		X	X		4	1	2			X						
WMW-1	6/22/09	1030		X	X		3	2	1									X
WMW-5	6/22/09	1130		X	X		1	3	3	X								
WMW-5	6/22/09	1130		X	X		3	1	2				X	X				
WMW-5	6/22/09	1130		X	X		4	1	2			X						
WMW-5	6/22/09	1130		X	X		3	2	1									X
WMW-4	6/22/09	1305		X	X		1	3	3	X								
WMW-4	6/22/09	1305		X	X		3	1	2				X	X				

Turnaround Time Requirements
24 hr( ) 48 hr( )
72 hr( ) 5 wday( )
10 wday - Standard( )

Remarks:

Intact? (Y) or N

Temperature: 3.0°C

Bottle Types: 1: 3/40ml Vials 2. 1L Glass 3. 1L Plastic 4. 1L Amber Glass 5. 8oz Plastic

Preservative Types: 1: NONE 2. HNO3 3. HCL 4. H2SO4

	Date	Time	
Relinquished by Sampler: Christine Matteros	6-22-09	1600	Received by:
Relinquished by:	Date	Time	Received by:
Relinquished by:	Date 6/23/09	Time 0930	Received by SPL, Inc.

2 of 2

Chain of Custody Record

Client: Tetra Tech/ Conoco Phillips

SPL Workorder Number: 0906l178

Attention: Kelly Blandchard/Tetra Tech

Phone: 505-237-8440 | email: kelly.blanchard@tetratech.c

Address: 6121 Indian School Road, NE Ste. 200

City: Albuquerque | State: NM | Zip Code: 87110

Project Name: Wingate Fractionating Plant

P.O. Number:

Sampled By: Christine Mathews

signature: Christine Mathews print

Sample ID	Collected Date	Collected Time	Sample Type Comp	Sample Type Grab	Matrix Water	Matrix Soil	Bottle Type	Preservative Type	# of Containers	Requested Analysis: 8260-Voc TCL	8260-BTEX ONLY	8270-SVOC TCL	TDS, pH, Alk.	Chl, SO4, Nitrate	Coliform	COD	BOD	12 Metals-6020/6010
WMW-4	6/22/09	1305		X	X		4	1	2			X						
WMW-4	6/22/09	1305		X	X		3	2	1									X
WMW-7	6/22/09	1425		X	X		1	3	3	X								
WMW-7	6/22/09	1425		X	X		3	1	2				X	X				
WMW-7	6/22/09	1425		X	X		4	1	2			X						
WMW-7	6/22/09	1425		X	X		3	2	1									X

Turnaround Time Requirements

24 hr( ) 48 hr( )

72 hr( ) 5 wday( )

10 wday - Standard( )

Remarks:

Intact? (Y) or N

Temperature: 2.0°C

Bottle Types: 1: 3/40ml Vials 2. 1L Glass 3. 1L Plastic 4. 1L Amber Glass 5. 8oz Plastic

Preservative Types: 1: NONE 2. HNO3 3. HCL 4. H2SO4

	Date	Time	
Relinquished by Sampler: Christine Mathews	6-22-09	1600	Received by:
Relinquished by:	Date	Time	Received by:
Relinquished by:	Date 6/23/09	Time 0930	Received by SPL, Inc.

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

Conoco Phillips

Certificate of Analysis Number:

09061339

Report To:		Project Name:	COP Wingate
Tetra Tech, Inc.		Site:	Gallup, NM
Kelly Blanchard		Site Address:	
6121 Indian School Road, N.E.			
Suite 200		PO Number:	4511799321
Albuquerque		State:	New Mexico
NM		State Cert. No.:	
87110-		Date Reported:	7/11/2009
ph: (505) 237-8440	fax:		

This Report Contains A Total Of 61 Pages

Excluding This Page, Chain Of Custody

And

Any Attachments

7/11/2009

Date

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

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

Case Narrative for:

Conoco Phillips

Certificate of Analysis Number:

09061339

Report To:		Project Name:	COP Wingate
Tetra Tech, Inc.		Site:	Gallup, NM
Kelly Blanchard		Site Address:	
6121 Indian School Road, N.E.			
Suite 200		PO Number:	4511799321
Albuquerque		State:	New Mexico
NM		State Cert. No.:	
87110-		Date Reported:	7/11/2009
ph: (505) 237-8440	fax:		

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.

All samples were received expired for Total Coliform. Client is aware of the holding time and request SPL to perform the analysis.

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.

Semivolatile Organics (8270):

Due to limited sample volume, a Matrix Spike (MS) or Matrix Spike Duplicate (MSD) was not extracted with Batch ID: 91487 for the Semivolatile Organics analysis by SW846 Method 8270C. A Laboratory Control Sample (LCS) and a Laboratory Control Sample Duplicate (LCSD) were extracted with the analytical batch and serve as the batch quality control (QC). The LCS and LCSD recovered acceptably and precision criteria were met.

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 Method Blank (MB) are processed with the samples 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.

Erica Cardenas
Project Manager

Date

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

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

Case Narrative for:

Conoco Phillips

Certificate of Analysis Number:

09061339

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.

Erica Cardenas

Erica Cardenas
Project Manager

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

7/11/2009
Date

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

Conoco Phillips

Certificate of Analysis Number:

09061339

Report To: Tetra Tech, Inc.
Kelly Blanchard
6121 Indian School Road, N.E.
Suite 200
Albuquerque
NM
87110-
ph: (505) 237-8440 fax: (505) 881-3283

Fax To:

Project Name: COP Wingate
Site: Gallup, NM
Site Address:

PO Number: 4511799321
State: New Mexico
State Cert. No.:
Date Reported: 7/11/2009

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
MWR-1	09061339-01	Water	6/24/2009 9:40:00 AM	6/25/2009 9:15:00 AM	327819	☐
MWR-1	09061339-01	Water	6/24/2009 9:40:00 AM	6/25/2009 9:15:00 AM	819, 327820,327	☐
WMW-3	09061339-02	Water	6/24/2009 10:55:00 AM	6/25/2009 9:15:00 AM		☐
WMW-2	09061339-03	Water	6/24/2009 12:10:00 PM	6/25/2009 9:15:00 AM		☐
WMW-2	09061339-03	Water	6/24/2009 12:10:00 PM	6/25/2009 9:15:00 AM	819, 327820,327	☐
Pond 1 (East)	09061339-04	Water	6/24/2009 8:40:00 AM	6/25/2009 9:15:00 AM		☐
Pond 1 (East)	09061339-04	Water	6/24/2009 8:40:00 AM	6/25/2009 9:15:00 AM	819, 327820,327	☐
Pond 2 (West)	09061339-05	Water	6/24/2009 9:35:00 AM	6/25/2009 9:15:00 AM		☐
Pond 2 (West)	09061339-05	Water	6/24/2009 9:35:00 AM	6/25/2009 9:15:00 AM	819, 327820,327	☐
Duplicate	09061339-06	Water	6/24/2009 9:30:00 AM	6/25/2009 9:15:00 AM		☐
Trip Blank (SPL Prepared)	09061339-07	Water	6/24/2009	6/25/2009 9:15:00 AM		☐

E Cardenas

7/11/2009

Erica Cardenas
Project Manager

Date

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

Ted Yen
Quality Assurance Officer

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

Client Sample ID: MWR-1 **Collected:** 06/24/2009 9:40 **SPL Sample ID:** 09061339-01

Site: Gallup, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
ALKALINITY (AS CACO3), TOTAL				**MCL**	**E310.1**	**Units: mg/L**	
Alkalinity, Total (As CaCO3)	600		2	1	06/30/09 18:00	PAC	5094590
BIOCHEMICAL OXYGEN DEMAND - 5 DAYS				**MCL**	**SM5210 B**	**Units: mg/L**	
Biochemical Oxygen Demand	2.87		2	1	06/25/09 14:00	S_H	5092618
CHEMICAL OXYGEN DEMAND				**MCL**	**SM5220 C**	**Units: mg/L**	
Chemical Oxygen Demand	17.5		3	1	06/26/09 10:30	PAC	5086235
ION CHROMATOGRAPHY				**MCL**	**E300.0**	**Units: mg/L**	
Chloride	25.2		2.5	5	06/27/09 13:24	BDG	5088437
Sulfate	39.9		2.5	5	06/27/09 13:24	BDG	5088437
Nitrogen,Nitrate (As N)	ND		0.5	1	06/25/09 21:50	BDG	5088578
MERCURY, TOTAL				**MCL**	**SW7470A**	**Units: mg/L**	
Mercury	ND		0.0002	1	07/02/09 14:43	F_S	5097646

Prep Method	Prep Date	Prep Initials	Prep Factor
SW7470A	07/02/2009 10:15	F_S	1.00

METALS BY METHOD 6010B, TOTAL				**MCL**	**SW6010B**	**Units: mg/L**	
Calcium	19.7		0.1	1	07/04/09 17:00	EG	5101734
Iron	9.07		0.02	1	07/04/09 17:00	EG	5101734
Magnesium	7.89		0.1	1	07/04/09 17:00	EG	5101734
Sodium	332		1	10	07/05/09 14:04	EG	5101421

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	06/27/2009 13:30	AB1	1.00

METALS BY METHOD 6020A, TOTAL				**MCL**	**SW6020A**	**Units: mg/L**	
Arsenic	ND		0.005	1	07/03/09 1:06	AL_H	5098294
Barium	0.488		0.005	1	07/03/09 1:06	AL_H	5098294
Cadmium	ND		0.005	1	07/04/09 1:35	AL_H	5102030
Chromium	0.00666		0.005	1	07/03/09 1:06	AL_H	5098294
Lead	ND		0.005	1	07/03/09 1:06	AL_H	5098294
Manganese	0.577		0.005	1	07/03/09 1:06	AL_H	5098294
Selenium	ND		0.005	1	07/04/09 6:51	AL_H	5101296
Silver	ND		0.005	1	07/03/09 1:06	AL_H	5098294

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	06/27/2009 13:30	AB1	1.00

PH				**MCL**	**SM4500-H B**	**Units: pH Units**	
pH	7.96		0.1	1	06/25/09 14:00	PAC	5084672

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

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

Client Sample ID: MWR-1 **Collected:** 06/24/2009 9:40 **SPL Sample ID:** 09061339-01

Site: Gallup, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
SEMIVOLATILE ORGANICS BY METHOD 8270C			**MCL**	**SW8270C**	**Units: ug/L**		
1,2,4-Trichlorobenzene	ND		5	1	06/29/09 16:41	S_G	5092144
1,2-Dichlorobenzene	ND		5	1	06/29/09 16:41	S_G	5092144
1,2-Diphenylhydrazine	ND		10	1	06/29/09 16:41	S_G	5092144
1,3-Dichlorobenzene	ND		5	1	06/29/09 16:41	S_G	5092144
1,4-Dichlorobenzene	ND		5	1	06/29/09 16:41	S_G	5092144
2,4,5-Trichlorophenol	ND		10	1	06/29/09 16:41	S_G	5092144
2,4,6-Trichlorophenol	ND		5	1	06/29/09 16:41	S_G	5092144
2,4-Dichlorophenol	ND		5	1	06/29/09 16:41	S_G	5092144
2,4-Dimethylphenol	ND		5	1	06/29/09 16:41	S_G	5092144
2,4-Dinitrophenol	ND		25	1	06/29/09 16:41	S_G	5092144
2,4-Dinitrotoluene	ND		5	1	06/29/09 16:41	S_G	5092144
2,6-Dinitrotoluene	ND		5	1	06/29/09 16:41	S_G	5092144
2-Chloronaphthalene	ND		5	1	06/29/09 16:41	S_G	5092144
2-Chlorophenol	ND		5	1	06/29/09 16:41	S_G	5092144
2-Methylnaphthalene	ND		5	1	06/29/09 16:41	S_G	5092144
2-Nitroaniline	ND		25	1	06/29/09 16:41	S_G	5092144
2-Nitrophenol	ND		5	1	06/29/09 16:41	S_G	5092144
3,3'-Dichlorobenzidine	ND		10	1	06/29/09 16:41	S_G	5092144
3-Nitroaniline	ND		25	1	06/29/09 16:41	S_G	5092144
4,6-Dinitro-2-methylphenol	ND		25	1	06/29/09 16:41	S_G	5092144
4-Bromophenyl phenyl ether	ND		5	1	06/29/09 16:41	S_G	5092144
4-Chloro-3-methylphenol	ND		5	1	06/29/09 16:41	S_G	5092144
4-Chloroaniline	ND		5	1	06/29/09 16:41	S_G	5092144
4-Chlorophenyl phenyl ether	ND		5	1	06/29/09 16:41	S_G	5092144
4-Nitroaniline	ND		25	1	06/29/09 16:41	S_G	5092144
4-Nitrophenol	ND		25	1	06/29/09 16:41	S_G	5092144
Acenaphthene	ND		5	1	06/29/09 16:41	S_G	5092144
Acenaphthylene	ND		5	1	06/29/09 16:41	S_G	5092144
Aniline	ND		5	1	06/29/09 16:41	S_G	5092144
Anthracene	ND		5	1	06/29/09 16:41	S_G	5092144
Benz(a)anthracene	ND		5	1	06/29/09 16:41	S_G	5092144
Benzo(a)pyrene	ND		5	1	06/29/09 16:41	S_G	5092144
Benzo(b)fluoranthene	ND		5	1	06/29/09 16:41	S_G	5092144
Benzo(g,h,i)perylene	ND		5	1	06/29/09 16:41	S_G	5092144
Benzo(k)fluoranthene	ND		5	1	06/29/09 16:41	S_G	5092144
Benzoic acid	ND		25	1	06/29/09 16:41	S_G	5092144
Benzyl alcohol	ND		5	1	06/29/09 16:41	S_G	5092144
Bis(2-chloroethoxy)methane	ND		5	1	06/29/09 16:41	S_G	5092144
Bis(2-chloroethyl)ether	ND		5	1	06/29/09 16:41	S_G	5092144

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

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

Client Sample ID: MWR-1 **Collected:** 06/24/2009 9:40 **SPL Sample ID:** 09061339-01

Site: Gallup, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
Bis(2-chloroisopropyl)ether	ND		5	1	06/29/09 16:41	S_G	5092144
Bis(2-ethylhexyl)phthalate	ND		5	1	06/29/09 16:41	S_G	5092144
Butyl benzyl phthalate	ND		5	1	06/29/09 16:41	S_G	5092144
Carbazole	ND		5	1	06/29/09 16:41	S_G	5092144
Chrysene	ND		5	1	06/29/09 16:41	S_G	5092144
Dibenz(a,h)anthracene	ND		5	1	06/29/09 16:41	S_G	5092144
Dibenzofuran	ND		5	1	06/29/09 16:41	S_G	5092144
Diethyl phthalate	ND		5	1	06/29/09 16:41	S_G	5092144
Dimethyl phthalate	ND		5	1	06/29/09 16:41	S_G	5092144
Di-n-butyl phthalate	ND		5	1	06/29/09 16:41	S_G	5092144
Di-n-octyl phthalate	ND		5	1	06/29/09 16:41	S_G	5092144
Fluoranthene	ND		5	1	06/29/09 16:41	S_G	5092144
Fluorene	ND		5	1	06/29/09 16:41	S_G	5092144
Hexachlorobenzene	ND		5	1	06/29/09 16:41	S_G	5092144
Hexachlorobutadiene	ND		5	1	06/29/09 16:41	S_G	5092144
Hexachlorocyclopentadiene	ND		5	1	06/29/09 16:41	S_G	5092144
Hexachloroethane	ND		5	1	06/29/09 16:41	S_G	5092144
Indeno(1,2,3-cd)pyrene	ND		5	1	06/29/09 16:41	S_G	5092144
Isophorone	ND		5	1	06/29/09 16:41	S_G	5092144
Naphthalene	ND		5	1	06/29/09 16:41	S_G	5092144
Nitrobenzene	ND		5	1	06/29/09 16:41	S_G	5092144
N-Nitrosodi-n-propylamine	ND		5	1	06/29/09 16:41	S_G	5092144
N-Nitrosodiphenylamine	ND		5	1	06/29/09 16:41	S_G	5092144
Pentachlorophenol	ND		25	1	06/29/09 16:41	S_G	5092144
Phenanthrene	ND		5	1	06/29/09 16:41	S_G	5092144
Phenol	ND		5	1	06/29/09 16:41	S_G	5092144
Pyrene	ND		5	1	06/29/09 16:41	S_G	5092144
Pyridine	ND		5	1	06/29/09 16:41	S_G	5092144
2-Methylphenol	ND		5	1	06/29/09 16:41	S_G	5092144
3 & 4-Methylphenol	15		5	1	06/29/09 16:41	S_G	5092144
Surr: 2,4,6-Tribromophenol	81.7		% 10-123	1	06/29/09 16:41	S_G	5092144
Surr: 2-Fluorobiphenyl	86.8		% 23-116	1	06/29/09 16:41	S_G	5092144
Surr: 2-Fluorophenol	60.8		% 16-110	1	06/29/09 16:41	S_G	5092144
Surr: Nitrobenzene-d5	78.6		% 21-114	1	06/29/09 16:41	S_G	5092144
Surr: Phenol-d5	52.8		% 10-110	1	06/29/09 16:41	S_G	5092144
Surr: Terphenyl-d14	71.2		% 22-141	1	06/29/09 16:41	S_G	5092144

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3510C	06/26/2009 12:28	N_M	1.00

Qualifiers:

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J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

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

Client Sample ID: MWR-1 **Collected:** 06/24/2009 9:40 **SPL Sample ID:** 09061339-01

Site: Gallup, NM

Analyses/Method	Result	QUAL	Rep.Limit		Dil. Factor	Date Analyzed	Analyst	Seq. #
TOTAL COLIFORMS				**MCL**	**M9222 B**	**Units: colonies/100**		
Coliform, Total	10		2		2	06/25/09 13:30	S_H	5086700
TOTAL DISSOLVED SOLIDS				**MCL**	**E160.1**	**Units: mg/L**		
Total Dissolved Solids (Residue,Filterable)	793		10		1	06/25/09 15:00	BDG	5085798
VOLATILE ORGANICS BY METHOD 8260B				**MCL**	**SW8260B**	**Units: ug/L**		
Benzene	ND		5		1	06/29/09 22:18	JC	5092165
Ethylbenzene	ND		5		1	06/29/09 22:18	JC	5092165
Toluene	ND		5		1	06/29/09 22:18	JC	5092165
m,p-Xylene	ND		5		1	06/29/09 22:18	JC	5092165
o-Xylene	ND		5		1	06/29/09 22:18	JC	5092165
Xylenes,Total	ND		5		1	06/29/09 22:18	JC	5092165
Surr: 1,2-Dichloroethane-d4	90.0		%	78-116	1	06/29/09 22:18	JC	5092165
Surr: 4-Bromofluorobenzene	97.3		%	74-125	1	06/29/09 22:18	JC	5092165
Surr: Toluene-d8	92.0		%	82-118	1	06/29/09 22:18	JC	5092165

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E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

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

Client Sample ID: WMW-3 **Collected:** 06/24/2009 10:55 **SPL Sample ID:** 09061339-02

Site: Gallup, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
ALKALINITY (AS CACO3), TOTAL				**MCL**	**E310.1**	**Units: mg/L**	
Alkalinity, Total (As CaCO3)	1410		2	1	06/30/09 18:00	PAC	5094591
ION CHROMATOGRAPHY				**MCL**	**E300.0**	**Units: mg/L**	
Chloride	677		100	200	06/27/09 13:41	BDG	5088438
Sulfate	1370		100	200	06/27/09 13:41	BDG	5088438
Nitrogen,Nitrate (As N)	0.716		0.5	1	06/25/09 22:09	BDG	5088579
MERCURY, TOTAL				**MCL**	**SW7470A**	**Units: mg/L**	
Mercury	ND		0.0002	1	07/02/09 14:46	F_S	5097647

Prep Method	Prep Date	Prep Initials	Prep Factor
SW7470A	07/02/2009 10:15	F_S	1.00

METALS BY METHOD 6010B, TOTAL				**MCL**	**SW6010B**	**Units: mg/L**	
Arsenic	0.0166		0.005	1	07/04/09 17:05	EG	5101735
Calcium	400		1	10	07/04/09 15:33	EG	5101723
Iron	4.3		0.02	1	07/04/09 17:05	EG	5101735
Magnesium	57.4		0.1	1	07/04/09 17:05	EG	5101735
Selenium	ND		0.01	1	07/04/09 17:05	EG	5101735
Sodium	1710		2	20	07/05/09 14:08	EG	5101422

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	06/27/2009 13:30	AB1	1.00

METALS BY METHOD 6020A, TOTAL				**MCL**	**SW6020A**	**Units: mg/L**	
Barium	0.265		0.005	1	07/03/09 1:12	AL_H	5098295
Cadmium	ND		0.005	1	07/04/09 1:40	AL_H	5102031
Chromium	0.0154		0.005	1	07/03/09 1:12	AL_H	5098295
Lead	0.0568		0.005	1	07/03/09 1:12	AL_H	5098295
Manganese	3.35		0.25	50	07/06/09 13:59	S_C	5102945
Silver	ND		0.005	1	07/03/09 1:12	AL_H	5098295

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	06/27/2009 13:30	AB1	1.00

PH				**MCL**	**SM4500-H B**	**Units: pH Units**	
pH	7.65		0.1	1	06/25/09 14:00	PAC	5084673

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TNTC - Too numerous to count
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HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: WMW-3 **Collected:** 06/24/2009 10:55 **SPL Sample ID:** 09061339-02

Site: Gallup, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
SEMIVOLATILE ORGANICS BY METHOD 8270C			**MCL**	**SW8270C**	**Units: ug/L**		
1,2,4-Trichlorobenzene	ND		5	1	06/29/09 17:25	S_G	5092145
1,2-Dichlorobenzene	ND		5	1	06/29/09 17:25	S_G	5092145
1,2-Diphenylhydrazine	ND		10	1	06/29/09 17:25	S_G	5092145
1,3-Dichlorobenzene	ND		5	1	06/29/09 17:25	S_G	5092145
1,4-Dichlorobenzene	ND		5	1	06/29/09 17:25	S_G	5092145
2,4,5-Trichlorophenol	ND		10	1	06/29/09 17:25	S_G	5092145
2,4,6-Trichlorophenol	ND		5	1	06/29/09 17:25	S_G	5092145
2,4-Dichlorophenol	ND		5	1	06/29/09 17:25	S_G	5092145
2,4-Dimethylphenol	ND		5	1	06/29/09 17:25	S_G	5092145
2,4-Dinitrophenol	ND		25	1	06/29/09 17:25	S_G	5092145
2,4-Dinitrotoluene	ND		5	1	06/29/09 17:25	S_G	5092145
2,6-Dinitrotoluene	ND		5	1	06/29/09 17:25	S_G	5092145
2-Chloronaphthalene	ND		5	1	06/29/09 17:25	S_G	5092145
2-Chlorophenol	ND		5	1	06/29/09 17:25	S_G	5092145
2-Methylnaphthalene	ND		5	1	06/29/09 17:25	S_G	5092145
2-Nitroaniline	ND		25	1	06/29/09 17:25	S_G	5092145
2-Nitrophenol	ND		5	1	06/29/09 17:25	S_G	5092145
3,3'-Dichlorobenzidine	ND		10	1	06/29/09 17:25	S_G	5092145
3-Nitroaniline	ND		25	1	06/29/09 17:25	S_G	5092145
4,6-Dinitro-2-methylphenol	ND		25	1	06/29/09 17:25	S_G	5092145
4-Bromophenyl phenyl ether	ND		5	1	06/29/09 17:25	S_G	5092145
4-Chloro-3-methylphenol	ND		5	1	06/29/09 17:25	S_G	5092145
4-Chloroaniline	ND		5	1	06/29/09 17:25	S_G	5092145
4-Chlorophenyl phenyl ether	ND		5	1	06/29/09 17:25	S_G	5092145
4-Nitroaniline	ND		25	1	06/29/09 17:25	S_G	5092145
4-Nitrophenol	ND		25	1	06/29/09 17:25	S_G	5092145
Acenaphthene	ND		5	1	06/29/09 17:25	S_G	5092145
Acenaphthylene	ND		5	1	06/29/09 17:25	S_G	5092145
Aniline	ND		5	1	06/29/09 17:25	S_G	5092145
Anthracene	ND		5	1	06/29/09 17:25	S_G	5092145
Benz(a)anthracene	ND		5	1	06/29/09 17:25	S_G	5092145
Benzo(a)pyrene	ND		5	1	06/29/09 17:25	S_G	5092145
Benzo(b)fluoranthene	ND		5	1	06/29/09 17:25	S_G	5092145
Benzo(g,h,i)perylene	ND		5	1	06/29/09 17:25	S_G	5092145
Benzo(k)fluoranthene	ND		5	1	06/29/09 17:25	S_G	5092145
Benzoic acid	ND		25	1	06/29/09 17:25	S_G	5092145
Benzyl alcohol	ND		5	1	06/29/09 17:25	S_G	5092145
Bis(2-chloroethoxy)methane	ND		5	1	06/29/09 17:25	S_G	5092145
Bis(2-chloroethyl)ether	ND		5	1	06/29/09 17:25	S_G	5092145

Qualifiers:

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TNTC - Too numerous to count
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HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: WMW-3 **Collected:** 06/24/2009 10:55 **SPL Sample ID:** 09061339-02

Site: Gallup, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
Bis(2-chloroisopropyl)ether	ND		5	1	06/29/09 17:25	S_G	5092145
Bis(2-ethylhexyl)phthalate	ND		5	1	06/29/09 17:25	S_G	5092145
Butyl benzyl phthalate	ND		5	1	06/29/09 17:25	S_G	5092145
Carbazole	ND		5	1	06/29/09 17:25	S_G	5092145
Chrysene	ND		5	1	06/29/09 17:25	S_G	5092145
Dibenz(a,h)anthracene	ND		5	1	06/29/09 17:25	S_G	5092145
Dibenzofuran	ND		5	1	06/29/09 17:25	S_G	5092145
Diethyl phthalate	ND		5	1	06/29/09 17:25	S_G	5092145
Dimethyl phthalate	ND		5	1	06/29/09 17:25	S_G	5092145
Di-n-butyl phthalate	ND		5	1	06/29/09 17:25	S_G	5092145
Di-n-octyl phthalate	ND		5	1	06/29/09 17:25	S_G	5092145
Fluoranthene	ND		5	1	06/29/09 17:25	S_G	5092145
Fluorene	ND		5	1	06/29/09 17:25	S_G	5092145
Hexachlorobenzene	ND		5	1	06/29/09 17:25	S_G	5092145
Hexachlorobutadiene	ND		5	1	06/29/09 17:25	S_G	5092145
Hexachlorocyclopentadiene	ND		5	1	06/29/09 17:25	S_G	5092145
Hexachloroethane	ND		5	1	06/29/09 17:25	S_G	5092145
Indeno(1,2,3-cd)pyrene	ND		5	1	06/29/09 17:25	S_G	5092145
Isophorone	ND		5	1	06/29/09 17:25	S_G	5092145
Naphthalene	ND		5	1	06/29/09 17:25	S_G	5092145
Nitrobenzene	ND		5	1	06/29/09 17:25	S_G	5092145
N-Nitrosodi-n-propylamine	ND		5	1	06/29/09 17:25	S_G	5092145
N-Nitrosodiphenylamine	ND		5	1	06/29/09 17:25	S_G	5092145
Pentachlorophenol	ND		25	1	06/29/09 17:25	S_G	5092145
Phenanthrene	ND		5	1	06/29/09 17:25	S_G	5092145
Phenol	ND		5	1	06/29/09 17:25	S_G	5092145
Pyrene	ND		5	1	06/29/09 17:25	S_G	5092145
Pyridine	ND		5	1	06/29/09 17:25	S_G	5092145
2-Methylphenol	ND		5	1	06/29/09 17:25	S_G	5092145
3 & 4-Methylphenol	ND		5	1	06/29/09 17:25	S_G	5092145
Surr: 2,4,6-Tribromophenol	77.2		% 10-123	1	06/29/09 17:25	S_G	5092145
Surr: 2-Fluorobiphenyl	86.6		% 23-116	1	06/29/09 17:25	S_G	5092145
Surr: 2-Fluorophenol	46.3		% 16-110	1	06/29/09 17:25	S_G	5092145
Surr: Nitrobenzene-d5	81.6		% 21-114	1	06/29/09 17:25	S_G	5092145
Surr: Phenol-d5	38.4		% 10-110	1	06/29/09 17:25	S_G	5092145
Surr: Terphenyl-d14	46.2		% 22-141	1	06/29/09 17:25	S_G	5092145

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3510C	06/26/2009 12:28	N_M	1.00

Qualifiers:

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

Client Sample ID: WMW-3 **Collected:** 06/24/2009 10:55 **SPL Sample ID:** 09061339-02

Site: Gallup, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
TOTAL DISSOLVED SOLIDS			**MCL**	**E160.1**	**Units: mg/L**		
Total Dissolved Solids (Residue,Filterable)	3190		100	10	06/30/09 10:30	CFS	5097161
VOLATILE ORGANICS BY METHOD 8260B			**MCL**	**SW8260B**	**Units: ug/L**		
Benzene	ND		5	1	06/29/09 22:45	JC	5092166
Ethylbenzene	ND		5	1	06/29/09 22:45	JC	5092166
Toluene	ND		5	1	06/29/09 22:45	JC	5092166
m,p-Xylene	ND		5	1	06/29/09 22:45	JC	5092166
o-Xylene	ND		5	1	06/29/09 22:45	JC	5092166
Xylenes,Total	ND		5	1	06/29/09 22:45	JC	5092166
Surr: 1,2-Dichloroethane-d4	92.4		% 78-116	1	06/29/09 22:45	JC	5092166
Surr: 4-Bromofluorobenzene	96.9		% 74-125	1	06/29/09 22:45	JC	5092166
Surr: Toluene-d8	93.1		% 82-118	1	06/29/09 22:45	JC	5092166

Qualifiers:

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TNTC - Too numerous to count
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HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: WMW-2 **Collected:** 06/24/2009 12:10 **SPL Sample ID:** 09061339-03

Site: Gallup, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
ALKALINITY (AS CACO3), TOTAL				**MCL**	**E310.1**	**Units: mg/L**	
Alkalinity, Total (As CaCO3)	1530		2	1	06/30/09 18:00	PAC	5094592
ION CHROMATOGRAPHY				**MCL**	**E300.0**	**Units: mg/L**	
Chloride	502		50	100	06/27/09 13:57	BDG	5088439
Sulfate	15.8		0.5	1	06/29/09 12:30	BDG	5092299
Nitrogen,Nitrate (As N)	ND		0.5	1	06/25/09 22:29	BDG	5088580
MERCURY, TOTAL				**MCL**	**SW7470A**	**Units: mg/L**	
Mercury	ND		0.0002	1	07/02/09 14:49	F_S	5097648

Prep Method	Prep Date	Prep Initials	Prep Factor
SW7470A	07/02/2009 10:15	F_S	1.00

METALS BY METHOD 6010B, TOTAL				**MCL**	**SW6010B**	**Units: mg/L**	
Arsenic	ND		0.005	1	07/04/09 17:09	EG	5101737
Calcium	16.2		0.1	1	07/04/09 17:09	EG	5101737
Iron	0.482		0.02	1	07/04/09 17:09	EG	5101737
Magnesium	99.9		0.1	1	07/04/09 17:09	EG	5101737
Selenium	ND		0.01	1	07/04/09 17:09	EG	5101737
Sodium	1000		1	10	07/05/09 14:12	EG	5101423

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	06/27/2009 13:30	AB1	1.00

METALS BY METHOD 6020A, TOTAL				**MCL**	**SW6020A**	**Units: mg/L**	
Barium	0.11		0.005	1	07/03/09 1:18	AL_H	5098563
Cadmium	ND		0.005	1	07/04/09 1:44	AL_H	5102032
Chromium	0.00809		0.005	1	07/03/09 1:18	AL_H	5098563
Lead	ND		0.005	1	07/03/09 1:18	AL_H	5098563
Manganese	ND		0.25	50	07/06/09 14:04	S_C	5102946
Silver	ND		0.005	1	07/03/09 1:18	AL_H	5098563

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	06/27/2009 13:30	AB1	1.00

PH				**MCL**	**SM4500-H B**	**Units: pH Units**	
pH	9.59		0.1	1	06/25/09 14:00	PAC	5084674

Qualifiers:

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J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

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

Client Sample ID: WMW-2 **Collected:** 06/24/2009 12:10 **SPL Sample ID:** 09061339-03

Site: Gallup, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
SEMIVOLATILE ORGANICS BY METHOD 8270C			**MCL**	**SW8270C**	**Units: ug/L**		
1,2,4-Trichlorobenzene	ND		5	1	06/29/09 18:09	S_G	5092146
1,2-Dichlorobenzene	ND		5	1	06/29/09 18:09	S_G	5092146
1,2-Diphenylhydrazine	ND		10	1	06/29/09 18:09	S_G	5092146
1,3-Dichlorobenzene	ND		5	1	06/29/09 18:09	S_G	5092146
1,4-Dichlorobenzene	ND		5	1	06/29/09 18:09	S_G	5092146
2,4,5-Trichlorophenol	ND		10	1	06/29/09 18:09	S_G	5092146
2,4,6-Trichlorophenol	ND		5	1	06/29/09 18:09	S_G	5092146
2,4-Dichlorophenol	ND		5	1	06/29/09 18:09	S_G	5092146
2,4-Dimethylphenol	ND		5	1	06/29/09 18:09	S_G	5092146
2,4-Dinitrophenol	ND		25	1	06/29/09 18:09	S_G	5092146
2,4-Dinitrotoluene	ND		5	1	06/29/09 18:09	S_G	5092146
2,6-Dinitrotoluene	ND		5	1	06/29/09 18:09	S_G	5092146
2-Chloronaphthalene	ND		5	1	06/29/09 18:09	S_G	5092146
2-Chlorophenol	ND		5	1	06/29/09 18:09	S_G	5092146
2-Methylnaphthalene	ND		5	1	06/29/09 18:09	S_G	5092146
2-Nitroaniline	ND		25	1	06/29/09 18:09	S_G	5092146
2-Nitrophenol	ND		5	1	06/29/09 18:09	S_G	5092146
3,3'-Dichlorobenzidine	ND		10	1	06/29/09 18:09	S_G	5092146
3-Nitroaniline	ND		25	1	06/29/09 18:09	S_G	5092146
4,6-Dinitro-2-methylphenol	ND		25	1	06/29/09 18:09	S_G	5092146
4-Bromophenyl phenyl ether	ND		5	1	06/29/09 18:09	S_G	5092146
4-Chloro-3-methylphenol	ND		5	1	06/29/09 18:09	S_G	5092146
4-Chloroaniline	ND		5	1	06/29/09 18:09	S_G	5092146
4-Chlorophenyl phenyl ether	ND		5	1	06/29/09 18:09	S_G	5092146
4-Nitroaniline	ND		25	1	06/29/09 18:09	S_G	5092146
4-Nitrophenol	ND		25	1	06/29/09 18:09	S_G	5092146
Acenaphthene	ND		5	1	06/29/09 18:09	S_G	5092146
Acenaphthylene	ND		5	1	06/29/09 18:09	S_G	5092146
Aniline	ND		5	1	06/29/09 18:09	S_G	5092146
Anthracene	ND		5	1	06/29/09 18:09	S_G	5092146
Benz(a)anthracene	ND		5	1	06/29/09 18:09	S_G	5092146
Benzo(a)pyrene	ND		5	1	06/29/09 18:09	S_G	5092146
Benzo(b)fluoranthene	ND		5	1	06/29/09 18:09	S_G	5092146
Benzo(g,h,i)perylene	ND		5	1	06/29/09 18:09	S_G	5092146
Benzo(k)fluoranthene	ND		5	1	06/29/09 18:09	S_G	5092146
Benzoic acid	ND		25	1	06/29/09 18:09	S_G	5092146
Benzyl alcohol	ND		5	1	06/29/09 18:09	S_G	5092146
Bis(2-chloroethoxy)methane	ND		5	1	06/29/09 18:09	S_G	5092146
Bis(2-chloroethyl)ether	ND		5	1	06/29/09 18:09	S_G	5092146

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

Client Sample ID: WMW-2 **Collected:** 06/24/2009 12:10 **SPL Sample ID:** 09061339-03

Site: Gallup, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
Bis(2-chloroisopropyl)ether	ND		5	1	06/29/09 18:09	S_G	5092146
Bis(2-ethylhexyl)phthalate	ND		5	1	06/29/09 18:09	S_G	5092146
Butyl benzyl phthalate	ND		5	1	06/29/09 18:09	S_G	5092146
Carbazole	ND		5	1	06/29/09 18:09	S_G	5092146
Chrysene	ND		5	1	06/29/09 18:09	S_G	5092146
Dibenz(a,h)anthracene	ND		5	1	06/29/09 18:09	S_G	5092146
Dibenzofuran	ND		5	1	06/29/09 18:09	S_G	5092146
Diethyl phthalate	ND		5	1	06/29/09 18:09	S_G	5092146
Dimethyl phthalate	ND		5	1	06/29/09 18:09	S_G	5092146
Di-n-butyl phthalate	ND		5	1	06/29/09 18:09	S_G	5092146
Di-n-octyl phthalate	ND		5	1	06/29/09 18:09	S_G	5092146
Fluoranthene	ND		5	1	06/29/09 18:09	S_G	5092146
Fluorene	ND		5	1	06/29/09 18:09	S_G	5092146
Hexachlorobenzene	ND		5	1	06/29/09 18:09	S_G	5092146
Hexachlorobutadiene	ND		5	1	06/29/09 18:09	S_G	5092146
Hexachlorocyclopentadiene	ND		5	1	06/29/09 18:09	S_G	5092146
Hexachloroethane	ND		5	1	06/29/09 18:09	S_G	5092146
Indeno(1,2,3-cd)pyrene	ND		5	1	06/29/09 18:09	S_G	5092146
Isophorone	ND		5	1	06/29/09 18:09	S_G	5092146
Naphthalene	5.6		5	1	06/29/09 18:09	S_G	5092146
Nitrobenzene	ND		5	1	06/29/09 18:09	S_G	5092146
N-Nitrosodi-n-propylamine	ND		5	1	06/29/09 18:09	S_G	5092146
N-Nitrosodiphenylamine	ND		5	1	06/29/09 18:09	S_G	5092146
Pentachlorophenol	ND		25	1	06/29/09 18:09	S_G	5092146
Phenanthrene	ND		5	1	06/29/09 18:09	S_G	5092146
Phenol	41		5	1	06/29/09 18:09	S_G	5092146
Pyrene	ND		5	1	06/29/09 18:09	S_G	5092146
Pyridine	ND		5	1	06/29/09 18:09	S_G	5092146
2-Methylphenol	5.7		5	1	06/29/09 18:09	S_G	5092146
3 & 4-Methylphenol	ND		5	1	06/29/09 18:09	S_G	5092146
Surr: 2,4,6-Tribromophenol	68.7		% 10-123	1	06/29/09 18:09	S_G	5092146
Surr: 2-Fluorobiphenyl	64.2		% 23-116	1	06/29/09 18:09	S_G	5092146
Surr: 2-Fluorophenol	46.0		% 16-110	1	06/29/09 18:09	S_G	5092146
Surr: Nitrobenzene-d5	63.8		% 21-114	1	06/29/09 18:09	S_G	5092146
Surr: Phenol-d5	40.1		% 10-110	1	06/29/09 18:09	S_G	5092146
Surr: Terphenyl-d14	55.6		% 22-141	1	06/29/09 18:09	S_G	5092146

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3510C	06/26/2009 12:28	N_M	1.00

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HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
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Client Sample ID: WMW-2 **Collected:** 06/24/2009 12:10 **SPL Sample ID:** 09061339-03

Site: Gallup, NM

Analyses/Method	Result	QUAL		Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
TOTAL DISSOLVED SOLIDS				MCL	E160.1	Units: mg/L		
Total Dissolved Solids (Residue,Filterable)	2770			20	2	06/25/09 15:00	BDG	5085799
VOLATILE ORGANICS BY METHOD 8260B				MCL	SW8260B	Units: ug/L		
Benzene	9800			250	50	06/30/09 11:54	JC	5093400
Ethylbenzene	50			5	1	06/29/09 23:11	JC	5092167
Toluene	300			250	50	06/30/09 11:54	JC	5093400
m,p-Xylene	240			5	1	06/29/09 23:11	JC	5092167
o-Xylene	73			5	1	06/29/09 23:11	JC	5092167
Xylenes,Total	313			5	1	06/29/09 23:11	JC	5092167
Surr: 1,2-Dichloroethane-d4	87.4		%	78-116	50	06/30/09 11:54	JC	5093400
Surr: 1,2-Dichloroethane-d4	72.1 MI	*	%	78-116	1	06/29/09 23:11	JC	5092167
Surr: 4-Bromofluorobenzene	95.6		%	74-125	50	06/30/09 11:54	JC	5093400
Surr: 4-Bromofluorobenzene	98.7		%	74-125	1	06/29/09 23:11	JC	5092167
Surr: Toluene-d8	92.0		%	82-118	50	06/30/09 11:54	JC	5093400
Surr: Toluene-d8	98.3		%	82-118	1	06/29/09 23:11	JC	5092167

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

Client Sample ID: Pond 1 (East) **Collected:** 06/24/2009 8:40 **SPL Sample ID:** 09061339-04

Site: Gallup, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
ALKALINITY (AS CACO3), TOTAL				**MCL**	**E310.1**	**Units: mg/L**	
Alkalinity, Total (As CaCO3)	88		2	1	06/30/09 18:00	PAC	5094593
BIOCHEMICAL OXYGEN DEMAND - 5 DAYS				**MCL**	**SM5210 B**	**Units: mg/L**	
Biochemical Oxygen Demand	4.4		2	1	06/25/09 14:00	S_H	5092619
CHEMICAL OXYGEN DEMAND				**MCL**	**SM5220 C**	**Units: mg/L**	
Chemical Oxygen Demand	67.5		3	1	06/26/09 10:30	PAC	5086236
ION CHROMATOGRAPHY				**MCL**	**E300.0**	**Units: mg/L**	
Chloride	2270		500	1000	06/27/09 14:14	BDG	5088440
Sulfate	5360		500	1000	06/27/09 14:14	BDG	5088440
Nitrogen,Nitrate (As N)	ND		0.5	1	06/25/09 22:48	BDG	5088581
MERCURY, TOTAL				**MCL**	**SW7470A**	**Units: mg/L**	
Mercury	ND		0.0002	1	07/02/09 14:51	F_S	5097649

Prep Method	Prep Date	Prep Initials	Prep Factor
SW7470A	07/02/2009 10:15	F_S	1.00

METALS BY METHOD 6010B, TOTAL				**MCL**	**SW6010B**	**Units: mg/L**	
Arsenic	ND		0.005	1	07/04/09 17:14	EG	5101738
Calcium	849		1	10	07/04/09 15:50	EG	5101724
Iron	ND		0.02	1	07/04/09 17:14	EG	5101738
Magnesium	605		1	10	07/04/09 15:50	EG	5101724
Selenium	ND		0.01	1	07/04/09 17:14	EG	5101738
Sodium	2510		2	20	07/05/09 14:21	EG	5101424

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	06/27/2009 13:30	AB1	1.00

METALS BY METHOD 6020A, TOTAL				**MCL**	**SW6020A**	**Units: mg/L**	
Barium	0.0443		0.005	1	07/03/09 1:23	AL_H	5098296
Cadmium	ND		0.005	1	07/04/09 1:49	AL_H	5102033
Chromium	0.00521		0.005	1	07/03/09 1:23	AL_H	5098296
Lead	ND		0.005	1	07/03/09 1:23	AL_H	5098296
Manganese	ND		0.25	50	07/06/09 14:09	S_C	5102947
Silver	ND		0.005	1	07/03/09 1:23	AL_H	5098296

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	06/27/2009 13:30	AB1	1.00

PH				**MCL**	**SM4500-H B**	**Units: pH Units**	
pH	10		0.1	1	06/25/09 14:00	PAC	5084676

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

Client Sample ID: Pond 1 (East) **Collected:** 06/24/2009 8:40 **SPL Sample ID:** 09061339-04

Site: Gallup, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
SEMIVOLATILE ORGANICS BY METHOD 8270C			**MCL**	**SW8270C**	**Units: ug/L**		
1,2,4-Trichlorobenzene	ND		5	1	06/29/09 18:52	S_G	5092147
1,2-Dichlorobenzene	ND		5	1	06/29/09 18:52	S_G	5092147
1,2-Diphenylhydrazine	ND		10	1	06/29/09 18:52	S_G	5092147
1,3-Dichlorobenzene	ND		5	1	06/29/09 18:52	S_G	5092147
1,4-Dichlorobenzene	ND		5	1	06/29/09 18:52	S_G	5092147
2,4,5-Trichlorophenol	ND		10	1	06/29/09 18:52	S_G	5092147
2,4,6-Trichlorophenol	ND		5	1	06/29/09 18:52	S_G	5092147
2,4-Dichlorophenol	ND		5	1	06/29/09 18:52	S_G	5092147
2,4-Dimethylphenol	ND		5	1	06/29/09 18:52	S_G	5092147
2,4-Dinitrophenol	ND		25	1	06/29/09 18:52	S_G	5092147
2,4-Dinitrotoluene	ND		5	1	06/29/09 18:52	S_G	5092147
2,6-Dinitrotoluene	ND		5	1	06/29/09 18:52	S_G	5092147
2-Chloronaphthalene	ND		5	1	06/29/09 18:52	S_G	5092147
2-Chlorophenol	ND		5	1	06/29/09 18:52	S_G	5092147
2-Methylnaphthalene	ND		5	1	06/29/09 18:52	S_G	5092147
2-Nitroaniline	ND		25	1	06/29/09 18:52	S_G	5092147
2-Nitrophenol	ND		5	1	06/29/09 18:52	S_G	5092147
3,3'-Dichlorobenzidine	ND		10	1	06/29/09 18:52	S_G	5092147
3-Nitroaniline	ND		25	1	06/29/09 18:52	S_G	5092147
4,6-Dinitro-2-methylphenol	ND		25	1	06/29/09 18:52	S_G	5092147
4-Bromophenyl phenyl ether	ND		5	1	06/29/09 18:52	S_G	5092147
4-Chloro-3-methylphenol	ND		5	1	06/29/09 18:52	S_G	5092147
4-Chloroaniline	ND		5	1	06/29/09 18:52	S_G	5092147
4-Chlorophenyl phenyl ether	ND		5	1	06/29/09 18:52	S_G	5092147
4-Nitroaniline	ND		25	1	06/29/09 18:52	S_G	5092147
4-Nitrophenol	ND		25	1	06/29/09 18:52	S_G	5092147
Acenaphthene	ND		5	1	06/29/09 18:52	S_G	5092147
Acenaphthylene	ND		5	1	06/29/09 18:52	S_G	5092147
Aniline	ND		5	1	06/29/09 18:52	S_G	5092147
Anthracene	ND		5	1	06/29/09 18:52	S_G	5092147
Benz(a)anthracene	ND		5	1	06/29/09 18:52	S_G	5092147
Benzo(a)pyrene	ND		5	1	06/29/09 18:52	S_G	5092147
Benzo(b)fluoranthene	ND		5	1	06/29/09 18:52	S_G	5092147
Benzo(g,h,i)perylene	ND		5	1	06/29/09 18:52	S_G	5092147
Benzo(k)fluoranthene	ND		5	1	06/29/09 18:52	S_G	5092147
Benzoic acid	ND		25	1	06/29/09 18:52	S_G	5092147
Benzyl alcohol	ND		5	1	06/29/09 18:52	S_G	5092147
Bis(2-chloroethoxy)methane	ND		5	1	06/29/09 18:52	S_G	5092147
Bis(2-chloroethyl)ether	ND		5	1	06/29/09 18:52	S_G	5092147

Qualifiers:

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

Client Sample ID: Pond 1 (East) **Collected:** 06/24/2009 8:40 **SPL Sample ID:** 09061339-04

Site: Gallup, NM

Analyses/Method	Result	QUAL		Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
Bis(2-chloroisopropyl)ether	ND			5	1	06/29/09 18:52	S_G	5092147
Bis(2-ethylhexyl)phthalate	ND			5	1	06/29/09 18:52	S_G	5092147
Butyl benzyl phthalate	ND			5	1	06/29/09 18:52	S_G	5092147
Carbazole	ND			5	1	06/29/09 18:52	S_G	5092147
Chrysene	ND			5	1	06/29/09 18:52	S_G	5092147
Dibenz(a,h)anthracene	ND			5	1	06/29/09 18:52	S_G	5092147
Dibenzofuran	ND			5	1	06/29/09 18:52	S_G	5092147
Diethyl phthalate	ND			5	1	06/29/09 18:52	S_G	5092147
Dimethyl phthalate	ND			5	1	06/29/09 18:52	S_G	5092147
Di-n-butyl phthalate	ND			5	1	06/29/09 18:52	S_G	5092147
Di-n-octyl phthalate	ND			5	1	06/29/09 18:52	S_G	5092147
Fluoranthene	ND			5	1	06/29/09 18:52	S_G	5092147
Fluorene	ND			5	1	06/29/09 18:52	S_G	5092147
Hexachlorobenzene	ND			5	1	06/29/09 18:52	S_G	5092147
Hexachlorobutadiene	ND			5	1	06/29/09 18:52	S_G	5092147
Hexachlorocyclopentadiene	ND			5	1	06/29/09 18:52	S_G	5092147
Hexachloroethane	ND			5	1	06/29/09 18:52	S_G	5092147
Indeno(1,2,3-cd)pyrene	ND			5	1	06/29/09 18:52	S_G	5092147
Isophorone	ND			5	1	06/29/09 18:52	S_G	5092147
Naphthalene	ND			5	1	06/29/09 18:52	S_G	5092147
Nitrobenzene	ND			5	1	06/29/09 18:52	S_G	5092147
N-Nitrosodi-n-propylamine	ND			5	1	06/29/09 18:52	S_G	5092147
N-Nitrosodiphenylamine	ND			5	1	06/29/09 18:52	S_G	5092147
Pentachlorophenol	ND			25	1	06/29/09 18:52	S_G	5092147
Phenanthrene	ND			5	1	06/29/09 18:52	S_G	5092147
Phenol	ND			5	1	06/29/09 18:52	S_G	5092147
Pyrene	ND			5	1	06/29/09 18:52	S_G	5092147
Pyridine	ND			5	1	06/29/09 18:52	S_G	5092147
2-Methylphenol	ND			5	1	06/29/09 18:52	S_G	5092147
3 & 4-Methylphenol	ND			5	1	06/29/09 18:52	S_G	5092147
Surr: 2,4,6-Tribromophenol	68.1		%	10-123	1	06/29/09 18:52	S_G	5092147
Surr: 2-Fluorobiphenyl	66.4		%	23-116	1	06/29/09 18:52	S_G	5092147
Surr: 2-Fluorophenol	53.1		%	16-110	1	06/29/09 18:52	S_G	5092147
Surr: Nitrobenzene-d5	61.2		%	21-114	1	06/29/09 18:52	S_G	5092147
Surr: Phenol-d5	44.0		%	10-110	1	06/29/09 18:52	S_G	5092147
Surr: Terphenyl-d14	58.6		%	22-141	1	06/29/09 18:52	S_G	5092147

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3510C	06/26/2009 12:28	N_M	1.00

Qualifiers:

ND/U - Not Detected at the Reporting Limit
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HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: Pond 1 (East) **Collected:** 06/24/2009 8:40 **SPL Sample ID:** 09061339-04

Site: Gallup, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
TOTAL COLIFORMS			**MCL**	**M9222 B**	**Units: colonies/100**		
Coliform, Total	4		1	1	06/25/09 13:30	S_H	5086701
TOTAL DISSOLVED SOLIDS			**MCL**	**E160.1**	**Units: mg/L**		
Total Dissolved Solids (Residue,Filterable)	13000		100	10	06/25/09 15:00	BDG	5085800
VOLATILE ORGANICS BY METHOD 8260B			**MCL**	**SW8260B**	**Units: ug/L**		
Benzene	ND		5	1	07/01/09 6:37	JC	5094847
Ethylbenzene	ND		5	1	07/01/09 6:37	JC	5094847
Toluene	ND		5	1	07/01/09 6:37	JC	5094847
m,p-Xylene	ND		5	1	07/01/09 6:37	JC	5094847
o-Xylene	ND		5	1	07/01/09 6:37	JC	5094847
Xylenes,Total	ND		5	1	07/01/09 6:37	JC	5094847
Surr: 1,2-Dichloroethane-d4	88.8		% 78-116	1	07/01/09 6:37	JC	5094847
Surr: 4-Bromofluorobenzene	100		% 74-125	1	07/01/09 6:37	JC	5094847
Surr: Toluene-d8	90.2		% 82-118	1	07/01/09 6:37	JC	5094847

Qualifiers:

ND/U - Not Detected at the Reporting Limit
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J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

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

Client Sample ID: Pond 2 (West) **Collected:** 06/24/2009 9:35 **SPL Sample ID:** 09061339-05

Site: Gallup, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
ALKALINITY (AS CACO3), TOTAL				**MCL**	**E310.1**	**Units: mg/L**	
Alkalinity, Total (As CaCO3)	435		2	1	06/30/09 18:00	PAC	5094594
BIOCHEMICAL OXYGEN DEMAND - 5 DAYS				**MCL**	**SM5210 B**	**Units: mg/L**	
Biochemical Oxygen Demand	7.7		4	2	06/25/09 14:00	S_H	5092620
CHEMICAL OXYGEN DEMAND				**MCL**	**SM5220 C**	**Units: mg/L**	
Chemical Oxygen Demand	1600		60	20	06/26/09 10:30	PAC	5086239
ION CHROMATOGRAPHY				**MCL**	**E300.0**	**Units: mg/L**	
Chloride	173000		10000	20000	06/27/09 14:31	BDG	5088441
Sulfate	14800		10000	20000	06/27/09 14:31	BDG	5088441
Nitrogen,Nitrate (As N)	ND		2500	5000	06/26/09 17:22	BDG	5087308
MERCURY, TOTAL				**MCL**	**SW7470A**	**Units: mg/L**	
Mercury	ND		0.0002	1	07/02/09 14:53	F_S	5097650

Prep Method	Prep Date	Prep Initials	Prep Factor
SW7470A	07/02/2009 10:15	F_S	1.00

METALS BY METHOD 6010B, TOTAL				**MCL**	**SW6010B**	**Units: mg/L**	
Arsenic	0.0336		0.005	1	07/04/09 17:19	EG	5101740
Calcium	440		1	10	07/04/09 15:59	EG	5101726
Iron	0.197		0.02	1	07/04/09 17:19	EG	5101740
Magnesium	5250		2	20	07/04/09 16:04	EG	5101727
Selenium	ND		0.01	1	07/04/09 17:19	EG	5101740
Sodium	68000		100	1000	07/05/09 14:42	EG	5101427

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	06/27/2009 13:30	AB1	1.00

METALS BY METHOD 6020A, TOTAL				**MCL**	**SW6020A**	**Units: mg/L**	
Barium	ND		0.1	20	07/04/09 1:54	AL_H	5102034
Cadmium	ND		0.1	20	07/04/09 1:54	AL_H	5102034
Chromium	ND		0.25	50	07/06/09 14:14	S_C	5102948
Lead	ND		0.1	20	07/04/09 1:54	AL_H	5102034
Manganese	1.2		0.25	50	07/06/09 14:14	S_C	5102948
Silver	ND		0.1	20	07/04/09 1:54	AL_H	5102034

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	06/27/2009 13:30	AB1	1.00

PH				**MCL**	**SM4500-H B**	**Units: pH Units**	
pH	8.1		0.1	1	06/25/09 14:00	PAC	5084677

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TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
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HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: Pond 2 (West) **Collected:** 06/24/2009 9:35 **SPL Sample ID:** 09061339-05

Site: Gallup, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
SEMIVOLATILE ORGANICS BY METHOD 8270C			**MCL**	**SW8270C**	**Units: ug/L**		
1,2,4-Trichlorobenzene	ND		5	1	06/29/09 19:34	S_G	5092148
1,2-Dichlorobenzene	ND		5	1	06/29/09 19:34	S_G	5092148
1,2-Diphenylhydrazine	ND		10	1	06/29/09 19:34	S_G	5092148
1,3-Dichlorobenzene	ND		5	1	06/29/09 19:34	S_G	5092148
1,4-Dichlorobenzene	ND		5	1	06/29/09 19:34	S_G	5092148
2,4,5-Trichlorophenol	ND		10	1	06/29/09 19:34	S_G	5092148
2,4,6-Trichlorophenol	ND		5	1	06/29/09 19:34	S_G	5092148
2,4-Dichlorophenol	ND		5	1	06/29/09 19:34	S_G	5092148
2,4-Dimethylphenol	ND		5	1	06/29/09 19:34	S_G	5092148
2,4-Dinitrophenol	ND		25	1	06/29/09 19:34	S_G	5092148
2,4-Dinitrotoluene	ND		5	1	06/29/09 19:34	S_G	5092148
2,6-Dinitrotoluene	ND		5	1	06/29/09 19:34	S_G	5092148
2-Chloronaphthalene	ND		5	1	06/29/09 19:34	S_G	5092148
2-Chlorophenol	ND		5	1	06/29/09 19:34	S_G	5092148
2-Methylnaphthalene	ND		5	1	06/29/09 19:34	S_G	5092148
2-Nitroaniline	ND		25	1	06/29/09 19:34	S_G	5092148
2-Nitrophenol	ND		5	1	06/29/09 19:34	S_G	5092148
3,3'-Dichlorobenzidine	ND		10	1	06/29/09 19:34	S_G	5092148
3-Nitroaniline	ND		25	1	06/29/09 19:34	S_G	5092148
4,6-Dinitro-2-methylphenol	ND		25	1	06/29/09 19:34	S_G	5092148
4-Bromophenyl phenyl ether	ND		5	1	06/29/09 19:34	S_G	5092148
4-Chloro-3-methylphenol	ND		5	1	06/29/09 19:34	S_G	5092148
4-Chloroaniline	ND		5	1	06/29/09 19:34	S_G	5092148
4-Chlorophenyl phenyl ether	ND		5	1	06/29/09 19:34	S_G	5092148
4-Nitroaniline	ND		25	1	06/29/09 19:34	S_G	5092148
4-Nitrophenol	ND		25	1	06/29/09 19:34	S_G	5092148
Acenaphthene	ND		5	1	06/29/09 19:34	S_G	5092148
Acenaphthylene	ND		5	1	06/29/09 19:34	S_G	5092148
Aniline	ND		5	1	06/29/09 19:34	S_G	5092148
Anthracene	ND		5	1	06/29/09 19:34	S_G	5092148
Benz(a)anthracene	ND		5	1	06/29/09 19:34	S_G	5092148
Benzo(a)pyrene	ND		5	1	06/29/09 19:34	S_G	5092148
Benzo(b)fluoranthene	ND		5	1	06/29/09 19:34	S_G	5092148
Benzo(g,h,i)perylene	ND		5	1	06/29/09 19:34	S_G	5092148
Benzo(k)fluoranthene	ND		5	1	06/29/09 19:34	S_G	5092148
Benzoic acid	ND		25	1	06/29/09 19:34	S_G	5092148
Benzyl alcohol	ND		5	1	06/29/09 19:34	S_G	5092148
Bis(2-chloroethoxy)methane	ND		5	1	06/29/09 19:34	S_G	5092148
Bis(2-chloroethyl)ether	ND		5	1	06/29/09 19:34	S_G	5092148

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

Client Sample ID: Pond 2 (West) **Collected:** 06/24/2009 9:35 **SPL Sample ID:** 09061339-05

Site: Gallup, NM

Analyses/Method	Result	QUAL		Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
Bis(2-chloroisopropyl)ether	ND			5	1	06/29/09 19:34	S_G	5092148
Bis(2-ethylhexyl)phthalate	ND			5	1	06/29/09 19:34	S_G	5092148
Butyl benzyl phthalate	ND			5	1	06/29/09 19:34	S_G	5092148
Carbazole	ND			5	1	06/29/09 19:34	S_G	5092148
Chrysene	ND			5	1	06/29/09 19:34	S_G	5092148
Dibenz(a,h)anthracene	ND			5	1	06/29/09 19:34	S_G	5092148
Dibenzofuran	ND			5	1	06/29/09 19:34	S_G	5092148
Diethyl phthalate	ND			5	1	06/29/09 19:34	S_G	5092148
Dimethyl phthalate	ND			5	1	06/29/09 19:34	S_G	5092148
Di-n-butyl phthalate	ND			5	1	06/29/09 19:34	S_G	5092148
Di-n-octyl phthalate	ND			5	1	06/29/09 19:34	S_G	5092148
Fluoranthene	ND			5	1	06/29/09 19:34	S_G	5092148
Fluorene	ND			5	1	06/29/09 19:34	S_G	5092148
Hexachlorobenzene	ND			5	1	06/29/09 19:34	S_G	5092148
Hexachlorobutadiene	ND			5	1	06/29/09 19:34	S_G	5092148
Hexachlorocyclopentadiene	ND			5	1	06/29/09 19:34	S_G	5092148
Hexachloroethane	ND			5	1	06/29/09 19:34	S_G	5092148
Indeno(1,2,3-cd)pyrene	ND			5	1	06/29/09 19:34	S_G	5092148
Isophorone	ND			5	1	06/29/09 19:34	S_G	5092148
Naphthalene	ND			5	1	06/29/09 19:34	S_G	5092148
Nitrobenzene	ND			5	1	06/29/09 19:34	S_G	5092148
N-Nitrosodi-n-propylamine	ND			5	1	06/29/09 19:34	S_G	5092148
N-Nitrosodiphenylamine	ND			5	1	06/29/09 19:34	S_G	5092148
Pentachlorophenol	ND			25	1	06/29/09 19:34	S_G	5092148
Phenanthrene	ND			5	1	06/29/09 19:34	S_G	5092148
Phenol	ND			5	1	06/29/09 19:34	S_G	5092148
Pyrene	ND			5	1	06/29/09 19:34	S_G	5092148
Pyridine	ND			5	1	06/29/09 19:34	S_G	5092148
2-Methylphenol	ND			5	1	06/29/09 19:34	S_G	5092148
3 & 4-Methylphenol	ND			5	1	06/29/09 19:34	S_G	5092148
Surr: 2,4,6-Tribromophenol	60.4		%	10-123	1	06/29/09 19:34	S_G	5092148
Surr: 2-Fluorobiphenyl	44.2		%	23-116	1	06/29/09 19:34	S_G	5092148
Surr: 2-Fluorophenol	53.1		%	16-110	1	06/29/09 19:34	S_G	5092148
Surr: Nitrobenzene-d5	56.6		%	21-114	1	06/29/09 19:34	S_G	5092148
Surr: Phenol-d5	54.9		%	10-110	1	06/29/09 19:34	S_G	5092148
Surr: Terphenyl-d14	45.8		%	22-141	1	06/29/09 19:34	S_G	5092148

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3510C	06/26/2009 12:28	N_M	1.00

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

Client Sample ID: Pond 2 (West) **Collected:** 06/24/2009 9:35 **SPL Sample ID:** 09061339-05

Site: Gallup, NM

Analyses/Method	Result	QUAL	Rep.Limit		Dil. Factor	Date Analyzed	Analyst	Seq. #
TOTAL COLIFORMS				**MCL**	**M9222 B**	**Units: colonies/100**		
Coliform, Total	ND		1		1	06/25/09 13:30	S_H	5086703
TOTAL DISSOLVED SOLIDS				**MCL**	**E160.1**	**Units: mg/L**		
Total Dissolved Solids (Residue,Filterable)	397000		2000		200	06/30/09 10:30	CFS	5095621
VOLATILE ORGANICS BY METHOD 8260B				**MCL**	**SW8260B**	**Units: ug/L**		
Benzene	ND		5		1	07/01/09 7:57	JC	5094850
Ethylbenzene	ND		5		1	07/01/09 7:57	JC	5094850
Toluene	ND		5		1	07/01/09 7:57	JC	5094850
m,p-Xylene	ND		5		1	07/01/09 7:57	JC	5094850
o-Xylene	ND		5		1	07/01/09 7:57	JC	5094850
Xylenes,Total	ND		5		1	07/01/09 7:57	JC	5094850
Surr: 1,2-Dichloroethane-d4	95.0		% 78-116		1	07/01/09 7:57	JC	5094850
Surr: 4-Bromofluorobenzene	83.8		% 74-125		1	07/01/09 7:57	JC	5094850
Surr: Toluene-d8	89.7		% 82-118		1	07/01/09 7:57	JC	5094850

Qualifiers:

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>MCL - Result Over Maximum Contamination Limit(MCL)
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HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
(713) 660-0901

Client Sample ID: Duplicate **Collected:** 06/24/2009 9:30 **SPL Sample ID:** 09061339-06

Site: Gallup, NM

Analyses/Method	Result	QUAL		Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS BY METHOD 8260B				**MCL**	**SW8260B**	**Units: ug/L**		
Benzene	9700			250	50	06/30/09 12:21	JC	5093401
Ethylbenzene	49			5	1	06/30/09 0:32	JC	5092168
Toluene	290			250	50	06/30/09 12:21	JC	5093401
m,p-Xylene	240			5	1	06/30/09 0:32	JC	5092168
o-Xylene	73			5	1	06/30/09 0:32	JC	5092168
Xylenes, Total	313			5	1	06/30/09 0:32	JC	5092168
Surr: 1,2-Dichloroethane-d4	89.8		%	78-116	50	06/30/09 12:21	JC	5093401
Surr: 1,2-Dichloroethane-d4	76 MI	*	%	78-116	1	06/30/09 0:32	JC	5092168
Surr: 4-Bromofluorobenzene	95.9		%	74-125	50	06/30/09 12:21	JC	5093401
Surr: 4-Bromofluorobenzene	98.6		%	74-125	1	06/30/09 0:32	JC	5092168
Surr: Toluene-d8	92.7		%	82-118	50	06/30/09 12:21	JC	5093401
Surr: Toluene-d8	96.1		%	82-118	1	06/30/09 0:32	JC	5092168

Qualifiers:

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J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
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MI - Matrix Interference

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

Client Sample ID: Trip Blank (SPL Prepared) **Collected:** 06/24/2009 0:00 **SPL Sample ID:** 09061339-07

Site: Gallup, NM

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS BY METHOD 8260B			**MCL**	**SW8260B**	**Units: ug/L**		
Benzene	ND		5	1	07/01/09 7:30	JC	5094848
Ethylbenzene	ND		5	1	07/01/09 7:30	JC	5094848
Toluene	ND		5	1	07/01/09 7:30	JC	5094848
m,p-Xylene	ND		5	1	07/01/09 7:30	JC	5094848
o-Xylene	ND		5	1	07/01/09 7:30	JC	5094848
Xylenes,Total	ND		5	1	07/01/09 7:30	JC	5094848
Surr: 1,2-Dichloroethane-d4	91.4		% 78-116	1	07/01/09 7:30	JC	5094848
Surr: 4-Bromofluorobenzene	95.6		% 74-125	1	07/01/09 7:30	JC	5094848
Surr: Toluene-d8	85.6		% 82-118	1	07/01/09 7:30	JC	5094848

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)
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Quality Control Documentation

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

Quality Control Report

Conoco Phillips

COP Wingate

Analysis: Metals by Method 6010B, Total
Method: SW6010B
WorkOrder: 09061339
Lab Batch ID: 91534

Method Blank

RunID: ICP2_090704A-5101708 Units: mg/L
Analysis Date: 07/04/2009 14:40 Analyst: EG
Preparation Date: 06/27/2009 13:30 Prep By: AB1 Method: SW3010A

Analyte	Result	Rep Limit
Arsenic	ND	0.005
Calcium	ND	0.1
Iron	ND	0.02
Magnesium	ND	0.1
Selenium	ND	0.01

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
09061339-01E	MWR-1
09061339-02E	WMW-3
09061339-03E	WMW-2
09061339-04E	Pond 1 (East)
09061339-05E	Pond 2 (West)

Laboratory Control Sample (LCS)

RunID: ICP2_090704A-5101709 Units: mg/L
Analysis Date: 07/04/2009 14:44 Analyst: EG
Preparation Date: 06/27/2009 13:30 Prep By: AB1 Method: SW3010A

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Arsenic	1.000	1.052	105.2	80	120
Calcium	1.000	1.031	103.1	80	120
Iron	1.000	1.058	105.8	80	120
Magnesium	1.000	1.034	103.4	80	120
Selenium	1.000	1.065	106.5	80	120

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

Sample Spiked: 09061252-02
RunID: ICP2_090704A-5102070 Units: mg/L
Analysis Date: 07/04/2009 14:53 Analyst: EG
Preparation Date: 06/27/2009 13:30 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
Arsenic	0.006600	1	1.070	106.3	1	1.071	106.4	0.09341	20	75	125
Calcium	29.46	1	29.41	N/C	1	30.20	N/C	N/C	20	75	125
Iron	0.2546	1	1.301	104.6	1	1.329	107.4	2.129	20	75	125
Magnesium	14.46	1	14.85	N/C	1	15.25	N/C	N/C	20	75	125

Qualifiers:

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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.

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TX 77054
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Quality Control Report

Conoco Phillips

COP Wingate

Analysis: Metals by Method 6010B, Total
Method: SW6010B

WorkOrder: 09061339
Lab Batch ID: 91534

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

Sample Spiked: 09061252-02
RunID: ICP2_090704A-5102070 Units: mg/L
Analysis Date: 07/04/2009 14:53 Analyst: EG
Preparation Date: 06/27/2009 13:30 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
Selenium	ND	1	1.058	105.8	1	1.068	106.8	0.9407	20	75	125

Qualifiers:

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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

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Quality Control Report

Conoco Phillips

COP Wingate

Analysis: Metals by Method 6010B, Total
Method: SW6010B

WorkOrder: 09061339
Lab Batch ID: 91534a

Method Blank

RunID: ICP2_090705A-5101411 Units: mg/L
Analysis Date: 07/05/2009 13:20 Analyst: EG
Preparation Date: 06/27/2009 13:30 Prep By: AB1 Method: SW3010A

Analyte	Result	Rep Limit
Sodium	ND	0.1

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
09061339-01E	MWR-1
09061339-02E	WMW-3
09061339-03E	WMW-2
09061339-04E	Pond 1 (East)
09061339-05E	Pond 2 (West)

Laboratory Control Sample (LCS)

RunID: ICP2_090705A-5101412 Units: mg/L
Analysis Date: 07/05/2009 13:25 Analyst: EG
Preparation Date: 06/27/2009 13:30 Prep By: AB1 Method: SW3010A

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Sodium	1.000	1.023	102.3	80	120

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

Sample Spiked: 09061252-02
RunID: ICP2_090705A-5101414 Units: mg/L
Analysis Date: 07/05/2009 13:33 Analyst: EG
Preparation Date: 06/27/2009 13:30 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
Sodium	171.8	1	171.9	N/C	1	176.5	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
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

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Quality Control Report

Conoco Phillips

COP Wingate

Analysis: Metals by Method 6020A, Total
Method: SW6020A

WorkOrder: 09061339
Lab Batch ID: 91534A-I

Method Blank

RunID: ICPMS2_090706A-5101286 Units: mg/L
Analysis Date: 07/04/2009 5:54 Analyst: AL_H
Preparation Date: 06/27/2009 13:30 Prep By: AB1 Method: SW3010A

Analyte	Result	Rep Limit
Selenium	ND	0.005

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
09061339-01E	MWR-1
09061339-02E	WMW-3
09061339-03E	WMW-2
09061339-04E	Pond 1 (East)
09061339-05E	Pond 2 (West)

Laboratory Control Sample (LCS)

RunID: ICPMS2_090706A-5101287 Units: mg/L
Analysis Date: 07/04/2009 6:00 Analyst: AL_H
Preparation Date: 06/27/2009 13:30 Prep By: AB1 Method: SW3010A

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Selenium	0.1000	0.1033	103.3	80	120

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

Sample Spiked: 09061252-02
RunID: ICPMS2_090706A-5101289 Units: mg/L
Analysis Date: 07/04/2009 6:11 Analyst: AL_H
Preparation Date: 06/27/2009 13:30 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
Selenium	ND	0.1	0.09015	89.46	0.1	0.09449	93.80	4.701	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

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Quality Control Report

Conoco Phillips

COP Wingate

Analysis: Metals by Method 6020A, Total
Method: SW6020A
WorkOrder: 09061339
Lab Batch ID: 91534B-I

Method Blank

RunID: ICPMS_090703A-5102020 Units: mg/L
Analysis Date: 07/04/2009 0:46 Analyst: AL_H
Preparation Date: 06/27/2009 13:30 Prep By: AB1 Method: SW3010A

Analyte	Result	Rep Limit
Barium	ND	0.005
Cadmium	ND	0.005
Lead	ND	0.005
Silver	ND	0.005

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
09061339-01E	MWR-1
09061339-02E	WMW-3
09061339-03E	WMW-2
09061339-04E	Pond 1 (East)
09061339-05E	Pond 2 (West)

Laboratory Control Sample (LCS)

RunID: ICPMS_090703A-5102021 Units: mg/L
Analysis Date: 07/04/2009 0:51 Analyst: AL_H
Preparation Date: 06/27/2009 13:30 Prep By: AB1 Method: SW3010A

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Barium	0.1000	0.09731	97.31	80	120
Cadmium	0.1000	0.1007	100.7	80	120
Lead	0.1000	0.09670	96.70	80	120
Silver	0.1000	0.09948	99.48	80	120

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

Sample Spiked: 09061252-02
RunID: ICPMS_090703A-5102023 Units: mg/L
Analysis Date: 07/04/2009 1:00 Analyst: AL_H
Preparation Date: 06/27/2009 13:30 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
Barium	0.1599	0.1	0.2623	102.4	0.1	0.2545	94.60	3.019	20	75	125
Cadmium	ND	0.1	0.09934	99.34	0.1	0.09795	97.95	1.409	20	75	125
Lead	ND	0.1	0.09947	99.47	0.1	0.09992	99.92	0.4514	20	75	125
Silver	ND	0.1	0.09348	93.48	0.1	0.09237	92.37	1.195	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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Quality Control Report

Conoco Phillips

COP Wingate

Analysis: Metals by Method 6020A, Total
Method: SW6020A
WorkOrder: 09061339
Lab Batch ID: 91534C-I

Method Blank

RunID: ICPMS_090706A-5102939 Units: mg/L
Analysis Date: 07/06/2009 13:29 Analyst: S_C
Preparation Date: 06/27/2009 13:30 Prep By: AB1 Method: SW3010A

Analyte	Result	Rep Limit
Chromium	ND	0.005
Manganese	ND	0.005

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
09061339-02E	WMW-3
09061339-03E	WMW-2
09061339-04E	Pond 1 (East)
09061339-05E	Pond 2 (West)

Laboratory Control Sample (LCS)

RunID: ICPMS_090706A-5102940 Units: mg/L
Analysis Date: 07/06/2009 13:34 Analyst: S_C
Preparation Date: 06/27/2009 13:30 Prep By: AB1 Method: SW3010A

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Chromium	0.1000	0.1049	104.9	80	120
Manganese	0.1000	0.1025	102.5	80	120

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

Sample Spiked: 09061252-02
RunID: ICPMS_090706A-5102942 Units: mg/L
Analysis Date: 07/06/2009 13:43 Analyst: S_C
Preparation Date: 06/27/2009 13:30 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
Chromium	ND	0.1	0.1045	104.5	0.1	0.1016	101.6	2.814	20	75	125
Manganese	0.6248	0.1	0.7723	N/C	0.1	0.7078	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
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

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Quality Control Report

Conoco Phillips

COP Wingate

Analysis: Metals by Method 6020A, Total
Method: SW6020A
WorkOrder: 09061339
Lab Batch ID: 91534-I

Method Blank

RunID: ICPMS2_090702A-5098284 Units: mg/L
Analysis Date: 07/03/2009 0:09 Analyst: AL_H
Preparation Date: 06/27/2009 13:30 Prep By: AB1 Method: SW3010A

Analyte	Result	Rep Limit
Arsenic	ND	0.005
Barium	ND	0.005
Chromium	ND	0.005
Lead	ND	0.005
Manganese	ND	0.005
Silver	ND	0.005

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
09061339-01E	MWR-1
09061339-02E	WMW-3
09061339-03E	WMW-2
09061339-04E	Pond 1 (East)

Laboratory Control Sample (LCS)

RunID: ICPMS2_090702A-5098285 Units: mg/L
Analysis Date: 07/03/2009 0:15 Analyst: AL_H
Preparation Date: 06/27/2009 13:30 Prep By: AB1 Method: SW3010A

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Arsenic	0.1000	0.1161	116.1	80	120
Barium	0.1000	0.1144	114.4	80	120
Chromium	0.1000	0.1101	110.1	80	120
Lead	0.1000	0.1047	104.7	80	120
Manganese	0.1000	0.1033	103.3	80	120
Silver	0.1000	0.1087	108.7	80	120

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

Sample Spiked: 09061252-02
RunID: ICPMS2_090702A-5098287 Units: mg/L
Analysis Date: 07/03/2009 0:26 Analyst: AL_H
Preparation Date: 06/27/2009 13:30 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
Arsenic	0.006536	0.1	0.1279	121.4	0.1	0.1255	119.0	1.894	20	75	125
Barium	0.1778	0.1	0.2959	118.1	0.1	0.2902	112.4	1.945	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

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Quality Control Report

Conoco Phillips

COP Wingate

Analysis: Metals by Method 6020A, Total
Method: SW6020A
WorkOrder: 09061339
Lab Batch ID: 91534-I

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

Sample Spiked: 09061252-02
RunID: ICPMS2_090702A-5098287 Units: mg/L
Analysis Date: 07/03/2009 0:26 Analyst: AL_H
Preparation Date: 06/27/2009 13:30 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
Chromium	ND	0.1	0.1168	116.8	0.1	0.1125	112.5	3.751	20	75	125
Lead	ND	0.1	0.1064	106.4	0.1	0.1072	107.2	0.7491	20	75	125
Manganese	0.7026	0.1	0.8438	N/C	0.1	0.8258	N/C	N/C	20	75	125
Silver	ND	0.1	0.1044	104.4	0.1	0.1055	105.5	1.048	20	75	125

Qualifiers:

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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
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Quality Control Report

Conoco Phillips

COP Wingate

Analysis: Mercury, Total
Method: SW7470A

WorkOrder: 09061339
Lab Batch ID: 91688

Method Blank

RunID: HGLC_090702A-5097031 Units: mg/L
Analysis Date: 07/02/2009 14:01 Analyst: F_S
Preparation Date: 07/02/2009 10:15 Prep By: F_S Method: SW7470A

Analyte	Result	Rep Limit
Mercury	ND	0.0002

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
09061339-01E	MWR-1
09061339-02E	WMW-3
09061339-03E	WMW-2
09061339-04E	Pond 1 (East)
09061339-05E	Pond 2 (West)

Laboratory Control Sample (LCS)

RunID: HGLC_090702A-5097032 Units: mg/L
Analysis Date: 07/02/2009 14:04 Analyst: F_S
Preparation Date: 07/02/2009 10:15 Prep By: F_S Method: SW7470A

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Mercury	0.002000	0.001976	98.79	80	120

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

Sample Spiked: 09061252-03
RunID: HGLC_090702A-5097034 Units: mg/L
Analysis Date: 07/02/2009 14:10 Analyst: F_S
Preparation Date: 07/02/2009 10:15 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	0.001891	94.54	0.002	0.001916	95.80	1.319	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

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Quality Control Report

Conoco Phillips

COP Wingate

Analysis: Semivolatile Organics by Method 8270C
Method: SW8270C
WorkOrder: 09061339
Lab Batch ID: 91487

Method Blank

RunID: J_090629B-5090857 Units: ug/L
Analysis Date: 06/29/2009 11:44 Analyst: S_G
Preparation Date: 06/26/2009 12:28 Prep By: N_M Method: SW3510C

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
09061339-01D	MWR-1
09061339-02D	WMW-3
09061339-03D	WMW-2
09061339-04D	Pond 1 (East)
09061339-05D	Pond 2 (West)

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

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
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N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

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Quality Control Report

Conoco Phillips

COP Wingate

Analysis: Semivolatile Organics by Method 8270C
Method: SW8270C
WorkOrder: 09061339
Lab Batch ID: 91487

Method Blank

RunID: J_090629B-5090857 Units: ug/L
Analysis Date: 06/29/2009 11:44 Analyst: S_G
Preparation Date: 06/26/2009 12:28 Prep By: N_M Method: SW3510C

Analyte	Result	Rep Limit
Diethyl phthalate	ND	5.0
Dimethyl phthalate	ND	5.0
Di-n-butyl phthalate	ND	5.0
Di-n-octyl phthalate	ND	5.0
Fluoranthene	ND	5.0
Fluorene	ND	5.0
Hexachlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Hexachlorocyclopentadiene	ND	5.0
Hexachloroethane	ND	5.0
Indeno(1,2,3-cd)pyrene	ND	5.0
Isophorone	ND	5.0
Naphthalene	ND	5.0
Nitrobenzene	ND	5.0
N-Nitrosodi-n-propylamine	ND	5.0
N-Nitrosodiphenylamine	ND	5.0
Pentachlorophenol	ND	25
Phenanthrene	ND	5.0
Phenol	ND	5.0
Pyrene	ND	5.0
Pyridine	ND	5.0
2-Methylphenol	ND	5.0
3 & 4-Methylphenol	ND	5.0
Surr: 2,4,6-Tribromophenol	75.3	10-123
Surr: 2-Fluorobiphenyl	78.0	23-116
Surr: 2-Fluorophenol	67.9	16-110
Surr: Nitrobenzene-d5	69.2	21-114
Surr: Phenol-d5	69.2	10-110
Surr: Terphenyl-d14	75.0	22-141

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

RunID: J_090629B-5090852 Units: ug/L
Analysis Date: 06/29/2009 10:15 Analyst: S_G
Preparation Date: 06/26/2009 12:28 Prep By: N_M Method: SW3510C

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
1,2,4-Trichlorobenzene	25.0	21.3	85.2	25.0	20.6	82.4	3.3	39	21	120
1,2-Dichlorobenzene	25.0	20.2	80.8	25.0	20.4	81.6	1.0	50	20	150

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

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Quality Control Report

Conoco Phillips

COP Wingate

Analysis: Semivolatile Organics by Method 8270C
Method: SW8270C
WorkOrder: 09061339
Lab Batch ID: 91487

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

RunID: J_090629B-5090852 Units: ug/L
Analysis Date: 06/29/2009 10:15 Analyst: S_G
Preparation Date: 06/26/2009 12:28 Prep By: N_M Method: SW3510C

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
1,2-Diphenylhydrazine	25.0	20.9	83.6	25.0	20.7	82.8	1.0	50	10	251
1,3-Dichlorobenzene	25.0	19.7	78.8	25.0	19.5	78.0	1.0	50	20	150
1,4-Dichlorobenzene	25.0	20.0	80.0	25.0	19.7	78.8	1.5	45	20	150
2,4,5-Trichlorophenol	25.0	21.5	86.0	25.0	22.2	88.8	3.2	50	30	150
2,4,6-Trichlorophenol	25.0	21.1	84.4	25.0	21.1	84.4	0.0	50	30	150
2,4-Dichlorophenol	25.0	21.8	87.2	25.0	21.4	85.6	1.9	50	30	150
2,4-Dimethylphenol	25.0	21.0	84.0	25.0	20.9	83.6	0.5	50	32	140
2,4-Dinitrophenol	25.0	23.3	93.2	25.0	22.5	90.0	3.5	50	10	160
2,4-Dinitrotoluene	25.0	23.7	94.8	25.0	24.0	96.0	1.3	50	30	150
2,6-Dinitrotoluene	25.0	22.2	88.8	25.0	22.7	90.8	2.2	50	30	150
2-Chloronaphthalene	25.0	20.7	82.8	25.0	21.2	84.8	2.4	50	30	150
2-Chlorophenol	25.0	20.5	82.0	25.0	20.6	82.4	0.5	40	23	134
2-Methylnaphthalene	25.0	20.8	83.2	25.0	20.4	81.6	1.9	50	20	170
2-Nitroaniline	25.0	20.2	80.8	25.0	20.9	83.6	3.4	50	20	160
2-Nitrophenol	25.0	20.5	82.0	25.0	20.9	83.6	1.9	50	29	182
3,3'-Dichlorobenzidine	25.0	19.2	76.8	25.0	19.4	77.6	1.0	50	30	200
3-Nitroaniline	25.0	20.0	80.0	25.0	20.6	82.4	3.0	50	20	160
4,6-Dinitro-2-methylphenol	25.0	20.6	82.4	25.0	20.4	81.6	1.0	50	10	160
4-Bromophenyl phenyl ether	25.0	21.5	86.0	25.0	21.3	85.2	0.9	50	30	150
4-Chloro-3-methylphenol	25.0	20.6	82.4	25.0	20.6	82.4	0.0	42	25	160
4-Chloroaniline	25.0	21.4	85.6	25.0	21.1	84.4	1.4	50	20	160
4-Chlorophenyl phenyl ether	25.0	21.8	87.2	25.0	21.2	84.8	2.8	50	25	158
4-Nitroaniline	25.0	22.1	88.4	25.0	23.2	92.8	4.9	50	20	160
4-Nitrophenol	25.0	19.6	78.4	25.0	20.6	82.4	5.0	50	10	132
Acenaphthene	25.0	21.0	84.0	25.0	21.7	86.8	3.3	31	30	150
Acenaphthylene	25.0	21.9	87.6	25.0	22.3	89.2	1.8	50	33	250
Aniline	50.0	37.8	75.6	50.0	38.4	76.8	1.6	50	10	135
Anthracene	25.0	21.7	86.8	25.0	22.2	88.8	2.3	50	27	133
Benz(a)anthracene	25.0	22.6	90.4	25.0	22.5	90.0	0.4	50	33	143
Benzo(a)pyrene	25.0	20.8	83.2	25.0	21.0	84.0	1.0	50	17	163
Benzo(b)fluoranthene	25.0	22.1	88.4	25.0	22.1	88.4	0.0	50	24	159
Benzo(g,h,i)perylene	25.0	22.5	90.0	25.0	22.5	90.0	0.0	50	30	160
Benzo(k)fluoranthene	25.0	23.0	92.0	25.0	23.1	92.4	0.4	50	11	162

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HOUSTON LABORATORY
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HOUSTON, TX 77054
(713) 660-0901

Quality Control Report

Conoco Phillips

COP Wingate

Analysis: Semivolatile Organics by Method 8270C
Method: SW8270C
WorkOrder: 09061339
Lab Batch ID: 91487

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

RunID: J_090629B-5090852 Units: ug/L
Analysis Date: 06/29/2009 10:15 Analyst: S_G
Preparation Date: 06/26/2009 12:28 Prep By: N_M Method: SW3510C

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Benzoic acid	25.0	4.22	16.9	25.0	4.70	18.8	10.8	50	10	400
Benzyl alcohol	25.0	19.9	79.6	25.0	20.4	81.6	2.5	50	30	160
Bis(2-chloroethoxy)methane	25.0	20.4	81.6	25.0	20.0	80.0	2.0	50	33	184
Bis(2-chloroethyl)ether	25.0	20.3	81.2	25.0	20.2	80.8	0.5	50	12	158
Bis(2-chloroisopropyl)ether	25.0	19.7	78.8	25.0	19.2	76.8	2.6	50	20	160
Bis(2-ethylhexyl)phthalate	25.0	22.8	91.2	25.0	20.7	82.8	9.7	50	10	158
Butyl benzyl phthalate	25.0	23.5	94.0	25.0	22.2	88.8	5.7	50	30	160
Carbazole	25.0	21.5	86.0	25.0	22.3	89.2	3.7	50	30	150
Chrysene	25.0	22.0	88.0	25.0	21.8	87.2	0.9	50	17	168
Dibenz(a,h)anthracene	25.0	22.5	90.0	25.0	22.9	91.6	1.8	50	30	160
Dibenzofuran	25.0	21.6	86.4	25.0	22.1	88.4	2.3	50	30	150
Diethyl phthalate	25.0	22.3	89.2	25.0	21.7	86.8	2.7	50	30	160
Dimethyl phthalate	25.0	22.0	88.0	25.0	21.8	87.2	0.9	50	30	160
Di-n-butyl phthalate	25.0	23.4	93.6	25.0	21.9	87.6	6.6	50	30	160
Di-n-octyl phthalate	25.0	22.9	91.6	25.0	21.1	84.4	8.2	50	20	150
Fluoranthene	25.0	22.9	91.6	25.0	23.2	92.8	1.3	50	26	137
Fluorene	25.0	21.7	86.8	25.0	21.8	87.2	0.5	50	30	150
Hexachlorobenzene	25.0	20.8	83.2	25.0	20.8	83.2	0.0	50	20	150
Hexachlorobutadiene	25.0	20.4	81.6	25.0	19.9	79.6	2.5	50	20	140
Hexachlorocyclopentadiene	25.0	19.9	79.6	25.0	19.3	77.2	3.1	50	10	150
Hexachloroethane	25.0	19.6	78.4	25.0	19.5	78.0	0.5	50	14	120
Indeno(1,2,3-cd)pyrene	25.0	24.7	98.8	25.0	25.0	100	1.2	50	30	160
Isophorone	25.0	22.8	91.2	25.0	22.4	89.6	1.8	50	21	196
Naphthalene	25.0	21.2	84.8	25.0	21.0	84.0	0.9	50	21	133
Nitrobenzene	25.0	20.1	80.4	25.0	19.8	79.2	1.5	50	20	160
N-Nitrosodi-n-propylamine	25.0	20.8	83.2	25.0	20.5	82.0	1.5	38	30	160
N-Nitrosodiphenylamine	50.0	50.6	101	50.0	50.9	102	0.6	50	30	150
Pentachlorophenol	25.0	20.5	82.0	25.0	20.2	80.8	1.5	50	14	176
Phenanthrene	25.0	21.8	87.2	25.0	21.8	87.2	0.0	50	10	140
Phenol	25.0	21.5	86.0	25.0	21.9	87.6	1.8	42	40	132
Pyrene	25.0	21.5	86.0	25.0	21.3	85.2	0.9	38	30	150
Pyridine	50.0	32.9	65.8	50.0	33.3	66.6	1.2	50	10	150
2-Methylphenol	25.0	20.8	83.2	25.0	20.9	83.6	0.5	50	30	160

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TNTC - Too numerous to count

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Quality Control Report

Conoco Phillips

COP Wingate

Analysis: Semivolatile Organics by Method 8270C **WorkOrder:** 09061339
Method: SW8270C **Lab Batch ID:** 91487

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

RunID: J_090629B-5090852 Units: ug/L
Analysis Date: 06/29/2009 10:15 Analyst: S_G
Preparation Date: 06/26/2009 12:28 Prep By: N_M Method: SW3510C

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
3 & 4-Methylphenol	25.0	21.2	84.8	25.0	21.7	86.8	2.3	50	10	160
Surr: 2,4,6-Tribromophenol	75.0	67.8	90.4	75.0	68.9	91.9	1.6	30	10	123
Surr: 2-Fluorobiphenyl	50.0	41.1	82.2	50.0	42.2	84.4	2.6	30	23	116
Surr: 2-Fluorophenol	75.0	59.1	78.8	75.0	59.3	79.1	0.3	30	16	110
Surr: Nitrobenzene-d5	50.0	38.9	77.8	50.0	39.3	78.6	1.0	30	21	114
Surr: Phenol-d5	75.0	60.7	80.9	75.0	61.8	82.4	1.8	30	10	110
Surr: Terphenyl-d14	50.0	42.5	85.0	50.0	41.2	82.4	3.1	30	22	141

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Quality Control Report

Conoco Phillips

COP Wingate

Analysis: Volatile Organics by Method 8260B
Method: SW8260B
WorkOrder: 09061339
Lab Batch ID: R276914

Method Blank

RunID: Q_090629A-5092157 Units: ug/L
Analysis Date: 06/29/2009 18:41 Analyst: JC

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	91.5	78-116
Surr: 4-Bromofluorobenzene	95.9	74-125
Surr: Toluene-d8	94.7	82-118

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
09061339-01A	MWR-1
09061339-02A	WMW-3
09061339-03A	WMW-2
09061339-06A	Duplicate

Laboratory Control Sample (LCS)

RunID: Q_090629A-5092156 Units: ug/L
Analysis Date: 06/29/2009 18:13 Analyst: JC

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Benzene	20.0	19.1	95.5	74	123
Ethylbenzene	20.0	22.0	110	72	127
Toluene	20.0	19.7	98.7	74	126
m,p-Xylene	40.0	45.7	114	71	129
o-Xylene	20.0	22.7	113	74	130
Xylenes,Total	60.0	68.4	114	71	130
Surr: 1,2-Dichloroethane-d4	50.0	45.1	90.2	78	116
Surr: 4-Bromofluorobenzene	50.0	51.4	103	74	125
Surr: Toluene-d8	50.0	49	98.0	82	118

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

Sample Spiked: 09061336-01
RunID: Q_090629A-5092159 Units: ug/L
Analysis Date: 06/29/2009 19:35 Analyst: JC

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

Conoco Phillips

COP Wingate

Analysis: Volatile Organics by Method 8260B **WorkOrder:** 09061339
Method: SW8260B **Lab Batch ID:** R276914

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	1000	830	83.0	1000	843	84.3	1.51	22	70	124
Ethylbenzene	ND	1000	949	94.9	1000	964	96.4	1.54	20	76	122
Toluene	ND	1000	857	85.7	1000	881	88.1	2.68	24	80	117
m,p-Xylene	ND	2000	2000	100	2000	1980	99.0	1.09	20	69	127
o-Xylene	ND	1000	1010	101	1000	1030	103	1.33	20	84	114
Xylenes,Total	ND	3000	3010	100	3000	3010	100	0.273	20	69	127
Surr: 1,2-Dichloroethane-d4	ND	2500	2110	84.6	2500	2270	90.8	7.12	30	78	116
Surr: 4-Bromofluorobenzene	ND	2500	2530	101	2500	2560	103	1.30	30	74	125
Surr: Toluene-d8	ND	2500	2360	94.4	2500	2350	94.1	0.232	30	82	118

Qualifiers:

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B/V - Analyte detected in the associated Method Blank
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E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
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Quality Control Report

Conoco Phillips

COP Wingate

Analysis: Volatile Organics by Method 8260B
Method: SW8260B
WorkOrder: 09061339
Lab Batch ID: R277035

Method Blank

RunID: Q_090630A-5093399 Units: ug/L
Analysis Date: 06/30/2009 11:26 Analyst: JC

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
09061339-03A	WMW-2
09061339-06A	Duplicate

Analyte	Result	Rep Limit
Benzene	ND	5.0
Toluene	ND	5.0
Surr: 1,2-Dichloroethane-d4	95.9	78-116
Surr: 4-Bromofluorobenzene	96.6	74-125
Surr: Toluene-d8	92.2	82-118

Laboratory Control Sample (LCS)

RunID: Q_090630A-5093398 Units: ug/L
Analysis Date: 06/30/2009 10:59 Analyst: JC

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Benzene	20.0	19.0	94.8	74	123
Toluene	20.0	20.0	100	74	126
Surr: 1,2-Dichloroethane-d4	50.0	45.8	91.5	78	116
Surr: 4-Bromofluorobenzene	50.0	52	104	74	125
Surr: Toluene-d8	50.0	48.6	97.2	82	118

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

Sample Spiked: 09061339-06
RunID: Q_090630A-5093402 Units: ug/L
Analysis Date: 06/30/2009 12:48 Analyst: JC

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	9650	1000	10800	N/C	1000	10800	N/C	N/C	22	70	124
Toluene	288	1000	1280	99.4	1000	1310	102	1.90	24	80	117
Surr: 1,2-Dichloroethane-d4	ND	2500	2110	84.3	2500	2120	84.7	0.415	30	78	116
Surr: 4-Bromofluorobenzene	ND	2500	2510	100	2500	2510	100	0.278	30	74	125

Qualifiers:

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

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Quality Control Report

Conoco Phillips
COP Wingate

Analysis: Volatile Organics by Method 8260B
Method: SW8260B
WorkOrder: 09061339
Lab Batch ID: R277035

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

Sample Spiked: 09061339-06
RunID: Q_090630A-5093402 Units: ug/L
Analysis Date: 06/30/2009 12:48 Analyst: JC

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Surr: Toluene-d8	ND	2500	2290	91.6	2500	2310	92.3	0.757	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
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

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Quality Control Report

Conoco Phillips

COP Wingate

Analysis: Volatile Organics by Method 8260B
Method: SW8260B
WorkOrder: 09061339
Lab Batch ID: R277121

Method Blank

RunID: Q_090701A-5094845 Units: ug/L
Analysis Date: 07/01/2009 4:48 Analyst: JC

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	89.5	78-116
Surr: 4-Bromofluorobenzene	95.0	74-125
Surr: Toluene-d8	90.7	82-118

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
09061339-04A	Pond 1 (East)
09061339-05A	Pond 2 (West)
09061339-07A	Trip Blank (SPL Prepared)

Laboratory Control Sample (LCS)

RunID: Q_090701A-5094842 Units: ug/L
Analysis Date: 07/01/2009 4:21 Analyst: JC

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Benzene	20.0	20.7	104	74	123
Ethylbenzene	20.0	21.6	108	72	127
Toluene	20.0	19.3	96.7	74	126
m,p-Xylene	40.0	45.3	113	71	129
o-Xylene	20.0	23.8	119	74	130
Xylenes,Total	60.0	69.1	115	71	130
Surr: 1,2-Dichloroethane-d4	50.0	45.1	90.3	78	116
Surr: 4-Bromofluorobenzene	50.0	49.7	99.4	74	125
Surr: Toluene-d8	50.0	44.7	89.5	82	118

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

Sample Spiked: 09061467-01
RunID: Q_090701A-5094855 Units: ug/L
Analysis Date: 07/01/2009 10:12 Analyst: JC

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

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Quality Control Report

Conoco Phillips

COP Wingate

Analysis: Volatile Organics by Method 8260B
Method: SW8260B

WorkOrder: 09061339
Lab Batch ID: R277121

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	21.0	105	20	20.3	102	2.98	22	70	124
Ethylbenzene	ND	20	22.1	110	20	21.2	106	4.03	20	76	122
Toluene	ND	20	19.9	99.4	20	19.1	95.4	4.02	24	80	117
m,p-Xylene	ND	40	44.8	112	40	43.3	108	3.57	20	69	127
o-Xylene	ND	20	22.6	113	20	22.5	112	0.700	20	84	114
Xylenes,Total	ND	60	67.4	112	60	65.8	110	2.60	20	69	127
Surr: 1,2-Dichloroethane-d4	ND	50	42.8	85.7	50	42.6	85.2	0.564	30	78	116
Surr: 4-Bromofluorobenzene	ND	50	48.1	96.2	50	49.3	98.6	2.45	30	74	125
Surr: Toluene-d8	ND	50	45.7	91.3	50	45.2	90.4	0.957	30	82	118

Qualifiers:

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E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

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

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Quality Control Report

Conoco Phillips

COP Wingate

Analysis: pH
Method: SM4500-H B

WorkOrder: 09061339
Lab Batch ID: R276491

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
09061339-01C	MWR-1
09061339-02C	WMW-3
09061339-03C	WMW-2
09061339-04C	Pond 1 (East)
09061339-05C	Pond 2 (West)

Laboratory Control Sample (LCS)

RunID: WET_090625I-5084667 Units: pH Units
Analysis Date: 06/25/2009 14:00 Analyst: PAC

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
pH	7.000	7.030	100.4	98	102

Sample Duplicate

Original Sample: 09061344-01
RunID: WET_090625I-5084680 Units: pH Units
Analysis Date: 06/25/2009 14:00 Analyst: PAC

Analyte	Sample Result	DUP Result	RPD	RPD Limit
pH	7.72	7.7	0.259	5

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
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
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable 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.

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Quality Control Report

Conoco Phillips

COP Wingate

Analysis: Total Dissolved Solids
Method: E160.1

WorkOrder: 09061339
Lab Batch ID: R276566

Method Blank

RunID: WET_090625ZA-5085789 Units: mg/L
Analysis Date: 06/25/2009 15:00 Analyst: BDG

Analyte	Result	Rep Limit
Total Dissolved Solids (Residue,Filterable)	ND	10

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
09061339-01B	MWR-1
09061339-03B	WMW-2
09061339-04B	Pond 1 (East)

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

RunID: WET_090625ZA-5085791 Units: mg/L
Analysis Date: 06/25/2009 15:00 Analyst: BDG

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Total Dissolved Solids (Residue,Filterabl	200.0	202.0	101.0	200.0	199.0	99.50	1.5	10	95	107

Sample Duplicate

Original Sample: 09061252-04
RunID: WET_090625ZA-5085796 Units: mg/L
Analysis Date: 06/25/2009 15:00 Analyst: BDG

Analyte	Sample Result	DUP Result	RPD	RPD Limit
Total Dissolved Solids (Residue,Filterabl	1030	1033	0.583	10

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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Quality Control Report

Conoco Phillips

COP Wingate

Analysis: Chemical Oxygen Demand
Method: SM5220 C
WorkOrder: 09061339
Lab Batch ID: R276598

Method Blank

RunID: WET_090626F-5086221 Units: mg/L
Analysis Date: 06/26/2009 10:30 Analyst: PAC

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
09061339-01G	MWR-1
09061339-05G	Pond 2 (West)

Analyte	Result	Rep Limit
Chemical Oxygen Demand	ND	3.0

Laboratory Control Sample (LCS)

RunID: WET_090626F-5086223 Units: mg/L
Analysis Date: 06/26/2009 10:30 Analyst: PAC

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Chemical Oxygen Demand	104.0	100.0	96.15	85	115

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

Sample Spiked: 09061399-01
RunID: WET_090626F-5086228 Units: mg/L
Analysis Date: 06/26/2009 10:30 Analyst: PAC

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Chemical Oxygen Demand	35.00	50	87.50	105.0	50	87.50	105.0	0	10	80	120

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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Quality Control Report

Conoco Phillips

COP Wingate

Analysis: Chemical Oxygen Demand
Method: SM5220 C

WorkOrder: 09061339
Lab Batch ID: R276598A

Method Blank

RunID: WET_090626F-5086221 Units: mg/L
Analysis Date: 06/26/2009 10:30 Analyst: PAC

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
09061339-04G	Pond 1 (East)

Analyte	Result	Rep Limit
Chemical Oxygen Demand	ND	3.0

Laboratory Control Sample (LCS)

RunID: WET_090626F-5086223 Units: mg/L
Analysis Date: 06/26/2009 10:30 Analyst: PAC

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Chemical Oxygen Demand	104.0	100.0	96.15	85	115

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

Sample Spiked: 09061339-04
RunID: WET_090626F-5086237 Units: mg/L
Analysis Date: 06/26/2009 10:30 Analyst: PAC

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Chemical Oxygen Demand	67.50	50	112.5	90.00	50	112.5	90.00	0	10	80	120

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

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Quality Control Report

Conoco Phillips

COP Wingate

Analysis: Total Coliforms
Method: M9222 B

WorkOrder: 09061339
Lab Batch ID: R276619

Method Blank

RunID: WET_090625ZC-5086699 Units: colonies/100mL
Analysis Date: 06/25/2009 13:30 Analyst: S_H

Analyte	Result	Rep Limit
Coliform, Total	ND	1.0

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
09061339-01H	MWR-1
09061339-04H	Pond 1 (East)
09061339-05H	Pond 2 (West)

Sample Duplicate

Original Sample: 09061339-04
RunID: WET_090625ZC-5086701 Units: colonies/100mL
Analysis Date: 06/25/2009 13:30 Analyst: S_H

Analyte	Sample Result	DUP Result	RPD	RPD Limit
Coliform, Total	4	2	67 *	48

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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Quality Control Report

Conoco Phillips

COP Wingate

Analysis: Ion Chromatography
Method: E300.0
WorkOrder: 09061339
Lab Batch ID: R276662

Method Blank

RunID: IC2_090626C-5087304 Units: mg/L
Analysis Date: 06/26/2009 16:05 Analyst: BDG

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
09061339-05C	Pond 2 (West)

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

Laboratory Control Sample (LCS)

RunID: IC2_090626C-5087305 Units: mg/L
Analysis Date: 06/26/2009 16:24 Analyst: BDG

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Nitrogen,Nitrate (As N)	10.00	9.450	94.50	90	110

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

Sample Spiked: 09061274-01
RunID: IC2_090626C-5087312 Units: mg/L
Analysis Date: 06/26/2009 22:37 Analyst: BDG

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Nitrogen,Nitrate (As N)	ND	10	9.126	91.26	10	9.114	91.14	0.1316	20	80	120

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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Quality Control Report

Conoco Phillips

COP Wingate

Analysis: Ion Chromatography
Method: E300.0

WorkOrder: 09061339
Lab Batch ID: R276737

Method Blank

RunID: IC1_090627A-5088433 Units: mg/L
Analysis Date: 06/27/2009 12:01 Analyst: BDG

Analyte	Result	Rep Limit
Chloride	ND	0.50
Sulfate	ND	0.50

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
09061339-01C	MWR-1
09061339-02C	WMW-3
09061339-03C	WMW-2
09061339-04C	Pond 1 (East)
09061339-05C	Pond 2 (West)

Laboratory Control Sample (LCS)

RunID: IC1_090627A-5088434 Units: mg/L
Analysis Date: 06/27/2009 12:17 Analyst: BDG

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Chloride	10.00	9.125	91.25	85	115
Sulfate	10.00	10.44	104.4	85	115

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

Sample Spiked: 09061415-14
RunID: IC1_090627A-5088463 Units: mg/L
Analysis Date: 06/27/2009 20:37 Analyst: BDG

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Chloride	25.40	500	470.0	88.92	500	471.1	89.15	0.2376	20	80	120
Sulfate	105.1	500	615.7	102.1	500	616.0	102.2	0.05018	20	80	120

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

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Quality Control Report

Conoco Phillips

COP Wingate

Analysis: Ion Chromatography **WorkOrder:** 09061339
Method: E300.0 **Lab Batch ID:** R276740

Method Blank

RunID: IC2_090625A-5088555 Units: mg/L
Analysis Date: 06/25/2009 12:11 Analyst: BDG

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

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
09061339-01C	MWR-1
09061339-02C	WMW-3
09061339-03C	WMW-2
09061339-04C	Pond 1 (East)

Laboratory Control Sample (LCS)

RunID: IC2_090625A-5088556 Units: mg/L
Analysis Date: 06/25/2009 12:31 Analyst: BDG

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Nitrogen,Nitrate (As N)	10.00	10.09	100.9	90	110

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

Sample Spiked: 09061338-01
RunID: IC2_090625A-5088591 Units: mg/L
Analysis Date: 06/26/2009 2:01 Analyst: BDG

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Nitrogen,Nitrate (As N)	4.915	10	12.06	71.41 *	10	12.25	73.32 *	1.568	20	80	120

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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Quality Control Report

Conoco Phillips

COP Wingate

Analysis: Ion Chromatography
Method: E300.0
WorkOrder: 09061339
Lab Batch ID: R276983A

Method Blank

RunID: IC1_090629A-5092295 Units: mg/L
Analysis Date: 06/29/2009 11:24 Analyst: BDG

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
09061339-03C	WMW-2

Analyte	Result	Rep Limit
Sulfate	ND	0.50

Laboratory Control Sample (LCS)

RunID: IC1_090629A-5092296 Units: mg/L
Analysis Date: 06/29/2009 11:41 Analyst: BDG

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Sulfate	10.00	10.90	109.0	85	115

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

Sample Spiked: 09061343-01
RunID: IC1_090629A-5092319 Units: mg/L
Analysis Date: 06/29/2009 21:23 Analyst: BDG

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	90.43	100	209.3	118.9	100	201.5	111.1	3.789	20	80	120

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

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Quality Control Report

Conoco Phillips

COP Wingate

Analysis: Biochemical Oxygen Demand - 5 Days
Method: SM5210 B
WorkOrder: 09061339
Lab Batch ID: R276993

Method Blank

RunID: WET_090625ZH-5092613 Units: mg/L
Analysis Date: 06/25/2009 12:30 Analyst: S_H

Analyte	Result	Rep Limit
Biochemical Oxygen Demand	ND	2.0

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
09061339-01F	MWR-1
09061339-04F	Pond 1 (East)
09061339-05F	Pond 2 (West)

Laboratory Control Sample (LCS)

RunID: WET_090625ZH-5092615 Units: mg/L
Analysis Date: 06/25/2009 12:30 Analyst: S_H

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Biochemical Oxygen Demand	198.0	198.0	100.0	83.7	114

Sample Duplicate

Original Sample: 09061327-04
RunID: WET_090625ZH-5092616 Units: mg/L
Analysis Date: 06/25/2009 12:30 Analyst: S_H

Analyte	Sample Result	DUP Result	RPD	RPD Limit
Biochemical Oxygen Demand	65.6	63.75	2.94	20

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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Quality Control Report

Conoco Phillips

COP Wingate

Analysis: Alkalinity (as CaCO3), Total
Method: E310.1
WorkOrder: 09061339
Lab Batch ID: R277103

Method Blank

RunID: WET_090630N-5094587 Units: mg/L
Analysis Date: 06/30/2009 18:00 Analyst: PAC

Analyte	Result	Rep Limit
Alkalinity, Total (As CaCO3)	ND	2.0

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
09061339-01B	MWR-1
09061339-02B	WMW-3
09061339-03B	WMW-2
09061339-04B	Pond 1 (East)
09061339-05B	Pond 2 (West)

Laboratory Control Sample (LCS)

RunID: WET_090630N-5094589 Units: mg/L
Analysis Date: 06/30/2009 18:00 Analyst: PAC

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Alkalinity, Total (As CaCO3)	38.70	38.00	98.19	90	110

Sample Duplicate

Original Sample: 09061339-05
RunID: WET_090630N-5094594 Units: mg/L
Analysis Date: 06/30/2009 18:00 Analyst: PAC

Analyte	Sample Result	DUP Result	RPD	RPD Limit
Alkalinity, Total (As CaCO3)	435	435	0	20

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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Quality Control Report

Conoco Phillips

COP Wingate

Analysis: Total Dissolved Solids
Method: E160.1

WorkOrder: 09061339
Lab Batch ID: R277174

Method Blank

RunID: WET_090630Y-5095616 Units: mg/L
Analysis Date: 06/30/2009 10:30 Analyst: CFS

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
09061339-05B	Pond 2 (West)

Analyte	Result	Rep Limit
Total Dissolved Solids (Residue,Filterable)	ND	10

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

RunID: WET_090630Y-5095618 Units: mg/L
Analysis Date: 06/30/2009 10:30 Analyst: CFS

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Total Dissolved Solids (Residue,Filterabl	200.0	201.0	100.5	200.0	202.0	101.0	0.5	10	95	107

Sample Duplicate

Original Sample: 09061426-01
RunID: WET_090630Y-5095622 Units: mg/L
Analysis Date: 06/30/2009 10:30 Analyst: CFS

Analyte	Sample Result	DUP Result	RPD	RPD Limit
Total Dissolved Solids (Residue,Filterabl	533	534	0.187	10

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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Quality Control Report

Conoco Phillips

COP Wingate

Analysis: Total Dissolved Solids
Method: E160.1
WorkOrder: 09061339
Lab Batch ID: R277267

Method Blank

RunID: WET_090630ZE-5097156 Units: mg/L
Analysis Date: 06/30/2009 10:30 Analyst: CFS

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
09061339-02B	WMW-3

Analyte	Result	Rep Limit
Total Dissolved Solids (Residue,Filterable)	ND	10

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

RunID: WET_090630ZE-5097158 Units: mg/L
Analysis Date: 06/30/2009 10:30 Analyst: CFS

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Total Dissolved Solids (Residue,Filterabl	200.0	201.0	100.5	200.0	202.0	101.0	0.5	10	95	107

Sample Duplicate

Original Sample: 09061426-01
RunID: WET_090630ZE-5097162 Units: mg/L
Analysis Date: 06/30/2009 10:30 Analyst: CFS

Analyte	Sample Result	DUP Result	RPD	RPD Limit
Total Dissolved Solids (Residue,Filterabl	533	534	0.187	10

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.

Sample Receipt Checklist

And

Chain of Custody

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

Sample Receipt Checklist

Workorder:	**09061339**	Received By:	**CAW**
Date and Time Received:	**6/25/2009 9:15:00 AM**	Carrier name:	**Fedex-Priority**
Temperature:	**1.3°C**	Chilled by:	**Water Ice**

1. **Shipping container/cooler in good condition?** 867026830577-1.3C ,8670268305880.7 C,867026830614 1.3 C	Yes ☑	No ☐	Not Present ☐	
2. **Custody seals intact on shippping container/cooler?**	Yes ☑	No ☐	Not Present ☐	
3. **Custody seals intact on sample bottles?**	Yes ☐	No ☐	Not Present ☑	
4. **Chain of custody present?**	Yes ☑	No ☐		
5. **Chain of custody signed when relinquished and received?**	Yes ☑	No ☐		
6. **Chain of custody agrees with sample labels?**	Yes ☑	No ☐		
7. **Samples in proper container/bottle?**	Yes ☑	No ☐		
8. **Sample containers intact?**	Yes ☑	No ☐		
9. **Sufficient sample volume for indicated test?**	Yes ☑	No ☐		
10. **All samples received within holding time?** 1. Received coliform samples expired.	Yes ☐	No ☑		
11. **Container/Temp Blank temperature in compliance?**	Yes ☑	No ☐		
12. **Water - VOA vials have zero headspace?**	Yes ☑	No ☐	VOA Vials Not Present ☐	
13. **Water - Preservation checked upon receipt (except VOA*)?**	Yes ☑	No ☐	Not Applicable ☐	

***VOA Preservation Checked After Sample Analysis**

SPL Representative: _____ **Contact Date & Time:** _____

Client Name Contacted: _____

Non Conformance Issues: 1. Proceed as per EC.

Client Instructions:

SPL, Inc.

Analysis Request & Chain of Custody Record

SPL Workorder No. 90961339 | 327819

~~90961338~~ page 1 of 3

Client Name: Tetra Tech
Address: 6121 Indian School Rd NE, Suite 200
City Albuquerque State NM Zip 87108
Phone/Fax: 505-237-8440/8656
Client Contact: Kelly Blanchard Email: Kelly.blanchard@tetratech.com
Project Name/No.: Wingate Annual Groundwater Sampling
Site Name: Conoco Phillips Wingate Fractionating Plant
Site Location: Gallup, NM
Invoice To: COP Ph:

SAMPLE ID	DATE	TIME	comp	grab	matrix (W=water S=soil O=oil A=air SL=sludge E=extore X=other)	bottle (P=plastic A=amber glass G=glass V=vial X=other)	size (1=1 liter 4=4oz 40=vial 8=8oz 16=16oz X=other)	pres. (1=HCl 2=HNO3 3=H2SO4 X=other)	Number of Containers	Requested Analysis: 8260 - VOC (BTEX)	8270 - SVOCs	TDS, pH, Alk	Cl, SO4, Nitrate	Coliform	COD	BOD	12 metals - 6020/6010
MWR-1	6-24-09	940		X	W	V	40	1	3	X							
MWR-1	6-24-09	940		X	W	P	1	Ø	2			X	X				
MWR-1	6-24-09	940		X	W	A	1	Ø	2		X						
MWR-1	6-24-09	940		X	W	P	16	3	~~3~~						X		
MWR-1	6-24-09	940		X	W	P	32	Ø	1							X	
MWR-1	6-24-09	940		X	W	P	X	X	2					X			
MWR-1	6-24-09	940		X	W	P	1	2	1								X
WMW-3	6-24-09	1055		X	W	V	40	1	3	X							
WMW-3	6-24-09	1055		X	W	P	1	Ø	2			X	X				
WMW-3	6-24-09	1055		X	W	A	1	Ø	2		X						

RUSH

Client/Consultant Remarks:

Laboratory remarks:

Intact? Y N
Ice? Y N
Temp: 1.3, 0.8, 0

Requested TAT

- ☐ 1 Business Day
- ☐ 2 Business Days
- ☐ 3 Business Days
- ☐ Contract
- ☒ Standard
- ☐ Other _____

Rush TAT requires prior notice

Special Reporting Requirements Results: Fax ☐ Email ☒ PDF ☐

Standard QC ☒ Level 3 QC ☐ Level 4 QC ☐ TX TRRP ☐ LA RECAP ☐

Special Detection Limits (specify):

PM review (initial):

	date	time	
1. Relinquished by Sampler: Kelly Blanchard	4-24-09	16:30	2. Received by:
3. Relinquished by:	date	time	4. Received by:
5. Relinquished by:	date 4/25/09	time 915A	6. Received by Laboratory: Cam White

☐ 8880 Interchange Drive
Houston, TX 77054 (713) 660-0901

☐ 500 Ambassador Caffery Parkway
Scott, LA 70583 (337) 237-4775

☐ 459 Hughes Drive
Traverse City, MI 49686 (231) 947-5777

SPL, Inc.
Analysis Request & Chain of Custody Record

SPL Workorder No. 327820
90613339
page 2 of 3

Client Name: Tetra Tech
Address: 6121 Indian School Rd NE, Suite 200
City Albuquerque State NM Zip 87108
Phone/Fax: 505-237-8440/8656
Client Contact: Kelly Blanchard Email: Kelly.blanchard@tetratech.com
Project Name/No.: ConocoPhillips Wingate Annual Groundwater
Site Name: Wingate Fractionating Plant
Site Location: Gallup, NM
Invoice To: ConocoPhillips Ph:

SAMPLE ID	DATE	TIME	comp	grab	matrix (W=water S=soil/SL=sludge O=oil A=air E=encore X=other)	bottle (P=plastic A=amber glass G=glass V=vial X=other)	size (1=1 liter 4=4oz 40=vial 8=8oz 16=16oz X=other)	pres. (1=HCl 2=HNO3 3=H2SO4 X=other)	Number of Containers	Requested Analysis: 8260 BTEX	8270 SVOCs	TDS, pH, Alk	Cl, SO4, Nitrate	Coliform	PAH	COD	12 metals - total, dissolved
WMW-3	6-24-09	1055		X	W	P	1	2	1								X
WMW-2	6-24-09	1210		X	W	V	40	1	3	X							
WMW-2	6-24-09	1210		X	W	P	1	Ø	2			X	X				
WMW-2	6-24-09	1210		X	W	A	1	Ø	2		X						
WMW-2	6-24-09	1210		X	W	P	1	2	1								X
Pond 1 (East)	6-24-09	840		X	W	V	40	1	3	X							
Pond 1 (East)	6-24-09	840		X	W	P	1	Ø	2			X	X				
Pond 1 (East)	6-24-09	840		X	W	A	1	Ø	2		X						
Pond 1 (East)	6-24-09	840		X	W	P	16	3	1							X	
Pond 1 (East)	6-24-09	840		X	W	P	32	X	1						X		

Client/Consultant Remarks:

Laboratory remarks:

Intact? Y N
Ice? Y N
Temp: 1.3 C0.8

Requested TAT
- 1 Business Day
- 2 Business Days
- 3 Business Days
- Contract
- Standard
- Other
- Rush TAT requires prior notice

Special Reporting Requirements Results: Fax Email PDF
Standard QC Level 3 QC Level 4 QC TX TRRP LA RECAP

Special Detection Limits (specify):

PM review (initial):

	date	time	
1. Relinquished by Sampler: Kelly Blanchard	6-24-09	1630	2. Received by:
3. Relinquished by:	date	time	4. Received by:
5. Relinquished by:	date 6/25/09	time 915A	6. Received by Laboratory: Caw Brite

8880 Interchange Drive
Houston, TX 77054 (713) 660-0901

500 Ambassador Caffery Parkway
Scott, LA 70583 (337) 237-4775

459 Hughes Drive
Traverse City, MI 49686 (231) 947-5777

SPL, Inc.
Analysis Request & Chain of Custody Record

SPL Workorder No.: 327821
090613 39
page 3 of 3

Client Name: TetraTech
Address: 6121 Indian School Rd NE, Suite 200
City: Albuquerque State: NM Zip: 87108
Phone/Fax: 505-237-8440 / 8656
Client Contact: Kelly Blanchard Email: kelly.blanchard@tetratech
Project Name/No.: Wingate Annual Sampling
Site Name: Wingate Fractionating Plant
Site Location: Gallup, NM
Invoice To: ConocoPhillips Ph:

matrix: W=water S=soil O=oil A=air SL=sludge E=encore X=other
bottle: P=plastic A=amber glass G=glass V=vial X=other
size: 1=1 liter 4=4oz 40=vial 8=8oz 16=16oz X=other
pres.: 1=HCl 2=HNO3 3=H2SO4 X=other

SAMPLE ID	DATE	TIME	comp	grab	matrix	bottle	size	pres.	Number of Containers	Requested Analysis: 8260 BTEX	8270 SVOCs	TDS, pH, Alk	Cl, SO4, Nitrate	Coliform	COD	BOD	12 metals 6010 6020
Pond 1 (East)	6-24-09	840		X	W	P	X	X	1					X			X LB
Pond 1 (East)	6-24-09	840		X	W	P	1	2	1								X
Pond 2 (West)	6-24-09	935		X	W	V	40	1	3	X							
Pond 2 (West)	6-24-09	935		X	W	P	1	Ø	2			X	X				
Pond 2 (West)	6-24-09	935		X	W	A	1	Ø	2		X						
Pond 2 (West)	6-24-09	935		X	W	P	16	3	1						X		
Pond 2 (West)	6-24-09	935		X	W	P	32	Ø	1							X	
Pond 2 (West)	6-24-09	935		X	W	P	X	X	2					X			
Pond 2 (West)	6-24-09	935		X	W	P	1	2	1								X
Duplicate	6-24-09	930		X	W	V	40	1 Ø	3	X							

Client/Consultant Remarks:

Laboratory remarks: LB Trip Blank for BTEX only please.

Intact? ☐ Y ☐ N
Ice? ☐ Y ☐ N
Temp: 4.3 0.8 0.7

Requested TAT
☐ 1 Business Day ☐ Contract
☐ 2 Business Days ☒ Standard
☐ 3 Business Days
☐ Other _____
Rush TAT requires prior notice

Special Reporting Requirements Results: Fax ☐ Email ☒ PDF ☐
Standard QC ☒ Level 3 QC ☐ Level 4 QC ☐ TX TRRP ☐ LA RECAP ☐

Special Detection Limits (specify):

PM review (initial):

	date	time	
1. Relinquished by Sampler: Kelly Blanchard	6-24-09	16:30	2. Received by:
3. Relinquished by:	date	time	4. Received by:
5. Relinquished by:	date 6/25/09	time 915	6. Received by Laboratory: Cardinal

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☐ 500 Ambassador Caffery Parkway
Scott, LA 70583 (337) 237-4775

☐ 459 Hughes Drive
Traverse City, MI 49686 (231) 947-5777