GW - 054

2010
AGWMR

09/10/2010

TETRA TECH, INC.

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

September 10, 2010

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

Subject: 2010 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

Kelly E. Blanchard
Project Manager/Geologist

Enclosures (1)

Cc: Beverly Cox, ConocoPhillips
Kim Kamps, ConocoPhillips

2010 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.
6121 Indian School Rd. Suite 200
Albuquerque, New Mexico 87110
(505) 237-8440

ConocoPhillips Work Order No.: 4506659939
Tetra Tech Project No.: 114-690165

September 2010

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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, with the most recent revision dated April 9, 2009.

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 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 21 through June 23, 2010. 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 west end of the facility. 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, or ConocoPhillips leased property except for WMW-3 and WMW-8, which are located 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 2010 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 21 through June 23, 2010. A dual interface probe was used to measure groundwater depths and check for the presence of light non-aqueous phase liquids (LNAPL) in each of the site monitor wells; this data, along with casing diameter and total depth information, was used to calculate the water volume in each monitor well. Before and after each use, the dual interface probe was cleaned with an Alconox®/de-ionized water solution, and then 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 556 multi-parameter sonde, and were recorded on Tetra Tech, Groundwater Sampling Field forms as presented in **Appendix B**. 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 polyvinyl chloride tubing attached to the submersible pump or hand bailed with a dedicated, disposable polyehthylene bailer 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 and tubing followed by circulating a de-ionized water rinse. WMW-2, the monitor well known to historically contain benzene above the New Mexico Water Quality Control Commission (NMWQCC) groundwater quality standard, was sampled last. No measureable thickness of LNAPL was indicated by the dual interface probe in monitor well WMW-2 but a slight discontinuous sheen was observed on the surface of the purge water removed from the well prior to collecting the sample for laboratory analysis.

Following collection, sample containers were immediately labeled, placed on ice, and chilled to approximately 4° Celsius. Samples were submitted to Southern Petroleum Laboratory (SPL) 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; dissolved metals including, arsenic, barium, calcium, cadmium, chromium, magnesium, selenium, silver, sodium, and lead by EPA Method 6010B; total mercury by EPA Method 7470A; 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 Biological 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) groundwater quality standards contained in Title 20, Chapter 6, Part 2, Section 3103 of the New Mexico Administrative Code (20.6.2.3103 NMAC). Applicable groundwater 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 2010 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 C**.

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

The shallow, vadose zone wells installed to monitor possible evaporation pond seepage 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 2010 sampling fieldwork as well as historically. Thus, no water samples were collected from these wells and no seepage 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 MWR-1, MW-2 and MW-3. Results for COD in MWR-1, MW-2 and MW-3 were comparable to historical results which have never exceeded the COD limit of 125 mg/l. The samples collected from MWR-1, MW-2, and MW-3 were all below laboratory detection limits with results of less than one colony per 100 ml for total coliform. The Discharge Plan limit for total coliform is 500/100 ml. Analytical result concentrations from MWR-1, MW-2, and MW-3 were above NMWQCC groundwater quality standard for manganese with results of 0.217, 0.317, and 0.480, respectively. TDS results were also above NMWQCC standard of 1,000 mg/L in MWR-1 and MW-2 with results of 1,200 mg/L and 1,360 mg/L, respectively. No other analytical results exceeded applicable NMWQCC groundwater quality standards in any of the evaporation pond perimeter monitor wells.

The East Evaporation Pond sample had a COD result similar to historical results and below the Discharge Plan limit with a result of 107 mg/L. BOD was also below the Discharge Plan limits, but the value did increase slightly in the East Evaporation Pond to 5.54 mg/L. Constituents that returned analytical results over NMWQCC standards in the East Evaporation Pond were pH, sulfate, chloride, and TDS concentrations. Results for total coliform analysis indicate that total coliform in the East Pond to be > 2419.6 colonies per 100 mL of water, however, results for *e.coli* indicate < 1 colony per 100 mL of water. The site discharge permit limit for fecal coliform is 500 colonies per 100 mL of water. Due to the remote location of the site, laboratory holding times for fecal coliform analysis, and the distance to the nearest analytical lab from the site, the site discharge permit was revised to allow total coliform analysis in place of fecal coliform analysis.

The West Evaporation Pond sample contained a COD concentration of 2,950 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 total coliform at < 1 colony per 100 mL of water, and had a BOD concentration of 7.7 mg/L, both below discharge permit levels. Constituents that returned analytical results over NMWQCC standards in the West Evaporation Pond were COD, sulfate, chloride and TDS concentrations. All analytical results for the Wingate evaporation ponds can be referenced on **Tables 2** and **3.**

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 the laboratory detection limit of < 1 µg/L. The groundwater sample collected from WMW-2 contained 10,000 micrograms per liter (µg/L)

benzene. This concentration is 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. Monitor wells WMW-4 and WMW-7, down-gradient of WMW-2, did not contain concentrations of benzene suggesting that the benzene impacts are localized in the area of WMW-2. Oxygen Reduction Compound (ORC) socks were removed from WMW-2 during the June 2010 sampling event and were not replaced.

The groundwater samples collected from WMW-1, WMW-2, WMW-3, and WMW-5 contained chloride in concentrations above NMWQCC groundwater quality standard of 250 mg/L.

Samples collected from WMW-1, WMW-3, and WMW-5 contained sulfate and TDS concentrations above groundwater quality standards, while groundwater samples collected from WMW-2, WMW-4, WMW-6 and WMW-7 were only over NMWQCC standard for TDS. TDS and sulfate concentrations in these monitor wells have remained relatively constant since 2005.

5.0 Summary and Recommendations

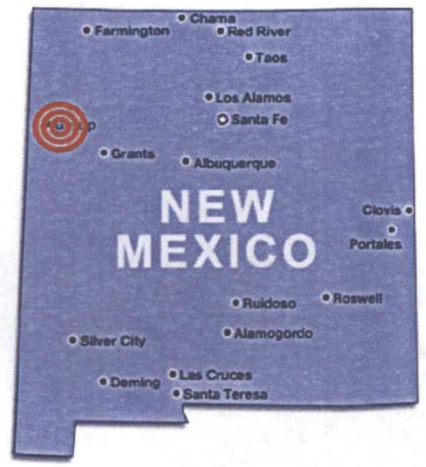
Site evaporation ponds showed no signs of seepage during the June 2010 monitoring event. However, the COD of the West Evaporation Pond was found to be elevated relative to the limits imposed by the Discharge Plan for the site. Concentrations of TDS, manganese, sulfate, and chloride have been found above NMWQCC groundwater quality standards in site monitor wells and evaporation ponds. The concentration of benzene in monitor well WMW-2 continues to exceed groundwater 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. Historically, impacts have never been detected in groundwater samples collected from WMW-4, located down-gradient of WMW-2. As a result of these findings, Tetra Tech recommends the continuation of annual monitoring at the site, but recommends a decreased list of analytes for the next annual event. The decreased analyte list for facility and facility perimeter wells would consist of BTEX, dissolved manganese, chloride, sulfate, TDS and pH. In addition to the shortened list of analytes suggested for facility monitor wells, the evaporation ponds and pond perimeter monitor wells would additionally be analyzed for BOD, COD, nitrate and total coliform. The next monitoring event is scheduled to take place in June 2011.

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



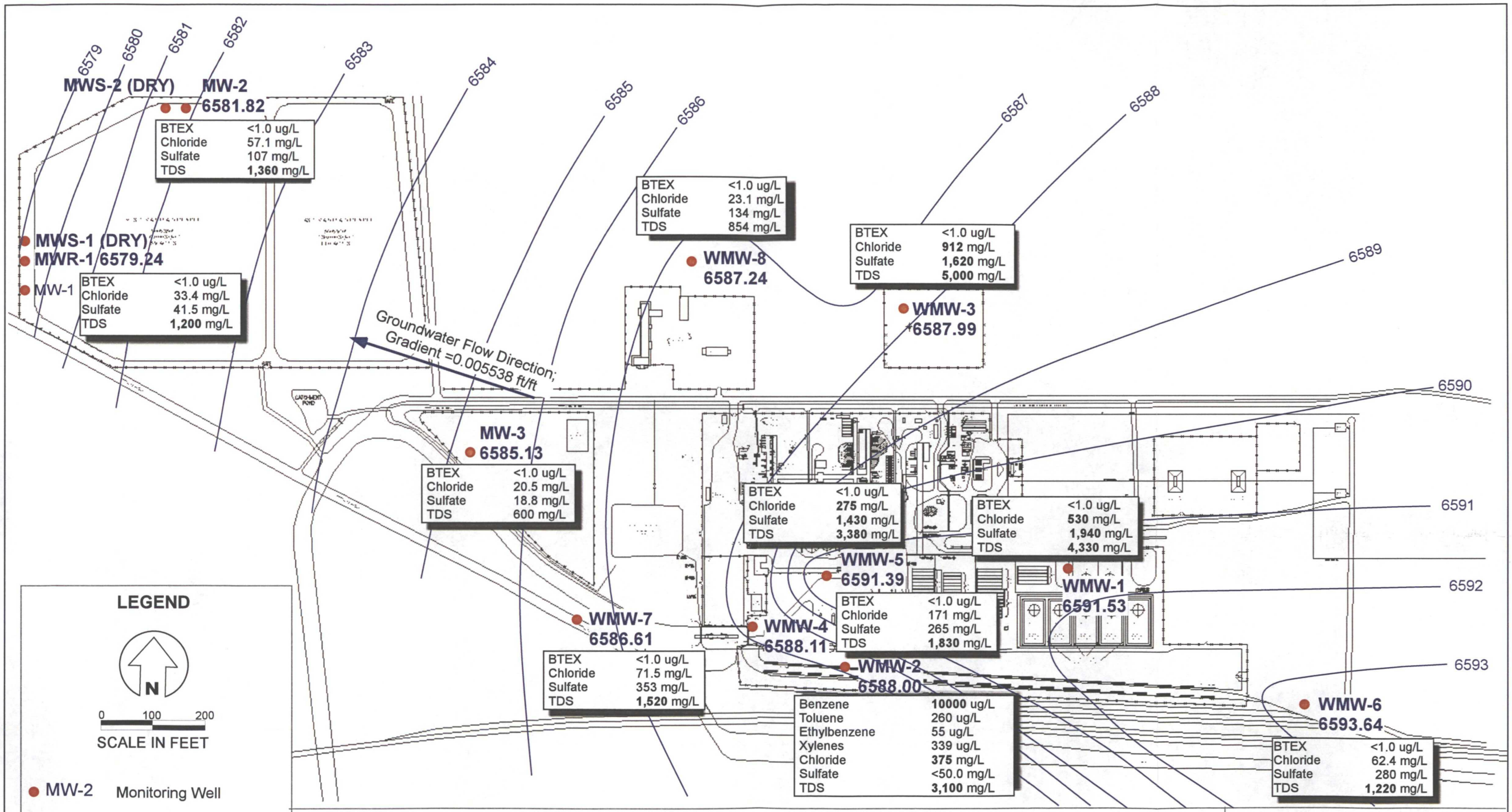
N

Approximate Boundary of the Wingate Plant

Evaporation Ponds Used for Facility Waste Water

ConocoPhillips

TETRA TECH, INC.



LEGEND

N

0 100 200

SCALE IN FEET

- MW-2 — Monitoring Well
- MWR-1 — re-drill to replace MW-1
- MW-1 — Plugged and abandoned 6-24-03

Values in **Bold** indicate an exceedance of NMWQCC groundwater standard

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.
2010 Groundwater Elevations
Wingate Fractionating Plant

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	5.89	**6579.24**
MW-2	6585.91	20 - 45	45	4.09	**6581.82**
MW-3	6590.08	20 - 45	45	4.95	**6585.13**
WMW-1	6597.13	5 - 15	15	5.60	**6591.53**
WMW-2	6594.88	5 - 20	20	6.88	**6588.00**
WMW-3	6594.92	5 - 20	20	6.93	**6587.99**
WMW-4	6595.49	5 - 20	20	7.38	**6588.11**
WMW-5	6597.11	5 - 20	20	5.72	**6591.39**
WMW-6	6603.86	20-35	35	10.22	**6593.64**
WMW-7	6594.7	16-38	38	8.09	**6586.61**
WMW-8	6594.05	17-38	38	6.81	**6587.24**

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 2010, Wingate Fractionating Plant, Gallup, New Mexico

Sample Location	Date Sampled	SW846 8260B Micrograms per Liter (ug/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	Arsenic	Barium	Cadmium	Calcium	Chromium	Iron	Lead	Magnesium	Manganese	Selenium	Silver	Sodium	Mercury	Chloride	Nitrate	Sulfate	Naphthalene	pH	Alkalinity	TDS
MWR-1	07/31/03	<0.5	<0.7	<0.8	<0.8	ND	0.0114	**1.87**	<0.00087	92.4	**0.0522**	NA	**0.0562**	46.1	NA	0.0086	<0.0018	397	<0.00016	154	<0.40	147	NA	7.9	725	**1,340**
	09/24/04	<0.5	<0.7	<0.8	<0.8	NS	<0.0047	0.252	<0.00076	12.5	<0.0025	NA	<0.0100	7.56	NA	<0.0059	<0.0020	291	<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	<0.0093	0.191	<0.00097	10.2	<0.0048	NA	<0.0084	6.02	NA	<0.0094	<0.0020	278	<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	<0.01	0.221	<0.00091	11.1	<0.0023	NA	<0.0069	6.61	NA	<0.0094	<0.0016	317	<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	<0.01	0.728	<0.00090	31.30	0.0176	NA	0.0126	15.2	NA	<0.0094	<0.0016	331	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	<0.005	0.225	<0.005	10.90	<0.005	3.0*	<0.005	6.53	0.369*	<0.005	<0.005	299	<0.0002	29.6	<1	37.9	<5	8.1	579	865
	06/24/09	<5	<5	<5	<5	NS	<0.005	0.488	<0.005	19.70	0.00666	9.07*	<0.005	7.89	0.577*	<0.005	<0.005	332	<0.0002	25.2	<0.5	39.9	<5	7.96	600	793
	06/21/10	< 1.0	< 1.0	< 1.0	< 1.0	NS	< 0.0050	0.176	< 0.0050	8.33	< 0.0050	0.0306	< 0.0050	5.14	**0.271**	< 0.01	< 0.005	344	< 0.002	33.4	0.603	41.5	< 5.3	7.75	589	1,200
MWS-1																										
MWS-2																										
MW-2	05/14/03	<0.1	<1.0	<1.0	<2.0	NS	<0.01	0.21	<0.002	14.70	<0.005	NA	<0.003	7.9	NA	NA	NA	418	NA	64.4	<0.5	102	<9.6	NA	770	**1,140**
	09/24/04	<0.5	<0.7	<0.8	<0.8	ND	0.0131	0.126	<0.00076	6.30	<0.0025	NA	<0.0100	2.96	NA	<0.0059	<0.0020	321	<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	0.0196	0.141	<0.00097	6.45	<0.0048	NA	<0.0084	3.14	NA	<0.0094	<0.0020	310	<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	0.0212	0.141	<0.00091	7.16	<0.0023	NA	<0.0069	3.57	NA	<0.0094	<0.0016	384	<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	0.0190	0.139	<0.00090	6.73	<0.0023	NA	<0.0069	3.41	NA	<0.0094	<0.0016	284	<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	0.00783	0.223	<0.005	13.2	<0.005	0.601	<0.005	9.6	0.354*	<0.005	<0.005	361	<0.0002	62.9	<0.5	125	<5	7.77	626	**1,050**
	06/23/09	<5	<5	<5	<5	NS	0.0115	0.255	<0.005	14.5	<0.005	0.611	<0.005	8.18	0.314*	<0.005	<0.005	403	<0.0002	57.3	<0.5	113	<5	7.94	580	**1,030**
	06/21/10	< 1.0	< 1.0	< 1.0	< 1.0	NS	0.008	0.210	<0.005	13.2	<0.005	0.180	<0.005	7.75	**0.317**	< 0.01	<0.005	396	< 0.002	57.1	0.555	107	< 5.3	8.55	690	1,360
MW-3	05/14/03	<0.1	<1.0	<1.0	<2.0	NS	<0.01	<0.2	<0.002	28.70	<0.005	NA	<0.003	13.5	NA	NA	NA	149	NA	19.2	<0.5	15.5	<9.6	NA	428	542
	09/24/04	<0.5	<0.7	<0.8	<0.8	NS	<0.0047	0.150	<0.00076	27.9	<0.0025	NA	<0.0100	13.4	NA	<0.0059	<0.0020	156	<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	0.0108	0.160	<0.00097	26.6	<0.0048	NA	0.0084	12.8	NA	<0.0094	<0.0020	144	<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	<0.010	0.16	<0.00091	27.4	<0.0023	NA	<0.0069	13.3	NA	<0.0094	<0.0016	161	<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	<0.010	0.143	<0.00090	28.4	<0.0023	NA	<0.0069	13.5	NA	<0.0094	<0.0016	170	<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	0.0388	0.307	<0.005	27.5	<0.005	4.66*	<0.005	13.2	1.97*	<0.005	<0.005	151	<0.002	19.3	<1	15.4	<5	7.64	382	538
	06/23/09	<5	<5	<5	<5	NS	0.00654	0.178	<0.005	29.5	<0.005	0.255	<0.005	14.5	0.703*	<0.005	<0.005	172	<0.0002	23.6	<0.5	26.5	<5	7.74	339	519
	06/23/10	< 1.0	< 1.0	< 1.0	< 1.0	NS	<0.0050	0.144	< 0.005	27.6	< 0.005	< 0.02	< 0.005	13.7	**0.480**	< 0.01	< 0.005	162	< 0.002	20.5	< 0.5	18.8	< 5.4	7.31	148	600
WMW-1	05/14/03	<0.1	<1.0	<1.0	<2.0	NS	<0.01	<0.2	<0.002	258	<0.005	NA	<0.003	69.7	NA	NA	NA	1,140	NA	**648**	<0.5	**1,870**	<9.8	NA	1050	**5,090**
	09/24/04	<0.5	<0.7	<0.8	<0.8	NS	<0.0047	0.0256	<0.00076	236	0.0025	NA	<0.0100	63.8	NA	0.0059	0.002	1,370	<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	<0.0093	0.0177	<0.00097	224	<0.0048	NA	<0.0084	61.1	NA	<0.0094	<0.0020	1,370	<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	<0.01	0.0706	<0.00091	279	0.003	NA	<0.0069	76.8	NA	<0.0094	<0.0016	1,310	<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	<0.01	0.0317	<0.00090	287	<0.0023	NA	<0.0069	77.2	NA	<0.0094	<0.0018	1,310	<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	<0.005	0.0478	<0.005	228	<0.005	1.92*	<0.005	63.7	3.97*	<0.005	<0.005	1,210	<0.0002	**566**	<0.5	**2,010**	<5	6.78	998	**4,640**
	06/22/09	<5	<5	<5	<5	NS	<0.025	<0.025	<0.025	222	<0.025	0.192	<0.025	60.9	3.94*	<0.025	<0.025	1,330	<0.0002	**501**	<0.5	**2,150**	<5	7.05	845	**4,560**
	06/22/10	< 1.0	< 1.0	< 1.0	< 1.0	NS	< 0.005	0.0148	< 0.005	194	< 0.005	< 0.02	< 0.005	53.0	3.51	< 0.01	< 0.005	1140	< 0.002	530	0.993	1,940	< 5.7	7.05	215	4,330
NMWQCC Groundwater Standards for Human Health or Domestic Water Supply[2]		**10**	**750**	**750**	**620**	**NE**	**0.1**	**1.0**	**0.01**	**NE**	**0.05**	**1.0**	**0.05**	**NE**	**0.2**	**0.05**	**0.05**	**NE**	**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
* - Values marked with an asterics indicate results reported for 'Total Metals' which can not be compared to NMWQCC dissolved metals standards
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 2. Groundwater Analysis Summary (Data Set 1), 2003 through 2010, Wingate Fractionating Plant, Gallup, New Mexico

Sample Location	Date Sampled	SW846 8260B Micrograms per Liter (ug/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	Arsenic	Barium	Cadmium	Calcium	Chromium	Iron	Lead	Magnesium	Manganese	Selenium	Silver	Sodium	Mercury	Chloride	Nitrate	Sulfate	Naphthalene	pH	Alkalinity	TDS
WMW-2	05/14/03	29,000	<500	<500	<1,000	NS	0.016	0.42	0.0081	47.3	0.0095	NA	0.0180	27.4	NA	NA	NA	1,140	NA	628	0.6	8.2	24	NA	1,710	3,150
	09/24/04	28,000	450	110	650	NS	<0.0047	0.421	0.0036	57.2	<0.0025	NA	0.0100	33.8	NA	<0.0059	<0.0020	1,510	<0.000028	936	<0.40	<1.5	21	7.6	2,110	4,220
	06/21/05	29,000	350	110	570	NS	<0.0093	0.442	0.0047	53.6	<0.0048	NA	<0.0084	32.3	NA	<0.0094	<0.0020	1,450	<0.000062	962	<0.40	<1.5	17	7.5	2,090	3,800
	duplicate	25,000	62	84	470	NS	NS	NS	NS	NS	NS	NA	NS	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	06/21/06	5,300	15	24	150	NS	<0.01	0.0841	<0.00091	4.04	<0.0023	NA	<0.0069	190	NA	<0.0094	<0.0016	1,050	<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	0.0138	0.102	0.0065	19.3	0.0064	NA	<0.0069	104	NA	<0.0094	<0.0016	712	<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	0.00993	0.411	0.131	128	0.029	48.8*	0.0288	110	0.476*	<0.005	<0.005	852	<0.0002	565	<0.5	25.9	6	9.31	1,220	282
	duplicate	7,900	220	56	346	NA	NA	NA	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	<0.005	0.11	<0.005	16.2	0.00809	0.482	<0.005	99.9	<0.25	<0.01	<0.005	1,000	<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
	06/23/10	10,000	260	55	339	NA	< 0.005	0.0720	< 0.005	3.20	< 0.005	< 0.02	< 0.005	64.9	< 0.005	< 00.01	< 0.005	778	< 0.002	375	0.588	< 50.0	5.8	9.41	296	3,100
	duplicate	9,700	250	56	351	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	0.014	0.62	<0.002	186	0.19	NA	0.042	88.5	NA	NA	NA	1,860	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	0.0351	1.14	0.0012	470	0.905	NA	0.250	216	NA	<0.0059	<0.0020	1,810	<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	<0.0093	0.210	<0.00097	112	0.0421	NA	0.0112	48.0	NA	<0.0094	<0.0020	1,700	<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	<0.01	0.468	<0.00091	155	0.0996	NA	0.0339	73.8	NA	<0.0094	<0.0016	1,850	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	0.0107	0.320	<0.00090	199	0.0701	NA	0.0292	70.4	NA	<0.0094	<0.0016	2,040	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	0.0187	2.05	<0.005	336	0.31	230*	0.158*	157	4.45*	<0.005	<0.005	1,500	<0.002	548	<5	963	<5.4	7.54	964	7,800
	06/24/09	<5	<5	<5	<5	NS	0.0166	0.265	<0.005	400	0.0154	4.3*	0.0568*	57.4	3.35*	<0.01	<0.005	1,710	<0.0002	677	0.716	1,370	<5	7.65	1,410	3,190
	06/22/10	< 1.0	< 1.0	< 1.0	< 1.0	NS	< 0.005	0.0351	< 0.005	70.1	< 0.005	0.927	< 0.005	33.6	0.00920	< 0.01	< 0.005	1,490	< 0.002	912	3.06	1,620	< 11	7.66	238	5,000
WMW-4	05/14/03	<0.1	<1.0	<1.0	<2.0	NS	<0.01	0.28	<0.002	37.3	0.006	NA	16.8	16.8	NA	NA	NA	550	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	0.0077	0.0435	<0.00076	12.5	<0.0025	NA	<0.0100	13.1	NA	<0.0059	0.0020	553	<0.000028	149	<0.40	247	<1	7.8	788	1,550
	06/20/05	<0.5	<0.7	<0.8	<0.8	NS	<0.0093	0.0449	<0.00097	11.7	<0.0048	NA	<0.0084	12.5	NA	<0.0094	<0.0020	529	<0.000062	152	<0.40	243	<1	7.8	764	1,470
	06/21/06	<0.5	<0.7	<0.8	<0.8	NS	<0.01	0.0414	<0.00091	12	<0.0023	NA	<0.0069	12.8	NA	<0.0094	<0.0016	532	<0.000056	163	<0.25	266	<1	7.8	722	1,480
	06/20/07	<0.5	<0.7	<0.8	<0.8	NS	<0.01	0.0782	<0.00090	15	0.0039	NA	<0.0069	13.8	NA	<0.0094	<0.0016	582	<0.000056	184	<0.25	265	<1	8.0	765	1,380
	06/30/08	<5.0	<5.0	<5.0	<5.0	NS	<0.005	0.0463	<0.005	12.1	<0.005	0.963	<0.005	0.248	0.248*	<0.005	<0.005	526	<0.0002	186	<0.5	240	<5	7.54	672	1,460
	06/22/09	<5	<5	<5	<5	NS	<0.025	0.0627	<0.025	16.5	<0.025	4.13	<0.025	12.2	0.325*	<0.025	<0.025	566	<0.0002	143	<0.5	228	<5	7.73	673	1,470
	06/22/10	< 1.0	< 1.0	< 1.0	< 1.0	NS	< 0.005	0.0492	< 0.005	13.60	< 0.005	< 0.02	< 0.005	14.4	0.279	< 0.01	< 0.005	548	< 0.002	171	0.541	265	< 5.5	7.69	199	1,830
WMW-5	05/14/03	<0.1	<1.0	<1.0	<2.0	NS	<0.01	<0.2	<0.002	332	<0.005	NA	<0.003	98	NA	NA	NA	1,310	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	<0.0047	0.0117	<0.00076	186	<0.0025	NA	<0.0100	48.8	NA	<0.0059	<0.0020	915	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	<0.0093	0.0137	<0.00097	187	<0.0048	NA	<0.0084	50.5	NA	<0.0094	<0.0020	834	<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	<0.01	0.0076	<0.00091	144	<0.0023	NA	<0.0069	38.7	NA	<0.0094	<0.0016	730	<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	<0.01	0.0213	<0.00090	253	<0.0023	NA	<0.0069	69	NA	<0.0094	<0.0016	1,170	<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	<0.005	0.0163	<0.005	137	<0.005	0.562	<0.005	41.4	1.12*	<0.005	<0.005	811	<0.0002	232	<0.5	1,270	<5	7.15	548	3,020
	06/22/09	<5	<5	<5	<5	NS	<0.025	<0.025	<0.025	172	<0.025	0.346	<0.025	49.4	0.693*	<0.025	<0.025	912	<0.0002	259	<0.5	1,370	<5	7.37	682	3,260
	06/22/10	< 1.0	< 1.0	< 1.0	< 1.0	NS	< 0.005	0.0098	< 0.005	170	< 0.005	< 0.02	< 0.005	51.3	1.13	< 0.01	< 0.005	862	< 0.002	275	0.608	1,430	< 5.6	7.21	165	3,380
NMWQCC Groundwater Standards for Human Health or Domestic Water Supply[2]		10	750	750	620	NE	0.1	1.0	0.01	NE	0.05	1.0	0.05	NE	0.2	0.05	0.05	NE	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
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MWR - Redrilled Monitor Well
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NA - Not Analyzed
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* - Values marked with an asterics indicate results reported for 'Total Metals' which can not be compared to NMWQCC dissolved metals standards
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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 2. Groundwater Analysis Summary (Data Set 1), 2003 through 2010, Wingate Fractionating Plant, Gallup, New Mexico

Sample Location	Date Sampled	SW846 8260B Micrograms per Liter (ug/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	Arsenic	Barium	Cadmium	Calcium	Chromium	Iron	Lead	Magnesium	Manganese	Selenium	Silver	Sodium	Mercury	Chloride	Nitrate	Sulfate	Naphthalene	pH	Alkalinity	TDS
WMW-6	09/24/04	<0.5	<0.7	<0.8	<0.8	ND	<0.0047	0.0517	<0.00076	34.4	<0.0025	NA	<0.0100	13.2	NA	<0.0059	<0.0020	315	<0.000028	57.5	<0.40	285	<1	7.8	425	1,020
	06/21/05	<0.5	<0.7	<0.8	<.08	NS	<0.0093	0.0490	<0.00097	35.9	<0.0048	NA	<0.0084	13.4	NA	<0.0094	<0.0020	294	<0.000062	58.8	<0.40	290	<1	7.7	428	952
	06/21/06	<0.5	<0.7	<0.8	<0.8	NS	<0.01	0.049	<0.00091	38.1	<0.0023	NA	<0.0069	14.1	NA	0.0094	<0.0016	300	<0.000056	58.9	<0.25	293	<1	7.7	488	966
	06/18/07	<0.5	<0.7	<0.8	<0.8	NS	<0.01	0.0637	<0.00090	44.3	<0.0023	NA	<0.0069	15.5	NA	0.0094	<0.0016	320	<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	0.0119	2.34	<0.005	194	0.0863	77*	0.0545*	56.3	2.76*	<0.005	<0.005	317	<0.0002	76.5	<1	328	<5	7.82	451	**1,500**
	06/23/09	<5	<5	<5	<5	NS	<0.005	0.0679	<0.005	41.1	<0.005	0.516*	<0.005	14.4	0.162	<0.005	<0.005	339	<0.0002	57.2	<0.5	276	<5	7.87	389	**1,020**
	06/23/10	<1.0	<1.0	<1.0	<1.0	NS	<0.005	0.0421	<0.005	41.9	<0.005	0.0445	<0.005	15.5	0.0193	<0.01	<0.005	304	<0.002	62.4	<0.5	280	<5.5	7.42	128	**1,220**
WMW-7	09/24/04	<0.5	<0.7	<0.8	<0.8	NS	<0.0047	0.179	<0.00076	35.5	0.0074	NA	<0.0100	15.8	NA	<0.0059	<0.0020	362	<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	<0.0093	0.0394	<0.00097	48.0	<0.0048	NA	<0.0084	25.4	NA	<0.0094	<0.0020	803	<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	<0.01	0.0315	<0.00091	42.2	<0.0023	NA	<0.0069	22.2	NA	<0.0094	<0.0016	776	<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	<0.01	0.0339	<0.00090	42.9	<0.0023	NA	<0.0069	21.8	NA	<0.0094	<0.0016	773	<0.000056	152	<0.25	**896**	<1	7.7	643	**2,310**
	06/30/08	<5.0	<5.0	<5.0	<5.0	NS	<0.005	0.198	<0.005	50.5	0.0137	15.3*	0.00946	24.9	0.511*	<0.005	<0.005	478	<0.0002	92.4	<0.5	224	<5	7.34	514	**1,580**
	06/22/09	<5	<5	<5	<5	NS	<0.025	0.0371	<0.025	41.1	<0.025	0.284	<0.025	16.9	**0.2**	<0.025	<0.025	509	<0.0002	80.4	<0.5	439	<5	7.56	520	**1410**
	06/23/10	<1.0	<1.0	<1.0	<1.0	NS	<0.005	0.0312	<0.005	35.6	<0.005	0.0210	<0.005	15.0	0.122	<0.01	<0.005	417	<0.002	71.5	0.500	353	<5.7	7.38	183	1,520
WMW-8	09/24/04	<0.5	<0.7	<0.8	<0.8	NS	<0.0047	0.213	<0.00076	36.1	<0.0025	NA	<0.0100	17.6	NA	<0.0059	<0.0020	218	<0.000028	27.0	<0.40	130	<1	7.8	440	753
	06/21/05	<0.5	<0.7	<.08	<0.8	NS	<0.0093	0.126	<0.00097	29.3	<0.0048	NA	<0.0084	14.7	NA	<0.0094	<0.0020	279	<0.000062	42.9	<0.40	169	<1	7.7	497	882
	06/21/06	<0.5	<0.7	<0.8	<0.8	NS	<0.01	0.151	<0.00091	28.9	<0.0023	NA	<0.0069	14.8	NA	<0.0094	<0.0016	286	<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	<0.01	0.171	<0.00090	295	<0.0023	NA	<0.0069	186	NA	<0.0094	<0.0016	186	<0.000056	28.5	<0.25	143	<1	7.6	487	795
	07/01/08	<5.0	<5.0	<5.0	<5.0	NS	<0.005	0.185	<0.005	38.5	<0.005	0.083	<0.005	18.2	0.311*	<0.005	<0.005	214	<0.002	21.6	<0.5	148	<5	7.6	425	816
	06/23/09	<5	<5	<5	<5	NS	<0.005	0.215	<0.005	39.6	<0.005	0.0771	<0.005	18	0.278*	<0.005	<0.005	220	<0.0002	21.8	<0.5	149	<5	7.69	369	718
	06/23/10	<1.0	<1.0	<1.0	<1.0	NS	<0.005	0.202	<0.005	43.2	<0.005	0.0344	<0.005	19.4	**0.379**	<0.01	<0.005	202	<0.002	23.1	<0.5	134	<5.8	7.28	135	854
West Pond	09/23/04	<10	<14	<16	<16	NS	0.0362	0.0858	<0.00076	698	0.0051	NA	<0.0100	8,830	NA	0.0199	<0.0020	57,900	<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	0.0253	0.103	0.0016	539	<0.0048	NA	<0.0840	4,950	NA	0.0145	0.0077	142,000	<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	0.0193	0.0591	<0.00090	34.4	<0.0023	NA	<0.0069	18.1	NA	<0.0094	0.0069	283	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	0.0468	0.0207	<0.005	257	0.0062	0.223	<0.005	14,800	5.79*	0.00788	<0.005	59,900	<0.0002	**153,000**	<50	**15,400**	<5.5	7.46	799	**285,000**
	06/24/09	<5	<5	<5	<5	NS	0.0336	<0.1	<0.1	440	<0.25	0.197	<0.1	5,250	1.2*	<0.01	<0.1	68,000	<0.0002	**173,000**	<2500	**14,800**	<5	8.1	435	**397,000**
	06/21/10	<10	<10	<10	<10	NS	<0.1	<0.1	<0.1	192	<0.1	<0.4	<0.1	30,200	**5.04**	<0.2	<0.1	53,800	<0.002	**165,000**	<50	**38,100**	<6.6	7.06	1,530	**53,200**
East Pond	09/23/04	<3	<4	<4	<4	NS	<0.0047	0.0730	<0.00076	1,080	0.0029	NA	<0.0100	625	NA	0.0061	<0.0020	12,400	<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	<0.0093	0.0731	<0.00097	1,010	<0.0048	NA	<0.0084	488	NA	<0.0094	<0.0020	9,560	<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	0.0113	0.117	<0.00091	1,400	<0.0023	NA	<0.0069	889	NA	<0.0094	<0.0016	9,640	<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	<0.01	0.0667	<0.00090	251	<0.0023	NA	<0.0069	161	NA	<0.0094	<0.0016	4,340	<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	<0.005	0.0813	<0.005	1,070	<0.005	<0.02	<0.005	736	<0.005	<0.005	<0.005	3,890	<0.002	**4,880**	<5.0	**7,690**	<5.0	**10**	76	**16,200**
	06/24/09	<5	<5	<5	<5	NS	<0.005	0.0443	<0.005	849	0.00521	<0.02	<0.005	605	<0.25	<0.01	<0.005	2,510	<0.0002	**2,270**	<0.5	**5,360**	<5	**10**	88	**13,000**
	06/21/10	<10	<10	<10	<10	NS	<0.05	<0.05	<0.05	1160	<0.05	<0.2	<0.05	940	<0.05	<0.1	<0.05	3,370	<0.002	**3,680**	<50	**8,320**	<6.6	**9.99**	143	**2,670**
NMWQCC Groundwater Standards for Human Health or Domestic Water Supply[2]		**10**	**750**	**750**	**620**	**NE**	**0.1**	**1.0**	**0.01**	**NE**	**0.05**	**1.0**	**0.05**	**NE**	**0.2**	**0.05**	**0.05**	**NE**	**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
* - Values marked with an asterics indicate results reported for 'Total Metals' which can not be compared to NMWQCC dissolved metals standards
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 2010,
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
	06/21/10	< 2.0	11.9	< 1
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
	06/21/10	< 2.0	9.52	< 1
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
	06/23/10	< 2.0	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
	06/21/10	5.54	107	**> 2416.6**
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
	06/21/10	11.6	**2,950**	< 1
Discharge Permit Limit[3]		**< 30**	**< 125**	**(< 500 for fecal coliform)**

Explanation

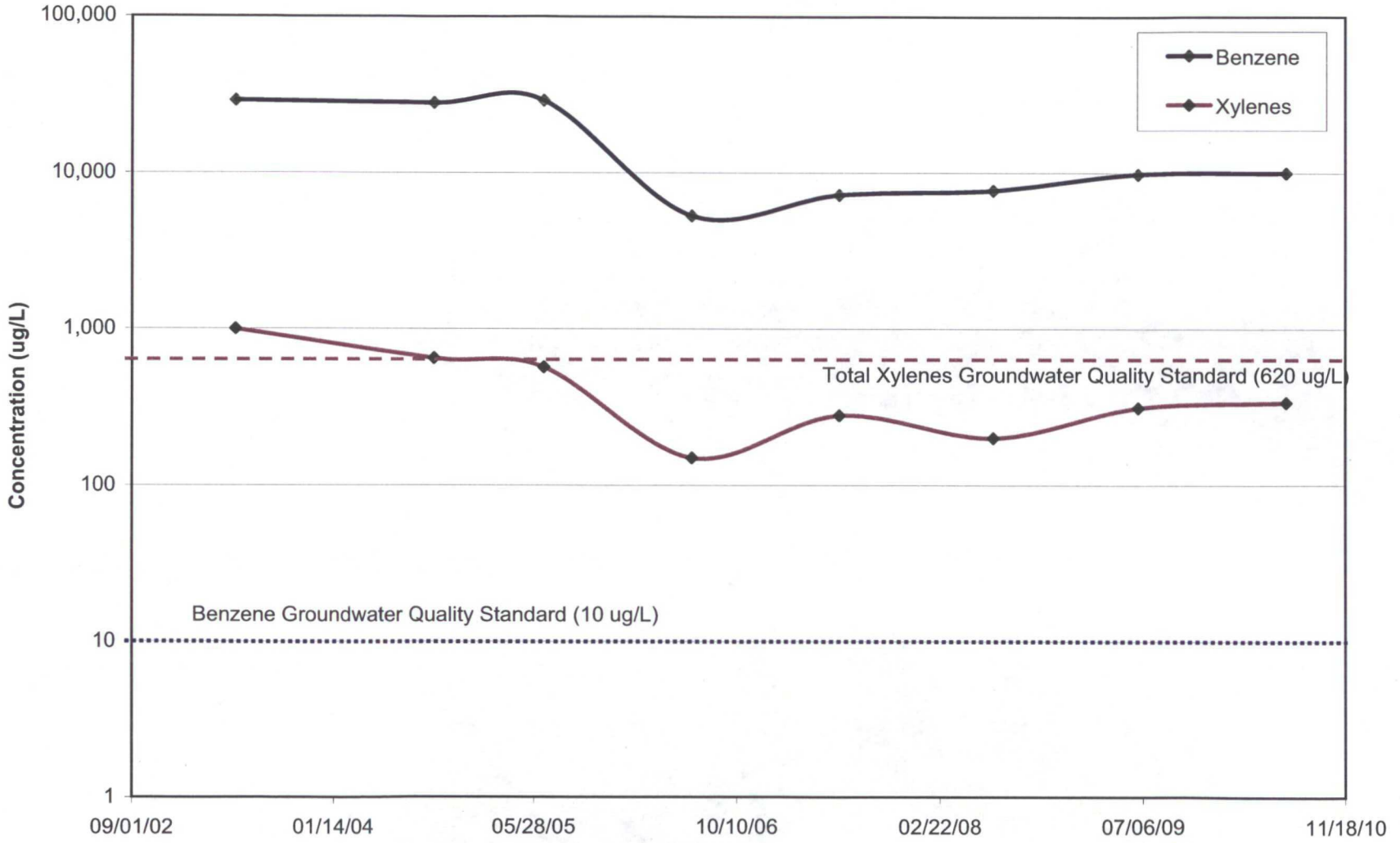
[1]The sample was positive for chlorine and therefore was considered invalid and could not be analyzed
[2]Estimated BOD result
BOD - Biological Oxygen Demand
COD - Chemical Oxygen Demand
MW - Monitor Well
MWR - Redrilled Monitor Well
MWS - Shallow Monitor Well
NA - Not Analyzed
ND - Not detected above 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

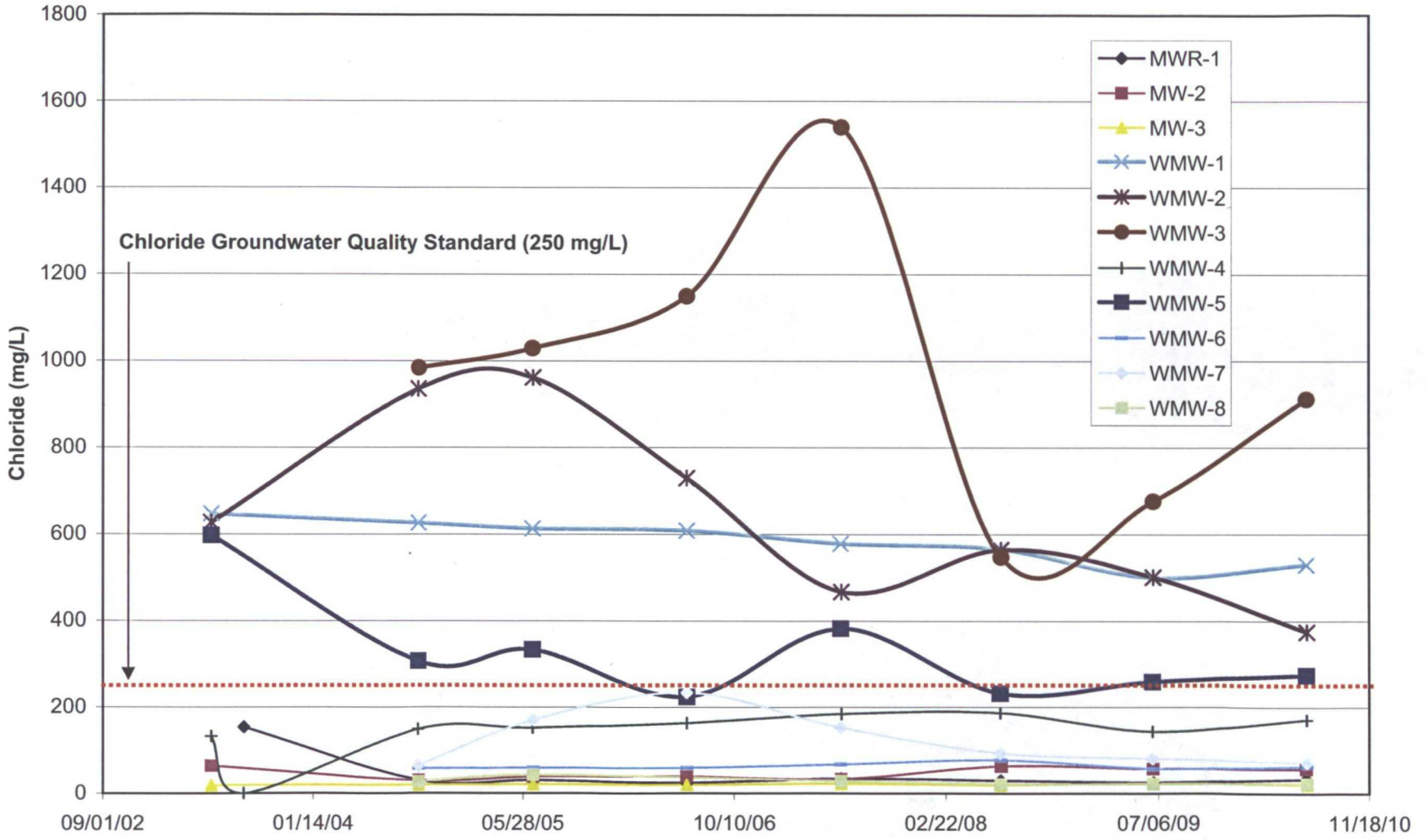
ConocoPhillips Company
Wingate Gas Fractionating Plant

Benzene and Total Xylenes vs. Time in WMW-2



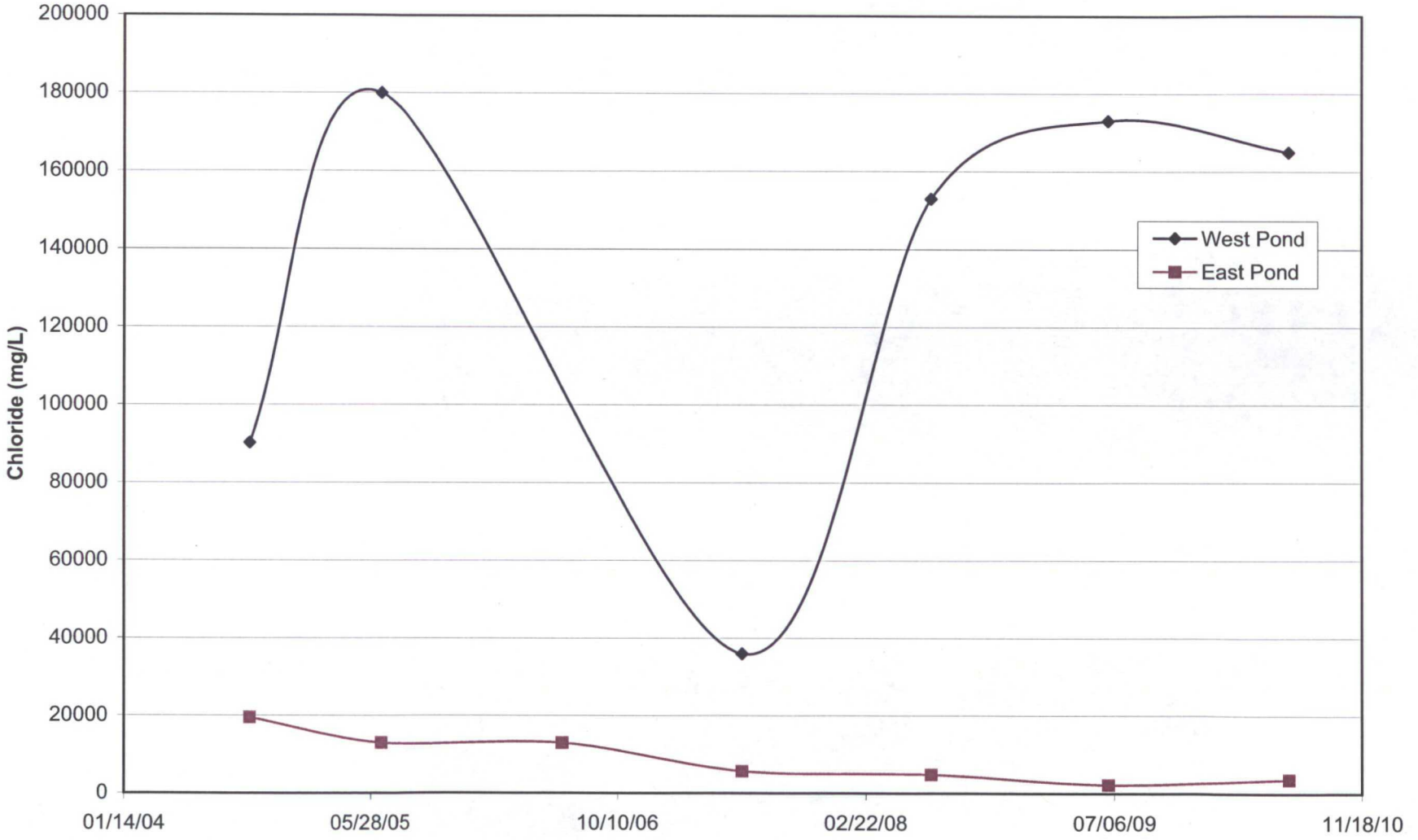
ConocoPhillips Company
Wingate Gas Fractionating Plant

Chloride Concentrations (mg/L) vs. Time in Monitor Wells



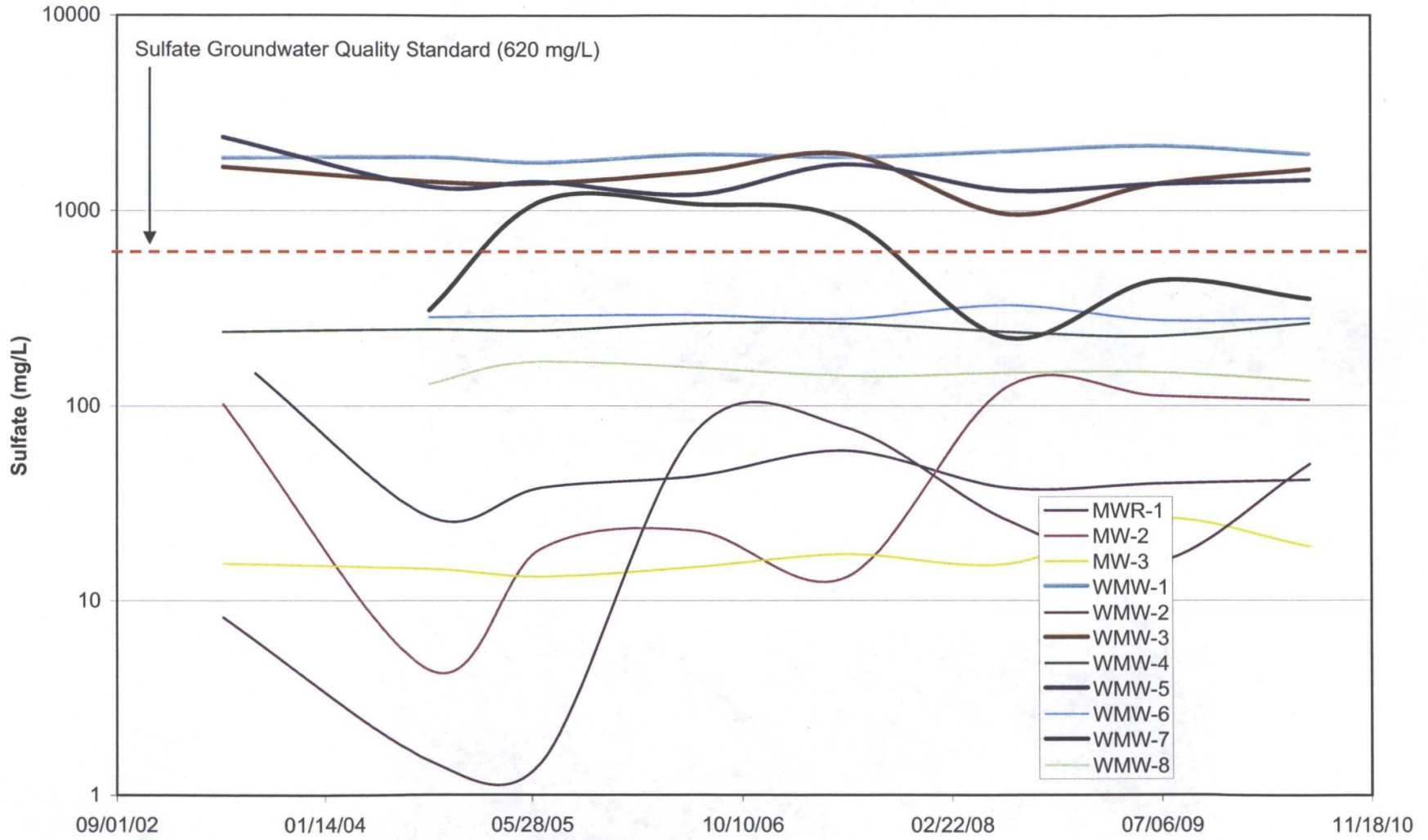
ConocoPhillips Company
Wingate Gas Fractionating Plant

Chloride Concentrations (mg/L) vs. Time in Evaporation Ponds



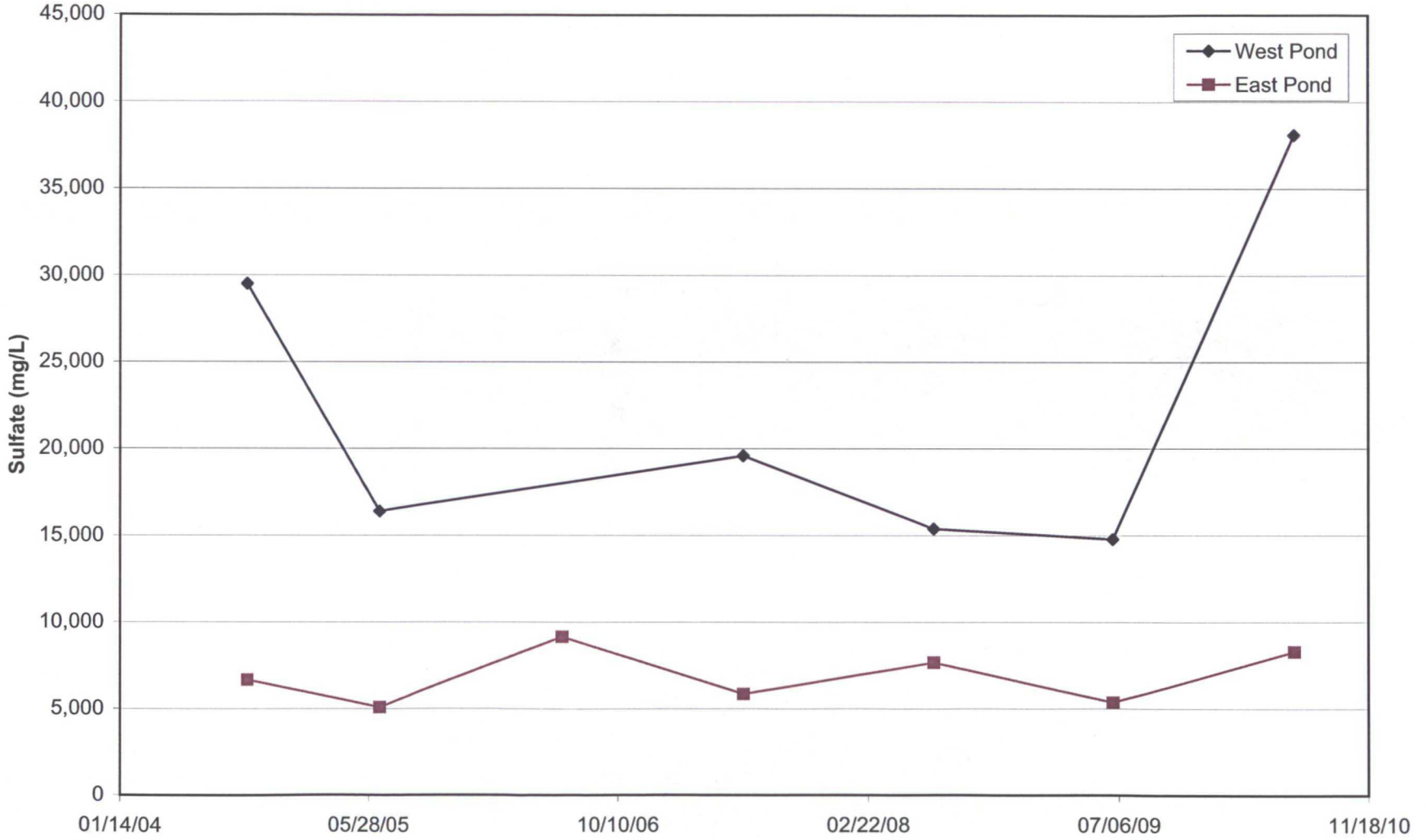
ConocoPhillips Company
Gas Fractionating Plant

Sulfate (mg/L) vs Time in Wingate Monitor Wells (Log Scale)



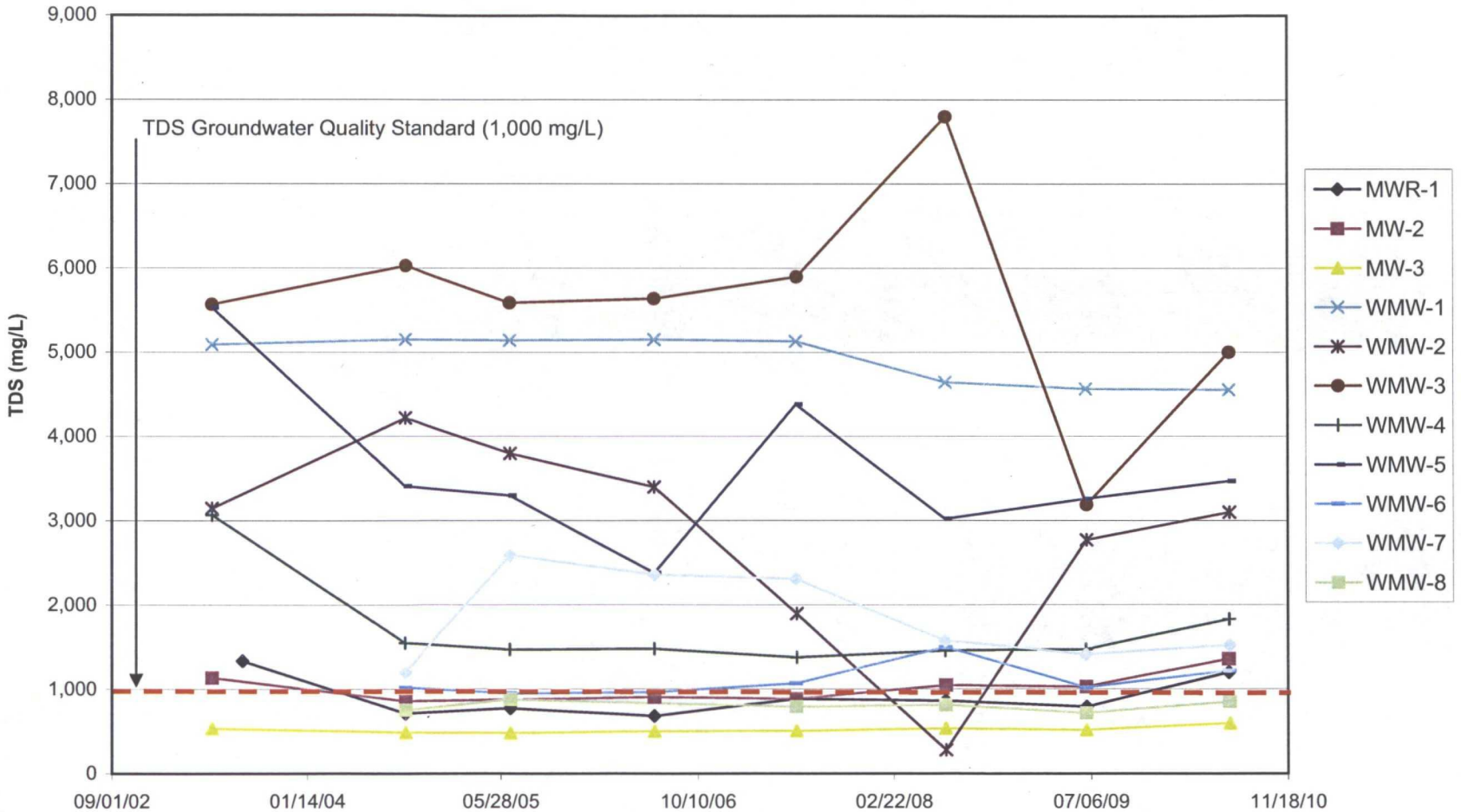
ConocoPhillips Company
Gas Fractionating Plant

Sulfate vs. Time in Wingate Evaporation Ponds



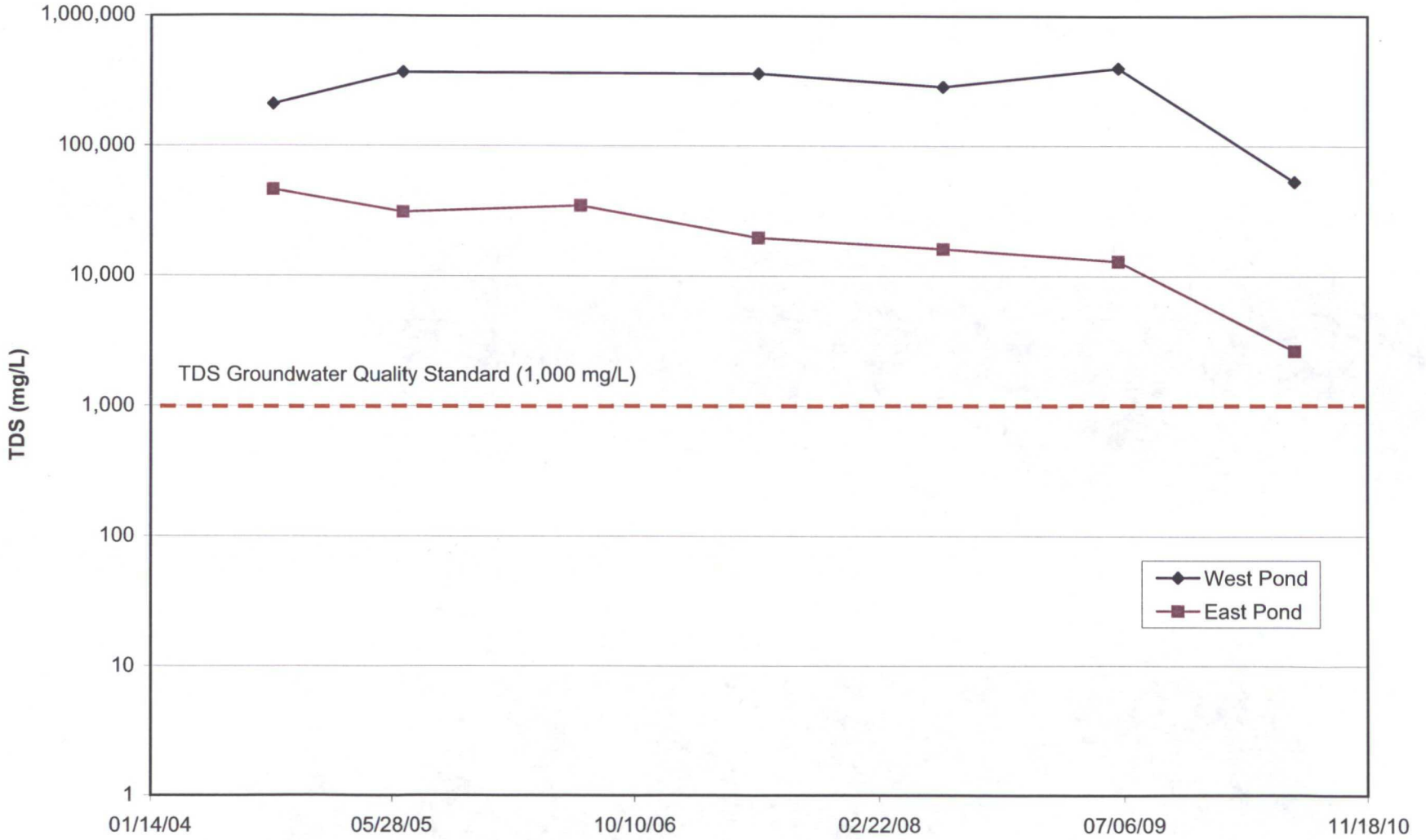
ConocoPhillips Company
Wingate Gas Fractionating Plant

Total Dissolved Solids vs. Time in Wingate Monitor Wells



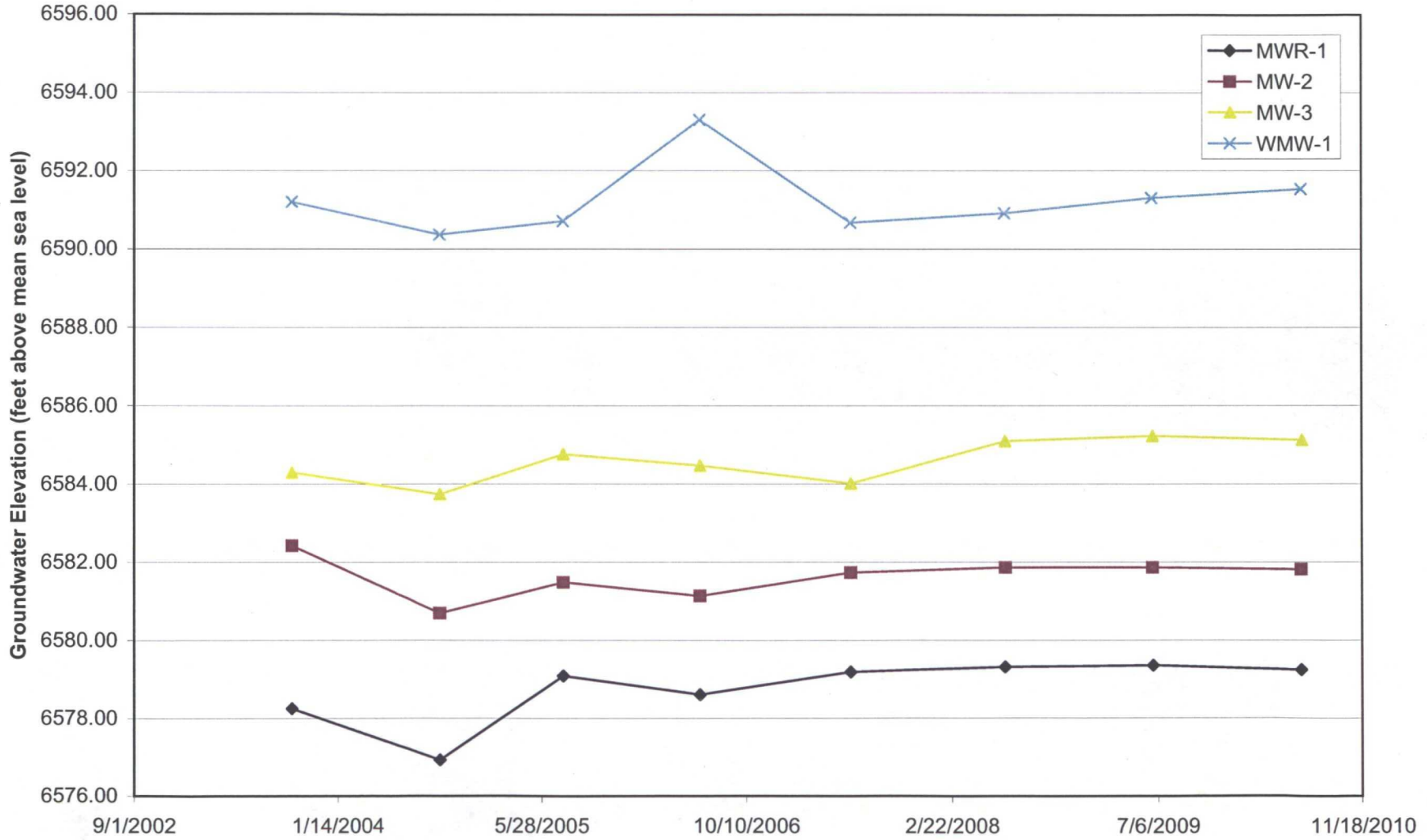
ConocoPhillips Company
Wingate Gas Fractionating Plant

Total Dissolved Solids vs. Time in Wingate Evaporation Ponds



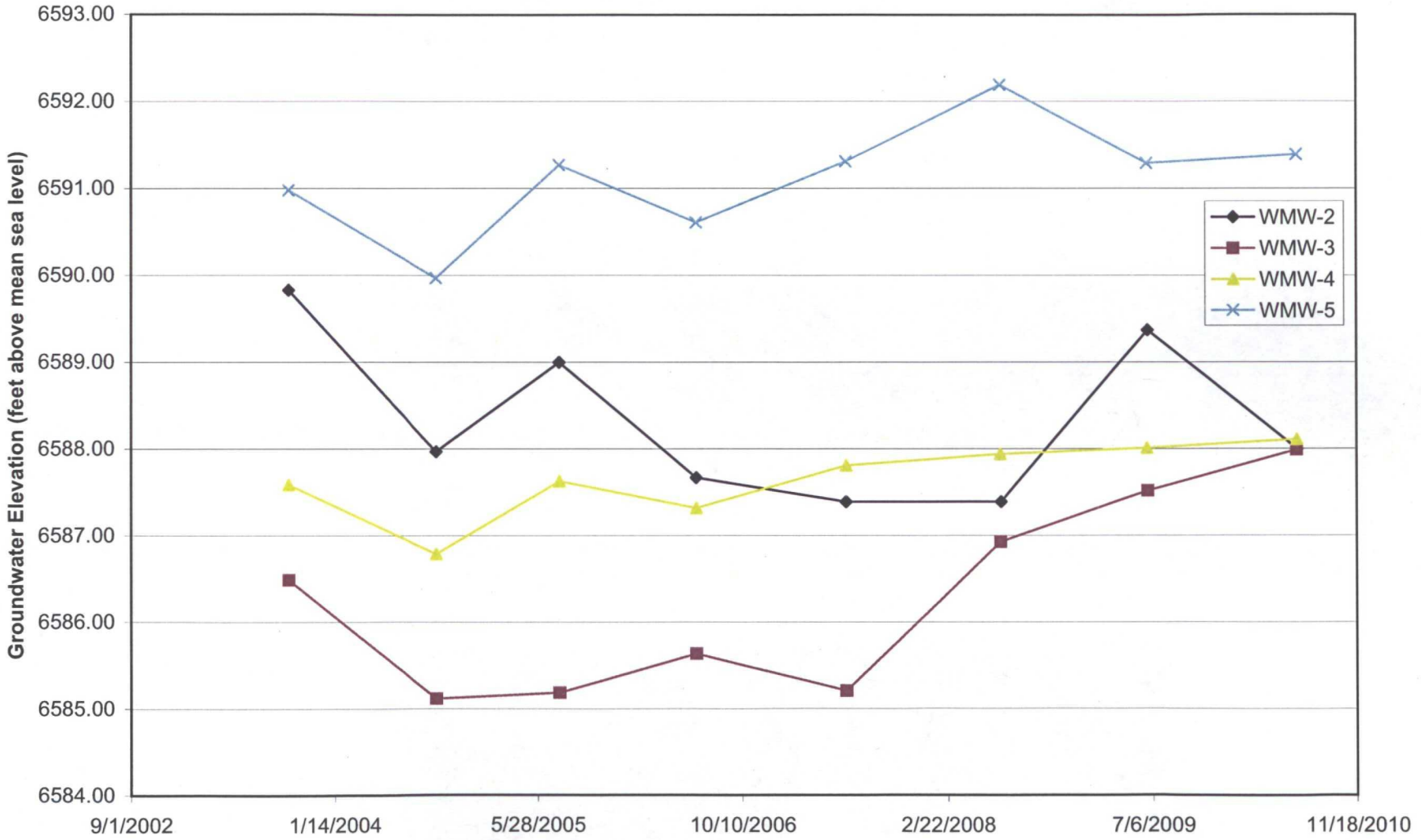
ConocoPhillips Company
Wingate Gas Fractionating Plant

Groundwater Elevations vs. Time in Wingate Monitor Wells



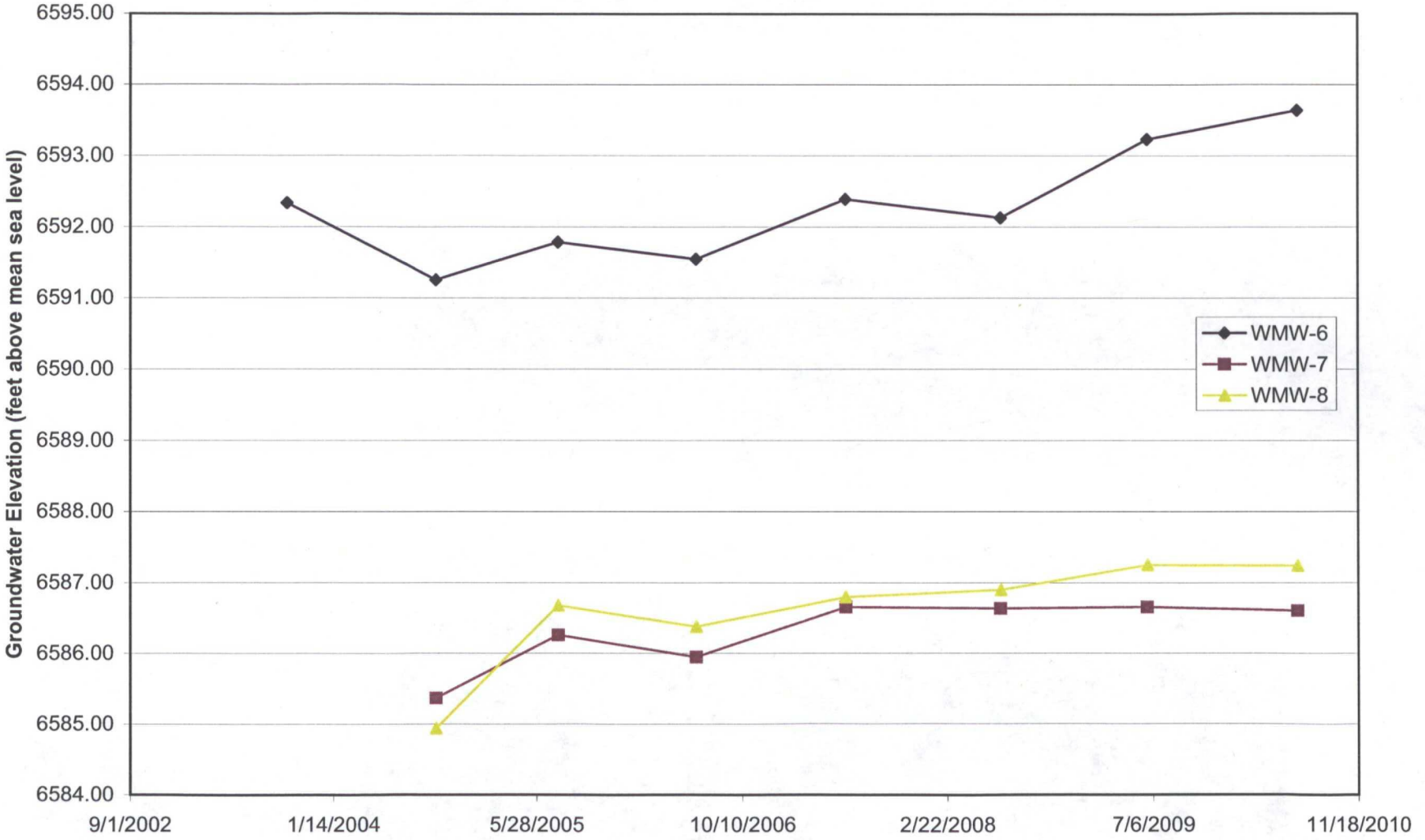
ConocoPhillips Company
Wingate Gas Fractionating Plant

Groundwater Elevations vs. Time in Wingate Monitor Wells



ConocoPhillips Company
Wingate Gas Fractionating Plant

Groundwater Elevation vs. Time in Wingate Monitor Wells



APPENDIX B

Groundwater Sampling Field Forms

TETRA TECH, INC.

WATER SAMPLING FIELD FORM

Project Name ConocoPhillips Wingate Gas Fractionating Plant — Page 1 of 13

Project No. 114-690165

Site Location 68 El Paso Circle, Gallup, NM

Site/Well No. WMW-3 — Coded/ Replicate No. N/A — Date 6-22-10

Weather Sunny, 86° — Time Sampling Began 1005 — Time Sampling Completed 1020

EVACUATION DATA

Description of Measuring Point (MP) Top of Casing

Height of MP Above/Below Land Surface ____ — MP Elevation 6594.92

Total Sounded Depth of Well Below MP 20 — Water-Level Elevation 6587.99

Held ____ — Depth to Water Below MP 6.93 — Diameter of Casing 2"

Wet ____ — Water Column in Well 13.07 — Gallons Pumped/Bailed Prior to Sampling 40.25

Gallons per Foot 1.16

Gallons in Well 2.09 x 3 = 6.3

Sampling Pump Intake Setting (feet below land surface) ____

Purging Equipment ~~Submersable Pump (GeoSquirt)~~ bailed

SAMPLING DATA/FIELD PARAMETERS

Time	Temperature (°C)	pH	Conductivity (µS/cm³)	TDS (g/L)	DO (mg/L)	ORP (mV)	DO%
10:15	11.23	10.74	4771	4.206	1.38	0.4	13.2
10:16	10.96	10.54	4700	4.175	1.53	-2.3	14.0

Sampling Equipment ~~Submersable Pump (GeoSquirt)~~ bailed

Constituents Sampled	Container Description	Preservative
BTEX / SVOCs	3 Glass VOAs (BTEX) / 2 32 oz. Amber	HCl (BTEX) / None
TDS, pH, Alk / Chl, SO4, Nitrate	32 oz. Plastic / 32 oz. Plastic	None
Dissolved Metals	16 oz. Plastic	None (to be filtered and Preserved at lab)

Remarks H_2O is brownish red @ beginning of purging, cleared slightly @ 2.75 gallons, no odor or sheen observed

Sampling Personnel Christine Mathews and Cassie Brown

Well Casing Volumes

Gal./ft.							
	1 ¼" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1 ½" = 0.10	2 ½" = 0.24	3" ½ = 0.50	6" = 1.46

TETRA TECH, INC.

WATER SAMPLING FIELD FORM

Project Name: ConocoPhillips Wingate Gas Fractionating Plant — Page 2 of 13

Project No.: 114-690165

Site Location: 68 El Paso Circle, Gallup, NM

Site/Well No.: WMW-5 — Coded/ Replicate No.: — Date: 6-22-10

Weather: Sunny, breezy, 85° — Time Sampling Began: 1130 — Time Sampling Completed: 1155

EVACUATION DATA

Description of Measuring Point (MP): Top of Casing

Height of MP Above/Below Land Surface: — MP Elevation: 6597.11

Total Sounded Depth of Well Below MP: 20 — Water-Level Elevation: 6591.39

Held: — Depth to Water Below MP: 5.72 — Diameter of Casing: 4"

Wet: — Water Column in Well: 14.28 — Gallons ~~Pumped~~/Bailed Prior to ~~Sampling~~: ~~2605~~ 28

Gallons per Foot: 6.65

Gallons in Well: 9.282 x 3 = 27.8 — Sampling Pump Intake Setting (feet below land surface): ~18 feet

Purging Equipment: Submersable Pump (GeoSquirt)

SAMPLING DATA/FIELD PARAMETERS

Time	Temperature (°C)	pH	Conductivity (µS/cm³)	TDS (g/L)	DO (mg/L)	ORP (mV)	DO%
20 1130	13.88	8.04	3423	2.187	7.89	23.7	71.4
21 1132	10.77	7.23	3540	2.821	9.060	25.16	87.4
~~23~~ 1137	13.45	6.75	3307	2.79	7.65	31.2	73.1
24							
25 1145	13.53	7.32	3256	2.714	8.166	34.5	89.2

Sampling Equipment: Submersable Pump (GeoSquirt)

Constituents Sampled	Container Description	Preservative
BTEX / SVOCs	3 Glass VOAs (BTEX) / 2 32 oz. Amber	HCl (BTEX) / None
TDS, pH, Alk / Chl, SO4, Nitrate	32 oz. Plastic / 32 oz. Plastic	None
Dissolved Metals	16 oz. Plastic	None (to be filtered and Preserved at lab)

Remarks: H_2O is clear, no odor or sheen detected

Sampling Personnel: Christine Mathews and Cassie Brown

Well Casing Volumes

Gal./ft.			
1 ¼" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
1 ½" = 0.10	2 ½" = 0.24	3" ½ = 0.50	6" = 1.46

TETRA TECH, INC.

WATER SAMPLING FIELD FORM

Project Name: ConocoPhillips Wingate Gas Fractionating Plant — Page 3 of 13

Project No.: 114-690165

Site Location: 68 El Paso Circle, Gallup, NM

Site/Well No.: WMW-1 — Coded/ Replicate No.: — Date: 6/22/10

Weather: Sunny, hot — Time Sampling Began: 1255 — Time Sampling Completed: 1300

EVACUATION DATA

Description of Measuring Point (MP): Top of Casing

Height of MP Above/Below Land Surface: — MP Elevation: 6597.13

Total Sounded Depth of Well Below MP: 15 — Water-Level Elevation: 6591.53

Held: — Depth to Water Below MP: 5.60 — Diameter of Casing: 2"

Wet: — Water Column in Well: 9.40 — Gallons ~~Pumped~~/Bailed Prior to Sampling: 4.5 gallons

Gallons per Foot: .16

Gallons in Well: 1.504

Sampling Pump Intake Setting (feet below land surface): —

Purging Equipment: ~~Submersable Pump (GeoSquirt)~~ Bailed x3 = 4.5

SAMPLING DATA/FIELD PARAMETERS

	Time	Temperature (°C)	pH	Conductivity (µS/cm³)	TDS (g/L)	DO (mg/L)	ORP (mV)	DO%
3.5	1255	13.24	6.29	~~5.568~~	3.633	1.19	58.9	11.5
4	1257	13.16	6.26	4372	3.607	1.11	54.3	11.1
4.6	1260	13.16	6.09	4356	3.676	1.01	55.1	9.7

Sampling Equipment: ~~Submersable Pump (GeoSquirt)~~ bailed

Constituents Sampled	Container Description	Preservative
BTEX / SVOCs	3 Glass VOAs (BTEX) / 2 32 oz. Amber	HCl (BTEX) / None
TDS, pH, Alk / Chl, SO4, Nitrate	32 oz. Plastic / 32 oz. Plastic	None
Dissolved Metals	16 oz. Plastic	None (to be filtered and Preserved at lab)

Remarks: H_2O is clear, no odor or sheen detected

Sampling Personnel: Christine Mathews and Cassie Brown

Well Casing Volumes

Gal./ft.							
	1 ¼" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1 ½" = 0.10	2 ½" = 0.24	3" ½ = 0.50	6" = 1.46

TETRA TECH, INC.

WATER SAMPLING FIELD FORM

Project Name ConocoPhillips Wingate Gas Fractionating Plant — Page 4 of 13

Project No. 114-690165

Site Location 68 El Paso Circle, Gallup, NM

Site/Well No. WMW-4 — Coded/ Replicate No. — Date 6-22-10

Weather Sunny, hot, windy — Time Sampling Began 1330 — Time Sampling Completed 1345

EVACUATION DATA

Description of Measuring Point (MP) Top of Casing

Height of MP Above/Below Land Surface — MP Elevation 6595.49

Total Sounded Depth of Well Below MP 20 — Water-Level Elevation 6588.11

Held — Depth to Water Below MP 7.38 — Diameter of Casing 2"

Wet — Water Column in Well 12.62 — Gallons ~~Pumped~~/Bailed Prior to Sampling 6.25

Gallons per Foot .16

Gallons in Well 2.02 — Sampling Pump Intake Setting (feet below land surface) —

Purging Equipment ~~Submersable Pump (GeoSquirt)~~ Bailed X3=6.06

SAMPLING DATA/FIELD PARAMETERS

Time	Temperature (°C)	pH	Conductivity (µS/cm³)	TDS (g/L)	DO (mg/L)	ORP (mV)	DO%
5.25 #1 1341	13.25	6.81	1778	1,490	~~7.68~~	-102.9	6.5
5.5 1342	12.84	6.74	1753	1,485	.54	-105.8	5.1
6.0 1344	12.62	6.71	1749	1,484	.51	-106.6	~~4.8~~

Sampling Equipment ~~Submersable Pump (GeoSquirt)~~ bailed

Constituents Sampled	Container Description	Preservative
BTEX / SVOCs	3 Glass VOAs (BTEX) / 2 32 oz. Amber	HCl (BTEX) / None
TDS, pH, Alk / Chl, SO4, Nitrate	32 oz. Plastic / 32 oz. Plastic	None
Dissolved Metals	16 oz. Plastic	None (to be filtered and Preserved at lab)

Remarks H2O is brownish-orange in color, no odor, no sheen observed

Sampling Personnel Christine Mathews and Cassie Brown

Well Casing Volumes

Gal./ft.							
	1 ¼" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1 ½" = 0.10	2 ½" = 0.24	3" ½ = 0.50	6" = 1.46

TETRA TECH, INC.

WATER SAMPLING FIELD FORM

Project Name ConocoPhillips Wingate Gas Fractionating Plant — Page 5 of 13

Project No. 114-690165

Site Location 68 El Paso Circle, Gallup, NM

Site/Well No. WMW-2 — Coded/ Replicate No. Duplicate @ ~~1330~~ 1630 — Date 6/22/10

Weather Sunny, windy 86° — Time Sampling Began ~~1335~~ 1445 — Time Sampling Completed ~~1345~~ 1515

EVACUATION DATA

Description of Measuring Point (MP) Top of Casing

Height of MP Above/Below Land Surface _____ — MP Elevation 6594.88

Total Sounded Depth of Well Below MP 20 — Water-Level Elevation 6588.00

Held _____ — Depth to Water Below MP 6.88 — Diameter of Casing 2"

Wet _____ — Water Column in Well ~~11.0~~ 13.12 — Gallons ~~Pumped~~/Bailed Prior to Sampling 6.5 gallons

Gallons per Foot .16

Gallons in Well 2.09 x 3 = 6.3 — Sampling Pump Intake Setting (feet below land surface) _____

Purging Equipment Submersable Pump (GeoSquirt)

SAMPLING DATA/FIELD PARAMETERS

Time	Temperature (°C)	pH	Conductivity (µS/cm³)	TDS (g/L)	DO (mg/L)	~~ORP (mV)~~	DO%

Sampling Equipment ~~Submersable Pump (GeoSquirt)~~ polyethylene bailer

Constituents Sampled	Container Description	Preservative
BTEX / SVOCs	3 Glass VOAs (BTEX) / 2 32 oz. Amber	HCl (BTEX) / None
TDS, pH, Alk / Chl, SO4, Nitrate	32 oz. Plastic / 32 oz. Plastic	None
Dissolved Metals	16 oz. Plastic	None (to be filtered and Preserved at lab)

Remarks No parameters due to sheen (light & discontinuous sheen)

Sampling Personnel Christine Mathews and Cassie Brown

Well Casing Volumes

Gal./ft.							
	1 ¼" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1 ½" = 0.10	2 ½" = 0.24	3" ½ = 0.50	6" = 1.46

TETRA TECH, INC.

WATER SAMPLING FIELD FORM

Project Name: ConocoPhillips Wingate Gas Fractionating Plant — Page 6 of 13

Project No.: 114-690165

Site Location: 68 El Paso Circle, Gallup, NM

Site/Well No.: WMW-6 — Coded/Replicate No.: — Date: 6/23/10

Weather: Sunny, warm — Time Sampling Began: 0915 — Time Sampling Completed: 0930

EVACUATION DATA

Description of Measuring Point (MP): Top of Casing

Height of MP Above/Below Land Surface: — MP Elevation: 6603.86

Total Sounded Depth of Well Below MP: 35 — Water-Level Elevation: 6593.64

Held: — Depth to Water Below MP: 10.22 — Diameter of Casing: 2"

Wet: — Water Column in Well: 24.78 — Gallons Pumped/Bailed Prior to Sampling: ~7.25 due to low recharge

Gallons per Foot: .16

Gallons in Well: 3.96 X3 = 11.89

Sampling Pump Intake Setting (feet below land surface): ~33 ~~bgs~~ below TOC

Purging Equipment: Submersable Pump (GeoSquirt)

SAMPLING DATA/FIELD PARAMETERS

Time	Temperature (°C)	pH	Conductivity (µS/cm³)	TDS (g/L)	DO (mg/L)	ORP (mV)	DO%
7.5 0924	13.00	8.31	1169	0.992	5.15	93.0	33.1
8.0 0925	12.33	8.14	1148	0.980	1.89	75.9	17.1

Sampling Equipment: Submersable Pump (GeoSquirt)

Constituents Sampled	Container Description	Preservative
BTEX / SVOCs	3 Glass VOAs (BTEX) / 2 32 oz. Amber	HCl (BTEX) / None
TDS, pH, Alk / Chl, SO4, Nitrate	32 oz. Plastic / 32 oz. Plastic	None
Dissolved Metals	16 oz. Plastic	None (to be filtered and Preserved at lab)

Remarks: Water is clear with small amount of silt. Pumped dry @ 4.15 gallons and again @ 7.25

Sampling Personnel: Christine Mathews and Cassie Brown

Well Casing Volumes

Gal./ft.			
1 ¼" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
1 ½" = 0.10	2 ½" = 0.24	3" ½ = 0.50	6" = 1.46

TETRA TECH, INC.

WATER SAMPLING FIELD FORM

Project Name: ConocoPhillips Wingate Gas Fractionating Plant — Page 7 of 13

Project No.: 114-690165

Site Location: 68 El Paso Circle, Gallup, NM

Site/Well No.: WMW-8 — Coded/Replicate No.: — Date: 6/23/10

Weather: Sunny, Warm — Time Sampling Began: 0955 — Time Sampling Completed: 1050

EVACUATION DATA

Description of Measuring Point (MP): Top of Casing

Height of MP Above/Below Land Surface: — MP Elevation: 6594.05

Total Sounded Depth of Well Below MP: 38 — Water-Level Elevation: 6587.24

Held: — Depth to Water Below MP: 6.81 — Diameter of Casing: 4"

Wet: — Water Column in Well: 31.19 — Gallons Pumped/Bailed Prior to Sampling: 33 gallons

Gallons per Foot: .65

Gallons in Well: 20.27 — Sampling Pump Intake Setting (feet below land surface): —

Purging Equipment: Submersable Pump (GeoSquirt) X3 = 60.82

volume

SAMPLING DATA/FIELD PARAMETERS

Time	Temperature (°C)	pH	Conductivity (µS/cm)	TDS (g/L)	DO (mg/L)	ORP (mV)	DO%
28 1038	12.92	7.49	845	.713	2.35	-32.5	17.0
30 1040	13.19	7.52	847	.710	.46	-40.1	4.2
31 1042	13.33	7.55	846	.708	.29	-41.7	2.7
1045	13.36	7.45	847	.708	.20	-38.3	1.8

Sampling Equipment: Submersable Pump (GeoSquirt)

Constituents Sampled	Container Description	Preservative
BTEX / SVOCs	3 Glass VOAs (BTEX) / 2 32 oz. Amber	HCl (BTEX) / None
TDS, pH, Alk / Chl, SO4, Nitrate	32 oz. Plastic / 32 oz. Plastic	None
Dissolved Metals	16 oz. Plastic	None (to be filtered and Preserved at lab)

Remarks: H2O is clear to light yellow in color; pumps dry @ 22.75 gallons samples collected @ 33 gallons w/ parameters stable

Sampling Personnel: Christine Mathews and Cassie Brown

Bucket Count (5gal) ||||

Well Casing Volumes

Gal./ft.							
	1 ¼" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1 ½" = 0.10	2 ½" = 0.24	3" ½ = 0.50	6" = 1.46

TETRA TECH, INC.

WATER SAMPLING FIELD FORM

Project Name: ConocoPhillips Wingate Gas Fractionating Plant

Project No.: 114-690165

Site Location: 68 El Paso Circle, Gallup, NM

Site/Well No.: WMW-7

Coded/ Replicate No.:

Date: 6/23/10

Weather: Sunny, slight breeze

Time Sampling Began: 1300

Time Sampling Completed: 1345

EVACUATION DATA

Description of Measuring Point (MP): Top of Casing

Height of MP Above/Below Land Surface:

MP Elevation: 6594.70

Total Sounded Depth of Well Below MP: 38

Water-Level Elevation: 6586.61

Held: ___ Depth to Water Below MP: 8.09

Diameter of Casing: 4"

Wet: ___ Water Column in Well: 29.91

Gallons Pumped/Bailed Prior to Sampling: 58.5

Gallons per Foot: 0.65

Gallons in Well: 19.4x3 = 58.3

Sampling Pump Intake Setting (feet below land surface): ~35 below TOC

Purging Equipment: Submersable Pump (GeoSquirt)

SAMPLING DATA/FIELD PARAMETERS

Volume	Time	Temperature (°C)	pH	Conductivity (μS/cm³)	TDS (g/L)	DO (mg/L)	ORP (mV)	DO%
30	1327	13.58	7.92	1890	1.563	.76	68.4	7.3
33	1330	13.48	7.88	1883	1.571	.64	47.1	6.2
37	1332	13.42	7.85	1858	1.550	.49	35.0	4.6
41	1335	13.44	7.78	1828	1.523	.39	22.2	3.7
46	1338	13.48	7.79	1783	1.484	.29	11.1	2.8
56	1344	13.52	7.65	1602	1.329	.23	6.5	2.2

Sampling Equipment: Submersable Pump (GeoSquirt)

Constituents Sampled	Container Description	Preservative
BTEX / SVOCs	3 Glass VOAs (BTEX) / 2 32 oz. Amber	HCl (BTEX) / None
TDS, pH, Alk / Chl, SO4, Nitrate	32 oz. Plastic / 32 oz. Plastic	None
Dissolved Metals	16 oz. Plastic	None (to be filtered and Preserved at lab)

Remarks: H2O is clear to slight yellow, no odor or sheen detected

Sampling Personnel: Christine Mathews and Cassie Brown

Bucket Count (5gal)

~~||||~~ ~~||||~~ ~~||||~~ |

Well Casing Volumes

Gal./ft.				
	1 ¼" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1 ½" = 0.10	2 ½" = 0.24	3" ½ = 0.50	6" = 1.46

TETRA TECH, INC.

WATER SAMPLING FIELD FORM

Page 9 of 13

Project Name: ConocoPhillips Wingate Gas Fractionating Plant

Project No.: 114-690165

Site Location: 68 El Paso Circle, Gallup, NM

Site/Well No.: WEST POND

Coded/ Replicate No.:

Date: 6/21/10

Weather: Sunny, hot

Time Sampling Began: 1220

Time Sampling Completed: 1235

EVACUATION DATA

Description of Measuring Point (MP): Top of Casing

Height of MP Above/Below Land Surface: N/A

MP Elevation: N/A

Total Sounded Depth of Well Below MP: Surface Water

Water-Level Elevation: N/A

Held ____ Depth to Water Below MP: N/A

Diameter of Casing: N/A

Wet ____ Water Column in Well: N/A

Gallons **Pumped**/Bailed Prior to Sampling: N/A

Gallons per Foot: N/A

Gallons in Well: N/A

Sampling Pump Intake Setting (feet below land surface): N/A

Purging Equipment: N/A

SAMPLING DATA/FIELD PARAMETERS

Time	Temperature (°C)	pH	Conductivity (µS/cm³)	TDS (g/L)	DO (mg/L)	ORP (mV)	DO%

Sampling Equipment: Collect with clean plastic Nalgene cup

Constituents Sampled	Container Description	Preservative
BTEX / SVOCs	3 Glass VOAs (BTEX) / 2 32 oz. Amber	HCl (BTEX) / None
TDS, pH, Alk / Chl, SO4, Nitrate	32 oz. Plastic / 32 oz. Plastic	None
Dissolved Metals	16 oz. Plastic	None (to be filtered and Preserved at lab)
BOD / COD	32 oz. Plastic / 16 oz. Plastic	None / H2SO4
Coliform	120 ml (2 oz) Plastic	Sodium Thinosulfate to HALL ENV LAB

Remarks: ~~CM, CB & KB~~ Surface water, pond nearly dry, floor of pond is covered in white crystalline deposits.

Sampling Personnel: Christine Mathews and Cassie Brown, KB

Well Casing Volumes

Gal./ft.							
	1 ¼" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1 ½" = 0.10	2 ½" = 0.24	3" ½ = 0.50	6" = 1.46

TETRA TECH, INC.

WATER SAMPLING FIELD FORM

Project Name ConocoPhillips Wingate Gas Fractionating Plant — Page 10 of 13

Project No. 114-690165

Site Location 68 El Paso Circle, Gallup, NM

Site/Well No. MWR-1 — Coded/ Replicate No. — Date 6/21/10

Weather Sunny, hot 85° — Time Sampling Began 1230 — Time Sampling Completed 1300

EVACUATION DATA

Description of Measuring Point (MP) Top of Casing

Height of MP Above/Below Land Surface — MP Elevation 6585.13

Total Sounded Depth of Well Below MP 45 — Water-Level Elevation 6579.24

Held ____ Depth to Water Below MP 5.89 — Diameter of Casing 2"

Wet ____ Water Column in Well 39.11 — Gallons Pumped/Bailed Prior to Sampling 20 put in pond

Gallons per Foot 0.16

Gallons in Well 6.25 x 3 = 18.77 — Sampling Pump Intake Setting (feet below land surface) 35'-40'

Purging Equipment Submersable Pump (GeoSquirt)

SAMPLING DATA/FIELD PARAMETERS

Time	Temperature (°C)	pH	Conductivity (µS/cm³)	TDS (g/L)	DO (mg/L)	ORP (mV)	DO%
1248	12.93	13.50 6.20	10203	.835	6.20	-150.9	52.4
1255	14.03	13.45	480	.810	5.30	-145.2	51.4
1300	13.80	13.82	998	.827	5.78	-153.4	53.9

Sampling Equipment Submersable Pump (GeoSquirt)

Constituents Sampled	Container Description	Preservative
BTEX / SVOCs	3 Glass VOAs (BTEX) / 2 32 oz. Amber	HCl (BTEX) / None
TDS, pH, Alk / Chl, SO4, Nitrate	32 oz. Plastic / 32 oz. Plastic	None
Dissolved Metals	16 oz. Plastic	None (to be filtered and Preserved at lab)
BOD / COD	32 oz. Plastic / 16 oz. Plastic	None / H2SO4
Coliform	120 ml (2 oz) Plastic	Sodium Thinosulfate to HALL ENV LAB

Remarks H2O is light brown, light gray, slight bio odor observed, no sheen observed

Sampling Personnel Christine Mathews and Cassie Brown / Kelly Blanchard

Well Casing Volumes

Gal./ft.							
	1 ¼" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1 ½" = 0.10	2 ½" = 0.24	3" ½ = 0.50	6" = 1.46

Note: Total Coliform re-sampled on 7/1/10 for enumeration by Hall. collected @ 1015
80 gallons purged prior to sampling
GW level on 7/1/10 = 6.1

TETRA TECH, INC.

WATER SAMPLING FIELD FORM

Project Name: ConocoPhillips Wingate Gas Fractionating Plant — Page 11 of 13

Project No.: 114-690165

Site Location: 68 El Paso Circle, Gallup, NM

Site/Well No.: EAST POND — Coded/Replicate No.: — Date: 6/21/10 ~~6/21/10~~

Weather: — Time Sampling Began: — Time Sampling Completed: 1420

EVACUATION DATA

Description of Measuring Point (MP): Top of Casing

Height of MP Above/Below Land Surface: N/A — MP Elevation: N/A

Total Sounded Depth of Well Below MP: Surface Water — Water-Level Elevation: N/A

Held: — Depth to Water Below MP: N/A — Diameter of Casing: N/A

Wet: — Water Column in Well: N/A — Gallons **Pumped**/Bailed Prior to Sampling: N/A

Gallons per Foot: N/A

Gallons in Well: N/A — Sampling Pump Intake Setting (feet below land surface): N/A

Purging Equipment: N/A

SAMPLING DATA/FIELD PARAMETERS

Time	Temperature (°C)	pH	Conductivity (µS/cm)	TDS (g/L)	DO (mg/L)	ORP (mV)	DO%

Sampling Equipment: Collect with clean plastic Nalgene cup

Constituents Sampled	Container Description	Preservative
BTEX / SVOCs	3 Glass VOAs (BTEX) / 2 32 oz. Amber	HCl (BTEX) / None
TDS, pH, Alk / Chl, SO4, Nitrate	32 oz. Plastic / 32 oz. Plastic	None
Dissolved Metals	16 oz. Plastic	None (to be filtered and Preserved at lab)
BOD / COD	32 oz. Plastic / 16 oz. Plastic	None / H2SO4
Coliform	120 ml (2 oz) Plastic	Sodium Thinosulfate to HALL ENV LAB

Remarks: Surface water, pond nearly full, slight bio odor observed

Sampling Personnel: Christine Mathews and Cassie Brown

Well Casing Volumes

Gal./ft.	1 ¼" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1 ½" = 0.10	2 ½" = 0.24	3" ½ = 0.50	6" = 1.46

TETRA TECH, INC.

WATER SAMPLING FIELD FORM

Page 12 of 13

Project Name ConocoPhillips Wingate Gas Fractionating Plant

Project No. 114-690165

Site Location 68 El Paso Circle, Gallup, NM

Site/Well No. MW-2 | Coded/ Replicate No. | Date 6-21-10

Weather Sunny, hot 850 | Time Sampling Began 1415 | Time Sampling Completed ~~1445~~ 1545

EVACUATION DATA

Description of Measuring Point (MP) Top of Casing

Height of MP Above/Below Land Surface | MP Elevation 6585.91 ~~6584.87~~

Total Sounded Depth of Well Below MP 45 | Water-Level Elevation 6581.82

Held | Depth to Water Below MP 4.09 | Diameter of Casing 4"

Wet | Water Column in Well 40.91 | Gallons Pumped/Bailed Prior to Sampling

Gallons per Foot ~~0.16~~ 0.65

Gallons in Well ~~6.54 x3 = 19.62~~ 26.59 ~~23.93 x3 = 71.80~~ 79.77

Sampling Pump Intake Setting (feet below land surface) 35 - 40'

Purging Equipment Submersable Pump (GeoSquirt)

SAMPLING DATA/FIELD PARAMETERS

Time	Temperature (°C)	pH	Conductivity (µS/cm³)	TDS (g/L)	DO (mg/L)	ORP (mV)	DO%
14.5 1437	12.68	13.18	1016	1.868	6.34	-159.9	56.7
47 ~~1440~~ 1514	12.84	15.34	1146	.969	-0.03	~~250.3~~	-0.04
51 ~~1443~~ 1517	12.84	15.35	1152	.979	-0.05	-262.5	-0.04
1526	12.83	13.64	1102	0.994	-0.1	-281.6	0.00
1528	12.77	13.86	1173	0.992	-0.05	~~-228.3~~	~~-0.4~~
61 1530	12.76	13.66	1193	1.003	-0.05	-278.9	-0.5

Sampling Equipment Submersable Pump (GeoSquirt)

Constituents Sampled	Container Description	Preservative
BTEX / SVOCs	3 Glass VOAs (BTEX) / 2 32 oz. Amber	HCl (BTEX) / None
TDS, pH, Alk / Chl, SO4, Nitrate (TPL Houston TX)	32 oz. Plastic / 32 oz. Plastic	None
Dissolved Metals (TPL Houston TX)	16 oz. Plastic	None (to be filtered and Preserved at lab)
BOD / COD	32 oz. Plastic / 16 oz. Plastic	None / H2SO4
Coliform (Hall ENV. Lab)	120 ml (2 oz) Plastic	Sodium Thinosulfate to HALL ENV LAB

Remarks H2O is dark greenish brown, absent of solids

Sampling Personnel Christine Mathews and Cassie Brown

Buckets for 7/1/10

IIII IIII IIII IIII

Well Casing Volumes

Gal./ft.							
	1 ¼" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1 ½" = 0.10	2 ½" = 0.24	3" ½ = 0.50	6" = 1.46

Note: On 7/1/10 MW-2 resampled for total coliform enumeration by Hall. Sample collected @ 1140 after 7.75 purging 80 gallons.

TETRA TECH, INC.

WATER SAMPLING FIELD FORM

Page 13 of 13

Project Name ConocoPhillips Wingate Gas Fractionating Plant

Project No. 114-690165

Site Location 68 El Paso Circle, Gallup, NM

Site/Well No. MW-3 | Coded/ Replicate No. | Date 6/23/10

Weather Sunny breezy 85° | Time Sampling Began 1410 | Time Sampling Completed 1455

EVACUATION DATA

Description of Measuring Point (MP) Top of Casing

Height of MP Above/Below Land Surface | MP Elevation 6590.08 ~~6585.23~~

Total Sounded Depth of Well Below MP 45 | Water-Level Elevation 6585.13

Held | Depth to Water Below MP 4.95 | Diameter of Casing 4"

Wet | Water Column in Well 40.05 | Gallons Pumped/Bailed Prior to Sampling 75 gallons

Gallons per Foot .65

Gallons in Well 26 x 3 = 78

Sampling Pump Intake Setting (feet below land surface)

Purging Equipment Submersable Pump (GeoSquirt)

SAMPLING DATA/FIELD PARAMETERS

Time	Temperature (°C)	pH	Conductivity (µS/cm³)	TDS (g/L)	DO (mg/L)	ORP (mV)	DO%
52 1447	12.47	7.310	6007	0.519	0.86	-54.4	6.6
57 1450	12.47	7.49	6009	0.521	0.21	-59.1	2.0
59 1452	12.48	7.54	6012	0.523	0.18	-60.1	1.7

Sampling Equipment Submersable Pump (GeoSquirt)

Constituents Sampled	Container Description	Preservative
BTEX / SVOCs	3 Glass VOAs (BTEX) / 2 32 oz. Amber	HCl (BTEX) / None
TDS, pH, Alk / Chl, SO4, Nitrate	32 oz. Plastic / 32 oz. Plastic	None
Dissolved Metals	16 oz. Plastic	None (to be filtered and Preserved at lab)
BOD / COD	32 oz. Plastic / 16 oz. Plastic	None / H2SO4
Coliform	120 ml (2 oz) Plastic	Sodium Thinosulfate to HALL ENV LAB

Remarks water is pale yellow with no silt

Sampling Personnel Christine Mathews and Cassie Brown

7-1-10 Bucket Count

Bucket Count

Well Casing Volumes

Gal./ft.							
	1 ¼" = 0.077	2" = 0.16	3" = 0.37	4" = 0.65
	1 ½" = 0.10	2 ½" = 0.24	3" ½ = 0.50	6" = 1.46

Note: MW-3 resampled for Total Coliform enumeration by Hall on 7-1-10 @ 1250 after purging 78 gallons

APPENDIX C

Laboratory Analytical Reports

SPL Inc.
8880 Interchange Drive
Houston, TX 77054
Phone: (713) 660-0901
Fax: (713) 660-8975

Certificate of Analysis

July 19, 2010

Workorder: H10060541

Kelly Blanchard
Tetra Tech
6121 Indian School Road NE
Suite 200
Albuquerque, NM 87110

Project: Wingate Fractionating Plant

Project Number: Wingate Fractionating Plant

Site: 68 El Paso Circle, Gallup, NM

PO Number:

NELAC Cert. No.: T104704205-09-1

This Report Contains A Total Of 52 Pages

Excluding Any Attachments

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July 19, 2010

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Tetra Tech
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Suite 200
Albuquerque, NM 87110

Project: Wingate Fractionating Plant

Project Number: Wingate Fractionating Plant

Site: 68 El Paso Circle, Gallup, NM

PO Number:

NELAC Cert. No.: T104704205-09-1

REVISED REPORT:

This report was revised on July 19, 2010 to correct the reported TDS concentrations for samples "WMW-5 and WMW-1" (SPL ID: H10060541002 and 003).

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 pH analysis. The holding time for pH is immediate and should be performed at the time of sampling. Client is aware of the holding time and requested SPL to perform the analysis.

Per your request on July 9, 2010, Dissolved Mercury was added to all samples for analysis.

II: ANALYSES AND EXCEPTIONS:

Semivolatile Organics, Method 8270:

Due to limited sample volume, a Matrix Spike (MS) or Matrix Spike Duplicate (MSD) was not analyzed with Batch ID: EXTO/1887. 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.

Ion Chromatography, Method 300:

Your sample ID "WMW-3" (SPL ID: H10060541001) was randomly selected for use in SPL's quality control program for Batch ID IC/1352. The Matrix Spike (MS) and Matrix Spike Duplicate (MSD) recoveries were outside of the advisable quality control limits for Chloride due to matrix interference. A Laboratory Control Sample (LCS) was analyzed as a quality control check for the analytical batch and all recoveries were within acceptable limits.

Dissolved Mercury, Method 7470:

Your sample ID "WMW-1" (SPL ID: H10060541003) was randomly selected for use in SPL's quality control program for Batch ID HGPR/1167. The MS and MSD recoveries were outside of the advisable quality control limits due to matrix interference. A Post Digestion

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Certificate of Analysis

July 19, 2010

Workorder: H10060541

Kelly Blanchard
Tetra Tech
6121 Indian School Road NE
Suite 200
Albuquerque, NM 87110

Project: Wingate Fractionating Plant

Project Number: Wingate Fractionating Plant

Site: 68 El Paso Circle, Gallup, NM

PO Number:

NELAC Cert. No.: T104704205-09-1

Spike (PDS) and Post Digestion Spike Duplicate (PDSD) was performed and all recoveries were within quality control limits. A Laboratory Control Sample (LCS) was analyzed as a quality control check for the analytical batch and all recoveries were within acceptable limits.

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.

SPL Inc.
8880 Interchange Drive
Houston, TX 77054
Phone: (713) 660-0901
Fax: (713) 660-8975

Certificate of Analysis

July 19, 2010

Workorder: H10060541

Kelly Blanchard
Tetra Tech
6121 Indian School Road NE
Suite 200
Albuquerque, NM 87110

Project: Wingate Fractionating Plant

Project Number: Wingate Fractionating Plant

Site: 68 El Paso Circle, Gallup, NM

PO Number:

NELAC Cert. No.: T104704205-09-1

Erica Cardenas, Senior Project Manager

Enclosures

SPL Inc.
8880 Interchange Drive
Houston, TX 77054
Phone: (713) 660-0901
Fax: (713) 660-8975

SAMPLE SUMMARY

Workorder: H10060541 : Wingate Fractionating Plant

Project Number: Wingate Fractionating Plant

Lab ID	Sample ID	Matrix	COC ID	Date/Time Collected	Date/Time Received
H10060541001	WMW-3	Water		6/22/2010 10:20	6/23/2010 09:15
H10060541002	WMW-5	Water		6/22/2010 11:55	6/23/2010 09:15
H10060541003	WMW-1	Water		6/22/2010 13:00	6/23/2010 09:15
H10060541004	WMW-4	Water		6/22/2010 13:45	6/23/2010 09:15
H10060541005	WMW-2	Water		6/22/2010 15:15	6/23/2010 09:15
H10060541006	Duplicate	Water		6/22/2010 15:30	6/23/2010 09:15
H10060541007	Trip Blank	Water		6/22/2010 16:15	6/23/2010 09:15

SPL Inc.
8880 Interchange Drive
Houston, TX 77054
Phone: (713) 660-0901
Fax: (713) 660-8975

ANALYTICAL RESULTS

Workorder: H10060541 : Wingate Fractionating Plant — Project Number: Wingate Fractionating Plant

Lab ID: **H10060541001** — Date/Time Received: 6/23/2010 09:15 — Matrix: Water

Sample ID: **WMW-3** — Date/Time Collected: 6/22/2010 10:20

Analysis Desc: EPA 300.0 — Analytical Batches:

Batch: 1347 EPA 300.0 on 06/23/2010 14:56 by CFS

Batch: 1352 EPA 300.0 on 06/24/2010 13:35 by CFS

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Chloride	912		50.0	12.6	100			1352
Nitrogen, Nitrate (As N)	3.06		0.500	0.0676	1			1347
Sulfate	1620		50.0	4.35	100			1352

Analysis Desc: SM 2320 B — Analytical Batches:

Batch: 3375 SM 2320 B on 06/25/2010 13:00 by PAC

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Alkalinity, total as CaCO3	238		2.00	1.68	1			3375

WET CHEMISTRY

Analysis Desc: SM 4500-H+ B — Analytical Batches:

Batch: 2710 SM 4500-H+ B on 06/23/2010 17:00 by PAC

Parameters	Results SU	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
pH	7.66	H	0.100		1			2710

Analysis Desc: SM 2540 C — Analytical Batches:

Batch: 1667 SM 2540 C on 06/23/2010 16:25 by CFS

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Residue, Filterable (TDS)	5000		40.0	15.8	4			1667

ICP DISSOLVED METALS

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ANALYTICAL RESULTS

Workorder: H10060541 : Wingate Fractionating Plant — Project Number: Wingate Fractionating Plant

Lab ID: **H10060541001** — Date/Time Received: 6/23/2010 09:15 — Matrix: Water

Sample ID: **WMW-3** — Date/Time Collected: 6/22/2010 10:20

Analysis Desc: SW-846 6010B

Preparation Batches:

Batch: 1852 SW-846 3010A on 06/23/2010 14:45 by R_V

Analytical Batches:

Batch: 1490 SW-846 6010B on 07/03/2010 19:02 by EBG DF = 10.

Batch: 1489 SW-846 6010B on 07/07/2010 23:03 by EBG DF = 1.

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Batch Information Analysis
Arsenic	ND		0.00500	0.00140	1		1852	1489
Barium	0.0351		0.00500	0.000470	1		1852	1489
Cadmium	ND		0.00500	0.000170	1		1852	1489
Calcium	70.1		0.100	0.0171	1		1852	1489
Chromium	ND		0.00500	0.000460	1		1852	1489
Iron	0.927		0.0200	0.00640	1		1852	1489
Lead	ND		0.00500	0.000700	1		1852	1489
Magnesium	33.6		0.100	0.0483	1		1852	1489
Manganese	0.00920		0.00500	0.000300	1		1852	1489
Selenium	ND		0.0100	0.00190	1		1852	1489
Silver	ND		0.00500	0.000670	1		1852	1489
Sodium	1490		1.00	0.295	10		1852	1490

SEMIVOLATILES

Analysis Desc: SW-846 8270C

Preparation Batches:

Batch: 1887 SW-846 3510C on 06/24/2010 11:39 by N_M

Batch: SW-846 3510C on

Analytical Batches:

Batch: 1284 SW-846 8270C on 06/29/2010 04:10 by SBG

Parameters	Results ug/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Batch Information Analysis
Acenaphthene	ND		11	3.2	1		1887	1284
Acenaphthylene	ND		11	3.2	1		1887	1284
Aniline	ND		11	5.7	1		1887	1284
Anthracene	ND		11	3.2	1		1887	1284
Benzo(a)anthracene	ND		11	3.2	1		1887	1284
Benzo(a)pyrene	ND		11	3.6	1		1887	1284
Benzo(b)fluoranthene	ND		11	3.5	1		1887	1284
Benzo(g,h,i)perylene	ND		11	3.5	1		1887	1284
Benzo(k)fluoranthene	ND		11	4.0	1		1887	1284
Benzoic acid	ND		57	8.9	1		1887	1284
Benzyl alcohol	ND		11	2.8	1		1887	1284

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ANALYTICAL RESULTS

Workorder: H10060541 : Wingate Fractionating Plant | Project Number: Wingate Fractionating Plant

Lab ID: **H10060541001** | Date/Time Received: 6/23/2010 09:15 | Matrix: Water

Sample ID: **WMW-3** | Date/Time Collected: 6/22/2010 10:20

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Bis(2-Chloroethoxy)methane	ND		11	5.2	1		1887	1284
Bis(2-Chloroethyl)ether	ND		11	3.6	1		1887	1284
bis(2-Chloroisopropyl)ether	ND		11	3.6	1		1887	1284
bis(2-Ethylhexyl)phthalate	ND		11	3.7	1		1887	1284
4-Bromophenyl phenyl ether	ND		11	3.4	1		1887	1284
Butyl benzyl phthalate	ND		11	3.5	1		1887	1284
Carbazole	ND		11	3.4	1		1887	1284
4-Chloro-3-methylphenol	ND		11	3.1	1		1887	1284
4-Chloroaniline	ND		11	2.9	1		1887	1284
2-Chloronaphthalene	ND		11	3.6	1		1887	1284
2-Chlorophenol	ND		11	3.0	1		1887	1284
4-Chlorophenyl phenyl ether	ND		11	3.8	1		1887	1284
Chrysene	ND		11	3.4	1		1887	1284
Cresols, Total	ND		11	3.1	1		1887	1284
Di-n-butyl phthalate	ND		11	3.6	1		1887	1284
Di-n-octyl phthalate	ND		11	3.6	1		1887	1284
Dibenz(a,h)anthracene	ND		11	3.1	1		1887	1284
Dibenzofuran	ND		11	3.3	1		1887	1284
1,3-Dichlorobenzene	ND		11	3.2	1		1887	1284
1,2-Dichlorobenzene	ND		11	3.1	1		1887	1284
1,4-Dichlorobenzene	ND		11	3.2	1		1887	1284
2,4-Dichlorophenol	ND		11	2.9	1		1887	1284
Diethyl phthalate	ND		11	3.4	1		1887	1284
Dimethyl phthalate	ND		11	3.5	1		1887	1284
2,4-Dimethylphenol	ND		11	3.3	1		1887	1284
4,6-Dinitro-2-methylphenol	ND		57	9.4	1		1887	1284
2,4-Dinitrophenol	ND		57	9.5	1		1887	1284
2,6-Dinitrotoluene	ND		11	3.2	1		1887	1284
2,4-Dinitrotoluene	ND		11	2.8	1		1887	1284
Diphenylamine	ND		23	4.5	1		1887	1284
1,2-Diphenylhydrazine	ND		23	9.0	1		1887	1284
Fluoranthene	ND		11	3.2	1		1887	1284
Fluorene	ND		11	3.2	1		1887	1284
Hexachlorobenzene	ND		11	3.4	1		1887	1284
Hexachlorobutadiene	ND		11	3.4	1		1887	1284
Hexachlorocyclopentadiene	ND		11	2.4	1		1887	1284
Hexachloroethane	ND		11	3.0	1		1887	1284
Indeno(1,2,3-cd)pyrene	ND		11	3.1	1		1887	1284
Isophorone	ND		11	3.1	1		1887	1284
2-Methylnaphthalene	ND		11	3.3	1		1887	1284
2-Methylphenol (o-Cresol)	ND		11	3.1	1		1887	1284

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ANALYTICAL RESULTS

Workorder: H10060541 : Wingate Fractionating Plant | Project Number: Wingate Fractionating Plant

Lab ID: **H10060541001** | Date/Time Received: 6/23/2010 09:15 | Matrix: Water

Sample ID: **WMW-3** | Date/Time Collected: 6/22/2010 10:20

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
3 & 4-Methylphenol	ND		11	3.1	1		1887	1284
n-Nitrosodi-n-propylamine	ND		11	3.5	1		1887	1284
n-Nitrosodimethylamine	ND		11	3.4	1		1887	1284
n-Nitrosodiphenylamine	ND		11	4.5	1		1887	1284
Naphthalene	ND		11	3.3	1		1887	1284
3-Nitroaniline	ND		57	8.7	1		1887	1284
4-Nitroaniline	ND		57	6.8	1		1887	1284
2-Nitroaniline	ND		57	9.5	1		1887	1284
Nitrobenzene	ND		11	3.3	1		1887	1284
2-Nitrophenol	ND		11	3.1	1		1887	1284
4-Nitrophenol	ND		57	12	1		1887	1284
Pentachlorophenol	ND		57	2.4	1		1887	1284
Phenanthrene	ND		11	3.5	1		1887	1284
Phenol	ND		11	3.5	1		1887	1284
Pyrene	ND		11	3.5	1		1887	1284
Pyridine	ND		11	5.4	1		1887	1284
1,2,4-Trichlorobenzene	ND		11	3.2	1		1887	1284
2,4,6-Trichlorophenol	ND		11	3.0	1		1887	1284
2,4,5-Trichlorophenol	ND		23	2.6	1		1887	1284
3,3'-Dichlorobenzidine	ND		23	6.8	1		1887	1284
1,3-Dioxolane, 2-ethyl-4-methyl-	0.0060	JN			1			1284
1-Iodo-2,3-epoxypropane	0.020	JN			1			1284
2,5-Cyclohexadien-1-one, 2,5-dimethyl-4-	0.0057	JN			1			1284
Bromacil	0.0083	JN			1			1284
2-Fluorobiphenyl (S)	90.5 %		45-108		1		1887	1284
2-Fluorophenol (S)	68.7 %		18-113		1		1887	1284
Nitrobenzene-d5 (S)	84.6 %		41-113		1		1887	1284
Phenol-d6 (S)	57.9 %		10-113		1		1887	1284
Terphenyl-d14 (S)	99.6 %		43-122		1		1887	1284
2,4,6-Tribromophenol (S)	88.7 %		25-154		1		1887	1284

VOLATILES

Analysis Desc: SW-846 8260B (GCVMS Analysis)

SW-846 5030Analytical Batches:

Batch: 1436 SW-846 8260B (GCVMS Analysis) on 06/30/2010 17:09 by DLY

Parameters	Results ug/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Benzene	ND		1.0	0.17	1			1436
Ethylbenzene	ND		1.0	0.097	1			1436
Toluene	ND		1.0	0.12	1			1436

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ANALYTICAL RESULTS

Workorder: H10060541 : Wingate Fractionating Plant — Project Number: Wingate Fractionating Plant

Lab ID: **H10060541001** — Date/Time Received: 6/23/2010 09:15 — Matrix: Water

Sample ID: **WMW-3** — Date/Time Collected: 6/22/2010 10:20

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Batch Information Analysis
m,p-Xylene	ND		1.0	0.30	1			1436
o-Xylene	ND		1.0	0.11	1			1436
Xylenes, Total	ND		1.0	0.11	1			1436
4-Bromofluorobenzene (S)	96.4 %		70-130		1			1436
1,2-Dichloroethane-d4 (S)	95.6 %		71-140		1			1436
Toluene-d8 (S)	102 %		61-121		1			1436
Preservation pH	<2				1			1436

DISSOLVED METALS

Analysis Desc: SW-846 7470A

Preparation Batches:

Batch: 1166 SW-846 7470A on 07/12/2010 12:10 by F_S

Analytical Batches:

Batch: 1152 SW-846 7470A on 07/13/2010 09:53 by F_S

Parameters	Results ug/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Batch Information Analysis
Mercury	ND		0.200	0.140	1		1166	1152

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ANALYTICAL RESULTS

Workorder: H10060541 : Wingate Fractionating Plant | Project Number: Wingate Fractionating Plant

Lab ID: **H10060541002** | Date/Time Received: 6/23/2010 09:15 | Matrix: Water

Sample ID: **WMW-5** | Date/Time Collected: 6/22/2010 11:55

Analysis Desc: EPA 300.0

Analytical Batches:

Batch: 1347 EPA 300.0 on 06/23/2010 15:12 by CFS

Batch: 1352 EPA 300.0 on 06/24/2010 13:52 by CFS

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Chloride	275		50.0	12.6	100			1352
Nitrogen, Nitrate (As N)	0.608		0.500	0.0676	1			1347
Sulfate	1430		50.0	4.35	100			1352

Analysis Desc: SM 2320 B

Analytical Batches:

Batch: 3375 SM 2320 B on 06/25/2010 13:00 by PAC

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Alkalinity, total as CaCO3	165		2.00	1.68	1			3375

WET CHEMISTRY

Analysis Desc: SM 4500-H+ B

Analytical Batches:

Batch: 2710 SM 4500-H+ B on 06/23/2010 17:00 by PAC

Parameters	Results SU	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
pH	7.21	H	0.100		1			2710

Analysis Desc: SM 2540 C

Analytical Batches:

Batch: 1667 SM 2540 C on 06/23/2010 16:25 by CFS

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Residue, Filterable (TDS)	3380		100	39.4	10			1667

ICP DISSOLVED METALS

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ANALYTICAL RESULTS

Workorder: H10060541 : Wingate Fractionating Plant — Project Number: Wingate Fractionating Plant

Lab ID: **H10060541002** — Date/Time Received: 6/23/2010 09:15 — Matrix: Water

Sample ID: **WMW-5** — Date/Time Collected: 6/22/2010 11:55

Analysis Desc: SW-846 6010B

Preparation Batches:
Batch: 1852 SW-846 3010A on 06/23/2010 14:45 by R_V

Analytical Batches:
Batch: 1490 SW-846 6010B on 07/03/2010 18:08 by EBG DF = 5
Batch: 1489 SW-846 6010B on 07/07/2010 22:15 by EBG DF = 1

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Arsenic	ND		0.00500	0.00140	1		1852	1489
Barium	0.00980		0.00500	0.000470	1		1852	1489
Cadmium	ND		0.00500	0.000170	1		1852	1489
Calcium	170		0.100	0.0171	1		1852	1489
Chromium	ND		0.00500	0.000460	1		1852	1489
Iron	ND		0.0200	0.00640	1		1852	1489
Lead	ND		0.00500	0.000700	1		1852	1489
Magnesium	51.3		0.100	0.0483	1		1852	1489
Manganese	1.13		0.00500	0.000300	1		1852	1489
Selenium	ND		0.0100	0.00190	1		1852	1489
Silver	ND		0.00500	0.000670	1		1852	1489
Sodium	862		0.500	0.148	5		1852	1490

SEMIVOLATILES

Analysis Desc: SW-846 8270C

Preparation Batches:
Batch: 1887 SW-846 3510C on 06/24/2010 11:40 by N_M
Batch: SW-846 3510C on

Analytical Batches:
Batch: 1284 SW-846 8270C on 06/29/2010 04:45 by SBG

Parameters	Results ug/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Acenaphthene	ND		5.6	1.6	1		1887	1284
Acenaphthylene	ND		5.6	1.6	1		1887	1284
Aniline	ND		5.6	2.8	1		1887	1284
Anthracene	ND		5.6	1.5	1		1887	1284
Benzo(a)anthracene	ND		5.6	1.6	1		1887	1284
Benzo(a)pyrene	ND		5.6	1.8	1		1887	1284
Benzo(b)fluoranthene	ND		5.6	1.7	1		1887	1284
Benzo(g,h,i)perylene	ND		5.6	1.7	1		1887	1284
Benzo(k)fluoranthene	ND		5.6	1.9	1		1887	1284
Benzoic acid	ND		28	4.4	1		1887	1284
Benzyl alcohol	ND		5.6	1.4	1		1887	1284

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ANALYTICAL RESULTS

Workorder: H10060541 : Wingate Fractionating Plant | Project Number: Wingate Fractionating Plant

Lab ID: **H10060541002** | Date/Time Received: 6/23/2010 09:15 | Matrix: Water

Sample ID: **WMW-5** | Date/Time Collected: 6/22/2010 11:55

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Batch Information Analysis
Bis(2-Chloroethoxy)methane	ND		5.6	2.5	1		1887	1284
Bis(2-Chloroethyl)ether	ND		5.6	1.8	1		1887	1284
bis(2-Chloroisopropyl)ether	ND		5.6	1.8	1		1887	1284
bis(2-Ethylhexyl)phthalate	ND		5.6	1.8	1		1887	1284
4-Bromophenyl phenyl ether	ND		5.6	1.6	1		1887	1284
Butyl benzyl phthalate	ND		5.6	1.7	1		1887	1284
Carbazole	ND		5.6	1.7	1		1887	1284
4-Chloro-3-methylphenol	ND		5.6	1.5	1		1887	1284
4-Chloroaniline	ND		5.6	1.4	1		1887	1284
2-Chloronaphthalene	ND		5.6	1.8	1		1887	1284
2-Chlorophenol	ND		5.6	1.5	1		1887	1284
4-Chlorophenyl phenyl ether	ND		5.6	1.9	1		1887	1284
Chrysene	ND		5.6	1.6	1		1887	1284
Cresols, Total	ND		5.6	1.5	1		1887	1284
Di-n-butyl phthalate	ND		5.6	1.8	1		1887	1284
Di-n-octyl phthalate	ND		5.6	1.8	1		1887	1284
Dibenz(a,h)anthracene	ND		5.6	1.5	1		1887	1284
Dibenzofuran	ND		5.6	1.6	1		1887	1284
1,3-Dichlorobenzene	ND		5.6	1.6	1		1887	1284
1,2-Dichlorobenzene	ND		5.6	1.5	1		1887	1284
1,4-Dichlorobenzene	ND		5.6	1.6	1		1887	1284
2,4-Dichlorophenol	ND		5.6	1.4	1		1887	1284
Diethyl phthalate	ND		5.6	1.6	1		1887	1284
Dimethyl phthalate	ND		5.6	1.7	1		1887	1284
2,4-Dimethylphenol	ND		5.6	1.6	1		1887	1284
4,6-Dinitro-2-methylphenol	ND		28	4.6	1		1887	1284
2,4-Dinitrophenol	ND		28	4.6	1		1887	1284
2,6-Dinitrotoluene	ND		5.6	1.6	1		1887	1284
2,4-Dinitrotoluene	ND		5.6	1.3	1		1887	1284
Diphenylamine	ND		11	2.2	1		1887	1284
1,2-Diphenylhydrazine	ND		11	4.4	1		1887	1284
Fluoranthene	ND		5.6	1.5	1		1887	1284
Fluorene	ND		5.6	1.6	1		1887	1284
Hexachlorobenzene	ND		5.6	1.7	1		1887	1284
Hexachlorobutadiene	ND		5.6	1.7	1		1887	1284
Hexachlorocyclopentadiene	ND		5.6	1.2	1		1887	1284
Hexachloroethane	ND		5.6	1.4	1		1887	1284
Indeno(1,2,3-cd)pyrene	ND		5.6	1.5	1		1887	1284
Isophorone	ND		5.6	1.5	1		1887	1284
2-Methylnaphthalene	ND		5.6	1.6	1		1887	1284
2-Methylphenol (o-Cresol)	ND		5.6	1.5	1		1887	1284

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ANALYTICAL RESULTS

Workorder: H10060541 : Wingate Fractionating Plant | Project Number: Wingate Fractionating Plant

Lab ID: **H10060541002** | Date/Time Received: 6/23/2010 09:15 | Matrix: Water
Sample ID: **WMW-5** | Date/Time Collected: 6/22/2010 11:55

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Batch Information Analysis
3 & 4-Methylphenol	ND		5.6	1.5	1		1887	1284
n-Nitrosodi-n-propylamine	ND		5.6	1.7	1		1887	1284
n-Nitrosodimethylamine	ND		5.6	1.7	1		1887	1284
n-Nitrosodiphenylamine	ND		5.6	2.2	1		1887	1284
Naphthalene	ND		5.6	1.6	1		1887	1284
3-Nitroaniline	ND		28	4.3	1		1887	1284
4-Nitroaniline	ND		28	3.3	1		1887	1284
2-Nitroaniline	ND		28	4.7	1		1887	1284
Nitrobenzene	ND		5.6	1.6	1		1887	1284
2-Nitrophenol	ND		5.6	1.5	1		1887	1284
4-Nitrophenol	ND		28	5.8	1		1887	1284
Pentachlorophenol	ND		28	1.2	1		1887	1284
Phenanthrene	ND		5.6	1.7	1		1887	1284
Phenol	ND		5.6	1.7	1		1887	1284
Pyrene	ND		5.6	1.7	1		1887	1284
Pyridine	ND		5.6	2.6	1		1887	1284
1,2,4-Trichlorobenzene	ND		5.6	1.6	1		1887	1284
2,4,6-Trichlorophenol	ND		5.6	1.5	1		1887	1284
2,4,5-Trichlorophenol	ND		11	1.3	1		1887	1284
3,3'-Dichlorobenzidine	ND		11	3.3	1		1887	1284
(E)-3-Chloro-2-methyl-2-pentenal	0.095	JN			1			1284
1-Iodo-2,3-epoxypropane	0.072	JN			1			1284
1H-Imidazole, 4-methyl-5-nitro-	0.085	JN			1			1284
2,5-Cyclohexadien-1-one, 2,5-dimethyl-4-	0.0089	JN			1			1284
Thiocyanic acid, ethyl ester	0.019	JN			1			1284
2-Fluorobiphenyl (S)	85.7 %		45-108		1		1887	1284
2-Fluorophenol (S)	66.7 %		18-113		1		1887	1284
Nitrobenzene-d5 (S)	81.6 %		41-113		1		1887	1284
Phenol-d6 (S)	55.3 %		10-113		1		1887	1284
Terphenyl-d14 (S)	88.5 %		43-122		1		1887	1284
2,4,6-Tribromophenol (S)	89.3 %		25-154		1		1887	1284

VOLATILES

Analysis Desc: SW-846 8260B (GCVMS Analysis) | SW-846 5030Analytical Batches:
Batch: 1436 SW-846 8260B (GCVMS Analysis) on 06/30/2010 17:31 by DLY

Parameters	Results ug/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Batch Information Analysis
Benzene	ND		1.0	0.17	1			1436
Ethylbenzene	ND		1.0	0.097	1			1436

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ANALYTICAL RESULTS

Workorder: H10060541 : Wingate Fractionating Plant | Project Number: Wingate Fractionating Plant

Lab ID: **H10060541002** | Date/Time Received: 6/23/2010 09:15 | Matrix: Water

Sample ID: **WMW-5** | Date/Time Collected: 6/22/2010 11:55

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Batch Information Analysis
Toluene	ND		1.0	0.12	1			1436
m,p-Xylene	ND		1.0	0.30	1			1436
o-Xylene	ND		1.0	0.11	1			1436
Xylenes, Total	ND		1.0	0.11	1			1436
4-Bromofluorobenzene (S)	95.9 %		70-130		1			1436
1,2-Dichloroethane-d4 (S)	93.7 %		71-140		1			1436
Toluene-d8 (S)	103 %		61-121		1			1436
Preservation pH	<2				1			1436

DISSOLVED METALS

Analysis Desc: SW-846 7470A

Analytical Batches:

Batch: 1152 SW-846 7470A on 07/13/2010 09:55 by F_S

Parameters	Results ug/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Batch Information Analysis
Mercury	ND		0.200	0.140	1			1152

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ANALYTICAL RESULTS

Workorder: H10060541 : Wingate Fractionating Plant | Project Number: Wingate Fractionating Plant

Lab ID: **H10060541003** | Date/Time Received: 6/23/2010 09:15 | Matrix: Water

Sample ID: **WMW-1** | Date/Time Collected: 6/22/2010 13:00

Analysis Desc: EPA 300.0 | Analytical Batches:

Batch: 1347 EPA 300.0 on 06/23/2010 16:01 by CFS

Batch: 1352 EPA 300.0 on 06/24/2010 14:09 by CFS

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Chloride	530		50.0	12.6	100			1352
Nitrogen, Nitrate (As N)	0.993		0.500	0.0676	1			1347
Sulfate	1940		50.0	4.35	100			1352

Analysis Desc: SM 2320 B | Analytical Batches:

Batch: 3375 SM 2320 B on 06/25/2010 13:00 by PAC

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Alkalinity, total as CaCO3	215		2.00	1.68	1			3375

WET CHEMISTRY

Analysis Desc: SM 4500-H+ B | Analytical Batches:

Batch: 2710 SM 4500-H+ B on 06/23/2010 17:00 by PAC

Parameters	Results SU	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
pH	7.05	H	0.100		1			2710

Analysis Desc: SM 2540 C | Analytical Batches:

Batch: 1667 SM 2540 C on 06/23/2010 16:25 by CFS

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Residue, Filterable (TDS)	4330		100	39.4	10			1667

ICP DISSOLVED METALS

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ANALYTICAL RESULTS

Workorder: H10060541 : Wingate Fractionating Plant | Project Number: Wingate Fractionating Plant

Lab ID: **H10060541003** | Date/Time Received: 6/23/2010 09:15 | Matrix: Water

Sample ID: **WMW-1** | Date/Time Collected: 6/22/2010 13:00

Analysis Desc: SW-846 6010B

Preparation Batches:

Batch: 1852 SW-846 3010A on 06/23/2010 14:45 by R_V

Analytical Batches:

Batch: 1490 SW-846 6010B on 07/03/2010 19:14 by EBG DF = 10.

Batch: 1489 SW-846 6010B on 07/07/2010 23:09 by EBG DF = 1.

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Arsenic	ND		0.00500	0.00140	1		1852	1489
Barium	0.0184		0.00500	0.000470	1		1852	1489
Cadmium	ND		0.00500	0.000170	1		1852	1489
Calcium	194		0.100	0.0171	1		1852	1489
Chromium	ND		0.00500	0.000460	1		1852	1489
Iron	ND		0.0200	0.00640	1		1852	1489
Lead	ND		0.00500	0.000700	1		1852	1489
Magnesium	53.0		0.100	0.0483	1		1852	1489
Manganese	3.51		0.00500	0.000300	1		1852	1489
Selenium	ND		0.0100	0.00190	1		1852	1489
Silver	ND		0.00500	0.000670	1		1852	1489
Sodium	1140		1.00	0.295	10		1852	1490

SEMIVOLATILES

Analysis Desc: SW-846 8270C

Preparation Batches:

Batch: 1887 SW-846 3510C on 06/24/2010 11:40 by N_M

Batch: SW-846 3510C on

Analytical Batches:

Batch: 1284 SW-846 8270C on 06/30/2010 01:31 by SBG

Parameters	Results ug/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Acenaphthene	ND		5.7	1.6	1		1887	1284
Acenaphthylene	ND		5.7	1.6	1		1887	1284
Aniline	ND		5.7	2.9	1		1887	1284
Anthracene	ND		5.7	1.6	1		1887	1284
Benzo(a)anthracene	ND		5.7	1.6	1		1887	1284
Benzo(a)pyrene	ND		5.7	1.8	1		1887	1284
Benzo(b)fluoranthene	ND		5.7	1.8	1		1887	1284
Benzo(g,h,i)perylene	ND		5.7	1.7	1		1887	1284
Benzo(k)fluoranthene	ND		5.7	2.0	1		1887	1284
Benzoic acid	ND		29	4.5	1		1887	1284
Benzyl alcohol	ND		5.7	1.4	1		1887	1284

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ANALYTICAL RESULTS

Workorder: H10060541 : Wingate Fractionating Plant | Project Number: Wingate Fractionating Plant

Lab ID: **H10060541003** | Date/Time Received: 6/23/2010 09:15 | Matrix: Water

Sample ID: **WMW-1** | Date/Time Collected: 6/22/2010 13:00

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Bis(2-Chloroethoxy)methane	ND		5.7	2.6	1		1887	1284
Bis(2-Chloroethyl)ether	ND		5.7	1.8	1		1887	1284
bis(2-Chloroisopropyl)ether	ND		5.7	1.8	1		1887	1284
bis(2-Ethylhexyl)phthalate	ND		5.7	1.9	1		1887	1284
4-Bromophenyl phenyl ether	ND		5.7	1.7	1		1887	1284
Butyl benzyl phthalate	ND		5.7	1.8	1		1887	1284
Carbazole	ND		5.7	1.7	1		1887	1284
4-Chloro-3-methylphenol	ND		5.7	1.6	1		1887	1284
4-Chloroaniline	ND		5.7	1.5	1		1887	1284
2-Chloronaphthalene	ND		5.7	1.8	1		1887	1284
2-Chlorophenol	ND		5.7	1.5	1		1887	1284
4-Chlorophenyl phenyl ether	ND		5.7	1.9	1		1887	1284
Chrysene	ND		5.7	1.7	1		1887	1284
Cresols, Total	ND		5.7	1.6	1		1887	1284
Di-n-butyl phthalate	ND		5.7	1.8	1		1887	1284
Di-n-octyl phthalate	ND		5.7	1.8	1		1887	1284
Dibenz(a,h)anthracene	ND		5.7	1.6	1		1887	1284
Dibenzofuran	ND		5.7	1.7	1		1887	1284
1,3-Dichlorobenzene	ND		5.7	1.6	1		1887	1284
1,2-Dichlorobenzene	ND		5.7	1.6	1		1887	1284
1,4-Dichlorobenzene	ND		5.7	1.6	1		1887	1284
2,4-Dichlorophenol	ND		5.7	1.4	1		1887	1284
Diethyl phthalate	ND		5.7	1.7	1		1887	1284
Dimethyl phthalate	ND		5.7	1.7	1		1887	1284
2,4-Dimethylphenol	ND		5.7	1.7	1		1887	1284
4,6-Dinitro-2-methylphenol	ND		29	4.7	1		1887	1284
2,4-Dinitrophenol	ND		29	4.8	1		1887	1284
2,6-Dinitrotoluene	ND		5.7	1.6	1		1887	1284
2,4-Dinitrotoluene	ND		5.7	1.4	1		1887	1284
Diphenylamine	ND		11	2.3	1		1887	1284
1,2-Diphenylhydrazine	ND		11	4.5	1		1887	1284
Fluoranthene	ND		5.7	1.6	1		1887	1284
Fluorene	ND		5.7	1.6	1		1887	1284
Hexachlorobenzene	ND		5.7	1.7	1		1887	1284
Hexachlorobutadiene	ND		5.7	1.7	1		1887	1284
Hexachlorocyclopentadiene	ND		5.7	1.2	1		1887	1284
Hexachloroethane	ND		5.7	1.5	1		1887	1284
Indeno(1,2,3-cd)pyrene	ND		5.7	1.6	1		1887	1284
Isophorone	ND		5.7	1.6	1		1887	1284
2-Methylnaphthalene	ND		5.7	1.7	1		1887	1284
2-Methylphenol (o-Cresol)	ND		5.7	1.6	1		1887	1284

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ANALYTICAL RESULTS

Workorder: H10060541 : Wingate Fractionating Plant | Project Number: Wingate Fractionating Plant

Lab ID: **H10060541003** | Date/Time Received: 6/23/2010 09:15 | Matrix: Water

Sample ID: **WMW-1** | Date/Time Collected: 6/22/2010 13:00

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Batch Information Analysis
3 & 4-Methylphenol	ND		5.7	1.6	1		1887	1284
n-Nitrosodi-n-propylamine	ND		5.7	1.8	1		1887	1284
n-Nitrosodimethylamine	ND		5.7	1.7	1		1887	1284
n-Nitrosodiphenylamine	ND		5.7	2.3	1		1887	1284
Naphthalene	ND		5.7	1.7	1		1887	1284
3-Nitroaniline	ND		29	4.4	1		1887	1284
4-Nitroaniline	ND		29	3.5	1		1887	1284
2-Nitroaniline	ND		29	4.8	1		1887	1284
Nitrobenzene	ND		5.7	1.7	1		1887	1284
2-Nitrophenol	ND		5.7	1.6	1		1887	1284
4-Nitrophenol	ND		29	6.0	1		1887	1284
Pentachlorophenol	ND		29	1.2	1		1887	1284
Phenanthrene	ND		5.7	1.8	1		1887	1284
Phenol	ND		5.7	1.8	1		1887	1284
Pyrene	ND		5.7	1.8	1		1887	1284
Pyridine	ND		5.7	2.7	1		1887	1284
1,2,4-Trichlorobenzene	ND		5.7	1.6	1		1887	1284
2,4,6-Trichlorophenol	ND		5.7	1.5	1		1887	1284
2,4,5-Trichlorophenol	ND		11	1.3	1		1887	1284
3,3'-Dichlorobenzidine	ND		11	3.4	1		1887	1284
1-Iodo-2,3-epoxypropane	0.23	JN			1			1284
1-Pentene, 2,3-dimethyl-	0.012	JN			1			1284
1H-Imidazole, 4-methyl-5-nitro-	0.023	JN			1			1284
2H-Cyclopenta[d]pyridazine, 2-methyl-	0.090	JN			1			1284
Bromacil	0.0052	JN			1			1284
n-Hexadecanoic acid	0.0088	JN			1			1284
Octadecanoic acid	0.0097	JN			1			1284
Thiocyanic acid, ethyl ester	0.074	JN			1			1284
2-Fluorobiphenyl (S)	86 %		45-108		1		1887	1284
2-Fluorophenol (S)	63.7 %		18-113		1		1887	1284
Nitrobenzene-d5 (S)	82.6 %		41-113		1		1887	1284
Phenol-d6 (S)	51.7 %		10-113		1		1887	1284
Terphenyl-d14 (S)	85.9 %		43-122		1		1887	1284
2,4,6-Tribromophenol (S)	98 %		25-154		1		1887	1284

VOLATILES

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ANALYTICAL RESULTS

Workorder: H10060541 : Wingate Fractionating Plant — Project Number: Wingate Fractionating Plant

Lab ID: **H10060541003** — Date/Time Received: 6/23/2010 09:15 — Matrix: Water

Sample ID: **WMW-1** — Date/Time Collected: 6/22/2010 13:00

Analysis Desc: SW-846 8260B (GCVMS Analysis) — SW-846 5030Analytical Batches:

Batch: 1436 SW-846 8260B (GCVMS Analysis) on 06/30/2010 17:53 by DLY

Parameters	Results ug/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Benzene	ND		1.0	0.17	1			1436
Ethylbenzene	ND		1.0	0.097	1			1436
Toluene	ND		1.0	0.12	1			1436
m,p-Xylene	ND		1.0	0.30	1			1436
o-Xylene	ND		1.0	0.11	1			1436
Xylenes, Total	ND		1.0	0.11	1			1436
4-Bromofluorobenzene (S)	95.4 %		70-130		1			1436
1,2-Dichloroethane-d4 (S)	95.1 %		71-140		1			1436
Toluene-d8 (S)	102 %		61-121		1			1436
Preservation pH	<2				1			1436

DISSOLVED METALS

Analysis Desc: SW-846 7470A — Preparation Batches:

Batch: 1167 SW-846 7470A on 07/13/2010 09:30 by F_S

Analytical Batches:

Batch: 1152 SW-846 7470A on 07/13/2010 09:39 by F_S

Parameters	Results ug/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Mercury	ND		0.200	0.140	1		1167	1152

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ANALYTICAL RESULTS

Workorder: H10060541 : Wingate Fractionating Plant — Project Number: Wingate Fractionating Plant

Lab ID: **H10060541004** — Date/Time Received: 6/23/2010 09:15 — Matrix: Water

Sample ID: **WMW-4** — Date/Time Collected: 6/22/2010 13:45

Analysis Desc: EPA 300.0

Analytical Batches:

Batch: 1347 EPA 300.0 on 06/23/2010 16:17 by CFS

Batch: 1352 EPA 300.0 on 06/24/2010 14:26 by CFS

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Batch Information Analysis
Chloride	171		50.0	12.6	100			1352
Nitrogen, Nitrate (As N)	0.541		0.500	0.0676	1			1347
Sulfate	265		50.0	4.35	100			1352

Analysis Desc: SM 2320 B

Analytical Batches:

Batch: 3375 SM 2320 B on 06/25/2010 13:00 by PAC

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Batch Information Analysis
Alkalinity, total as CaCO3	199		2.00	1.68	1			3375

WET CHEMISTRY

Analysis Desc: SM 4500-H+ B

Analytical Batches:

Batch: 2710 SM 4500-H+ B on 06/23/2010 17:00 by PAC

Parameters	Results SU	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Batch Information Analysis
pH	7.69	H	0.100		1			2710

Analysis Desc: SM 2540 C

Analytical Batches:

Batch: 1667 SM 2540 C on 06/23/2010 16:25 by CFS

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Batch Information Analysis
Residue, Filterable (TDS)	1830		10.0	3.94	1			1667

ICP DISSOLVED METALS

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ANALYTICAL RESULTS

Workorder: H10060541 : Wingate Fractionating Plant — Project Number: Wingate Fractionating Plant

Lab ID: **H10060541004** — Date/Time Received: 6/23/2010 09:15 — Matrix: Water

Sample ID: **WMW-4** — Date/Time Collected: 6/22/2010 13:45

Analysis Desc: SW-846 6010B

Preparation Batches:
Batch: 1852 SW-846 3010A on 06/23/2010 14:45 by R_V

Analytical Batches:
Batch: 1490 SW-846 6010B on 07/03/2010 19:20 by EBG DF = 5
Batch: 1489 SW-846 6010B on 07/07/2010 23:15 by EBG DF = 1

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Arsenic	ND		0.00500	0.00140	1		1852	1489
Barium	0.0492		0.00500	0.000470	1		1852	1489
Cadmium	ND		0.00500	0.000170	1		1852	1489
Calcium	13.6		0.100	0.0171	1		1852	1489
Chromium	ND		0.00500	0.000460	1		1852	1489
Iron	ND		0.0200	0.00640	1		1852	1489
Lead	ND		0.00500	0.000700	1		1852	1489
Magnesium	14.4		0.100	0.0483	1		1852	1489
Manganese	0.279		0.00500	0.000300	1		1852	1489
Selenium	ND		0.0100	0.00190	1		1852	1489
Silver	ND		0.00500	0.000670	1		1852	1489
Sodium	548		0.500	0.148	5		1852	1490

SEMIVOLATILES

Analysis Desc: SW-846 8270C

Preparation Batches:
Batch: 1887 SW-846 3510C on 06/24/2010 11:40 by N_M
Batch: SW-846 3510C on

Analytical Batches:
Batch: 1284 SW-846 8270C on 06/30/2010 02:06 by SBG

Parameters	Results ug/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Acenaphthene	ND		5.5	1.6	1		1887	1284
Acenaphthylene	ND		5.5	1.5	1		1887	1284
Aniline	ND		5.5	2.7	1		1887	1284
Anthracene	ND		5.5	1.5	1		1887	1284
Benzo(a)anthracene	ND		5.5	1.6	1		1887	1284
Benzo(a)pyrene	ND		5.5	1.7	1		1887	1284
Benzo(b)fluoranthene	ND		5.5	1.7	1		1887	1284
Benzo(g,h,i)perylene	ND		5.5	1.7	1		1887	1284
Benzo(k)fluoranthene	ND		5.5	1.9	1		1887	1284
Benzoic acid	ND		27	4.3	1		1887	1284
Benzyl alcohol	ND		5.5	1.4	1		1887	1284

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ANALYTICAL RESULTS

Workorder: H10060541 : Wingate Fractionating Plant

Project Number: Wingate Fractionating Plant

Lab ID: **H10060541004**

Date/Time Received: 6/23/2010 09:15

Matrix: Water

Sample ID: **WMW-4**

Date/Time Collected: 6/22/2010 13:45

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Batch Information Analysis
Bis(2-Chloroethoxy)methane	ND		5.5	2.5	1		1887	1284
Bis(2-Chloroethyl)ether	ND		5.5	1.7	1		1887	1284
bis(2-Chloroisopropyl)ether	ND		5.5	1.8	1		1887	1284
bis(2-Ethylhexyl)phthalate	ND		5.5	1.8	1		1887	1284
4-Bromophenyl phenyl ether	ND		5.5	1.6	1		1887	1284
Butyl benzyl phthalate	ND		5.5	1.7	1		1887	1284
Carbazole	ND		5.5	1.6	1		1887	1284
4-Chloro-3-methylphenol	ND		5.5	1.5	1		1887	1284
4-Chloroaniline	ND		5.5	1.4	1		1887	1284
2-Chloronaphthalene	ND		5.5	1.7	1		1887	1284
2-Chlorophenol	ND		5.5	1.5	1		1887	1284
4-Chlorophenyl phenyl ether	ND		5.5	1.8	1		1887	1284
Chrysene	ND		5.5	1.6	1		1887	1284
Cresols, Total	ND		5.5	1.5	1		1887	1284
Di-n-butyl phthalate	ND		5.5	1.7	1		1887	1284
Di-n-octyl phthalate	ND		5.5	1.7	1		1887	1284
Dibenz(a,h)anthracene	ND		5.5	1.5	1		1887	1284
Dibenzofuran	ND		5.5	1.6	1		1887	1284
1,3-Dichlorobenzene	ND		5.5	1.5	1		1887	1284
1,2-Dichlorobenzene	ND		5.5	1.5	1		1887	1284
1,4-Dichlorobenzene	ND		5.5	1.5	1		1887	1284
Diethyl phthalate	ND		5.5	1.6	1		1887	1284
Dimethyl phthalate	ND		5.5	1.7	1		1887	1284
2,4-Dimethylphenol	ND		5.5	1.6	1		1887	1284
4,6-Dinitro-2-methylphenol	ND		27	4.5	1		1887	1284
2,4-Dinitrophenol	ND		27	4.6	1		1887	1284
2,6-Dinitrotoluene	ND		5.5	1.6	1		1887	1284
2,4-Dinitrotoluene	ND		5.5	1.3	1		1887	1284
Diphenylamine	ND		11	2.2	1		1887	1284
1,2-Diphenylhydrazine	ND		11	4.3	1		1887	1284
Fluoranthene	ND		5.5	1.5	1		1887	1284
Fluorene	ND		5.5	1.6	1		1887	1284
Hexachlorobenzene	ND		5.5	1.7	1		1887	1284
Hexachlorobutadiene	ND		5.5	1.6	1		1887	1284
Hexachlorocyclopentadiene	ND		5.5	1.2	1		1887	1284
Hexachloroethane	ND		5.5	1.4	1		1887	1284
Indeno(1,2,3-cd)pyrene	ND		5.5	1.5	1		1887	1284
Isophorone	ND		5.5	1.5	1		1887	1284
2-Methylnaphthalene	ND		5.5	1.6	1		1887	1284
2-Methylphenol (o-Cresol)	ND		5.5	1.5	1		1887	1284
3 & 4-Methylphenol	ND		5.5	1.5	1		1887	1284

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ANALYTICAL RESULTS

Workorder: H10060541 : Wingate Fractionating Plant | Project Number: Wingate Fractionating Plant

Lab ID: **H10060541004** | Date/Time Received: 6/23/2010 09:15 | Matrix: Water

Sample ID: **WMW-4** | Date/Time Collected: 6/22/2010 13:45

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
n-Nitrosodi-n-propylamine	ND		5.5	1.7	1		1887	1284
n-Nitrosodimethylamine	ND		5.5	1.7	1		1887	1284
n-Nitrosodiphenylamine	ND		5.5	2.2	1		1887	1284
Naphthalene	ND		5.5	1.6	1		1887	1284
3-Nitroaniline	ND		27	4.2	1		1887	1284
4-Nitroaniline	ND		27	3.3	1		1887	1284
2-Nitroaniline	ND		27	4.6	1		1887	1284
Nitrobenzene	ND		5.5	1.6	1		1887	1284
2-Nitrophenol	ND		5.5	1.5	1		1887	1284
4-Nitrophenol	ND		27	5.7	1		1887	1284
Pentachlorophenol	ND		27	1.2	1		1887	1284
Phenanthrene	ND		5.5	1.7	1		1887	1284
Phenol	ND		5.5	1.7	1		1887	1284
Pyrene	ND		5.5	1.7	1		1887	1284
Pyridine	ND		5.5	2.6	1		1887	1284
1,2,4-Trichlorobenzene	ND		5.5	1.6	1		1887	1284
2,4,6-Trichlorophenol	ND		5.5	1.4	1		1887	1284
2,4,5-Trichlorophenol	ND		11	1.3	1		1887	1284
3,3'-Dichlorobenzidine	ND		11	3.3	1		1887	1284
1,3-Dimethyl cyclopentanol	0.18	JN			1			1284
Cyclopentanol, 1-methyl-	0.26	JN			1			1284
Propanamide, N-methyl-	0.020	JN			1			1284
Silane, tetraethyl-	0.026	JN			1			1284
1-Iodo-2,3-epoxypropane	0.098	JN			1			1284
1-Methylcyclohexanol	0.020	JN			1			1284
2-Butanol, 2,3-dimethyl-	0.096	JN			1			1284
2-Furanmethanamine, tetrahydro-	0.013	JN			1			1284
2-Hexanol, 2-methyl-	0.027	JN			1			1284
3-Chloro-6-fluoro-pyrazine	0.084	JN			1			1284
Cyclohexanol, 1,3-dimethyl-, cis-	0.035	JN			1			1284
2-Fluorobiphenyl (S)	77.7 %		45-108		1		1887	1284
2-Fluorophenol (S)	58 %		18-113		1		1887	1284
Nitrobenzene-d5 (S)	72.2 %		41-113		1		1887	1284
Phenol-d6 (S)	49.3 %		10-113		1		1887	1284
Terphenyl-d14 (S)	82.7 %		43-122		1		1887	1284
2,4,6-Tribromophenol (S)	88.7 %		25-154		1		1887	1284

VOLATILES

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ANALYTICAL RESULTS

Workorder: H10060541 : Wingate Fractionating Plant | Project Number: Wingate Fractionating Plant

Lab ID: **H10060541004** | Date/Time Received: 6/23/2010 09:15 | Matrix: Water

Sample ID: **WMW-4** | Date/Time Collected: 6/22/2010 13:45

Analysis Desc: SW-846 8260B (GCVMS Analysis) | SW-846 5030Analytical Batches:

Batch: 1436 SW-846 8260B (GCVMS Analysis) on 06/30/2010 18:16 by DLY

Parameters	Results ug/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Benzene	ND		1.0	0.17	1			1436
Ethylbenzene	ND		1.0	0.097	1			1436
Toluene	ND		1.0	0.12	1			1436
m,p-Xylene	ND		1.0	0.30	1			1436
o-Xylene	ND		1.0	0.11	1			1436
Xylenes, Total	ND		1.0	0.11	1			1436
4-Bromofluorobenzene (S)	96.2 %		70-130		1			1436
1,2-Dichloroethane-d4 (S)	94.3 %		71-140		1			1436
Toluene-d8 (S)	104 %		61-121		1			1436
Preservation pH	<2				1			1436

DISSOLVED METALS

Analysis Desc: SW-846 7470A | Preparation Batches:

Batch: 1167 SW-846 7470A on 07/13/2010 09:30 by F_S

Analytical Batches:

Batch: 1152 SW-846 7470A on 07/13/2010 10:03 by F_S

Parameters	Results ug/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Mercury	ND		0.200	0.140	1		1167	1152

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ANALYTICAL RESULTS

Workorder: H10060541 : Wingate Fractionating Plant — Project Number: Wingate Fractionating Plant

Lab ID: **H10060541005** — Date/Time Received: 6/23/2010 09:15 — Matrix: Water

Sample ID: **WMW-2** — Date/Time Collected: 6/22/2010 15:15

Analysis Desc: EPA 300.0 — Analytical Batches:

Batch: 1347 EPA 300.0 on 06/23/2010 16:33 by CFS

Batch: 1352 EPA 300.0 on 06/24/2010 14:43 by CFS

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Chloride	375		50.0	12.6	100			1352
Nitrogen, Nitrate (As N)	0.588		0.500	0.0676	1			1347
Sulfate	ND		50.0	4.35	100			1352

Analysis Desc: SM 2320 B — Analytical Batches:

Batch: 3375 SM 2320 B on 06/25/2010 13:00 by PAC

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Alkalinity, total as CaCO3	296		2.00	1.68	1			3375

WET CHEMISTRY

Analysis Desc: SM 4500-H+ B — Analytical Batches:

Batch: 2710 SM 4500-H+ B on 06/23/2010 17:00 by PAC

Parameters	Results SU	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
pH	9.41	H	0.100		1			2710

Analysis Desc: SM 2540 C — Analytical Batches:

Batch: 1667 SM 2540 C on 06/23/2010 16:25 by CFS

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Residue, Filterable (TDS)	3100		20.0	7.88	2			1667

ICP DISSOLVED METALS

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ANALYTICAL RESULTS

Workorder: H10060541 : Wingate Fractionating Plant | Project Number: Wingate Fractionating Plant

Lab ID: **H10060541005** | Date/Time Received: 6/23/2010 09:15 | Matrix: Water

Sample ID: **WMW-2** | Date/Time Collected: 6/22/2010 15:15

Analysis Desc: SW-846 6010B

Preparation Batches:

Batch: 1852 SW-846 3010A on 06/23/2010 14:45 by R_V

Analytical Batches:

Batch: 1490 SW-846 6010B on 07/03/2010 19:38 by EBG DF = 10.

Batch: 1489 SW-846 6010B on 07/07/2010 23:21 by EBG DF = 1.

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Arsenic	ND		0.00500	0.00140	1		1852	1489
Barium	0.0720		0.00500	0.000470	1		1852	1489
Cadmium	ND		0.00500	0.000170	1		1852	1489
Calcium	3.20		0.100	0.0171	1		1852	1489
Chromium	ND		0.00500	0.000460	1		1852	1489
Iron	ND		0.0200	0.00640	1		1852	1489
Lead	ND		0.00500	0.000700	1		1852	1489
Magnesium	64.9		0.100	0.0483	1		1852	1489
Manganese	ND		0.00500	0.000300	1		1852	1489
Selenium	ND		0.0100	0.00190	1		1852	1489
Silver	ND		0.00500	0.000670	1		1852	1489
Sodium	778		1.00	0.295	10		1852	1490

SEMIVOLATILES

Analysis Desc: SW-846 8270C

Preparation Batches:

Batch: 1887 SW-846 3510C on 06/24/2010 11:41 by N_M

Batch: SW-846 3510C on

Analytical Batches:

Batch: 1284 SW-846 8270C on 06/30/2010 02:41 by SBG

Parameters	Results ug/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Acenaphthene	ND		5.6	1.6	1		1887	1284
Acenaphthylene	ND		5.6	1.6	1		1887	1284
Aniline	ND		5.6	2.8	1		1887	1284
Anthracene	ND		5.6	1.6	1		1887	1284
Benzo(a)anthracene	ND		5.6	1.6	1		1887	1284
Benzo(a)pyrene	ND		5.6	1.8	1		1887	1284
Benzo(b)fluoranthene	ND		5.6	1.7	1		1887	1284
Benzo(g,h,i)perylene	ND		5.6	1.7	1		1887	1284
Benzo(k)fluoranthene	ND		5.6	2.0	1		1887	1284
Benzoic acid	ND		28	4.4	1		1887	1284
Benzyl alcohol	ND		5.6	1.4	1		1887	1284

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ANALYTICAL RESULTS

Workorder: H10060541 : Wingate Fractionating Plant | Project Number: Wingate Fractionating Plant

Lab ID: **H10060541005** | Date/Time Received: 6/23/2010 09:15 | Matrix: Water

Sample ID: **WMW-2** | Date/Time Collected: 6/22/2010 15:15

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Bis(2-Chloroethoxy)methane	ND		5.6	2.6	1		1887	1284
Bis(2-Chloroethyl)ether	ND		5.6	1.8	1		1887	1284
bis(2-Chloroisopropyl)ether	ND		5.6	1.8	1		1887	1284
bis(2-Ethylhexyl)phthalate	ND		5.6	1.8	1		1887	1284
4-Bromophenyl phenyl ether	ND		5.6	1.7	1		1887	1284
Butyl benzyl phthalate	ND		5.6	1.8	1		1887	1284
Carbazole	ND		5.6	1.7	1		1887	1284
4-Chloro-3-methylphenol	ND		5.6	1.5	1		1887	1284
4-Chloroaniline	ND		5.6	1.4	1		1887	1284
2-Chloronaphthalene	ND		5.6	1.8	1		1887	1284
2-Chlorophenol	ND		5.6	1.5	1		1887	1284
4-Chlorophenyl phenyl ether	ND		5.6	1.9	1		1887	1284
Chrysene	ND		5.6	1.7	1		1887	1284
Cresols, Total	ND		5.6	1.5	1		1887	1284
Di-n-butyl phthalate	ND		5.6	1.8	1		1887	1284
Di-n-octyl phthalate	ND		5.6	1.8	1		1887	1284
Dibenz(a,h)anthracene	ND		5.6	1.6	1		1887	1284
Dibenzofuran	ND		5.6	1.6	1		1887	1284
1,3-Dichlorobenzene	ND		5.6	1.6	1		1887	1284
1,2-Dichlorobenzene	ND		5.6	1.6	1		1887	1284
1,4-Dichlorobenzene	ND		5.6	1.6	1		1887	1284
2,4-Dichlorophenol	ND		5.6	1.4	1		1887	1284
Diethyl phthalate	ND		5.6	1.7	1		1887	1284
Dimethyl phthalate	ND		5.6	1.7	1		1887	1284
2,4-Dimethylphenol	ND		5.6	1.6	1		1887	1284
4,6-Dinitro-2-methylphenol	ND		28	4.6	1		1887	1284
2,4-Dinitrophenol	ND		28	4.7	1		1887	1284
2,6-Dinitrotoluene	ND		5.6	1.6	1		1887	1284
2,4-Dinitrotoluene	ND		5.6	1.4	1		1887	1284
Diphenylamine	ND		11	2.2	1		1887	1284
1,2-Diphenylhydrazine	ND		11	4.4	1		1887	1284
Fluoranthene	ND		5.6	1.6	1		1887	1284
Fluorene	ND		5.6	1.6	1		1887	1284
Hexachlorobenzene	ND		5.6	1.7	1		1887	1284
Hexachlorobutadiene	ND		5.6	1.7	1		1887	1284
Hexachlorocyclopentadiene	ND		5.6	1.2	1		1887	1284
Hexachloroethane	ND		5.6	1.5	1		1887	1284
Indeno(1,2,3-cd)pyrene	ND		5.6	1.6	1		1887	1284
Isophorone	ND		5.6	1.5	1		1887	1284
2-Methylnaphthalene	ND		5.6	1.7	1		1887	1284
2-Methylphenol (o-Cresol)	ND		5.6	1.5	1		1887	1284

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ANALYTICAL RESULTS

Workorder: H10060541 : Wingate Fractionating Plant | Project Number: Wingate Fractionating Plant

Lab ID: **H10060541005** | Date/Time Received: 6/23/2010 09:15 | Matrix: Water

Sample ID: **WMW-2** | Date/Time Collected: 6/22/2010 15:15

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
3 & 4-Methylphenol	ND		5.6	1.5	1		1887	1284
n-Nitrosodi-n-propylamine	ND		5.6	1.7	1		1887	1284
n-Nitrosodimethylamine	ND		5.6	1.7	1		1887	1284
n-Nitrosodiphenylamine	ND		5.6	2.2	1		1887	1284
Naphthalene	5.8		5.6	1.6	1		1887	1284
3-Nitroaniline	ND		28	4.3	1		1887	1284
4-Nitroaniline	ND		28	3.4	1		1887	1284
2-Nitroaniline	ND		28	4.7	1		1887	1284
Nitrobenzene	ND		5.6	1.6	1		1887	1284
2-Nitrophenol	ND		5.6	1.5	1		1887	1284
4-Nitrophenol	ND		28	5.8	1		1887	1284
Pentachlorophenol	ND		28	1.2	1		1887	1284
Phenanthrene	ND		5.6	1.7	1		1887	1284
Phenol	ND		5.6	1.7	1		1887	1284
Pyrene	ND		5.6	1.7	1		1887	1284
Pyridine	ND		5.6	2.7	1		1887	1284
1,2,4-Trichlorobenzene	ND		5.6	1.6	1		1887	1284
2,4,6-Trichlorophenol	ND		5.6	1.5	1		1887	1284
2,4,5-Trichlorophenol	ND		11	1.3	1		1887	1284
3,3'-Dichlorobenzidine	ND		11	3.4	1		1887	1284
1-Hexene, 5,5-dimethyl-	0.037	JN			1			1284
Cyclopentanol, 1-methyl-	0.066	JN			1			1284
Ethylbenzene	0.040	JN			1			1284
Heptane, 2,4-dimethyl-	0.031	JN			1			1284
Pentanoic acid, 2-methyl-	0.048	JN			1			1284
Toluene	0.14	JN			1			1284
1-Methyl-3-nitropyrazole	0.023	JN			1			1284
2-Butanol, 2,3-dimethyl-	0.030	JN			1			1284
2H-Cyclopenta[d]pyridazine, 2-methyl-	0.065	JN			1			1284
Benzene, 1,2-dimethyl-	0.19	JN			1			1284
Benzeneacetic acid	0.032	JN			1			1284
Bromacil	0.036	JN			1			1284
Butanoic acid, 2-methyl-	0.28	JN			1			1284
2-Fluorobiphenyl (S)	64.4 %		45-108		1		1887	1284
2-Fluorophenol (S)	43.8 %		18-113		1		1887	1284
Nitrobenzene-d5 (S)	63 %		41-113		1		1887	1284
Phenol-d6 (S)	34.7 %		10-113		1		1887	1284
Terphenyl-d14 (S)	65.1 %		43-122		1		1887	1284
2,4,6-Tribromophenol (S)	77.3 %		25-154		1		1887	1284

VOLATILES

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ANALYTICAL RESULTS

Workorder: H10060541 : Wingate Fractionating Plant — Project Number: Wingate Fractionating Plant

Lab ID: **H10060541005** — Date/Time Received: 6/23/2010 09:15 — Matrix: Water

Sample ID: **WMW-2** — Date/Time Collected: 6/22/2010 15:15

Analysis Desc: SW-846 8260B (GCVMS Analysis) — SW-846 5030Analytical Batches:

Batch: 1436 SW-846 8260B (GCVMS Analysis) on 06/30/2010 18:38 by DLY DF = 1.

Batch: 1436 SW-846 8260B (GCVMS Analysis) on 06/30/2010 22:20 by DLY DF = 50.

Parameters	Results ug/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Benzene	10000		50	8.6	50			1436
Ethylbenzene	55		1.0	0.097	1			1436
Toluene	260		50	6.2	50			1436
m,p-Xylene	250		1.0	0.30	1			1436
o-Xylene	89		1.0	0.11	1			1436
Xylenes, Total	339		1.0	0.11	1			1436
4-Bromofluorobenzene (S)	97.3 %		70-130		1			1436
4-Bromofluorobenzene (S)	98.1 %		70-130		50			1436
1,2-Dichloroethane-d4 (S)	92.8 %		71-140		1			1436
1,2-Dichloroethane-d4 (S)	103 %		71-140		50			1436
Toluene-d8 (S)	104 %		61-121		1			1436
Toluene-d8 (S)	105 %		61-121		50			1436
Preservation pH	<2				1			1436

DISSOLVED METALS

Analysis Desc: SW-846 7470A — Preparation Batches:

Batch: 1167 SW-846 7470A on 07/13/2010 09:30 by F_S

Analytical Batches:

Batch: 1152 SW-846 7470A on 07/13/2010 10:21 by F_S

Parameters	Results ug/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Mercury	ND		0.200	0.140	1		1167	1152

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ANALYTICAL RESULTS

Workorder: H10060541 : Wingate Fractionating Plant | Project Number: Wingate Fractionating Plant

Lab ID: **H10060541006** | Date/Time Received: 6/23/2010 09:15 | Matrix: Water

Sample ID: **Duplicate** | Date/Time Collected: 6/22/2010 15:30

VOLATILES

Analysis Desc: SW-846 8260B (GCVMS Analysis)

SW-846 5030Analytical Batches:

Batch: 1436 SW-846 8260B (GCVMS Analysis) on 06/30/2010 19:00 by DLY DF = 1.

Batch: 1436 SW-846 8260B (GCVMS Analysis) on 06/30/2010 22:44 by DLY DF = 50.

Parameters	Results ug/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Benzene	9700		50	8.6	50			1436
Ethylbenzene	56		1.0	0.097	1			1436
Toluene	250		50	6.2	50			1436
m,p-Xylene	260		1.0	0.30	1			1436
o-Xylene	91		1.0	0.11	1			1436
Xylenes, Total	351		1.0	0.11	1			1436
4-Bromofluorobenzene (S)	95.4 %		70-130		1			1436
4-Bromofluorobenzene (S)	98.4 %		70-130		50			1436
1,2-Dichloroethane-d4 (S)	86.7 %		71-140		1			1436
1,2-Dichloroethane-d4 (S)	102 %		71-140		50			1436
Toluene-d8 (S)	105 %		61-121		1			1436
Toluene-d8 (S)	105 %		61-121		50			1436
Preservation pH	<2				1			1436

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ANALYTICAL RESULTS

Workorder: H10060541 : Wingate Fractionating Plant | Project Number: Wingate Fractionating Plant

Lab ID: **H10060541007** | Date/Time Received: 6/23/2010 09:15 | Matrix: Water

Sample ID: **Trip Blank** | Date/Time Collected: 6/22/2010 16:15

VOLATILES

Analysis Desc: SW-846 8260B (GCVMS Analysis) | SW-846 5030Analytical Batches:

Batch: 1436 SW-846 8260B (GCVMS Analysis) on 06/30/2010 15:18 by DLY

Parameters	Results ug/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Benzene	ND		1.0	0.17	1			1436
Ethylbenzene	ND		1.0	0.097	1			1436
Toluene	ND		1.0	0.12	1			1436
m,p-Xylene	ND		1.0	0.30	1			1436
o-Xylene	ND		1.0	0.11	1			1436
Xylenes, Total	ND		1.0	0.11	1			1436
4-Bromofluorobenzene (S)	98.8 %		70-130		1			1436
1,2-Dichloroethane-d4 (S)	101 %		71-140		1			1436
Toluene-d8 (S)	105 %		61-121		1			1436
Preservation pH	<2				1			1436

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QUALITY CONTROL DATA

Workorder: H10060541 : Wingate Fractionating Plant — Project Number: Wingate Fractionating Plant

QC Batch: DIGM/1852 — Analysis Method: SW-846 6010B

QC Batch Method: SW-846 3010A — Preparation: 06/23/2010 14:45 by R_V

Associated Lab Samples: H10060541001 H10060541002 H10060541003 H10060541004 H10060541005

METHOD BLANK: 52639

Analysis Date/Time Analyst: 07/07/2010 22:03 EBG

Parameter	Units	Blank Result	Qualifiers	Reporting Limit
Arsenic	mg/l	ND		0.00500
Barium	mg/l	ND		0.00500
Cadmium	mg/l	ND		0.00500
Calcium	mg/l	ND		0.100
Chromium	mg/l	ND		0.00500
Iron	mg/l	ND		0.0200
Lead	mg/l	ND		0.00500
Magnesium	mg/l	ND		0.100
Manganese	mg/l	ND		0.00500
Selenium	mg/l	ND		0.0100
Silver	mg/l	ND		0.00500

Analysis Date/Time Analyst: 07/03/2010 17:56 EBG

Parameter	Units	Blank Result	Qualifiers	Reporting Limit
Sodium	mg/l	ND		0.100

LABORATORY CONTROL SAMPLE: 52640

Analysis Date/Time Analyst: 07/07/2010 22:09 EBG

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
Arsenic	mg/l	0.10	0.1038	104	80-120
Barium	mg/l	0.10	0.1043	104	80-120
Cadmium	mg/l	0.10	0.1031	103	80-120
Calcium	mg/l	1.0	1.072	107	80-120
Chromium	mg/l	0.10	0.1035	104	80-120
Iron	mg/l	1.0	1.05	105	80-120
Lead	mg/l	0.10	0.1031	103	80-120
Magnesium	mg/l	1.0	1.049	105	80-120
Manganese	mg/l	0.10	0.1039	104	80-120
Selenium	mg/l	0.10	0.1039	104	80-120
Silver	mg/l	0.10	0.1016	102	80-120

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QUALITY CONTROL DATA

Workorder: H10060541 : Wingate Fractionating Plant — Project Number: Wingate Fractionating Plant

LABORATORY CONTROL SAMPLE: 52640

Analysis Date/Time Analyst: 07/03/2010 18:02 EBG

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
Sodium	mg/l	1.0	1.036	104	80-120

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 52641 52642 Original: H10060541002

MS Analysis Date/Time Analyst: 07/07/2010 22:21 EBG

MSD Analysis Date/Time Analyst: 07/07/2010 22:27 EBG

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Arsenic	mg/l	0.0002	0.10	0.1119	0.1095	112	109	75-125	2.2	20
Barium	mg/l	0.0098	0.10	0.1139	0.1117	104	102	75-125	2.0	20
Cadmium	mg/l	ND	0.10	0.0978	0.0962	97.8	96.2	75-125	1.7	20
Calcium	mg/l	170	1.0	171.8	169.9	NC	NC	75-125	NC	20
Chromium	mg/l	0.0008	0.10	0.0996	0.0983	98.8	97.5	75-125	1.3	20
Iron	mg/l	0.0128	1.0	1.023	1.023	101	101	75-125	0.0	20
Lead	mg/l	0.0004	0.10	0.094	0.0861	93.6	85.7	75-125	8.8	20
Magnesium	mg/l	51.3	1.0	52.38	51.58	NC	NC	75-125	NC	20
Manganese	mg/l	1.13	0.10	1.227	1.243	NC	NC	75-125	NC	20
Selenium	mg/l	0.0015	0.10	0.1137	0.1028	112	101	75-125	10.1	20
Silver	mg/l	ND	0.10	0.1069	0.0905	107	90.5	75-125	16.6	20

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 52641 52642 Original: H10060541002

MS Analysis Date/Time Analyst: 07/03/2010 18:14 EBG

MSD Analysis Date/Time Analyst: 07/03/2010 18:20 EBG

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Sodium	mg/l	862	1.0	880.8	876.0	NC	NC	75-125	NC	20

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QUALITY CONTROL DATA

Workorder: H10060541 : Wingate Fractionating Plant — Project Number: Wingate Fractionating Plant

QC Batch: WETS/1667 — Analysis Method: SM 2540 C

QC Batch Method: SM 2540 C

Associated Lab Samples: H10060509001, H10060509002, H10060509003, H10060509004, H10060539001, H10060541001, H10060541002, H10060541003, H10060541004, H10060541005

METHOD BLANK: 52690

Analysis Date/Time Analyst: 06/23/2010 16:25 CFS

Parameter	Units	Blank Result	Qualifiers	Reporting Limit
Residue, Filterable (TDS)	mg/l	ND		10.0

LABORATORY CONTROL SAMPLE & LCSD: 52691 52692

LCS Analysis Date/Time Analyst: 06/23/2010 16:25 CFS

LCSD Analysis Date/Time 06/23/2010 16:25 CFS

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD
Residue, Filterable (TDS)	mg/l	200	199.0	201.0	99.5	100	95-107	1.0	10

SAMPLE DUPLICATE: 52693 — Original: H10060509001

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	DF
WET CHEMISTRY						1
Residue, Filterable (TDS)	mg/l	1200	1200	0.1	10	1

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QUALITY CONTROL DATA

Workorder: H10060541 : Wingate Fractionating Plant — Project Number: Wingate Fractionating Plant

QC Batch: WCSH/2710 — Analysis Method: SM 4500-H+ B

QC Batch Method: SM 4500-H+ B

Associated Lab Samples: H10060541001 H10060541002 H10060541003 H10060541004 H10060541005

LABORATORY CONTROL SAMPLE: 52730

Analysis Date/Time Analyst: 06/23/2010 17:00 PAC

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
pH	SU	7	7.05	101	98-102

SAMPLE DUPLICATE: 52731 — Original: H10060541005

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	DF
WET CHEMISTRY						1
pH	SU	9.41	9.40	0.1	5	1

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QUALITY CONTROL DATA

Workorder: H10060541 : Wingate Fractionating Plant | Project Number: Wingate Fractionating Plant

QC Batch: EXTO/1887 | Analysis Method: SW-846 8270C

QC Batch Method: SW-846 3510C | Preparation: 06/24/2010 11:37 by N_M

Associated Lab Samples: H10060541001 H10060541002 H10060541003 H10060541004 H10060541005

METHOD BLANK: 52806

Analysis Date/Time Analyst: 06/28/2010 22:54 SBG

Parameter	Units	Blank Result	Qualifiers	Reporting Limit
Acenaphthene	ug/l	ND		5.0
Acenaphthylene	ug/l	ND		5.0
Aniline	ug/l	ND		5.0
Anthracene	ug/l	ND		5.0
Benzo(a)anthracene	ug/l	ND		5.0
Benzo(a)pyrene	ug/l	ND		5.0
Benzo(b)fluoranthene	ug/l	ND		5.0
Benzo(g,h,i)perylene	ug/l	ND		5.0
Benzo(k)fluoranthene	ug/l	ND		5.0
Benzoic acid	ug/l	ND		25
Benzyl alcohol	ug/l	ND		5.0
Bis(2-Chloroethoxy)methane	ug/l	ND		5.0
Bis(2-Chloroethyl)ether	ug/l	ND		5.0
bis(2-Chloroisopropyl)ether	ug/l	ND		5.0
bis(2-Ethylhexyl)phthalate	ug/l	ND		5.0
4-Bromophenyl phenyl ether	ug/l	ND		5.0
Butyl benzyl phthalate	ug/l	ND		5.0
Carbazole	ug/l	ND		5.0
4-Chloro-3-methylphenol	ug/l	ND		5.0
4-Chloroaniline	ug/l	ND		5.0
2-Chloronaphthalene	ug/l	ND		5.0
2-Chlorophenol	ug/l	ND		5.0
4-Chlorophenyl phenyl ether	ug/l	ND		5.0
Chrysene	ug/l	ND		5.0
Cresols, Total	ug/l	ND		5.0
Di-n-butyl phthalate	ug/l	ND		5.0
Di-n-octyl phthalate	ug/l	ND		5.0
Dibenz(a,h)anthracene	ug/l	ND		5.0
Dibenzofuran	ug/l	ND		5.0
1,3-Dichlorobenzene	ug/l	ND		5.0
1,2-Dichlorobenzene	ug/l	ND		5.0
1,4-Dichlorobenzene	ug/l	ND		5.0
2,4-Dichlorophenol	ug/l	ND		5.0
Diethyl phthalate	ug/l	ND		5.0
Dimethyl phthalate	ug/l	ND		5.0
2,4-Dimethylphenol	ug/l	ND		5.0
4,6-Dinitro-2-methylphenol	ug/l	ND		25
2,4-Dinitrophenol	ug/l	ND		25
2,6-Dinitrotoluene	ug/l	ND		5.0
2,4-Dinitrotoluene	ug/l	ND		5.0

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QUALITY CONTROL DATA

Workorder: H10060541 : Wingate Fractionating Plant | Project Number: Wingate Fractionating Plant

METHOD BLANK: 52806

Analysis Date/Time Analyst: 06/28/2010 22:54 SBG

Parameter	Units	Blank Result	Qualifiers	Reporting Limit
Diphenylamine	ug/l	ND		10
1,2-Diphenylhydrazine	ug/l	ND		10
Fluoranthene	ug/l	ND		5.0
Fluorene	ug/l	ND		5.0
Hexachlorobenzene	ug/l	ND		5.0
Hexachlorobutadiene	ug/l	ND		5.0
Hexachlorocyclopentadiene	ug/l	ND		5.0
Hexachloroethane	ug/l	ND		5.0
Indeno(1,2,3-cd)pyrene	ug/l	ND		5.0
Isophorone	ug/l	ND		5.0
2-Methylnaphthalene	ug/l	ND		5.0
2-Methylphenol (o-Cresol)	ug/l	ND		5.0
3 & 4-Methylphenol	ug/l	ND		5.0
n-Nitrosodi-n-propylamine	ug/l	ND		5.0
n-Nitrosodimethylamine	ug/l	ND		5.0
n-Nitrosodiphenylamine	ug/l	ND		5.0
Naphthalene	ug/l	ND		5.0
3-Nitroaniline	ug/l	ND		25
4-Nitroaniline	ug/l	ND		25
2-Nitroaniline	ug/l	ND		25
Nitrobenzene	ug/l	ND		5.0
2-Nitrophenol	ug/l	ND		5.0
4-Nitrophenol	ug/l	ND		25
Pentachlorophenol	ug/l	ND		25
Phenanthrene	ug/l	ND		5.0
Phenol	ug/l	ND		5.0
Pyrene	ug/l	ND		5.0
Pyridine	ug/l	ND		5.0
1,2,4-Trichlorobenzene	ug/l	ND		5.0
2,4,6-Trichlorophenol	ug/l	ND		5.0
2,4,5-Trichlorophenol	ug/l	ND		10
3,3'-Dichlorobenzidine	ug/l	ND		10
2-Fluorobiphenyl (S)	%	82.8		45-108
2-Fluorophenol (S)	%	68		18-113
Nitrobenzene-d5 (S)	%	77.2		41-113
Phenol-d6 (S)	%	58.6		10-113
Terphenyl-d14 (S)	%	92.2		43-122
2,4,6-Tribromophenol (S)	%	88		25-154

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QUALITY CONTROL DATA

Workorder: H10060541 : Wingate Fractionating Plant — Project Number: Wingate Fractionating Plant

LABORATORY CONTROL SAMPLE & LCSD: 52807 52808

LCS Analysis Date/Time Analyst: 06/28/2010 21:44 SBG

LCSD Analysis Date/Time 06/28/2010 22:19 SBG

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD
Acenaphthene	ug/l	25	20.8	22.4	83.0	90.0	52-117	7.4	30
Acenaphthylene	ug/l	25	21.4	22.8	85.0	91.0	53-117	6.6	30
Aniline	ug/l	50	35.7	37.9	71.0	76.0	47-106	6.0	30
Anthracene	ug/l	25	21.8	23.6	87.0	95.0	49-126	8.4	30
Benzo(a)anthracene	ug/l	25	21.7	23.8	87.0	95.0	53-121	9.2	30
Benzo(a)pyrene	ug/l	25	17.9	19.8	72.0	79.0	47-100	10.0	30
Benzo(b)fluoranthene	ug/l	25	20.0	21.7	80.0	87.0	52-113	8.2	30
Benzo(g,h,i)perylene	ug/l	25	20.4	22.6	81.0	90.0	52-121	10.0	30
Benzo(k)fluoranthene	ug/l	25	20.6	23.6	83.0	94.0	54-117	13.0	30
Benzoic acid	ug/l	25	ND	ND	83.0	90.0	10-133	8.1	30
Benzyl alcohol	ug/l	25	20.0	22.2	80.0	89.0	40-127	10.0	30
Bis(2-Chloroethoxy)methane	ug/l	25	18.3	20.4	73.0	81.0	47-113	11.0	30
Bis(2-Chloroethyl)ether	ug/l	25	20.0	21.0	80.0	84.0	48-112	4.4	30
bis(2-Chloroisopropyl)ether	ug/l	25	20.0	21.2	80.0	85.0	50-150	5.8	30
bis(2-Ethylhexyl)phthalate	ug/l	25	21.8	24.6	87.0	98.0	42-139	12.0	30
4-Bromophenyl phenyl ether	ug/l	25	21.7	24.0	87.0	96.0	53-121	10.0	30
Butyl benzyl phthalate	ug/l	25	23.0	25.6	92.0	100	40-139	11.0	30
Carbazole	ug/l	25	20.6	22.6	82.0	91.0	47-123	9.7	30
4-Chloro-3-methylphenol	ug/l	25	20.0	22.3	80.0	89.0	49-120	11.0	30
4-Chloroaniline	ug/l	25	20.3	22.4	81.0	89.0	54-116	9.6	30
2-Chloronaphthalene	ug/l	25	21.2	22.6	85.0	91.0	52-118	6.8	30
2-Chlorophenol	ug/l	25	19.5	21.0	78.0	84.0	50-115	7.2	30
4-Chlorophenyl phenyl ether	ug/l	25	21.8	23.7	87.0	95.0	54-116	8.1	30
Chrysene	ug/l	25	21.5	23.6	86.0	94.0	53-117	9.1	30
Cresols, Total	ug/l	50	42.0	44.4	84.0	89.0	44-132	5.4	30
Di-n-butyl phthalate	ug/l	25	22.8	25.6	91.0	100	42-141	12.0	30
Di-n-octyl phthalate	ug/l	25	20.9	23.4	84.0	94.0	40-135	11.0	30
Dibenz(a,h)anthracene	ug/l	25	20.0	22.1	80.0	88.0	49-120	9.7	30
Dibenzofuran	ug/l	25	21.7	23.4	87.0	94.0	55-119	7.5	30
1,3-Dichlorobenzene	ug/l	25	18.9	19.1	76.0	76.0	49-106	1.1	30
1,2-Dichlorobenzene	ug/l	25	19.5	20.0	78.0	80.0	50-109	2.8	30
1,4-Dichlorobenzene	ug/l	25	19.0	19.0	76.0	76.0	48-106	0.0	30
2,4-Dichlorophenol	ug/l	25	19.9	22.2	80.0	89.0	50-110	11.0	30
Diethyl phthalate	ug/l	25	20.4	22.0	82.0	88.0	45-129	7.5	30
Dimethyl phthalate	ug/l	25	22.0	23.8	88.0	95.0	52-122	7.7	30
2,4-Dimethylphenol	ug/l	25	19.9	22.4	80.0	89.0	50-120	12.0	30
4,6-Dinitro-2-methylphenol	ug/l	25	ND	ND	68.0	76.0	23-127	11.0	30
2,4-Dinitrophenol	ug/l	25	ND	ND	65.0	69.0	10-122	6.6	30
2,6-Dinitrotoluene	ug/l	25	21.6	23.7	87.0	95.0	48-127	9.0	30
2,4-Dinitrotoluene	ug/l	25	21.7	23.6	87.0	94.0	50-129	8.4	30
Diphenylamine	ug/l	50	47.0	51.0	94.0	100	62-136	8.3	30
1,2-Diphenylhydrazine	ug/l	25	22.8	24.6	91.0	98.0	40-142	7.4	30
Fluoranthene	ug/l	25	21.5	23.9	86.0	96.0	49-132	11.0	30

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QUALITY CONTROL DATA

Workorder: H10060541 : Wingate Fractionating Plant — Project Number: Wingate Fractionating Plant

LABORATORY CONTROL SAMPLE & LCSD: 52807 52808

LCS Analysis Date/Time Analyst: 06/28/2010 21:44 SBG

LCSD Analysis Date/Time 06/28/2010 22:19 SBG

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD
Fluorene	ug/l	25	21.4	23.2	86.0	93.0	54-119	7.6	30
Hexachlorobenzene	ug/l	25	21.1	22.8	84.0	91.0	53-117	8.0	30
Hexachlorobutadiene	ug/l	25	18.7	20.4	75.0	82.0	49-106	8.9	30
Hexachlorocyclopentadiene	ug/l	25	16.1	17.4	64.0	70.0	17-105	7.8	30
Hexachloroethane	ug/l	25	18.9	18.9	76.0	76.0	42-110	0.0	30
Indeno(1,2,3-cd)pyrene	ug/l	25	20.0	21.6	80.0	86.0	50-129	7.9	30
Isophorone	ug/l	25	23.4	26.1	94.0	100	52-134	11.0	30
2-Methylnaphthalene	ug/l	25	20.0	21.7	80.0	87.0	52-116	8.4	30
2-Methylphenol (o-Cresol)	ug/l	25	20.6	22.0	83.0	88.0	49-118	6.1	30
3 & 4-Methylphenol	ug/l	25	21.4	22.4	86.0	90.0	44-132	4.8	30
n-Nitrosodi-n-propylamine	ug/l	25	21.2	22.8	85.0	91.0	47-118	7.5	30
n-Nitrosodimethylamine	ug/l	25	19.8	20.3	79.0	81.0	32-121	2.2	30
n-Nitrosodiphenylamine	ug/l	50	47.0	51.0	94.0	100	62-136	8.3	30
Naphthalene	ug/l	25	19.6	21.3	78.0	85.0	53-111	8.3	30
3-Nitroaniline	ug/l	25	ND	ND	81.0	91.0	31-114	11.0	30
4-Nitroaniline	ug/l	25	ND	ND	79.0	89.0	41-118	12.0	30
2-Nitroaniline	ug/l	25	ND	ND	84.0	94.0	43-127	11.0	30
Nitrobenzene	ug/l	25	19.0	21.0	76.0	84.0	47-116	9.7	30
2-Nitrophenol	ug/l	25	18.3	20.0	73.0	80.0	29-182	8.6	30
4-Nitrophenol	ug/l	25	ND	ND	79.0	86.0	21-130	9.5	30
Pentachlorophenol	ug/l	25	ND	ND	70.0	74.0	52-115	6.1	30
Phenanthrene	ug/l	25	22.7	24.6	91.0	98.0	49-124	8.0	30
Phenol	ug/l	25	22.4	23.7	89.0	95.0	37-128	5.9	30
Pyrene	ug/l	25	21.9	23.8	88.0	95.0	52-122	8.5	30
Pyridine	ug/l	50	32.7	32.1	65.0	64.0	37-99	1.9	30
1,2,4-Trichlorobenzene	ug/l	25	19.5	21.0	78.0	84.0	52-109	7.4	30
2,4,6-Trichlorophenol	ug/l	25	20.7	23.0	83.0	92.0	38-150	10.0	30
2,4,5-Trichlorophenol	ug/l	25	20.6	22.8	82.0	91.0	48-120	9.9	30
3,3'-Dichlorobenzidine	ug/l	25	18.1	20.1	72.0	80.0	30-104	10.0	30
2-Fluorobiphenyl (S)	%				82.8	82.3	45-108		30
2-Fluorophenol (S)	%				70.0	69.3	18-113		30
Nitrobenzene-d5 (S)	%				77.0	78.7	41-113		30
Phenol-d6 (S)	%				61.9	60.1	10-113		30
Terphenyl-d14 (S)	%				85.2	85.6	43-122		30
2,4,6-Tribromophenol (S)	%				90.0	93.3	25-154		30

QC results presented in the QC Control Data 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. Also, MS/MSD % recoveries are calculated by the SPL LIMS using any detected value greater than the MDL.

SPL Inc.
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Phone: (713) 660-0901
Fax: (713) 660-8975

QUALITY CONTROL DATA

Workorder: H10060541 : Wingate Fractionating Plant Project Number: Wingate Fractionating Plant

QC Batch: IC/1352 Analysis Method: EPA 300.0

QC Batch Method: EPA 300.0

Associated Lab Samples: H10060541001 H10060541002 H10060541003 H10060541004 H10060541005

METHOD BLANK: 53202

Analysis Date/Time Analyst: 06/24/2010 12:27 CFS

Parameter	Units	Blank Result	Qualifiers	Reporting Limit
Sulfate	mg/l	ND		0.500
Chloride	mg/l	ND		0.500

LABORATORY CONTROL SAMPLE: 53203

Analysis Date/Time Analyst: 06/24/2010 12:44 CFS

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
Sulfate	mg/l	10	10.79	108	85-115
Chloride	mg/l	10	10.43	104	85-115

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 53204 53205 Original: H10060541001

MS Analysis Date/Time Analyst: 06/24/2010 15:00 CFS

MSD Analysis Date/Time Analyst: 06/24/2010 15:17 CFS

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Sulfate	mg/l	1620	1000	2824	2806	120	119	80-120	0.6	20
Chloride	mg/l	912	1000	2151	2147	124 *	124 *	80-120	0.2	20

QC results presented in the QC Control Data 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. Also, MS/MSD % recoveries are calculated by the SPL LIMS using any detected value greater than the MDL.

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QUALITY CONTROL DATA

Workorder: H10060541 : Wingate Fractionating Plant — Project Number: Wingate Fractionating Plant

QC Batch: WETC/3375 — Analysis Method: SM 2320 B

QC Batch Method: SM 2320 B

Associated Lab Samples: H10060541001, H10060541002, H10060541003, H10060541004, H10060541005, H10060581001, H10060581002, H10060581003, H10060590001

METHOD BLANK: 53210

Analysis Date/Time Analyst: 06/25/2010 13:00 PAC

Parameter	Units	Blank Result	Qualifiers	Reporting Limit
Alkalinity, total as CaCO3	mg/l	ND		2.00

LABORATORY CONTROL SAMPLE: 53211

Analysis Date/Time Analyst: 06/25/2010 13:00 PAC

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
Alkalinity, total as CaCO3	mg/l	36	36.0	101	90-110

SAMPLE DUPLICATE: 53212 — Original: H10060590001

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	DF
WET CHEMISTRY						1
Alkalinity, total as CaCO3	mg/l	148	148	0.0	20	1

QC results presented in the QC Control Data 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. Also, MS/MSD % recoveries are calculated by the SPL LIMS using any detected value greater than the MDL.

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QUALITY CONTROL DATA

Workorder: H10060541 : Wingate Fractionating Plant — Project Number: Wingate Fractionating Plant

QC Batch: GVMS/1435 — Analysis Method: SW-846 8260B (GCVMS Analysis)

QC Batch Method: SW-846 5030 — Preparation: 06/30/2010 12:44 by MSV

Associated Lab Samples: H10060509002, H10060509003, H10060509004, H10060509005, H10060541001, H10060541002, H10060541003, H10060541004, H10060541005, H10060541006, H10060541007

METHOD BLANK: 54420

Analysis Date/Time Analyst: 06/30/2010 14:56 DLY

Parameter	Units	Blank Result	Qualifiers	Reporting Limit
Benzene	ug/l	ND		1.0
Ethylbenzene	ug/l	ND		1.0
Toluene	ug/l	ND		1.0
m,p-Xylene	ug/l	ND		1.0
o-Xylene	ug/l	ND		1.0
Xylenes, Total	ug/l	ND		1.0
4-Bromofluorobenzene (S)	%	95.2		70-130
1,2-Dichloroethane-d4 (S)	%	92.9		71-140
Toluene-d8 (S)	%	103		61-121

LABORATORY CONTROL SAMPLE: 54421

Analysis Date/Time Analyst: 06/30/2010 13:50 DLY

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
Benzene	ug/l	20	21.5	108	70-130
Ethylbenzene	ug/l	20	21.5	108	70-130
Toluene	ug/l	20	21.8	109	73-130
m,p-Xylene	ug/l	40	44.3	111	70-130
o-Xylene	ug/l	20	22.5	112	70-130
Xylenes, Total	ug/l	60	66.81	111	70-130
4-Bromofluorobenzene (S)	%			97.8	70-130
1,2-Dichloroethane-d4 (S)	%			90.6	71-140
Toluene-d8 (S)	%			105	61-121

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 54422 54423 Original: H10060541002

MS Analysis Date/Time Analyst: 06/30/2010 20:28 DLY

MSD Analysis Date/Time Analyst: 06/30/2010 20:50 DLY

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Benzene	ug/l	ND	20	21.9	20.6	109	103	67-202	6.0	20
Ethylbenzene	ug/l	ND	20	21.0	19.6	105	98.2	49-165	6.5	20
Toluene	ug/l	ND	20	21.2	20.0	106	100	48-162	5.9	20

QC results presented in the QC Control Data 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. Also, MS/MSD % recoveries are calculated by the SPL LIMS using any detected value greater than the MDL.

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QUALITY CONTROL DATA

Workorder: H10060541 : Wingate Fractionating Plant — Project Number: Wingate Fractionating Plant

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 54422 54423 Original: H10060541002

MS Analysis Date/Time Analyst: 06/30/2010 20:28 DLY

MSD Analysis Date/Time Analyst: 06/30/2010 20:50 DLY

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
m,p-Xylene	ug/l	ND	40	43.1	40.1	108	100	44-167	7.1	20
o-Xylene	ug/l	ND	20	21.7	20.6	109	103	54-158	5.5	20
Xylenes, Total	ug/l	ND	60	64.83	60.7	108	101	44-167	6.6	20
4-Bromofluorobenzene (S)	%	95.9				96.6	95.4	70-130		30
1,2-Dichloroethane-d4 (S)	%	93.7				92.4	92.4	71-140		30
Toluene-d8 (S)	%	103				105	105	61-121		30

QC results presented in the QC Control Data 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. Also, MS/MSD % recoveries are calculated by the SPL LIMS using any detected value greater than the MDL.

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QUALITY CONTROL DATA

Workorder: H10060541 : Wingate Fractionating Plant — Project Number: Wingate Fractionating Plant

QC Batch: HGPR/1167 — Analysis Method: SW-846 7470A

QC Batch Method: SW-846 7470A — Preparation: 07/13/2010 09:30 by F_S

Associated Lab Samples: H10060509001, H10060509002, H10060509003, H10060509004, H10060541003, H10060541004, H10060541005, H10060581001, H10060581002, H10060581003, H10060590001

METHOD BLANK: 56387

Analysis Date/Time Analyst: 07/13/2010 09:35 F_S

Parameter	Units	Blank Result	Qualifiers	Reporting Limit
Mercury	ug/l	ND		0.200

LABORATORY CONTROL SAMPLE: 56388

Analysis Date/Time Analyst: 07/13/2010 09:37 F_S

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
Mercury	ug/l	2	1.987	99.4	80-120

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 56385 56386 Original: H10060541003

MS Analysis Date/Time Analyst: 07/13/2010 09:42 F_S

MSD Analysis Date/Time Analyst: 07/13/2010 09:44 F_S

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Mercury	ug/l	ND	2	1.546	1.50	77.3 *	75.0 *	80-120	3.0	20

POST DIGESTION SPIKE & DUPLICATE: 56389 56390 Original: H10060541003

PDS Analysis Date/Time Analyst: 07/13/2010 09:49 F_S

PDSD Analysis Date/Time Analyst: 07/13/2010 09:51 F_S

Parameter	Units	Original Result	Spike Conc.	PDS Result	PDSD Result	PDS % Rec	PDSD % Rec	% Rec Limit	RPD	Max RPD
Mercury	ug/l	ND	2	1.76	1.71	87.8	85.3	85-115	3.0	20

QC results presented in the QC Control Data 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. Also, MS/MSD % recoveries are calculated by the SPL LIMS using any detected value greater than the MDL.

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Legend

(S) - Indicates analyte is a surrogate

Qualifier	Qualifier Description
*	Recovery/RPD value outside QC limits
+	DCS Concentration
B	Analyte detected in the Method Blank
C	MTBE results were not confirmed by GCMS
D	Recovery out of range due to dilution
E	Results exceed calibration range
H	Exceeds holding time
I	Estimated value, between MDL and PQL (Florida)
J	Estimated value
JN	The analysis indicates the presence of an analyte
MI	Matrix Interference
N	Recovery outside of control limits
NC	Not Calculable (Sample Duplicate)
NC	Not Calculated - Sample concentration > 4 times the spike
ND	Not Detected at reporting Limits
P	Pesticide dual column results, greater then 25%
Q	Received past holding time
TNTC	Too numerous to count
U	Not Detected at reporting Limits

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: H10060541 : Wingate Fractionating Plant

Project Number: Wingate Fractionating Plant

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
H10060541001	WMW-3	SW-846 3010A	DIGM/1852	SW-846 6010B	ICP/1489
H10060541002	WMW-5	SW-846 3010A	DIGM/1852	SW-846 6010B	ICP/1489
H10060541003	WMW-1	SW-846 3010A	DIGM/1852	SW-846 6010B	ICP/1489
H10060541004	WMW-4	SW-846 3010A	DIGM/1852	SW-846 6010B	ICP/1489
H10060541005	WMW-2	SW-846 3010A	DIGM/1852	SW-846 6010B	ICP/1489
H10060541001	WMW-3	SW-846 3010A	DIGM/1852	SW-846 6010B	ICP/1490
H10060541002	WMW-5	SW-846 3010A	DIGM/1852	SW-846 6010B	ICP/1490
H10060541003	WMW-1	SW-846 3010A	DIGM/1852	SW-846 6010B	ICP/1490
H10060541004	WMW-4	SW-846 3010A	DIGM/1852	SW-846 6010B	ICP/1490
H10060541005	WMW-2	SW-846 3010A	DIGM/1852	SW-846 6010B	ICP/1490
H10060541001	WMW-3	SM 2540 C	WETS/1667		
H10060541002	WMW-5	SM 2540 C	WETS/1667		
H10060541003	WMW-1	SM 2540 C	WETS/1667		
H10060541004	WMW-4	SM 2540 C	WETS/1667		
H10060541005	WMW-2	SM 2540 C	WETS/1667		
H10060541001	WMW-3	SM 4500-H+ B	WCSH/2710		
H10060541002	WMW-5	SM 4500-H+ B	WCSH/2710		
H10060541003	WMW-1	SM 4500-H+ B	WCSH/2710		
H10060541004	WMW-4	SM 4500-H+ B	WCSH/2710		
H10060541005	WMW-2	SM 4500-H+ B	WCSH/2710		
H10060541001	WMW-3	SW-846 3510C	EXTO/1887	SW-846 8270C	MSSV/1284
H10060541002	WMW-5	SW-846 3510C	EXTO/1887	SW-846 8270C	MSSV/1284
H10060541003	WMW-1	SW-846 3510C	EXTO/1887	SW-846 8270C	MSSV/1284
H10060541004	WMW-4	SW-846 3510C	EXTO/1887	SW-846 8270C	MSSV/1284
H10060541005	WMW-2	SW-846 3510C	EXTO/1887	SW-846 8270C	MSSV/1284
H10060541001	WMW-3	EPA 300.0	IC/1347		
H10060541002	WMW-5	EPA 300.0	IC/1347		
H10060541003	WMW-1	EPA 300.0	IC/1347		
H10060541004	WMW-4	EPA 300.0	IC/1347		
H10060541005	WMW-2	EPA 300.0	IC/1347		
H10060541001	WMW-3	EPA 300.0	IC/1352		
H10060541002	WMW-5	EPA 300.0	IC/1352		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: H10060541 : Wingate Fractionating Plant

Project Number: Wingate Fractionating Plant

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
H10060541003	**WMW-1**	EPA 300.0	IC/1352		
H10060541004	**WMW-4**	EPA 300.0	IC/1352		
H10060541005	**WMW-2**	EPA 300.0	IC/1352		
H10060541001	**WMW-3**	SM 2320 B	WETC/3375		
H10060541002	**WMW-5**	SM 2320 B	WETC/3375		
H10060541003	**WMW-1**	SM 2320 B	WETC/3375		
H10060541004	**WMW-4**	SM 2320 B	WETC/3375		
H10060541005	**WMW-2**	SM 2320 B	WETC/3375		
H10060541001	**WMW-3**	SW-846 8270C	MSSV/1284		
H10060541002	**WMW-5**	SW-846 8270C	MSSV/1284		
H10060541003	**WMW-1**	SW-846 8270C	MSSV/1284		
H10060541004	**WMW-4**	SW-846 8270C	MSSV/1284		
H10060541005	**WMW-2**	SW-846 8270C	MSSV/1284		
H10060541001	**WMW-3**	SW-846 5030	GVMS/1435	SW-846 8260B (GCVMS Analysis)	GVMS/1436
H10060541002	**WMW-5**	SW-846 5030	GVMS/1435	SW-846 8260B (GCVMS Analysis)	GVMS/1436
H10060541003	**WMW-1**	SW-846 5030	GVMS/1435	SW-846 8260B (GCVMS Analysis)	GVMS/1436
H10060541004	**WMW-4**	SW-846 5030	GVMS/1435	SW-846 8260B (GCVMS Analysis)	GVMS/1436
H10060541005	**WMW-2**	SW-846 5030	GVMS/1435	SW-846 8260B (GCVMS Analysis)	GVMS/1436
H10060541006	**Duplicate**	SW-846 5030	GVMS/1435	SW-846 8260B (GCVMS Analysis)	GVMS/1436
H10060541007	**Trip Blank**	SW-846 5030	GVMS/1435	SW-846 8260B (GCVMS Analysis)	GVMS/1436
H10060541001	**WMW-3**	SW-846 7470A	HGPR/1166	SW-846 7470A	HG/1152
H10060541003	**WMW-1**	SW-846 7470A	HGPR/1167	SW-846 7470A	HG/1152
H10060541004	**WMW-4**	SW-846 7470A	HGPR/1167	SW-846 7470A	HG/1152
H10060541005	**WMW-2**	SW-846 7470A	HGPR/1167	SW-846 7470A	HG/1152
H10060541002	**WMW-5**	SW-846 7470A	HG/1152		

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Sample Receipt Checklist

WorkOrder:	H10060541	Received By	LOG
Date and Time	06/23/2010 09:15	Carrier Name:	FEDEXS
Temperature:	3.5/4.5°C	Chilled By:	Water Ice

Airbill - Temp: 871147029016-4.5C-50lb/871147029027-3.5C-40lb/

1.	Shipping container/cooler in good condition?	YES
2.	Custody seals intact on shipping container/cooler?	YES
3.	Custody seals intact on sample bottles?	Not Present
4.	Chain of custody present?	YES
5.	Chain of custody signed when relinquished and received?	YES
6.	Chain of custody agrees with sample labels?	YES
7.	Samples in proper container/bottle?	YES
8.	Samples containers intact?	YES
9.	Sufficient sample volume for indicated test?	YES
10.	All samples received within holding time? Lab received pH out of method holding time.	NO
11.	Container/Temp Blank temperature in compliance?	YES
12.	Water - VOA vials have zero headspace?	YES
13.	Water - Preservation checked upon receipt(except VOA*)?	YES

*VOA Preservation Checked After Sample Analysis

SPL Representative: Contact Date & Time:

Client Name Contacted:

Client Instructions:

SPL Inc.
8880 Interchange Drive
Houston, TX 77054
Phone: (713) 660-0901
Fax: (713) 660-8975

Chain of Custody Record

SPL Workorder Number: H10060541

Client: Tetra Tech/ Conoco Phillips
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: [signature] print: Christina Mathews

Sample ID	Collected Date	Collected Time	Sample Type Comp	Sample Type Grab	Matrix Water	Matrix Soil	Bottle Type	Preservative Type	# of Containers	8260-Voc TCL	8260-BTEX ONLY	8270-SVOC TCL	TDS, pH, Alk.	Chl, SO4, Nitrate	Coliform	COD	BOD	Dissolved 12 Metals-6020/6
WMW-3	6/22	1020		X	X		1	3	3		X							
WMW-3	6/22	1020		X	X		4	1	2			X						
WMW-3	6/22	1020		X	X		3	1	2				X	X				
WMW-3	6/22	1020		X	X		6	1	1									X
WMW-5	6/22	1155		X	X		1	3	3		X							
WMW-5	6/22	1155		X	X		4	1	2			X						
WMW-5	6/22	1155		X	X		3	1	2				X	X				
WMW-5	6/22	1155		X	X		6	1	1									X
WMW-1	6/22	1300		X	X		1	3	3		X							
WMW-1	6/22	1310		X	X		4	1	2			X						

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

Remarks: On 6/21/10 Chain, East Pond collected @ 1235, MW-2 @ 1415 [illegible] include 6/21/10, 6/22/10 6/23/10 on one report. Filter & preserve metals

Intact? (Y) or N
Temperature: 3.5/4.5C

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

RUSH

Relinquished by	Date	Time	Received by
Relinquished by (Sampler): [signature]	6/22/10	1630	Received by:
Relinquished by:	Date	Time	Received by:
Relinquished by:	6/23/10	9:15	Received by SPL, Inc.: Amanda Vickerman

Page 1 of 3

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Chain of Custody Record

SPL Workorder Number: H10060541

Client: Tetra Tech/ Conoco Phillips

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 Mallard

Signature: Christine Mallard

Sample ID	Collected Date	Collected Time	Sample Type Comp	Sample Type Grab	Matrix Water	Matrix Soil	Bottle Type	Preservative Type	# of Containers	8260-Voc-TCL	8260-BTEX ONLY	8270-SVOC TCL	TDS, pH, Alk.	Chl, SO4, Nitrate	Coliform	COD	BOD	Dissolved 12 Metals-6020/6
MW-1	6/22	1300		X	X		3	1	2				X	X				
MW-1	6/22	1300		X	X		6	1	1									X
MW-4	6/22	1345		X	X		1	3	3	NO	X							
MW-4	6/22	1345		X	X		4	1	2		NO	X						
MW-4	6/22	1345		X	X		3	1	2				X	X				
MW-4	6/22	1345		X	X		6	1	1									X
MW-2	6/22	1515		X	X		1	3	3		X							
MW-2	6/22	1515		X	X		4	1	2			X						
MW-2	6/22	1515		X	X		3	1	2				X	X				
MW-2	6/22	1515		X	X		6	1	1									X

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

Remarks: See notes on page 1 of 6/22/10 chain

Intact? (Y) or N

Temperature: 3.5/4.5C

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 Mallard	6/22/10	1630	Received by:
Relinquished by:	Date	Time	Received by:
Relinquished by:	Date 6/23/10	Time 9:15	Received by SPL Inc. Amanda Vickman

Page 2 of 3

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SPL, INC.

Analysis Request & Chain of Custody Record

SPL Workorder No: H10060541

Page No. 3 of 3

Client Name:	Tetra Tech / ConocoPhillips
Address:	6121 Indian School Rd #220
Address:	Albuquerque NM Zip: 87110
Phone/Fax:	505-237-8440 505-237-8656
Client Contact:	Kelly Blanchard
Email:	kelly.blanchard@tetratech.com
Project Name/No:	Wingate ~~2010~~ 2010
Site Name:	
Site Location:	Gallup NM
Invoice To:	ConocoPhillips

SAMPLE ID	DATE	TIME	COMP	GRAB	MATRIX (W = Water, S = Soil, SL = Sludge, O = other)	BOTTLE (P = plastic, A = Amber glass, G = glass, V = vial)	SIZE (1 = 1 liter, 4 = 4 oz, 40 = vial, 8 = 8 oz, 16 = 16 oz)	PRES. (1 = HCL, 2 = HNO3, 3 = H2SO4, O = other)	Number of Containers	REQUESTED ANALYSIS: BTEX ONLY
Duplicate	6/22	1530	☐	☒	W	V	40	1	3	X
Trip Blank	6/22	1615	☐	☒	W	V	40	1	2	X
			☐	☐						
			☐	☐						
			☐	☐						
			☐	☐						
			☐	☐						
			☐	☐						
			☐	☐						
			☐	☐						

Client/Consultant Remarks: See remarks on page 1 of blue chain

Field pH:

Laboratory Remarks:

Intact? ☒Y ☐N

Ice? ☒Y ☐N

Temp: 3.5/4.5C

Requested TAT:
- ☐ Contract:
- ☒ 24 hr
- ☐ 48 hr
- ☐ 72 hr
- ☒ Standard
- ☐ Other:

Special Reporting Requirements: ☐ Fax ☒ Email ☒ PDF ☐ LA RECAP
☐ Standard QC ☐ Level 3 QC ☐ Level 4 QC ☐ TX TRRP

Special Detection Limit (Specify):

Custody Seals: ☐Y ☐N
Cooler: ☐Y ☐N
Container: ☐Y ☒N

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
1. By Sampler: Christina Mattson	6/22/10	1630	2. Received By:
3. By:			4. Received By:
5. By:	6/23/10	9:15	6. Received By: Amanda Vicknair

☐ 8880 Interchange Drive, Houston, TX 77054 Phone: 800-569-8775
☐ 590 Ambassador Caffery Pkwy, Scott, LA 70583 Phone: 800-504-6327
☐ 459 Hughes Drive, Traverse City, MI 49686 Phone: 989-775-0424

Report ID: H10060541_6089
Printed: 07/19/2010 13:56

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Certificate of Analysis

July 7, 2010

Workorder: H10060509

Kelly Blanchard
Tetra Tech
6121 Indian School Road NE
Suite 200
Albuquerque, NM 87110

Project: Wingate Fractionating Plant

Project Number: Wingate Fractionating Plant

Site: 68 El Paso Circle, Gallup, NM

PO Number:

NELAC Cert. No.: T104704205-09-1

This Report Contains A Total Of 49 Pages

Excluding Any Attachments

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Certificate of Analysis

July 7, 2010

Workorder: H10060509

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6121 Indian School Road NE
Suite 200
Albuquerque, NM 87110

Project: Wingate Fractionating Plant

Project Number: Wingate Fractionating Plant

Site: 68 El Paso Circle, Gallup, NM

PO Number:

NELAC Cert. No.: T104704205-09-1

I. SAMPLE RECEIPT:

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

II: ANALYSES AND EXCEPTIONS:

SW8270C - Semivolatile Organics analysis:

Due to limited sample volume, a Matrix Spike (MS) or Matrix Spike Duplicate (MSD) was not analyzed with Batch ID: EXTO/1882. 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.

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Certificate of Analysis

July 7, 2010

Workorder: H10060509

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6121 Indian School Road NE
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Project Number: Wingate Fractionating Plant

Site: 68 El Paso Circle, Gallup, NM

PO Number:

NELAC Cert. No.: T104704205-09-1

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, Senior Project Manager

Enclosures

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SAMPLE SUMMARY

Workorder: H10060509 : Wingate Fractionating Plant | Project Number: Wingate Fractionating Plant

Lab ID	Sample ID	Matrix	COC ID	Date/Time Collected	Date/Time Received
H10060509001	MWR-1	Water		6/21/2010 13:00	6/22/2010 09:15
H10060509002	West Pond	Water		6/21/2010 12:35	6/22/2010 09:15
H10060509003	East Pond	Water		6/21/2010 14:20	6/22/2010 09:15
H10060509004	MW-2	Water		6/21/2010 15:45	6/22/2010 09:15
H10060509005	Trip Blank	Water		6/21/2010 16:40	6/22/2010 09:15

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ANALYTICAL RESULTS

Workorder: H10060509 : Wingate Fractionating Plant | Project Number: Wingate Fractionating Plant

Lab ID: **H10060509001** | Date/Time Received: 6/22/2010 09:15 | Matrix: Water

Sample ID: **MWR-1** | Date/Time Collected: 6/21/2010 13:00

Analysis Desc: EPA 300.0 | Analytical Batches:

Batch: 1344 EPA 300.0 on 06/22/2010 11:15 by CFS

Batch: 1345 EPA 300.0 on 06/22/2010 14:11 by CFS

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Chloride	33.4		5.00	1.26	10			1345
Nitrogen, Nitrate (As N)	0.603		0.500	0.0676	1			1344
Sulfate	41.5		5.00	0.435	10			1345

Analysis Desc: SM 2320 B | Analytical Batches:

Batch: 3369 SM 2320 B on 06/24/2010 12:00 by PAC

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Alkalinity, total as CaCO3	589		2.00	1.68	1			3369

WET CHEMISTRY

Analysis Desc: SM 4500-H+ B | Analytical Batches:

Batch: 2701 SM 4500-H+ B on 06/22/2010 16:30 by PAC

Parameters	Results SU	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
pH	7.75	H	0.100		1			2701

Analysis Desc: SM 2540 C | Analytical Batches:

Batch: 1667 SM 2540 C on 06/23/2010 16:25 by CFS

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Residue, Filterable (TDS)	1200		10.0	3.94	1			1667

ICP DISSOLVED METALS

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ANALYTICAL RESULTS

Workorder: H10060509 : Wingate Fractionating Plant | Project Number: Wingate Fractionating Plant

Lab ID: **H10060509001** | Date/Time Received: 6/22/2010 09:15 | Matrix: Water

Sample ID: **MWR-1** | Date/Time Collected: 6/21/2010 13:00

Analysis Desc: SW-846 6010B

Preparation Batches:
Batch: 1846 SW-846 3010A on 06/22/2010 15:30 by R_V

Analytical Batches:
Batch: 1483 SW-846 6010B on 07/03/2010 16:47 by EBG DF = 5
Batch: 1482 SW-846 6010B on 07/04/2010 17:10 by EBG DF = 1

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Arsenic	ND		0.00500	0.00140	1		1846	1482
Barium	0.176		0.00500	0.000470	1		1846	1482
Cadmium	ND		0.00500	0.000170	1		1846	1482
Calcium	8.33		0.100	0.0171	1		1846	1482
Chromium	ND		0.00500	0.000460	1		1846	1482
Iron	0.0306		0.0200	0.00640	1		1846	1482
Lead	ND		0.00500	0.000700	1		1846	1482
Magnesium	5.14		0.100	0.0483	1		1846	1482
Manganese	0.271		0.00500	0.000300	1		1846	1482
Selenium	ND		0.0100	0.00190	1		1846	1482
Silver	ND		0.00500	0.000670	1		1846	1482
Sodium	344		0.500	0.148	5		1846	1483

VOLATILES

Analysis Desc: SW-846 8260B

SW-846 5030Analytical Batches:
Batch: 2113 SW-846 8260B on 06/26/2010 20:14 by JMC

Parameters	Results ug/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Benzene	ND		1.0	0.10	1			2113
Ethylbenzene	ND		1.0	0.15	1			2113
Toluene	ND		1.0	0.29	1			2113
m,p-Xylene	ND		1.0	0.18	1			2113
o-Xylene	ND		1.0	0.13	1			2113
Xylenes, Total	ND		1.0	0.13	1			2113
4-Bromofluorobenzene (S)	96.6 %		74-125		1			2113
1,2-Dichloroethane-d4 (S)	79.3 %		70-130		1			2113
Toluene-d8 (S)	103 %		82-118		1			2113

SEMIVOLATILES

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ANALYTICAL RESULTS

Workorder: H10060509 : Wingate Fractionating Plant

Project Number: Wingate Fractionating Plant

Lab ID: **H10060509001**

Date/Time Received: 6/22/2010 09:15 Matrix: Water

Sample ID: **MWR-1**

Date/Time Collected: 6/21/2010 13:00

Analysis Desc: SW-846 8270C

Preparation Batches:

Batch: 1882 SW-846 3510C on 06/23/2010 12:45 by A_G

Batch: SW-846 3510C on

Analytical Batches:

Batch: 1282 SW-846 8270C on 06/28/2010 23:29 by SBG

Parameters	Results ug/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Acenaphthene	ND		5.3	1.5	1		1882	1282
Acenaphthylene	ND		5.3	1.5	1		1882	1282
Aniline	ND		5.3	2.6	1		1882	1282
Anthracene	ND		5.3	1.5	1		1882	1282
Benzo(a)anthracene	ND		5.3	1.5	1		1882	1282
Benzo(a)pyrene	ND		5.3	1.7	1		1882	1282
Benzo(b)fluoranthene	ND		5.3	1.6	1		1882	1282
Benzo(g,h,i)perylene	ND		5.3	1.6	1		1882	1282
Benzo(k)fluoranthene	ND		5.3	1.8	1		1882	1282
Benzoic acid	ND		26	4.1	1		1882	1282
Benzyl alcohol	ND		5.3	1.3	1		1882	1282
Bis(2-Chloroethoxy)methane	ND		5.3	2.4	1		1882	1282
Bis(2-Chloroethyl)ether	ND		5.3	1.7	1		1882	1282
bis(2-Chloroisopropyl)ether	ND		5.3	1.7	1		1882	1282
bis(2-Ethylhexyl)phthalate	ND		5.3	1.7	1		1882	1282
4-Bromophenyl phenyl ether	ND		5.3	1.6	1		1882	1282
Butyl benzyl phthalate	ND		5.3	1.6	1		1882	1282
Carbazole	ND		5.3	1.6	1		1882	1282
4-Chloro-3-methylphenol	ND		5.3	1.4	1		1882	1282
4-Chloroaniline	ND		5.3	1.4	1		1882	1282
2-Chloronaphthalene	ND		5.3	1.7	1		1882	1282
2-Chlorophenol	ND		5.3	1.4	1		1882	1282
4-Chlorophenyl phenyl ether	ND		5.3	1.8	1		1882	1282
Chrysene	ND		5.3	1.6	1		1882	1282
Cresols, Total	ND		5.3	1.4	1		1882	1282
Di-n-butyl phthalate	ND		5.3	1.7	1		1882	1282
Di-n-octyl phthalate	ND		5.3	1.7	1		1882	1282
Dibenz(a,h)anthracene	ND		5.3	1.5	1		1882	1282
Dibenzofuran	ND		5.3	1.5	1		1882	1282
1,3-Dichlorobenzene	ND		5.3	1.5	1		1882	1282
1,2-Dichlorobenzene	ND		5.3	1.5	1		1882	1282
1,4-Dichlorobenzene	ND		5.3	1.5	1		1882	1282
2,4-Dichlorophenol	ND		5.3	1.3	1		1882	1282
Diethyl phthalate	ND		5.3	1.6	1		1882	1282

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ANALYTICAL RESULTS

Workorder: H10060509 : Wingate Fractionating Plant | Project Number: Wingate Fractionating Plant

Lab ID: **H10060509001** | Date/Time Received: 6/22/2010 09:15 | Matrix: Water

Sample ID: **MWR-1** | Date/Time Collected: 6/21/2010 13:00

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Dimethyl phthalate	ND		5.3	1.6	1		1882	1282
2,4-Dimethylphenol	ND		5.3	1.5	1		1882	1282
4,6-Dinitro-2-methylphenol	ND		26	4.3	1		1882	1282
2,4-Dinitrophenol	ND		26	4.4	1		1882	1282
2,6-Dinitrotoluene	ND		5.3	1.5	1		1882	1282
2,4-Dinitrotoluene	ND		5.3	1.3	1		1882	1282
Diphenylamine	ND		11	2.1	1		1882	1282
1,2-Diphenylhydrazine	ND		11	4.2	1		1882	1282
Fluoranthene	ND		5.3	1.5	1		1882	1282
Fluorene	ND		5.3	1.5	1		1882	1282
Hexachlorobenzene	ND		5.3	1.6	1		1882	1282
Hexachlorobutadiene	ND		5.3	1.6	1		1882	1282
Hexachlorocyclopentadiene	ND		5.3	1.1	1		1882	1282
Hexachloroethane	ND		5.3	1.4	1		1882	1282
Indeno(1,2,3-cd)pyrene	ND		5.3	1.5	1		1882	1282
Isophorone	ND		5.3	1.4	1		1882	1282
2-Methylnaphthalene	ND		5.3	1.5	1		1882	1282
2-Methylphenol (o-Cresol)	ND		5.3	1.4	1		1882	1282
3 & 4-Methylphenol	ND		5.3	1.4	1		1882	1282
n-Nitrosodi-n-propylamine	ND		5.3	1.6	1		1882	1282
n-Nitrosodimethylamine	ND		5.3	1.6	1		1882	1282
n-Nitrosodiphenylamine	ND		5.3	2.1	1		1882	1282
Naphthalene	ND		5.3	1.5	1		1882	1282
3-Nitroaniline	ND		26	4.0	1		1882	1282
4-Nitroaniline	ND		26	3.2	1		1882	1282
2-Nitroaniline	ND		26	4.4	1		1882	1282
Nitrobenzene	ND		5.3	1.5	1		1882	1282
2-Nitrophenol	ND		5.3	1.4	1		1882	1282
4-Nitrophenol	ND		26	5.5	1		1882	1282
Pentachlorophenol	ND		26	1.1	1		1882	1282
Phenanthrene	ND		5.3	1.6	1		1882	1282
Phenol	ND		5.3	1.6	1		1882	1282
Pyrene	ND		5.3	1.6	1		1882	1282
Pyridine	ND		5.3	2.5	1		1882	1282
1,2,4-Trichlorobenzene	ND		5.3	1.5	1		1882	1282
2,4,6-Trichlorophenol	ND		5.3	1.4	1		1882	1282
2,4,5-Trichlorophenol	ND		11	1.2	1		1882	1282
3,3'-Dichlorobenzidine	ND		11	3.1	1		1882	1282
(E)-3-Chloro-2-methyl-2-pentenal	0.076	JN			1			1282
2-Fluorobiphenyl (S)	74.3 %		45-108		1		1882	1282
2-Fluorophenol (S)	44.2 %		18-113		1		1882	1282

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ANALYTICAL RESULTS

Workorder: H10060509 : Wingate Fractionating Plant

Project Number: Wingate Fractionating Plant

Lab ID: **H10060509001**
Sample ID: **MWR-1**

Date/Time Received: 6/22/2010 09:15
Date/Time Collected: 6/21/2010 13:00

Matrix: Water

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Nitrobenzene-d5 (S)	68.7 %		41-113		1		1882	1282
Phenol-d6 (S)	31.1 %		10-113		1		1882	1282
Terphenyl-d14 (S)	85.5 %		43-122		1		1882	1282
2,4,6-Tribromophenol (S)	78 %		25-154		1		1882	1282

Analysis Desc: SM5210B

Preparation Batches:

Batch: 2697 SM5210B on 06/22/2010 11:00 by WETC

Analytical Batches:

Batch: 2698 SM5210B on 06/22/2010 11:00 by ESK

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
BOD	ND		2.00	0.0560	1		2697	2698

Analysis Desc: SM 5220 C

Analytical Batches:

Batch: 3354 SM 5220 C on 06/23/2010 11:30 by PAC

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
COD	11.9		3.00	2.83	1			3354

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ANALYTICAL RESULTS

Workorder: H10060509 : Wingate Fractionating Plant — Project Number: Wingate Fractionating Plant

Lab ID: **H10060509002** — Date/Time Received: 6/22/2010 09:15 — Matrix: Water

Sample ID: **West Pond** — Date/Time Collected: 6/21/2010 12:35

Analysis Desc: EPA 300.0

Analytical Batches:
Batch: 1344 EPA 300.0 on 06/22/2010 12:36 by CFS
Batch: 1345 EPA 300.0 on 06/22/2010 15:47 by CFS

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Batch Information Analysis
Chloride	165000		10000	2520	20000			1345
Nitrogen, Nitrate (As N)	ND		50.0	6.76	100			1344
Sulfate	38100		10000	870	20000			1345

Analysis Desc: SM 2320 B

Analytical Batches:
Batch: 3369 SM 2320 B on 06/24/2010 12:00 by PAC

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Batch Information Analysis
Alkalinity, total as CaCO3	1530		2.00	1.68	1			3369

WET CHEMISTRY

Analysis Desc: SM 4500-H+ B

Analytical Batches:
Batch: 2701 SM 4500-H+ B on 06/22/2010 16:30 by PAC

Parameters	Results SU	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Batch Information Analysis
pH	7.06	H	0.100		1			2701

Analysis Desc: SM 2540 C

Analytical Batches:
Batch: 1667 SM 2540 C on 06/23/2010 16:25 by CFS

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Batch Information Analysis
Residue, Filterable (TDS)	53200		500	197	50			1667

ICP DISSOLVED METALS

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ANALYTICAL RESULTS

Workorder: H10060509 : Wingate Fractionating Plant | Project Number: Wingate Fractionating Plant

Lab ID: **H10060509002** | Date/Time Received: 6/22/2010 09:15 | Matrix: Water

Sample ID: **West Pond** | Date/Time Collected: 6/21/2010 12:35

Analysis Desc: SW-846 6010B

Preparation Batches:

Batch: 1846 SW-846 3010A on 06/22/2010 15:30 by R_V

Analytical Batches:

Batch: 1482 SW-846 6010B on 07/03/2010 17:05 by EBG DF = 100.

Batch: 1483 SW-846 6010B on 07/03/2010 17:17 by EBG DF = 200.

Batch: 1482 SW-846 6010B on 07/04/2010 17:40 by EBG DF = 20.

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Arsenic	ND		0.100	0.0280	20		1846	1482
Barium	ND		0.100	0.00940	20		1846	1482
Cadmium	ND		0.100	0.00340	20		1846	1482
Calcium	192		2.00	0.342	20		1846	1482
Chromium	ND		0.100	0.00920	20		1846	1482
Iron	ND		0.400	0.128	20		1846	1482
Lead	ND		0.100	0.0140	20		1846	1482
Magnesium	30200		10.0	4.83	100		1846	1482
Manganese	5.04		0.100	0.00600	20		1846	1482
Selenium	ND		0.200	0.0380	20		1846	1482
Silver	ND		0.100	0.0134	20		1846	1482
Sodium	53800		20.0	5.90	200		1846	1483

SEMIVOLATILES

Analysis Desc: SW-846 8270C

Preparation Batches:

Batch: 1882 SW-846 3510C on 06/23/2010 12:49 by A_G

Batch: SW-846 3510C on

Analytical Batches:

Batch: 1282 SW-846 8270C on 06/29/2010 00:04 by SBG

Parameters	Results ug/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Acenaphthene	ND		6.6	1.9	1		1882	1282
Acenaphthylene	ND		6.6	1.9	1		1882	1282
Aniline	ND		6.6	3.3	1		1882	1282
Anthracene	ND		6.6	1.8	1		1882	1282
Benzo(a)anthracene	ND		6.6	1.9	1		1882	1282
Benzo(a)pyrene	ND		6.6	2.1	1		1882	1282
Benzo(b)fluoranthene	ND		6.6	2.0	1		1882	1282
Benzo(g,h,i)perylene	ND		6.6	2.0	1		1882	1282
Benzo(k)fluoranthene	ND		6.6	2.3	1		1882	1282
Benzoic acid	ND		33	5.2	1		1882	1282

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ANALYTICAL RESULTS

Workorder: H10060509 : Wingate Fractionating Plant | Project Number: Wingate Fractionating Plant

Lab ID: **H10060509002** | Date/Time Received: 6/22/2010 09:15 | Matrix: Water

Sample ID: **West Pond** | Date/Time Collected: 6/21/2010 12:35

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Benzyl alcohol	ND		6.6	1.6	1		1882	1282
Bis(2-Chloroethoxy)methane	ND		6.6	3.0	1		1882	1282
Bis(2-Chloroethyl)ether	ND		6.6	2.1	1		1882	1282
bis(2-Chloroisopropyl)ether	ND		6.6	2.1	1		1882	1282
bis(2-Ethylhexyl)phthalate	ND		6.6	2.1	1		1882	1282
4-Bromophenyl phenyl ether	ND		6.6	1.9	1		1882	1282
Butyl benzyl phthalate	ND		6.6	2.1	1		1882	1282
Carbazole	ND		6.6	2.0	1		1882	1282
4-Chloro-3-methylphenol	ND		6.6	1.8	1		1882	1282
4-Chloroaniline	ND		6.6	1.7	1		1882	1282
2-Chloronaphthalene	ND		6.6	2.1	1		1882	1282
2-Chlorophenol	ND		6.6	1.8	1		1882	1282
4-Chlorophenyl phenyl ether	ND		6.6	2.2	1		1882	1282
Chrysene	ND		6.6	1.9	1		1882	1282
Cresols, Total	11		6.6	1.8	1		1882	1282
Di-n-butyl phthalate	ND		6.6	2.1	1		1882	1282
Di-n-octyl phthalate	ND		6.6	2.1	1		1882	1282
Dibenz(a,h)anthracene	ND		6.6	1.8	1		1882	1282
Dibenzofuran	ND		6.6	1.9	1		1882	1282
1,3-Dichlorobenzene	ND		6.6	1.9	1		1882	1282
1,2-Dichlorobenzene	ND		6.6	1.8	1		1882	1282
1,4-Dichlorobenzene	ND		6.6	1.9	1		1882	1282
2,4-Dichlorophenol	ND		6.6	1.7	1		1882	1282
Diethyl phthalate	ND		6.6	1.9	1		1882	1282
Dimethyl phthalate	ND		6.6	2.0	1		1882	1282
2,4-Dimethylphenol	ND		6.6	1.9	1		1882	1282
4,6-Dinitro-2-methylphenol	ND		33	5.4	1		1882	1282
2,4-Dinitrophenol	ND		33	5.5	1		1882	1282
2,6-Dinitrotoluene	ND		6.6	1.9	1		1882	1282
2,4-Dinitrotoluene	ND		6.6	1.6	1		1882	1282
Diphenylamine	ND		13	2.6	1		1882	1282
1,2-Diphenylhydrazine	ND		13	5.2	1		1882	1282
Fluoranthene	ND		6.6	1.8	1		1882	1282
Fluorene	ND		6.6	1.9	1		1882	1282
Hexachlorobenzene	ND		6.6	2.0	1		1882	1282
Hexachlorobutadiene	ND		6.6	2.0	1		1882	1282
Hexachlorocyclopentadiene	ND		6.6	1.4	1		1882	1282
Hexachloroethane	ND		6.6	1.7	1		1882	1282
Indeno(1,2,3-cd)pyrene	ND		6.6	1.8	1		1882	1282
Isophorone	ND		6.6	1.8	1		1882	1282
2-Methylnaphthalene	ND		6.6	1.9	1		1882	1282

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ANALYTICAL RESULTS

Workorder: H10060509 : Wingate Fractionating Plant | Project Number: Wingate Fractionating Plant

Lab ID: **H10060509002** | Date/Time Received: 6/22/2010 09:15 | Matrix: Water

Sample ID: **West Pond** | Date/Time Collected: 6/21/2010 12:35

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Batch Information Analysis
2-Methylphenol (o-Cresol)	ND		6.6	1.8	1		1882	1282
3 & 4-Methylphenol	11		6.6	1.8	1		1882	1282
n-Nitrosodi-n-propylamine	ND		6.6	2.0	1		1882	1282
n-Nitrosodimethylamine	ND		6.6	2.0	1		1882	1282
n-Nitrosodiphenylamine	ND		6.6	2.6	1		1882	1282
Naphthalene	ND		6.6	1.9	1		1882	1282
3-Nitroaniline	ND		33	5.1	1		1882	1282
4-Nitroaniline	ND		33	4.0	1		1882	1282
2-Nitroaniline	ND		33	5.5	1		1882	1282
Nitrobenzene	ND		6.6	1.9	1		1882	1282
2-Nitrophenol	ND		6.6	1.8	1		1882	1282
4-Nitrophenol	ND		33	6.8	1		1882	1282
Pentachlorophenol	ND		33	1.4	1		1882	1282
Phenanthrene	ND		6.6	2.0	1		1882	1282
Phenol	ND		6.6	2.0	1		1882	1282
Pyrene	ND		6.6	2.0	1		1882	1282
Pyridine	ND		6.6	3.1	1		1882	1282
1,2,4-Trichlorobenzene	ND		6.6	1.9	1		1882	1282
2,4,6-Trichlorophenol	ND		6.6	1.7	1		1882	1282
2,4,5-Trichlorophenol	ND		13	1.5	1		1882	1282
3,3'-Dichlorobenzidine	ND		13	3.9	1		1882	1282
(E)-3-Chloro-2-methyl-2-pentenal	0.035	JN			1			1282
Indoleacetic acid	0.018	JN			1			1282
Morpholine, 4-acetyl-	0.046	JN			1			1282
N-Formylmorpholine	0.010	JN			1			1282
n-Hexadecanoic acid	0.017	JN			1			1282
Octadecanoic acid	0.017	JN			1			1282
Selenium(IV) oxide	0.0074	JN			1			1282
1,1,3-Trimethylsilacyclohexane	0.0093	JN			1			1282
1H-Benzotriazole, 5-methyl-	0.021	JN			1			1282
2(3H)-Furanone, dihydro-5,5-dimethyl-	0.0099	JN			1			1282
2-Ethoxyethylamine	0.0096	JN			1			1282
2-Propanol, 1-[1-methyl-2-(2-propenyloxy	0.018	JN			1			1282
2H-Indol-2-one, 1,3-dihydro-	0.031	JN			1			1282
Cyclic octaatomic sulfur	0.013	JN			1			1282
Hexadecane	0.016	JN			1			1282
2-Fluorobiphenyl (S)	26 %	MI*	45-108		1		1882	1282
2-Fluorophenol (S)	34.7 %		18-113		1		1882	1282
Nitrobenzene-d5 (S)	28.4 %	MI*	41-113		1		1882	1282
Phenol-d6 (S)	37.4 %		10-113		1		1882	1282
Terphenyl-d14 (S)	31.4 %	MI*	43-122		1		1882	1282

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ANALYTICAL RESULTS

Workorder: H10060509 : Wingate Fractionating Plant — Project Number: Wingate Fractionating Plant

Lab ID: **H10060509002** — Date/Time Received: 6/22/2010 09:15 — Matrix: Water

Sample ID: **West Pond** — Date/Time Collected: 6/21/2010 12:35

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Batch Information Analysis
2,4,6-Tribromophenol (S)	38 %		25-154		1		1882	1282

VOLATILES

Analysis Desc: SW-846 8260B (GCVMS Analysis) — SW-846 5030Analytical Batches:

Batch: 1436 SW-846 8260B (GCVMS Analysis) on 06/30/2010 21:34 by DLY

Parameters	Results ug/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Batch Information Analysis
Benzene	ND		10	1.7	10			1436
Ethylbenzene	ND		10	0.97	10			1436
Toluene	ND		10	1.2	10			1436
m,p-Xylene	ND		10	3.0	10			1436
o-Xylene	ND		10	1.1	10			1436
Xylenes, Total	ND		10	1.1	10			1436
4-Bromofluorobenzene (S)	95.5 %		70-130		10			1436
1,2-Dichloroethane-d4 (S)	102 %		71-140		10			1436
Toluene-d8 (S)	104 %		61-121		10			1436
Preservation pH	<2				10			1436

Analysis Desc: SM5210B — Preparation Batches:

Batch: 2697 SM5210B on 06/22/2010 11:00 by WETC

Analytical Batches:

Batch: 2698 SM5210B on 06/22/2010 11:00 by ESK

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Batch Information Analysis
BOD	11.6		4.00	0.112	2		2697	2698

Analysis Desc: SM 5220 C — Analytical Batches:

Batch: 3363 SM 5220 C on 06/24/2010 12:30 by PAC

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Batch Information Analysis
COD	2950		120	113	40			3363

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ANALYTICAL RESULTS

Workorder: H10060509 : Wingate Fractionating Plant

Project Number: Wingate Fractionating Plant

Lab ID: **H10060509003**
Sample ID: **East Pond**

Date/Time Received: 6/22/2010 09:15
Date/Time Collected: 6/21/2010 14:20

Matrix: Water

Analysis Desc: EPA 300.0

Analytical Batches:
Batch: 1344 EPA 300.0 on 06/22/2010 12:52 by CFS
Batch: 1345 EPA 300.0 on 06/22/2010 15:31 by CFS

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Chloride	3680		500	126	1000			1345
Nitrogen, Nitrate (As N)	ND		50.0	6.76	100			1344
Sulfate	8320		500	43.5	1000			1345

Analysis Desc: SM 2320 B

Analytical Batches:
Batch: 3369 SM 2320 B on 06/24/2010 12:00 by PAC

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Alkalinity, total as CaCO3	143		2.00	1.68	1			3369

WET CHEMISTRY

Analysis Desc: SM 4500-H+ B

Analytical Batches:
Batch: 2701 SM 4500-H+ B on 06/22/2010 16:30 by PAC

Parameters	Results SU	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
pH	9.99	H	0.100		1			2701

Analysis Desc: SM 2540 C

Analytical Batches:
Batch: 1667 SM 2540 C on 06/23/2010 16:25 by CFS

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Residue, Filterable (TDS)	2670		20.0	7.88	2			1667

ICP DISSOLVED METALS

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ANALYTICAL RESULTS

Workorder: H10060509 : Wingate Fractionating Plant — Project Number: Wingate Fractionating Plant

Lab ID: **H10060509003** — Date/Time Received: 6/22/2010 09:15 — Matrix: Water

Sample ID: **East Pond** — Date/Time Collected: 6/21/2010 14:20

Analysis Desc: SW-846 6010B

Preparation Batches:
Batch: 1846 SW-846 3010A on 06/22/2010 15:30 by R_V

Analytical Batches:
Batch: 1482 SW-846 6010B on 07/03/2010 17:26 by EBG DF = 10.
Batch: 1483 SW-846 6010B on 07/03/2010 17:26 by EBG DF = 10.

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Arsenic	ND		0.0500	0.0140	10		1846	1482
Barium	ND		0.0500	0.00470	10		1846	1482
Cadmium	ND		0.0500	0.00170	10		1846	1482
Calcium	1160		1.00	0.171	10		1846	1482
Chromium	ND		0.0500	0.00460	10		1846	1482
Iron	ND		0.200	0.0640	10		1846	1482
Lead	ND		0.0500	0.00700	10		1846	1482
Magnesium	940		1.00	0.483	10		1846	1482
Manganese	ND		0.0500	0.00300	10		1846	1482
Selenium	ND		0.100	0.0190	10		1846	1482
Silver	ND		0.0500	0.00670	10		1846	1482
Sodium	3370		1.00	0.295	10		1846	1483

SEMIVOLATILES

Analysis Desc: SW-846 8270C

Preparation Batches:
Batch: 1882 SW-846 3510C on 06/23/2010 12:50 by A_G
Batch: SW-846 3510C on

Analytical Batches:
Batch: 1282 SW-846 8270C on 06/29/2010 00:39 by SBG

Parameters	Results ug/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Acenaphthene	ND		5.5	1.6	1		1882	1282
Acenaphthylene	ND		5.5	1.5	1		1882	1282
Aniline	ND		5.5	2.7	1		1882	1282
Anthracene	ND		5.5	1.5	1		1882	1282
Benzo(a)anthracene	ND		5.5	1.6	1		1882	1282
Benzo(a)pyrene	ND		5.5	1.7	1		1882	1282
Benzo(b)fluoranthene	ND		5.5	1.7	1		1882	1282
Benzo(g,h,i)perylene	ND		5.5	1.7	1		1882	1282
Benzo(k)fluoranthene	ND		5.5	1.9	1		1882	1282
Benzoic acid	ND		27	4.3	1		1882	1282
Benzyl alcohol	ND		5.5	1.4	1		1882	1282

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ANALYTICAL RESULTS

Workorder: H10060509 : Wingate Fractionating Plant | Project Number: Wingate Fractionating Plant

Lab ID: **H10060509003** | Date/Time Received: 6/22/2010 09:15 | Matrix: Water

Sample ID: **East Pond** | Date/Time Collected: 6/21/2010 14:20

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Bis(2-Chloroethoxy)methane	ND		5.5	2.5	1		1882	1282
Bis(2-Chloroethyl)ether	ND		5.5	1.7	1		1882	1282
bis(2-Chloroisopropyl)ether	ND		5.5	1.8	1		1882	1282
bis(2-Ethylhexyl)phthalate	ND		5.5	1.8	1		1882	1282
4-Bromophenyl phenyl ether	ND		5.5	1.6	1		1882	1282
Butyl benzyl phthalate	ND		5.5	1.7	1		1882	1282
Carbazole	ND		5.5	1.6	1		1882	1282
4-Chloro-3-methylphenol	ND		5.5	1.5	1		1882	1282
4-Chloroaniline	ND		5.5	1.4	1		1882	1282
2-Chloronaphthalene	ND		5.5	1.7	1		1882	1282
2-Chlorophenol	ND		5.5	1.5	1		1882	1282
4-Chlorophenyl phenyl ether	ND		5.5	1.8	1		1882	1282
Chrysene	ND		5.5	1.6	1		1882	1282
Cresols, Total	ND		5.5	1.5	1		1882	1282
Di-n-butyl phthalate	ND		5.5	1.7	1		1882	1282
Di-n-octyl phthalate	ND		5.5	1.7	1		1882	1282
Dibenz(a,h)anthracene	ND		5.5	1.5	1		1882	1282
Dibenzofuran	ND		5.5	1.6	1		1882	1282
1,3-Dichlorobenzene	ND		5.5	1.5	1		1882	1282
1,2-Dichlorobenzene	ND		5.5	1.5	1		1882	1282
1,4-Dichlorobenzene	ND		5.5	1.5	1		1882	1282
2,4-Dichlorophenol	ND		5.5	1.4	1		1882	1282
Diethyl phthalate	ND		5.5	1.6	1		1882	1282
Dimethyl phthalate	ND		5.5	1.7	1		1882	1282
2,4-Dimethylphenol	ND		5.5	1.6	1		1882	1282
4,6-Dinitro-2-methylphenol	ND		27	4.5	1		1882	1282
2,4-Dinitrophenol	ND		27	4.6	1		1882	1282
2,6-Dinitrotoluene	ND		5.5	1.6	1		1882	1282
2,4-Dinitrotoluene	ND		5.5	1.3	1		1882	1282
Diphenylamine	ND		11	2.2	1		1882	1282
1,2-Diphenylhydrazine	ND		11	4.3	1		1882	1282
Fluoranthene	ND		5.5	1.5	1		1882	1282
Fluorene	ND		5.5	1.6	1		1882	1282
Hexachlorobenzene	ND		5.5	1.7	1		1882	1282
Hexachlorobutadiene	ND		5.5	1.6	1		1882	1282
Hexachlorocyclopentadiene	ND		5.5	1.2	1		1882	1282
Hexachloroethane	ND		5.5	1.4	1		1882	1282
Indeno(1,2,3-cd)pyrene	ND		5.5	1.5	1		1882	1282
Isophorone	ND		5.5	1.5	1		1882	1282
2-Methylnaphthalene	ND		5.5	1.6	1		1882	1282
2-Methylphenol (o-Cresol)	ND		5.5	1.5	1		1882	1282

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ANALYTICAL RESULTS

Workorder: H10060509 : Wingate Fractionating Plant | Project Number: Wingate Fractionating Plant

Lab ID: **H10060509003** | Date/Time Received: 6/22/2010 09:15 | Matrix: Water

Sample ID: **East Pond** | Date/Time Collected: 6/21/2010 14:20

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Batch Information Analysis
3 & 4-Methylphenol	ND		5.5	1.5	1		1882	1282
n-Nitrosodi-n-propylamine	ND		5.5	1.7	1		1882	1282
n-Nitrosodimethylamine	ND		5.5	1.7	1		1882	1282
n-Nitrosodiphenylamine	ND		5.5	2.2	1		1882	1282
Naphthalene	ND		5.5	1.6	1		1882	1282
3-Nitroaniline	ND		27	4.2	1		1882	1282
4-Nitroaniline	ND		27	3.3	1		1882	1282
2-Nitroaniline	ND		27	4.6	1		1882	1282
Nitrobenzene	ND		5.5	1.6	1		1882	1282
2-Nitrophenol	ND		5.5	1.5	1		1882	1282
4-Nitrophenol	ND		27	5.7	1		1882	1282
Pentachlorophenol	ND		27	1.2	1		1882	1282
Phenanthrene	ND		5.5	1.7	1		1882	1282
Phenol	ND		5.5	1.7	1		1882	1282
Pyrene	ND		5.5	1.7	1		1882	1282
Pyridine	ND		5.5	2.6	1		1882	1282
1,2,4-Trichlorobenzene	ND		5.5	1.6	1		1882	1282
2,4,6-Trichlorophenol	ND		5.5	1.4	1		1882	1282
2,4,5-Trichlorophenol	ND		11	1.3	1		1882	1282
3,3'-Dichlorobenzidine	ND		11	3.3	1		1882	1282
2-Propenoic acid, 2-methyl-, hexyl ester	0.016	JN			1			1282
2-Pyridinecarbonitrile	0.014	JN			1			1282
Butane, 2,3-dimethyl-2-nitro-	0.017	JN			1			1282
n-Hexadecanoic acid	0.012	JN			1			1282
Octadecanoic acid	0.013	JN			1			1282
Quinoxaline, 1-oxide	0.0050	JN			1			1282
2-Fluorobiphenyl (S)	87.6 %		45-108		1		1882	1282
2-Fluorophenol (S)	67.3 %		18-113		1		1882	1282
Nitrobenzene-d5 (S)	87.9 %		41-113		1		1882	1282
Phenol-d6 (S)	53.9 %		10-113		1		1882	1282
Terphenyl-d14 (S)	78.3 %		43-122		1		1882	1282
2,4,6-Tribromophenol (S)	101 %		25-154		1		1882	1282

VOLATILES

Analysis Desc: SW-846 8260B (GCVMS Analysis) | SW-846 5030Analytical Batches

Batch: 1436 SW-846 8260B (GCVMS Analysis) on 06/30/2010 21:57 by DLY

Parameters	Results ug/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Batch Information Analysis
Benzene	ND		10	1.7	10			1436

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ANALYTICAL RESULTS

Workorder: H10060509 : Wingate Fractionating Plant | Project Number: Wingate Fractionating Plant

Lab ID: **H10060509003** | Date/Time Received: 6/22/2010 09:15 | Matrix: Water

Sample ID: **East Pond** | Date/Time Collected: 6/21/2010 14:20

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Batch Information Analysis
Ethylbenzene	ND		10	0.97	10			1436
Toluene	ND		10	1.2	10			1436
m,p-Xylene	ND		10	3.0	10			1436
o-Xylene	ND		10	1.1	10			1436
Xylenes, Total	ND		10	1.1	10			1436
4-Bromofluorobenzene (S)	97.5 %		70-130		10			1436
1,2-Dichloroethane-d4 (S)	100 %		71-140		10			1436
Toluene-d8 (S)	105 %		61-121		10			1436
Preservation pH	<2				10			1436

Analysis Desc: SM5210B

Preparation Batches:

Batch: 2697 SM5210B on 06/22/2010 11:00 by WETC

Analytical Batches:

Batch: 2698 SM5210B on 06/22/2010 11:00 by ESK

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Batch Information Analysis
BOD	5.54		2.00	0.0560	1		2697	2698

Analysis Desc: SM 5220 C

Analytical Batches:

Batch: 3354 SM 5220 C on 06/23/2010 11:30 by PAC

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Batch Information Analysis
COD	107		3.00	2.83	1			3354

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ANALYTICAL RESULTS

Workorder: H10060509 : Wingate Fractionating Plant — Project Number: Wingate Fractionating Plant

Lab ID: **H10060509004** — Date/Time Received: 6/22/2010 09:15 — Matrix: Water

Sample ID: **MW-2** — Date/Time Collected: 6/21/2010 15:45

Analysis Desc: EPA 300.0 — Analytical Batches:

Batch: 1344 EPA 300.0 on 06/22/2010 12:04 by CFS

Batch: 1345 EPA 300.0 on 06/22/2010 14:27 by CFS

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Chloride	57.1		5.00	1.26	10			1345
Nitrogen, Nitrate (As N)	0.555		0.500	0.0676	1			1344
Sulfate	107		5.00	0.435	10			1345

Analysis Desc: SM 2320 B — Analytical Batches:

Batch: 3369 SM 2320 B on 06/24/2010 12:00 by PAC

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Alkalinity, total as CaCO3	690		2.00	1.68	1			3369

WET CHEMISTRY

Analysis Desc: SM 4500-H+ B — Analytical Batches:

Batch: 2701 SM 4500-H+ B on 06/22/2010 16:30 by PAC

Parameters	Results SU	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
pH	8.55	H	0.100		1			2701

Analysis Desc: SM 2540 C — Analytical Batches:

Batch: 1667 SM 2540 C on 06/23/2010 16:25 by CFS

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Residue, Filterable (TDS)	1360		10.0	3.94	1			1667

ICP DISSOLVED METALS

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ANALYTICAL RESULTS

Workorder: H10060509 : Wingate Fractionating Plant | Project Number: Wingate Fractionating Plant

Lab ID: **H10060509004** | Date/Time Received: 6/22/2010 09:15 | Matrix: Water

Sample ID: **MW-2** | Date/Time Collected: 6/21/2010 15:45

Analysis Desc: SW-846 6010B

Preparation Batches:

Batch: 1846 SW-846 3010A on 06/22/2010 15:30 by R_V

Analytical Batches:

Batch: 1483 SW-846 6010B on 07/03/2010 16:00 by EBG DF = 5.

Batch: 1482 SW-846 6010B on 07/04/2010 16:22 by EBG DF = 1.

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Arsenic	0.00800		0.00500	0.00140	1		1846	1482
Barium	0.210		0.00500	0.000470	1		1846	1482
Cadmium	ND		0.00500	0.000170	1		1846	1482
Calcium	13.2		0.100	0.0171	1		1846	1482
Chromium	ND		0.00500	0.000460	1		1846	1482
Iron	0.180		0.0200	0.00640	1		1846	1482
Lead	ND		0.00500	0.000700	1		1846	1482
Magnesium	7.75		0.100	0.0483	1		1846	1482
Manganese	0.317		0.00500	0.000300	1		1846	1482
Selenium	ND		0.0100	0.00190	1		1846	1482
Silver	ND		0.00500	0.000670	1		1846	1482
Sodium	396		0.500	0.148	5		1846	1483

SEMIVOLATILES

Analysis Desc: SW-846 8270C

Preparation Batches:

Batch: 1882 SW-846 3510C on 06/23/2010 12:50 by A_G

Batch: SW-846 3510C on

Analytical Batches:

Batch: 1282 SW-846 8270C on 06/29/2010 01:15 by SBG

Parameters	Results ug/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Acenaphthene	ND		5.3	1.5	1		1882	1282
Acenaphthylene	ND		5.3	1.5	1		1882	1282
Aniline	ND		5.3	2.6	1		1882	1282
Anthracene	ND		5.3	1.5	1		1882	1282
Benzo(a)anthracene	ND		5.3	1.5	1		1882	1282
Benzo(a)pyrene	ND		5.3	1.7	1		1882	1282
Benzo(b)fluoranthene	ND		5.3	1.6	1		1882	1282
Benzo(g,h,i)perylene	ND		5.3	1.6	1		1882	1282
Benzo(k)fluoranthene	ND		5.3	1.8	1		1882	1282
Benzoic acid	ND		26	4.1	1		1882	1282
Benzyl alcohol	ND		5.3	1.3	1		1882	1282

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ANALYTICAL RESULTS

Workorder: H10060509 : Wingate Fractionating Plant | Project Number: Wingate Fractionating Plant

Lab ID: **H10060509004** | Date/Time Received: 6/22/2010 09:15 | Matrix: Water

Sample ID: **MW-2** | Date/Time Collected: 6/21/2010 15:45

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Batch Information Analysis
Bis(2-Chloroethoxy)methane	ND		5.3	2.4	1		1882	1282
Bis(2-Chloroethyl)ether	ND		5.3	1.7	1		1882	1282
bis(2-Chloroisopropyl)ether	ND		5.3	1.7	1		1882	1282
bis(2-Ethylhexyl)phthalate	ND		5.3	1.7	1		1882	1282
4-Bromophenyl phenyl ether	ND		5.3	1.6	1		1882	1282
Butyl benzyl phthalate	ND		5.3	1.6	1		1882	1282
Carbazole	ND		5.3	1.6	1		1882	1282
4-Chloro-3-methylphenol	ND		5.3	1.4	1		1882	1282
4-Chloroaniline	ND		5.3	1.4	1		1882	1282
2-Chloronaphthalene	ND		5.3	1.7	1		1882	1282
2-Chlorophenol	ND		5.3	1.4	1		1882	1282
4-Chlorophenyl phenyl ether	ND		5.3	1.8	1		1882	1282
Chrysene	ND		5.3	1.6	1		1882	1282
Cresols, Total	ND		5.3	1.4	1		1882	1282
Di-n-butyl phthalate	ND		5.3	1.7	1		1882	1282
Di-n-octyl phthalate	ND		5.3	1.7	1		1882	1282
Dibenz(a,h)anthracene	ND		5.3	1.5	1		1882	1282
Dibenzofuran	ND		5.3	1.5	1		1882	1282
1,3-Dichlorobenzene	ND		5.3	1.5	1		1882	1282
1,2-Dichlorobenzene	ND		5.3	1.5	1		1882	1282
1,4-Dichlorobenzene	ND		5.3	1.5	1		1882	1282
2,4-Dichlorophenol	ND		5.3	1.3	1		1882	1282
Diethyl phthalate	ND		5.3	1.6	1		1882	1282
Dimethyl phthalate	ND		5.3	1.6	1		1882	1282
2,4-Dimethylphenol	ND		5.3	1.5	1		1882	1282
4,6-Dinitro-2-methylphenol	ND		26	4.3	1		1882	1282
2,4-Dinitrophenol	ND		26	4.4	1		1882	1282
2,6-Dinitrotoluene	ND		5.3	1.5	1		1882	1282
2,4-Dinitrotoluene	ND		5.3	1.3	1		1882	1282
Diphenylamine	ND		11	2.1	1		1882	1282
1,2-Diphenylhydrazine	ND		11	4.2	1		1882	1282
Fluoranthene	ND		5.3	1.5	1		1882	1282
Fluorene	ND		5.3	1.5	1		1882	1282
Hexachlorobenzene	ND		5.3	1.6	1		1882	1282
Hexachlorobutadiene	ND		5.3	1.6	1		1882	1282
Hexachlorocyclopentadiene	ND		5.3	1.1	1		1882	1282
Hexachloroethane	ND		5.3	1.4	1		1882	1282
Indeno(1,2,3-cd)pyrene	ND		5.3	1.5	1		1882	1282
Isophorone	ND		5.3	1.4	1		1882	1282
2-Methylnaphthalene	ND		5.3	1.5	1		1882	1282
2-Methylphenol (o-Cresol)	ND		5.3	1.4	1		1882	1282

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ANALYTICAL RESULTS

Workorder: H10060509 : Wingate Fractionating Plant | Project Number: Wingate Fractionating Plant

Lab ID: **H10060509004** | Date/Time Received: 6/22/2010 09:15 | Matrix: Water

Sample ID: **MW-2** | Date/Time Collected: 6/21/2010 15:45

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Batch Information Analysis
3 & 4-Methylphenol	ND		5.3	1.4	1		1882	1282
n-Nitrosodi-n-propylamine	ND		5.3	1.6	1		1882	1282
n-Nitrosodimethylamine	ND		5.3	1.6	1		1882	1282
n-Nitrosodiphenylamine	ND		5.3	2.1	1		1882	1282
Naphthalene	ND		5.3	1.5	1		1882	1282
3-Nitroaniline	ND		26	4.0	1		1882	1282
4-Nitroaniline	ND		26	3.2	1		1882	1282
2-Nitroaniline	ND		26	4.4	1		1882	1282
Nitrobenzene	ND		5.3	1.5	1		1882	1282
2-Nitrophenol	ND		5.3	1.4	1		1882	1282
4-Nitrophenol	ND		26	5.5	1		1882	1282
Pentachlorophenol	ND		26	1.1	1		1882	1282
Phenanthrene	ND		5.3	1.6	1		1882	1282
Phenol	ND		5.3	1.6	1		1882	1282
Pyrene	ND		5.3	1.6	1		1882	1282
Pyridine	ND		5.3	2.5	1		1882	1282
1,2,4-Trichlorobenzene	ND		5.3	1.5	1		1882	1282
2,4,6-Trichlorophenol	ND		5.3	1.4	1		1882	1282
2,4,5-Trichlorophenol	ND		11	1.2	1		1882	1282
3,3'-Dichlorobenzidine	ND		11	3.1	1		1882	1282
3-Chloro-6-fluoro-pyrazine	0.086	JN			1			1282
2-Fluorobiphenyl (S)	77.4 %		45-108		1		1882	1282
2-Fluorophenol (S)	53.3 %		18-113		1		1882	1282
Nitrobenzene-d5 (S)	76.1 %		41-113		1		1882	1282
Phenol-d6 (S)	38 %		10-113		1		1882	1282
Terphenyl-d14 (S)	81.6 %		43-122		1		1882	1282
2,4,6-Tribromophenol (S)	84.7 %		25-154		1		1882	1282

VOLATILES

Analysis Desc: SW-846 8260B (GCVMS Analysis)

SW-846 5030Analytical Batches:

Batch: 1436 SW-846 8260B (GCVMS Analysis) on 06/30/2010 16:03 by DLY

Parameters	Results ug/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Batch Information Analysis
Benzene	ND		1.0	0.17	1			1436
Ethylbenzene	ND		1.0	0.097	1			1436
Toluene	ND		1.0	0.12	1			1436
m,p-Xylene	ND		1.0	0.30	1			1436
o-Xylene	ND		1.0	0.11	1			1436
Xylenes, Total	ND		1.0	0.11	1			1436

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ANALYTICAL RESULTS

Workorder: H10060509 : Wingate Fractionating Plant — Project Number: Wingate Fractionating Plant

Lab ID: **H10060509004** — Date/Time Received: 6/22/2010 09:15 — Matrix: Water

Sample ID: **MW-2** — Date/Time Collected: 6/21/2010 15:45

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
4-Bromofluorobenzene (S)	95.5 %		70-130		1			1436
1,2-Dichloroethane-d4 (S)	97.8 %		71-140		1			1436
Toluene-d8 (S)	104 %		61-121		1			1436
Preservation pH	<2				1			1436

Analysis Desc: SM5210B

Preparation Batches:

Batch: 2697 SM5210B on 06/22/2010 11:00 by WETC

Analytical Batches:

Batch: 2698 SM5210B on 06/22/2010 11:00 by ESK

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
BOD	ND		2.00	0.0560	1		2697	2698

Analysis Desc: SM 5220 C

Analytical Batches:

Batch: 3354 SM 5220 C on 06/23/2010 11:30 by PAC

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
COD	9.52		3.00	2.83	1			3354

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ANALYTICAL RESULTS

Workorder: H10060509 : Wingate Fractionating Plant | Project Number: Wingate Fractionating Plant

Lab ID: **H10060509005** | Date/Time Received: 6/22/2010 09:15 | Matrix: Water

Sample ID: **Trip Blank** | Date/Time Collected: 6/21/2010 16:40

VOLATILES

Analysis Desc: SW-846 8260B (GCVMS Analysis)

SW-846 5030Analytical Batches:

Batch: 1436 SW-846 8260B (GCVMS Analysis) on 06/30/2010 15:40 by DLY

Parameters	Results ug/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Benzene	ND		1.0	0.17	1			1436
Ethylbenzene	ND		1.0	0.097	1			1436
Toluene	ND		1.0	0.12	1			1436
m,p-Xylene	ND		1.0	0.30	1			1436
o-Xylene	ND		1.0	0.11	1			1436
Xylenes, Total	ND		1.0	0.11	1			1436
4-Bromofluorobenzene (S)	98.7 %		70-130		1			1436
1,2-Dichloroethane-d4 (S)	101 %		71-140		1			1436
Toluene-d8 (S)	104 %		61-121		1			1436
Preservation pH	<2				1			1436

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QUALITY CONTROL DATA

Workorder: H10060509 : Wingate Fractionating Plant — Project Number: Wingate Fractionating Plant

QC Batch: DIGM/1846 — Analysis Method: SW-846 6010B

QC Batch Method: SW-846 3010A — Preparation: 06/22/2010 15:30 by R_V

Associated Lab Samples: H10060509001 H10060509002 H10060509003 H10060509004

METHOD BLANK: 52373

Analysis Date/Time Analyst: 07/04/2010 16:11 EBG

Parameter	Units	Blank Result	Qualifiers	Reporting Limit
Arsenic	mg/l	ND		0.00500
Barium	mg/l	ND		0.00500
Cadmium	mg/l	ND		0.00500
Calcium	mg/l	ND		0.100
Chromium	mg/l	ND		0.00500
Iron	mg/l	ND		0.0200
Lead	mg/l	ND		0.00500
Magnesium	mg/l	ND		0.100
Manganese	mg/l	ND		0.00500
Selenium	mg/l	ND		0.0100
Silver	mg/l	ND		0.00500

Analysis Date/Time Analyst: 07/03/2010 15:48 EBG

Parameter	Units	Blank Result	Qualifiers	Reporting Limit
Sodium	mg/l	ND		0.100

LABORATORY CONTROL SAMPLE: 52374

Analysis Date/Time Analyst: 07/04/2010 16:17 EBG

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
Arsenic	mg/l	0.10	0.089	89.0	80-120
Barium	mg/l	0.10	0.0931	93.1	80-120
Cadmium	mg/l	0.10	0.0883	88.3	80-120
Calcium	mg/l	1.0	0.9245	92.4	80-120
Chromium	mg/l	0.10	0.0922	92.2	80-120
Iron	mg/l	1.0	0.9205	92.0	80-120
Lead	mg/l	0.10	0.0896	89.6	80-120
Magnesium	mg/l	1.0	0.912	91.2	80-120
Manganese	mg/l	0.10	0.0927	92.7	80-120
Selenium	mg/l	0.10	0.0872	87.2	80-120
Silver	mg/l	0.10	0.0998	99.8	80-120

QC results presented in the QC Control Data 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. Also, MS/MSD % recoveries are calculated by the SPL LIMS using any detected value greater than the MDL.

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QUALITY CONTROL DATA

Workorder: H10060509 : Wingate Fractionating Plant — Project Number: Wingate Fractionating Plant

LABORATORY CONTROL SAMPLE: 52374

Analysis Date/Time Analyst: 07/03/2010 15:54 EBG

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
Sodium	mg/l	1.0	1.023	102	80-120

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 52375 52376 Original: H10060509004

MS Analysis Date/Time Analyst: 07/04/2010 16:29 EBG

MSD Analysis Date/Time Analyst: 07/04/2010 16:35 EBG

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Arsenic	mg/l	0.008	0.10	0.1087	0.1093	101	101	75-125	0.6	20
Barium	mg/l	0.21	0.10	0.307	0.3099	96.8	99.7	75-125	0.9	20
Cadmium	mg/l	ND	0.10	0.0944	0.0945	94.4	94.5	75-125	0.1	20
Calcium	mg/l	13.2	1.0	14.09	14.35	NC	NC	75-125	NC	20
Chromium	mg/l	0.0004	0.10	0.0979	0.099	97.5	98.6	75-125	1.1	20
Iron	mg/l	0.18	1.0	1.12	1.166	94.0	98.6	75-125	4.0	20
Lead	mg/l	ND	0.10	0.093	0.0939	93.0	93.9	75-125	1.0	20
Magnesium	mg/l	7.75	1.0	8.69	8.949	NC	NC	75-125	NC	20
Manganese	mg/l	0.317	0.10	0.4116	0.4198	94.8	103	75-125	2.0	20
Selenium	mg/l	ND	0.10	0.0967	0.0963	96.7	96.3	75-125	0.4	20
Silver	mg/l	ND	0.10	0.1011	0.1004	101	100	75-125	0.7	20

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 52375 52376 Original: H10060509004

MS Analysis Date/Time Analyst: 07/03/2010 16:06 EBG

MSD Analysis Date/Time Analyst: 07/03/2010 16:12 EBG

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Sodium	mg/l	396	1.0	390.0	393.3	NC	NC	75-125	NC	20

QC results presented in the QC Control Data 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. Also, MS/MSD % recoveries are calculated by the SPL LIMS using any detected value greater than the MDL.

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QUALITY CONTROL DATA

Workorder: H10060509 : Wingate Fractionating Plant — Project Number: Wingate Fractionating Plant

QC Batch: WCSH/2697 — Analysis Method: SM5210B

QC Batch Method: SM5210B — Preparation: 06/22/2010 11:00 by WETC

Associated Lab Samples: H10060498001, H10060499002, H10060506003, H10060506004, H10060507001, H10060508002, H10060509001, H10060509002, H10060509003, H10060509004, H10060510004, H10060510005, H10060519004

METHOD BLANK: 52418

Analysis Date/Time Analyst: 06/22/2010 11:00 ESK

Parameter	Units	Blank Result	Qualifiers	Reporting Limit
BOD	mg/l	ND		2.00

LABORATORY CONTROL SAMPLE: 52419

Analysis Date/Time Analyst: 06/22/2010 11:00 ESK

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
BOD	mg/l	198	190.5	96.2	83.7-114

SAMPLE DUPLICATE: 52420 — Original: H10060499002

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	DF
WET CHEMISTRY						1.25
BOD	mg/l	ND	ND	NC	20	1.25

SAMPLE DUPLICATE: 52421 — Original: H10060510005

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	DF
WET CHEMISTRY						2
BOD	mg/l	6.04	6.14	1.6	20	2

QC results presented in the QC Control Data 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. Also, MS/MSD % recoveries are calculated by the SPL LIMS using any detected value greater than the MDL.

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QUALITY CONTROL DATA

Workorder: H10060509 : Wingate Fractionating Plant — Project Number: Wingate Fractionating Plant

QC Batch: WCSH/2701 — Analysis Method: SM 4500-H+ B

QC Batch Method: SM 4500-H+ B

Associated Lab Samples: H10060509001 H10060509002 H10060509003 H10060509004

LABORATORY CONTROL SAMPLE: 52429

Analysis Date/Time Analyst: 06/22/2010 16:30 PAC

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
pH	SU	7	7.05	101	98-102

SAMPLE DUPLICATE: 52430 — Original: H10060509004

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	DF
WET CHEMISTRY						1
pH	SU	8.55	8.56	0.1	5	1

QC results presented in the QC Control Data 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. Also, MS/MSD % recoveries are calculated by the SPL LIMS using any detected value greater than the MDL.

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QUALITY CONTROL DATA

Workorder: H10060509 : Wingate Fractionating Plant — Project Number: Wingate Fractionating Plant

QC Batch: IC/1345 — Analysis Method: EPA 300.0

QC Batch Method: EPA 300.0

Associated Lab Samples: H10060502001 H10060503001 H10060509001 H10060509002 H10060509003 H10060509004

METHOD BLANK: 52473

Analysis Date/Time Analyst: 06/22/2010 09:50 CFS

Parameter	Units	Blank Result	Qualifiers	Reporting Limit
Sulfate	mg/l	ND		0.500
Chloride	mg/l	ND		0.500

LABORATORY CONTROL SAMPLE & LCSD: 52474 52475

LCS Analysis Date/Time Analyst: 06/22/2010 10:06 CFS

LCSD Analysis Date/Time 06/22/2010 19:01 CFS

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD
Sulfate	mg/l	10	10.19	9.647	102	96.5	85-115	5.5	20
Chloride	mg/l	10	9.758	9.462	97.6	94.6	85-115	3.1	20

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 52476 52477 Original: H10060502001

MS Analysis Date/Time Analyst: 06/22/2010 17:40 CFS

MSD Analysis Date/Time Analyst: 06/22/2010 18:29 CFS

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Sulfate	mg/l	2230	1000	3305	3216	108	99.1	80-120	2.7	20
Chloride	mg/l	491	1000	1439	1390	94.8	89.9	80-120	3.5	20

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QUALITY CONTROL DATA

Workorder: H10060509 : Wingate Fractionating Plant — Project Number: Wingate Fractionating Plant

QC Batch: EXTO/1882 — Analysis Method: SW-846 8270C

QC Batch Method: SW-846 3510C — Preparation: 06/23/2010 12:43 by A_G

Associated Lab Samples: H10060509001 H10060509002 H10060509003 H10060509004

METHOD BLANK: 52573

Analysis Date/Time Analyst: 06/28/2010 19:23 SBG

Parameter	Units	Blank Result	Qualifiers	Reporting Limit
Acenaphthene	ug/l	ND		5.0
Acenaphthylene	ug/l	ND		5.0
Aniline	ug/l	ND		5.0
Anthracene	ug/l	ND		5.0
Benzo(a)anthracene	ug/l	ND		5.0
Benzo(a)pyrene	ug/l	ND		5.0
Benzo(b)fluoranthene	ug/l	ND		5.0
Benzo(g,h,i)perylene	ug/l	ND		5.0
Benzo(k)fluoranthene	ug/l	ND		5.0
Benzoic acid	ug/l	ND		25
Benzyl alcohol	ug/l	ND		5.0
Bis(2-Chloroethoxy)methane	ug/l	ND		5.0
Bis(2-Chloroethyl)ether	ug/l	ND		5.0
bis(2-Chloroisopropyl)ether	ug/l	ND		5.0
bis(2-Ethylhexyl)phthalate	ug/l	ND		5.0
4-Bromophenyl phenyl ether	ug/l	ND		5.0
Butyl benzyl phthalate	ug/l	ND		5.0
Carbazole	ug/l	ND		5.0
4-Chloro-3-methylphenol	ug/l	ND		5.0
4-Chloroaniline	ug/l	ND		5.0
2-Chloronaphthalene	ug/l	ND		5.0
2-Chlorophenol	ug/l	ND		5.0
4-Chlorophenyl phenyl ether	ug/l	ND		5.0
Chrysene	ug/l	ND		5.0
Cresols, Total	ug/l	ND		5.0
Di-n-butyl phthalate	ug/l	ND		5.0
Di-n-octyl phthalate	ug/l	ND		5.0
Dibenz(a,h)anthracene	ug/l	ND		5.0
Dibenzofuran	ug/l	ND		5.0
1,3-Dichlorobenzene	ug/l	ND		5.0
1,2-Dichlorobenzene	ug/l	ND		5.0
1,4-Dichlorobenzene	ug/l	ND		5.0
2,4-Dichlorophenol	ug/l	ND		5.0
Diethyl phthalate	ug/l	ND		5.0
Dimethyl phthalate	ug/l	ND		5.0
2,4-Dimethylphenol	ug/l	ND		5.0
4,6-Dinitro-2-methylphenol	ug/l	ND		25
2,4-Dinitrophenol	ug/l	ND		25
2,6-Dinitrotoluene	ug/l	ND		5.0
2,4-Dinitrotoluene	ug/l	ND		5.0

QC results presented in the QC Control Data 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. Also, MS/MSD % recoveries are calculated by the SPL LIMS using any detected value greater than the MDL.

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QUALITY CONTROL DATA

Workorder: H10060509 : Wingate Fractionating Plant — Project Number: Wingate Fractionating Plant

METHOD BLANK: 52573

Analysis Date/Time Analyst: 06/28/2010 19:23 SBG

Parameter	Units	Blank Result	Qualifiers	Reporting Limit
Diphenylamine	ug/l	ND		10
1,2-Diphenylhydrazine	ug/l	ND		10
Fluoranthene	ug/l	ND		5.0
Fluorene	ug/l	ND		5.0
Hexachlorobenzene	ug/l	ND		5.0
Hexachlorobutadiene	ug/l	ND		5.0
Hexachlorocyclopentadiene	ug/l	ND		5.0
Hexachloroethane	ug/l	ND		5.0
Indeno(1,2,3-cd)pyrene	ug/l	ND		5.0
Isophorone	ug/l	ND		5.0
2-Methylnaphthalene	ug/l	ND		5.0
2-Methylphenol (o-Cresol)	ug/l	ND		5.0
3 & 4-Methylphenol	ug/l	ND		5.0
n-Nitrosodi-n-propylamine	ug/l	ND		5.0
n-Nitrosodimethylamine	ug/l	ND		5.0
n-Nitrosodiphenylamine	ug/l	ND		5.0
Naphthalene	ug/l	ND		5.0
3-Nitroaniline	ug/l	ND		25
4-Nitroaniline	ug/l	ND		25
2-Nitroaniline	ug/l	ND		25
Nitrobenzene	ug/l	ND		5.0
2-Nitrophenol	ug/l	ND		5.0
4-Nitrophenol	ug/l	ND		25
Pentachlorophenol	ug/l	ND		25
Phenanthrene	ug/l	ND		5.0
Phenol	ug/l	ND		5.0
Pyrene	ug/l	ND		5.0
Pyridine	ug/l	ND		5.0
1,2,4-Trichlorobenzene	ug/l	ND		5.0
2,4,6-Trichlorophenol	ug/l	ND		5.0
2,4,5-Trichlorophenol	ug/l	ND		10
3,3'-Dichlorobenzidine	ug/l	ND		10
2-Fluorobiphenyl (S)	%	74.2		45-108
2-Fluorophenol (S)	%	57.1		18-113
Nitrobenzene-d5 (S)	%	75.5		41-113
Phenol-d6 (S)	%	40.4		10-113
Terphenyl-d14 (S)	%	83.3		43-122
2,4,6-Tribromophenol (S)	%	77.3		25-154

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QUALITY CONTROL DATA

Workorder: H10060509 : Wingate Fractionating Plant — Project Number: Wingate Fractionating Plant

LABORATORY CONTROL SAMPLE & LCSD: 52574 52575

LCS Analysis Date/Time Analyst: 06/28/2010 18:11 SBG

LCSD Analysis Date/Time 06/28/2010 18:47 SBG

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD
Acenaphthene	ug/l	25	22.4	22.7	89.0	91.0	52-117	1.6	30
Acenaphthylene	ug/l	25	23.0	23.2	92.0	93.0	53-117	1.3	30
Aniline	ug/l	50	41.3	40.8	83.0	82.0	47-106	1.1	30
Anthracene	ug/l	25	22.8	23.6	91.0	95.0	49-126	3.9	30
Benzo(a)anthracene	ug/l	25	22.9	24.0	92.0	96.0	53-121	4.5	30
Benzo(a)pyrene	ug/l	25	18.7	19.8	75.0	79.0	47-100	5.7	30
Benzo(b)fluoranthene	ug/l	25	20.1	23.3	80.0	93.0	52-113	15.0	30
Benzo(g,h,i)perylene	ug/l	25	20.8	22.2	83.0	89.0	52-121	6.3	30
Benzo(k)fluoranthene	ug/l	25	23.0	22.2	92.0	89.0	54-117	3.5	30
Benzoic acid	ug/l	25	ND	ND	89.0	91.0	10-133	2.7	30
Benzyl alcohol	ug/l	25	23.0	23.3	92.0	93.0	40-127	1.3	30
Bis(2-Chloroethoxy)methane	ug/l	25	20.4	20.4	82.0	82.0	47-113	0.2	30
Bis(2-Chloroethyl)ether	ug/l	25	22.8	22.0	91.0	88.0	48-112	3.6	30
bis(2-Chloroisopropyl)ether	ug/l	25	22.4	22.0	90.0	88.0	50-150	2.3	30
bis(2-Ethylhexyl)phthalate	ug/l	25	22.2	23.9	89.0	96.0	42-139	7.2	30
4-Bromophenyl phenyl ether	ug/l	25	22.6	23.6	90.0	94.0	53-121	4.3	30
Butyl benzyl phthalate	ug/l	25	23.6	25.3	95.0	100	40-139	6.7	30
Carbazole	ug/l	25	21.6	22.8	86.0	91.0	47-123	5.6	30
4-Chloro-3-methylphenol	ug/l	25	21.6	22.6	86.0	90.0	49-120	4.5	30
4-Chloroaniline	ug/l	25	22.4	23.2	90.0	93.0	54-116	3.5	30
2-Chloronaphthalene	ug/l	25	23.0	23.0	92.0	92.0	52-118	0.2	30
2-Chlorophenol	ug/l	25	22.0	21.8	88.0	87.0	50-115	0.5	30
4-Chlorophenyl phenyl ether	ug/l	25	22.8	23.8	91.0	95.0	54-116	4.3	30
Chrysene	ug/l	25	22.4	23.6	89.0	94.0	53-117	5.2	30
Cresols, Total	ug/l	50	45.7	47.0	91.0	94.0	44-132	2.8	30
Di-n-butyl phthalate	ug/l	25	23.1	24.9	92.0	100	42-141	7.5	30
Di-n-octyl phthalate	ug/l	25	21.7	22.7	87.0	91.0	40-135	4.5	30
Dibenz(a,h)anthracene	ug/l	25	20.8	22.2	83.0	89.0	49-120	6.5	30
Dibenzofuran	ug/l	25	23.0	23.5	92.0	94.0	55-119	2.2	30
1,3-Dichlorobenzene	ug/l	25	22.0	20.1	88.0	80.0	49-106	8.8	30
1,2-Dichlorobenzene	ug/l	25	22.4	20.7	89.0	83.0	50-109	7.7	30
1,4-Dichlorobenzene	ug/l	25	21.9	20.0	88.0	80.0	48-106	8.8	30
2,4-Dichlorophenol	ug/l	25	21.4	22.4	85.0	90.0	50-110	5.0	30
Diethyl phthalate	ug/l	25	22.0	22.8	88.0	91.0	45-129	4.0	30
Dimethyl phthalate	ug/l	25	22.8	23.8	91.0	95.0	52-122	4.5	30
2,4-Dimethylphenol	ug/l	25	22.3	22.2	89.0	89.0	50-120	0.7	30
4,6-Dinitro-2-methylphenol	ug/l	25	ND	ND	73.0	75.0	23-127	3.0	30
2,4-Dinitrophenol	ug/l	25	ND	ND	74.0	74.0	10-122	0.3	30
2,6-Dinitrotoluene	ug/l	25	23.0	23.5	92.0	94.0	48-127	1.9	30
2,4-Dinitrotoluene	ug/l	25	22.8	23.9	91.0	96.0	50-129	4.7	30
Diphenylamine	ug/l	50	48.8	50.5	98.0	100	62-136	3.3	30
1,2-Diphenylhydrazine	ug/l	25	23.6	24.2	94.0	97.0	40-142	2.7	30
Fluoranthene	ug/l	25	22.8	23.7	91.0	95.0	49-132	4.1	30

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QUALITY CONTROL DATA

Workorder: H10060509 : Wingate Fractionating Plant — Project Number: Wingate Fractionating Plant

LABORATORY CONTROL SAMPLE & LCSD: 52574 52575

LCS Analysis Date/Time Analyst: 06/28/2010 18:11 SBG

LCSD Analysis Date/Time 06/28/2010 18:47 SBG

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD
Fluorene	ug/l	25	22.6	23.5	90.0	94.0	54-119	3.9	30
Hexachlorobenzene	ug/l	25	21.8	22.7	87.0	91.0	53-117	4.0	30
Hexachlorobutadiene	ug/l	25	21.2	20.2	85.0	81.0	49-106	5.1	30
Hexachlorocyclopentadiene	ug/l	25	19.4	18.6	78.0	74.0	17-105	4.5	30
Hexachloroethane	ug/l	25	22.0	19.8	88.0	79.0	42-110	11.0	30
Indeno(1,2,3-cd)pyrene	ug/l	25	21.0	22.2	84.0	89.0	50-129	5.1	30
Isophorone	ug/l	25	26.2	26.4	100	110	52-134	0.8	30
2-Methylnaphthalene	ug/l	25	21.7	22.2	87.0	89.0	52-116	2.1	30
2-Methylphenol (o-Cresol)	ug/l	25	22.8	23.1	91.0	92.0	49-118	1.3	30
3 & 4-Methylphenol	ug/l	25	22.9	23.9	92.0	96.0	44-132	4.3	30
n-Nitrosodi-n-propylamine	ug/l	25	23.4	23.8	94.0	95.0	47-118	1.3	30
n-Nitrosodimethylamine	ug/l	25	22.8	21.9	91.0	88.0	32-121	4.2	30
n-Nitrosodiphenylamine	ug/l	50	48.8	50.5	98.0	100	62-136	3.3	30
Naphthalene	ug/l	25	22.0	21.6	88.0	87.0	53-111	1.8	30
3-Nitroaniline	ug/l	25	ND	ND	84.0	91.0	31-114	7.8	30
4-Nitroaniline	ug/l	25	ND	ND	86.0	89.0	41-118	3.4	30
2-Nitroaniline	ug/l	25	ND	ND	91.0	96.0	43-127	5.6	30
Nitrobenzene	ug/l	25	22.0	21.3	88.0	85.0	47-116	3.0	30
2-Nitrophenol	ug/l	25	21.1	20.9	84.0	84.0	29-182	1.0	30
4-Nitrophenol	ug/l	25	ND	ND	86.0	91.0	21-130	5.0	30
Pentachlorophenol	ug/l	25	ND	ND	70.0	72.0	52-115	2.3	30
Phenanthrene	ug/l	25	23.8	24.6	95.0	98.0	49-124	3.3	30
Phenol	ug/l	25	24.6	25.0	98.0	100	37-128	1.6	30
Pyrene	ug/l	25	22.5	23.9	90.0	96.0	52-122	6.0	30
Pyridine	ug/l	50	39.4	36.6	79.0	73.0	37-99	7.5	30
1,2,4-Trichlorobenzene	ug/l	25	22.3	21.2	89.0	85.0	52-109	5.1	30
2,4,6-Trichlorophenol	ug/l	25	22.6	22.7	90.0	91.0	38-150	0.7	30
2,4,5-Trichlorophenol	ug/l	25	22.8	23.0	91.0	92.0	48-120	1.1	30
3,3'-Dichlorobenzidine	ug/l	25	19.6	20.9	79.0	84.0	30-104	6.2	30
2-Fluorobiphenyl (S)	%				85.1	81.2	45-108		30
2-Fluorophenol (S)	%				68.0	61.7	18-113		30
Nitrobenzene-d5 (S)	%				87.0	82.2	41-113		30
Phenol-d6 (S)	%				50.8	46.4	10-113		30
Terphenyl-d14 (S)	%				85.5	88.4	43-122		30
2,4,6-Tribromophenol (S)	%				94.0	94.0	25-154		30

QC results presented in the QC Control Data 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. Also, MS/MSD % recoveries are calculated by the SPL LIMS using any detected value greater than the MDL.

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QUALITY CONTROL DATA

Workorder: H10060509 : Wingate Fractionating Plant — Project Number: Wingate Fractionating Plant

QC Batch: WETC/3354 — Analysis Method: SM 5220 C

QC Batch Method: SM 5220 C

Associated Lab Samples: H10060502001, H10060503001, H10060509001, H10060509003, H10060509004, H10060517001, H10060528001, H10060539001

METHOD BLANK: 52673

Analysis Date/Time Analyst: 06/23/2010 11:30 PAC

Parameter	Units	Blank Result	Qualifiers	Reporting Limit
COD	mg/l	ND		3.00

LABORATORY CONTROL SAMPLE: 52674

Analysis Date/Time Analyst: 06/23/2010 11:30 PAC

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
COD	mg/l	104	95.24	91.8	85-115

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 52675 52676 Original: H10060517001

MS Analysis Date/Time Analyst: 06/23/2010 11:30 PAC

MSD Analysis Date/Time Analyst: 06/23/2010 11:30 PAC

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
COD	mg/l	35.7	50	76.19	76.19	80.9	80.9	80-120	0.0	10

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QUALITY CONTROL DATA

Workorder: H10060509 : Wingate Fractionating Plant — Project Number: Wingate Fractionating Plant

QC Batch: WETS/1667 — Analysis Method: SM 2540 C

QC Batch Method: SM 2540 C

Associated Lab Samples: H10060509001 H10060509002 H10060509003 H10060509004 H10060539001

METHOD BLANK: 52690

Analysis Date/Time Analyst: 06/23/2010 16:25 CFS

Parameter	Units	Blank Result	Qualifiers	Reporting Limit
Residue, Filterable (TDS)	mg/l	ND		10.0

LABORATORY CONTROL SAMPLE & LCSD: 52691 52692

LCS Analysis Date/Time Analyst: 06/23/2010 16:25 CFS

LCSD Analysis Date/Time 06/23/2010 16:25 CFS

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD
Residue, Filterable (TDS)	mg/l	200	199.0	201.0	99.5	100	95-107	1.0	10

SAMPLE DUPLICATE: 52693 — Original: H10060509001

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	DF
WET CHEMISTRY						1
Residue, Filterable (TDS)	mg/l	1200	1200	0.1	10	1

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QUALITY CONTROL DATA

Workorder: H10060509 : Wingate Fractionating Plant — Project Number: Wingate Fractionating Plant

QC Batch: WETC/3363 — Analysis Method: SM 5220 C

QC Batch Method: SM 5220 C

Associated Lab Samples: H10060509002 H10060540001 H10060556001 H10060571001 H10060571002 H10060571004 H10060573001

METHOD BLANK: 52915

Analysis Date/Time Analyst: 06/24/2010 12:30 PAC

Parameter	Units	Blank Result	Qualifiers	Reporting Limit
COD	mg/l	ND		3.00

LABORATORY CONTROL SAMPLE: 52916

Analysis Date/Time Analyst: 06/24/2010 12:30 PAC

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
COD	mg/l	104	95.24	91.8	85-115

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 52917 52918 Original: H10060571004

MS Analysis Date/Time Analyst: 06/24/2010 12:30 PAC

MSD Analysis Date/Time Analyst: 06/24/2010 12:30 PAC

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
COD	mg/l	88.1	50	128.6	128.6	81.0	81.0	80-120	0.0	10

QC results presented in the QC Control Data 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. Also, MS/MSD % recoveries are calculated by the SPL LIMS using any detected value greater than the MDL.

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QUALITY CONTROL DATA

Workorder: H10060509 : Wingate Fractionating Plant — Project Number: Wingate Fractionating Plant

QC Batch: WETC/3369 — Analysis Method: SM 2320 B

QC Batch Method: SM 2320 B

Associated Lab Samples: H10060509001 H10060509002 H10060509003 H10060509004 H10060538001

METHOD BLANK: 53031

Analysis Date/Time Analyst: 06/24/2010 12:00 PAC

Parameter	Units	Blank Result	Qualifiers	Reporting Limit
Alkalinity, total as CaCO3	mg/l	ND		2.00

LABORATORY CONTROL SAMPLE: 53032

Analysis Date/Time Analyst: 06/24/2010 12:00 PAC

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
Alkalinity, total as CaCO3	mg/l	36	37.0	103	90-110

SAMPLE DUPLICATE: 53033 — Original: H10060509001

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	DF
WET CHEMISTRY						1
Alkalinity, total as CaCO3	mg/l	589	589	0.0	20	1

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QUALITY CONTROL DATA

Workorder: H10060509 : Wingate Fractionating Plant — Project Number: Wingate Fractionating Plant

QC Batch: MSV/2111 — Analysis Method: SW-846 8260B

QC Batch Method: SW-846 5030 — Preparation: 06/26/2010 00:00 by JMC

Associated Lab Samples: H10060428004 H10060509001

METHOD BLANK: 53707

Analysis Date/Time Analyst: 06/26/2010 15:07 JMC

Parameter	Units	Blank Result	Qualifiers	Reporting Limit
Benzene	ug/l	ND		1.0
Ethylbenzene	ug/l	ND		1.0
Toluene	ug/l	ND		1.0
m,p-Xylene	ug/l	ND		1.0
o-Xylene	ug/l	ND		1.0
Xylenes, Total	ug/l	ND		1.0
4-Bromofluorobenzene (S)	%	96.5		74-125
1,2-Dichloroethane-d4 (S)	%	79.3		70-130
Toluene-d8 (S)	%	104		82-118

LABORATORY CONTROL SAMPLE: 53708

Analysis Date/Time Analyst: 06/26/2010 14:40 JMC

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
Benzene	ug/l	20	17.4	87.2	74-123
Ethylbenzene	ug/l	20	20.1	101	72-127
Toluene	ug/l	20	22.0	110	74-126
m,p-Xylene	ug/l	40	40.3	101	71-129
o-Xylene	ug/l	20	20.0	99.8	74-130
Xylenes, Total	ug/l	60	60.25	100	71-130
4-Bromofluorobenzene (S)	%			100	74-125
1,2-Dichloroethane-d4 (S)	%			78.1	70-130
Toluene-d8 (S)	%			104	82-118

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 53709 53710 Original: H10060398010

MS Analysis Date/Time Analyst: 06/26/2010 17:26 JMC

MSD Analysis Date/Time Analyst: 06/26/2010 17:54 JMC

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Benzene	ug/l	1	20	17.1	16.9	85.3	84.5	70-124	1.0	20
Ethylbenzene	ug/l	1	20	20.7	20.8	103	104	35-175	0.4	20
Toluene	ug/l	1	20	21.8	22.1	109	110	70-131	1.2	20
m,p-Xylene	ug/l	1	40	40.2	41.2	101	103	35-175	2.3	20

QC results presented in the QC Control Data 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. Also, MS/MSD % recoveries are calculated by the SPL LIMS using any detected value greater than the MDL.

SPL Inc.
8880 Interchange Drive
Houston, TX 77054
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Fax: (713) 660-8975

QUALITY CONTROL DATA

Workorder: H10060509 : Wingate Fractionating Plant — Project Number: Wingate Fractionating Plant

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 53709 53710 Original: H10060398010

MS Analysis Date/Time Analyst: 06/26/2010 17:26 JMC

MSD Analysis Date/Time Analyst: 06/26/2010 17:54 JMC

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
o-Xylene	ug/l	1	20	20.5	20.7	102	104	35-175	1.2	20
Xylenes, Total	ug/l	1	60	60.67	61.87	101	103	35-175	2.0	20
4-Bromofluorobenzene (S)	%	ND				100	103	74-125		30
1,2-Dichloroethane-d4 (S)	%	ND				79.0	85.7	70-130		30
Toluene-d8 (S)	%	ND				104	106	82-118		30

QC results presented in the QC Control Data 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. Also, MS/MSD % recoveries are calculated by the SPL LIMS using any detected value greater than the MDL.

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QUALITY CONTROL DATA

Workorder: H10060509 : Wingate Fractionating Plant — Project Number: Wingate Fractionating Plant

QC Batch: GVMS/1435 — Analysis Method: SW-846 8260B (GCVMS Analysis)

QC Batch Method: SW-846 5030 — Preparation: 06/30/2010 12:44 by MSV

Associated Lab Samples: H10060509002 H10060509003 H10060509004 H10060509005

METHOD BLANK: 54420

Analysis Date/Time Analyst: 06/30/2010 14:56 DLY

Parameter	Units	Blank Result	Qualifiers	Reporting Limit
Benzene	ug/l	ND		1.0
Ethylbenzene	ug/l	ND		1.0
Toluene	ug/l	ND		1.0
m,p-Xylene	ug/l	ND		1.0
o-Xylene	ug/l	ND		1.0
Xylenes, Total	ug/l	ND		1.0
4-Bromofluorobenzene (S)	%	95.2		70-130
1,2-Dichloroethane-d4 (S)	%	92.9		71-140
Toluene-d8 (S)	%	103		61-121

LABORATORY CONTROL SAMPLE: 54421

Analysis Date/Time Analyst: 06/30/2010 13:50 DLY

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
Benzene	ug/l	20	21.5	108	70-130
Ethylbenzene	ug/l	20	21.5	108	70-130
Toluene	ug/l	20	21.8	109	73-130
m,p-Xylene	ug/l	40	44.3	111	70-130
o-Xylene	ug/l	20	22.5	112	70-130
Xylenes, Total	ug/l	60	66.81	111	70-130
4-Bromofluorobenzene (S)	%			97.8	70-130
1,2-Dichloroethane-d4 (S)	%			90.6	71-140
Toluene-d8 (S)	%			105	61-121

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 54422 54423 Original: H10060541002

MS Analysis Date/Time Analyst: 06/30/2010 20:28 DLY

MSD Analysis Date/Time Analyst: 06/30/2010 20:50 DLY

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Benzene	ug/l	ND	20	21.9	20.6	109	103	67-202	6.0	20
Ethylbenzene	ug/l	ND	20	21.0	19.6	105	98.2	49-165	6.5	20
Toluene	ug/l	ND	20	21.2	20.0	106	100	48-162	5.9	20
m,p-Xylene	ug/l	ND	40	43.1	40.1	108	100	44-167	7.1	20

QC results presented in the QC Control Data 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. Also, MS/MSD % recoveries are calculated by the SPL LIMS using any detected value greater than the MDL.

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QUALITY CONTROL DATA

Workorder: H10060509 : Wingate Fractionating Plant — Project Number: Wingate Fractionating Plant

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 54422 54423 Original: H10060541002

MS Analysis Date/Time Analyst: 06/30/2010 20:28 DLY

MSD Analysis Date/Time Analyst: 06/30/2010 20:50 DLY

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
o-Xylene	ug/l	ND	20	21.7	20.6	109	103	54-158	5.5	20
Xylenes, Total	ug/l	ND	60	64.83	60.7	108	101	44-167	6.6	20
4-Bromofluorobenzene (S)	%	ND				96.6	95.4	70-130		30
1,2-Dichloroethane-d4 (S)	%	ND				92.4	92.4	71-140		30
Toluene-d8 (S)	%	ND				105	105	61-121		30

QC results presented in the QC Control Data 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. Also, MS/MSD % recoveries are calculated by the SPL LIMS using any detected value greater than the MDL.

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Legend

(S) - Indicates analyte is a surrogate

Qualifier	Qualifier Description
*	Recovery/RPD value outside QC limits
+	DCS Concentration
B	Analyte detected in the Method Blank
C	MTBE results were not confirmed by GCMS
D	Recovery out of range due to dilution
E	Results exceed calibration range
H	Exceeds holding time
I	Estimated value, between MDL and PQL (Florida)
J	Estimated value
JN	The analysis indicates the presence of an analyte
MI	Matrix Interference
N	Recovery outside of control limits
NC	Not Calculable (Sample Duplicate)
NC	Not Calculated - Sample concentration > 4 times the spike
ND	Not Detected at reporting Limits
P	Pesticide dual column results, greater then 25%
Q	Received past holding time
TNTC	Too numerous to count
U	Not Detected at reporting Limits

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: H10060509 : Wingate Fractionating Plant | Project Number: Wingate Fractionating Plant

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
H10060509001	**MWR-1**	SW-846 3010A	DIGM/1846	SW-846 6010B	ICP/1482
H10060509002	**West Pond**	SW-846 3010A	DIGM/1846	SW-846 6010B	ICP/1482
H10060509003	**East Pond**	SW-846 3010A	DIGM/1846	SW-846 6010B	ICP/1482
H10060509004	**MW-2**	SW-846 3010A	DIGM/1846	SW-846 6010B	ICP/1482
H10060509001	**MWR-1**	SW-846 3010A	DIGM/1846	SW-846 6010B	ICP/1483
H10060509002	**West Pond**	SW-846 3010A	DIGM/1846	SW-846 6010B	ICP/1483
H10060509003	**East Pond**	SW-846 3010A	DIGM/1846	SW-846 6010B	ICP/1483
H10060509004	**MW-2**	SW-846 3010A	DIGM/1846	SW-846 6010B	ICP/1483
H10060509001	**MWR-1**	SM5210B	WCSH/2697	SM5210B	WCSH/2698
H10060509002	**West Pond**	SM5210B	WCSH/2697	SM5210B	WCSH/2698
H10060509003	**East Pond**	SM5210B	WCSH/2697	SM5210B	WCSH/2698
H10060509004	**MW-2**	SM5210B	WCSH/2697	SM5210B	WCSH/2698
H10060509001	**MWR-1**	SM 4500-H+ B	WCSH/2701		
H10060509002	**West Pond**	SM 4500-H+ B	WCSH/2701		
H10060509003	**East Pond**	SM 4500-H+ B	WCSH/2701		
H10060509004	**MW-2**	SM 4500-H+ B	WCSH/2701		
H10060509001	**MWR-1**	EPA 300.0	IC/1344		
H10060509002	**West Pond**	EPA 300.0	IC/1344		
H10060509003	**East Pond**	EPA 300.0	IC/1344		
H10060509004	**MW-2**	EPA 300.0	IC/1344		
H10060509001	**MWR-1**	EPA 300.0	IC/1345		
H10060509002	**West Pond**	EPA 300.0	IC/1345		
H10060509003	**East Pond**	EPA 300.0	IC/1345		
H10060509004	**MW-2**	EPA 300.0	IC/1345		
H10060509001	**MWR-1**	SW-846 3510C	EXTO/1882	SW-846 8270C	MSSV/1282
H10060509002	**West Pond**	SW-846 3510C	EXTO/1882	SW-846 8270C	MSSV/1282
H10060509003	**East Pond**	SW-846 3510C	EXTO/1882	SW-846 8270C	MSSV/1282
H10060509004	**MW-2**	SW-846 3510C	EXTO/1882	SW-846 8270C	MSSV/1282
H10060509001	**MWR-1**	SM 5220 C	WETC/3354		
H10060509003	**East Pond**	SM 5220 C	WETC/3354		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: H10060509 : Wingate Fractionating Plant

Project Number: Wingate Fractionating Plant

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
H10060509004	**MW-2**	SM 5220 C	WETC/3354		
H10060509001	**MWR-1**	SM 2540 C	WETS/1667		
H10060509002	**West Pond**	SM 2540 C	WETS/1667		
H10060509003	**East Pond**	SM 2540 C	WETS/1667		
H10060509004	**MW-2**	SM 2540 C	WETS/1667		
H10060509002	**West Pond**	SM 5220 C	WETC/3363		
H10060509001	**MWR-1**	SM 2320 B	WETC/3369		
H10060509002	**West Pond**	SM 2320 B	WETC/3369		
H10060509003	**East Pond**	SM 2320 B	WETC/3369		
H10060509004	**MW-2**	SM 2320 B	WETC/3369		
H10060509001	**MWR-1**	SW-846 8270C	MSSV/1282		
H10060509002	**West Pond**	SW-846 8270C	MSSV/1282		
H10060509003	**East Pond**	SW-846 8270C	MSSV/1282		
H10060509004	**MW-2**	SW-846 8270C	MSSV/1282		
H10060509001	**MWR-1**	SW-846 5030	MSV/2111	SW-846 8260B	MSV/2113
H10060509002	**West Pond**	SW-846 5030	GVMS/1435	SW-846 8260B (GCVMS Analysis)	GVMS/1436
H10060509003	**East Pond**	SW-846 5030	GVMS/1435	SW-846 8260B (GCVMS Analysis)	GVMS/1436
H10060509004	**MW-2**	SW-846 5030	GVMS/1435	SW-846 8260B (GCVMS Analysis)	GVMS/1436
H10060509005	**Trip Blank**	SW-846 5030	GVMS/1435	SW-846 8260B (GCVMS Analysis)	GVMS/1436

SPL Inc.
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Sample Receipt Checklist

WorkOrder:	H10060509	Received By	NVB
Date and Time	06/22/2010 09:15	Carrier Name:	FEDEXS
Temperature:	2.0/3.5°C	Chilled By:	Water Ice

1.	Shipping container/cooler in good condition?	YES
2.	Custody seals intact on shipping container/cooler?	YES
3.	Custody seals intact on sample bottles?	Not Present
4.	Chain of custody present?	YES
5.	Chain of custody signed when relinquished and received?	YES
6.	Chain of custody agrees with sample labels?	YES
7.	Samples in proper container/bottle?	YES
8.	Samples containers intact?	YES
9.	Sufficient sample volume for indicated test?	YES
10.	All samples received within holding time?	YES
11.	Container/Temp Blank temperature in compliance?	YES
12.	Water - VOA vials have zero headspace?	VOA Vials Not Present
13.	Water - Preservation checked upon receipt(except VOA*)?	YES

*VOA Preservation Checked After Sample Analysis

SPL Representative: Contact Date & Time:

Client Name Contacted:

Client Instructions:

SPL Inc.
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Houston, TX 77054
Phone: (713) 660-0901
Fax: (713) 660-8975

RUSH

Chain of Custody Record

H10060509

Client: Tetra Tech/ Conoco Phillips

SPL Workorder Number:

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 Matthews (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.	Cl, SO4, Nitrate	Coliform	COD	BOD	Dissolved 12 Metals- 6020/6
MWR-1	6-21-10	1300		X	X	1	3	3	3		X							
MWR-1	6-21-10	1300		X	X	4	2	1	2			X						
MWR-1	6-21-10	1300		X	X		3	1	3				X	X			X	
MW-R-1	6-21-10	1300		X	X		6	1	1									X
MW-R-1	6-21-10	1300		X	X		6	4	1							X		
West Pond	6-21-10	1235		X	X		1	3	3		X							
West Pond	6-21-10	1235		X	X		4	1	2			X						
West Pond	6-21-10	1235		X	X		3	1	3				X	X			X	
West Pond	6-21-10	1235		X	X		6	1	1									X
West Pond	6-21-10	1235		X	X		6	4	1							X		

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

Remarks: please filter and preserve metals containers

Intact? Y or N

Temperature: 2.0°

Bottle Types: 1: 3/40ml Vials 2. 1L Glass 3. 1L Plastic 4. 1L Amber Glass 5. 8oz Plastic 6. 16 oz Plastic

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

Relinquished by Sampler:	Date	Time	Received by:
Christine Matthews	6/21/10	1645	
Relinquished by:	Date	Time	Received by:
Relinquished by:	Date	Time	Received by SPL, Inc.
	6/22/10	0915	

Page 1 of 3

SPL Inc.
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Houston, TX 77054
Phone: (713) 660-0901
Fax: (713) 660-8975

Chain of Custody Record

Client: Tetra Tech/ Conoco Phillips
SPL Workorder Number: H10060509

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 Matthews (print)
Signature:

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	Dissolved 12 Metals-6020/6
East Pond	6-21-10			X	X		7	3	3		X							
East Pond	6-21-10			X	X		4	1	2			X						
East Pond	6-21-10			X	X		3	1	3				X	X			X	
East Pond	6-21-10			X	X		6	1	1									X
East Pond	6-21-10			X	X		6	4	1							X		
MW-3	6-21-10			X	X		4	3	3		X							
MW-2	6-21-10			X	X		4	1	2			X						
MW-2	6-21-10			X	X		3	1	3				X	X			X	
MW-2	6-21-10			X	X		6	1	1									X
MW-2	6-21-10			X	X		6	4	1							X		

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

Remarks: please filter and preserve metals containers
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:	6/21/10	1645	Received by:
Relinquished by:	Date	Time	Received by:
Relinquished by:	Date	Time	Received by SPL, Inc.
	6/22/10	0915	

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Report ID: H10060509_6089
Printed: 07/07/2010 13:58

SPL Inc.
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Phone: (713) 660-0901
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Chain of Custody Record

Client: Tetra Tech/ Conoco Phillips

SPL Workorder Number: H10060509

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: Richard Mathews / Christine Mathews

Signature:

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	Dissolved 12 Metals-6020/6
Trip Blank	6/21/10	1640		X	X		1	3	3		X							

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

Remarks: please filter and preserve metals containers

Intact? Y or N

Temperature: 2.0°

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: Richard Mathews	6/21/10	1645	Received by:
Relinquished by:	Date	Time	Received by:
Relinquished by:	Date	Time	Received by SPL, Inc.
	6/21/10	0915	

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Report ID: H10060509_6089
Printed: 07/07/2010 13:58

SPL Inc.
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Phone: (713) 660-0901
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Certificate of Analysis

July 8, 2010

Workorder: H10060590

Kelly Blanchard
Tetra Tech
6121 Indian School Road NE
Suite 200
Albuquerque, NM 87110

Project: Wingate Fractionating Plant

Project Number: Wingate Fractionating Plant

Site: 68 El Paso Circle, Gallup, NM

PO Number:

NELAC Cert. No.: T104704205-09-1

This Report Contains A Total Of 28 Pages

Excluding Any Attachments

SPL Inc.
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Houston, TX 77054
Phone: (713) 660-0901
Fax: (713) 660-8975

Certificate of Analysis

July 8, 2010

Workorder: H10060590

Kelly Blanchard
Tetra Tech
6121 Indian School Road NE
Suite 200
Albuquerque, NM 87110

Project: Wingate Fractionating Plant

Project Number: Wingate Fractionating Plant

Site: 68 El Paso Circle, Gallup, NM

PO Number:

NELAC Cert. No.: T104704205-09-1

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.

Your sample was received expired for pH analysis. The holding time for pH is immediate and should be performed at the time of sampling. Client is aware of the holding time and requested SPL to perform the analysis.

II: ANALYSES AND EXCEPTIONS:

SW8270C - Semivolatile Organics analysis:

Due to limited sample volume, a Matrix Spike (MS) or Matrix Spike Duplicate (MSD) was not analyzed with Batch ID: EXTO/1892. 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).

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Certificate of Analysis

July 8, 2010

Workorder: H10060590

Kelly Blanchard
Tetra Tech
6121 Indian School Road NE
Suite 200
Albuquerque, NM 87110

Project: Wingate Fractionating Plant

Project Number: Wingate Fractionating Plant

Site: 68 El Paso Circle, Gallup, NM

PO Number:

NELAC Cert. No.: T104704205-09-1

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, Senior Project Manager

Enclosures

SPL Inc.
8880 Interchange Drive
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SAMPLE SUMMARY

Workorder: H10060590 : Wingate Fractionating Plant

Project Number: Wingate Fractionating Plant

Lab ID	Sample ID	Matrix	COC ID	Date/Time Collected	Date/Time Received
H10060590001	MW-3	Water		6/23/2010 14:55	6/24/2010 12:15

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ANALYTICAL RESULTS

Workorder: H10060590 : Wingate Fractionating Plant — Project Number: Wingate Fractionating Plant

Lab ID: **H10060590001** — Date/Time Received: 6/24/2010 12:15 — Matrix: Water

Sample ID: **MW-3** — Date/Time Collected: 6/23/2010 14:55

Analysis Desc: EPA 300.0

Analytical Batches:
Batch: 1351 EPA 300.0 on 06/24/2010 16:59 by CFS
Batch: 1354 EPA 300.0 on 06/25/2010 19:03 by CFS

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Chloride	20.5		2.50	0.630	5			1354
Nitrogen, Nitrate (As N)	ND		0.500	0.0676	1			1351
Sulfate	18.8		2.50	0.218	5			1354

Analysis Desc: SM 2320 B

Analytical Batches:
Batch: 3375 SM 2320 B on 06/25/2010 13:00 by PAC

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Alkalinity, total as CaCO3	148		2.00	1.68	1			3375

Analysis Desc: SM 4500-H+ B

Analytical Batches:
Batch: 2716 SM 4500-H+ B on 06/24/2010 17:30 by PAC

Parameters	Results SU	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
pH	7.31	H	0.100		1			2716

Analysis Desc: SM 2540 C

Analytical Batches:
Batch: 1670 SM 2540 C on 06/25/2010 12:00 by CFS

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Residue, Filterable (TDS)	600		10.0	3.94	1			1670

ICP DISSOLVED METALS

Analysis Desc: SW-846 6010B

Preparation Batches:
Batch: 1856 SW-846 3010A on 06/24/2010 15:15 by R_V

Analytical Batches:
Batch: 1481 SW-846 6010B on 07/04/2010 14:29 by EBG

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Arsenic	ND		0.00500	0.00140	1		1856	1481

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ANALYTICAL RESULTS

Workorder: H10060590 : Wingate Fractionating Plant

Project Number: Wingate Fractionating Plant

Lab ID: **H10060590001**

Sample ID: **MW-3**

Date/Time Received: 6/24/2010 12:15 Matrix: Water

Date/Time Collected: 6/23/2010 14:55

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Batch Information Analysis
Barium	0.144		0.00500	0.000470	1		1856	1481
Cadmium	ND		0.00500	0.000170	1		1856	1481
Calcium	27.6		0.100	0.0171	1		1856	1481
Chromium	ND		0.00500	0.000460	1		1856	1481
Iron	ND		0.0200	0.00640	1		1856	1481
Lead	ND		0.00500	0.000700	1		1856	1481
Magnesium	13.7		0.100	0.0483	1		1856	1481
Manganese	0.480		0.00500	0.000300	1		1856	1481
Selenium	ND		0.0100	0.00190	1		1856	1481
Silver	ND		0.00500	0.000670	1		1856	1481
Sodium	162		0.100	0.0295	1		1856	1481

SEMIVOLATILES

Analysis Desc: SW-846 8270C

Preparation Batches:

Batch: 1892 SW-846 3510C on 06/25/2010 10:44 by N_M

Batch: SW-846 3510C on

Analytical Batches:

Batch: 1283 SW-846 8270C on 06/29/2010 03:35 by SBG

Parameters	Results ug/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Batch Information Analysis
Acenaphthene	ND		5.4	1.6	1		1892	1283
Acenaphthylene	ND		5.4	1.5	1		1892	1283
Aniline	ND		5.4	2.7	1		1892	1283
Anthracene	ND		5.4	1.5	1		1892	1283
Benzo(a)anthracene	ND		5.4	1.6	1		1892	1283
Benzo(a)pyrene	ND		5.4	1.7	1		1892	1283
Benzo(b)fluoranthene	ND		5.4	1.7	1		1892	1283
Benzo(g,h,i)perylene	ND		5.4	1.7	1		1892	1283
Benzo(k)fluoranthene	ND		5.4	1.9	1		1892	1283
Benzoic acid	ND		27	4.3	1		1892	1283
Benzyl alcohol	ND		5.4	1.3	1		1892	1283
Bis(2-Chloroethoxy)methane	ND		5.4	2.5	1		1892	1283
Bis(2-Chloroethyl)ether	ND		5.4	1.7	1		1892	1283
bis(2-Chloroisopropyl)ether	ND		5.4	1.7	1		1892	1283
bis(2-Ethylhexyl)phthalate	ND		5.4	1.8	1		1892	1283
4-Bromophenyl phenyl ether	ND		5.4	1.6	1		1892	1283
Butyl benzyl phthalate	ND		5.4	1.7	1		1892	1283
Carbazole	ND		5.4	1.6	1		1892	1283

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ANALYTICAL RESULTS

Workorder: H10060590 : Wingate Fractionating Plant | Project Number: Wingate Fractionating Plant

Lab ID: **H10060590001** | Date/Time Received: 6/24/2010 12:15 | Matrix: Water

Sample ID: **MW-3** | Date/Time Collected: 6/23/2010 14:55

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
4-Chloro-3-methylphenol	ND		5.4	1.5	1		1892	1283
4-Chloroaniline	ND		5.4	1.4	1		1892	1283
2-Chloronaphthalene	ND		5.4	1.7	1		1892	1283
2-Chlorophenol	ND		5.4	1.5	1		1892	1283
4-Chlorophenyl phenyl ether	ND		5.4	1.8	1		1892	1283
Chrysene	ND		5.4	1.6	1		1892	1283
Cresols, Total	ND		5.4	1.5	1		1892	1283
Di-n-butyl phthalate	ND		5.4	1.7	1		1892	1283
Di-n-octyl phthalate	ND		5.4	1.7	1		1892	1283
Dibenz(a,h)anthracene	ND		5.4	1.5	1		1892	1283
Dibenzofuran	ND		5.4	1.6	1		1892	1283
1,3-Dichlorobenzene	ND		5.4	1.5	1		1892	1283
1,2-Dichlorobenzene	ND		5.4	1.5	1		1892	1283
1,4-Dichlorobenzene	ND		5.4	1.5	1		1892	1283
2,4-Dichlorophenol	ND		5.4	1.4	1		1892	1283
Diethyl phthalate	ND		5.4	1.6	1		1892	1283
Dimethyl phthalate	ND		5.4	1.7	1		1892	1283
2,4-Dimethylphenol	ND		5.4	1.6	1		1892	1283
4,6-Dinitro-2-methylphenol	ND		27	4.5	1		1892	1283
2,4-Dinitrophenol	ND		27	4.5	1		1892	1283
2,6-Dinitrotoluene	ND		5.4	1.6	1		1892	1283
2,4-Dinitrotoluene	ND		5.4	1.3	1		1892	1283
Diphenylamine	ND		11	2.2	1		1892	1283
1,2-Diphenylhydrazine	ND		11	4.3	1		1892	1283
Fluoranthene	ND		5.4	1.5	1		1892	1283
Fluorene	ND		5.4	1.5	1		1892	1283
Hexachlorobenzene	ND		5.4	1.6	1		1892	1283
Hexachlorobutadiene	ND		5.4	1.6	1		1892	1283
Hexachlorocyclopentadiene	ND		5.4	1.2	1		1892	1283
Hexachloroethane	ND		5.4	1.4	1		1892	1283
Indeno(1,2,3-cd)pyrene	ND		5.4	1.5	1		1892	1283
Isophorone	ND		5.4	1.5	1		1892	1283
2-Methylnaphthalene	ND		5.4	1.6	1		1892	1283
2-Methylphenol (o-Cresol)	ND		5.4	1.5	1		1892	1283
3 & 4-Methylphenol	ND		5.4	1.5	1		1892	1283
n-Nitrosodi-n-propylamine	ND		5.4	1.7	1		1892	1283
n-Nitrosodimethylamine	ND		5.4	1.6	1		1892	1283
n-Nitrosodiphenylamine	ND		5.4	2.2	1		1892	1283
Naphthalene	ND		5.4	1.6	1		1892	1283
3-Nitroaniline	ND		27	4.2	1		1892	1283
4-Nitroaniline	ND		27	3.3	1		1892	1283

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ANALYTICAL RESULTS

Workorder: H10060590 : Wingate Fractionating Plant | Project Number: Wingate Fractionating Plant

Lab ID: **H10060590001** | Date/Time Received: 6/24/2010 12:15 | Matrix: Water

Sample ID: **MW-3** | Date/Time Collected: 6/23/2010 14:55

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Batch Information Analysis
2-Nitroaniline	ND		27	4.6	1		1892	1283
Nitrobenzene	ND		5.4	1.6	1		1892	1283
2-Nitrophenol	ND		5.4	1.5	1		1892	1283
4-Nitrophenol	ND		27	5.6	1		1892	1283
Pentachlorophenol	ND		27	1.2	1		1892	1283
Phenanthrene	ND		5.4	1.7	1		1892	1283
Phenol	ND		5.4	1.7	1		1892	1283
Pyrene	ND		5.4	1.7	1		1892	1283
Pyridine	ND		5.4	2.6	1		1892	1283
1,2,4-Trichlorobenzene	ND		5.4	1.5	1		1892	1283
2,4,6-Trichlorophenol	ND		5.4	1.4	1		1892	1283
2,4,5-Trichlorophenol	ND		11	1.2	1		1892	1283
3,3'-Dichlorobenzidine	ND		11	3.2	1		1892	1283
(E)-3-Chloro-2-methyl-2-pentenal	0.10	JN			1			1283
2-Fluorobiphenyl (S)	90.6 %		45-108		1		1892	1283
2-Fluorophenol (S)	66.4 %		18-113		1		1892	1283
Nitrobenzene-d5 (S)	87.2 %		41-113		1		1892	1283
Phenol-d6 (S)	49.5 %		10-113		1		1892	1283
Terphenyl-d14 (S)	102 %		43-122		1		1892	1283
2,4,6-Tribromophenol (S)	94.7 %		25-154		1		1892	1283

VOLATILES

Analysis Desc: SW-846 8260B (GCVMS Analysis)

SW-846 5030Analytical Batches:

Batch: 1440 SW-846 8260B (GCVMS Analysis) on 07/01/2010 17:49 by DGR

Parameters	Results ug/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Batch Information Analysis
Benzene	ND		1.0	0.17	1			1440
Ethylbenzene	ND		1.0	0.097	1			1440
Toluene	ND		1.0	0.12	1			1440
m,p-Xylene	ND		1.0	0.30	1			1440
o-Xylene	ND		1.0	0.11	1			1440
Xylenes, Total	ND		1.0	0.11	1			1440
4-Bromofluorobenzene (S)	96.1 %		70-130		1			1440
1,2-Dichloroethane-d4 (S)	95 %		71-140		1			1440
Toluene-d8 (S)	104 %		61-121		1			1440
Preservation pH	<2				1			1440

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ANALYTICAL RESULTS

Workorder: H10060590 : Wingate Fractionating Plant | Project Number: Wingate Fractionating Plant

Lab ID: **H10060590001** | Date/Time Received: 6/24/2010 12:15 | Matrix: Water

Sample ID: **MW-3** | Date/Time Collected: 6/23/2010 14:55

Analysis Desc: SM5210B

Preparation Batches:
Batch: 2712 SM5210B on 06/24/2010 14:55 by WETC

Analytical Batches:
Batch: 2713 SM5210B on 06/24/2010 14:55 by WETC

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Batch Information Analysis
BOD	ND		2.00	0.0560	1		2712	2713

WET CHEMISTRY

Analysis Desc: SM 5220 C

Analytical Batches:
Batch: 3373 SM 5220 C on 06/25/2010 09:00 by PAC

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Batch Information Analysis
COD	7.50		3.00	2.83	1			3373

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QUALITY CONTROL DATA

Workorder: H10060590 : Wingate Fractionating Plant — Project Number: Wingate Fractionating Plant

QC Batch: DIGM/1856 — Analysis Method: SW-846 6010B

QC Batch Method: SW-846 3010A — Preparation: 06/24/2010 15:15 by R_V

Associated Lab Samples: H10060581001 H10060581002 H10060581003 H10060590001

METHOD BLANK: 52901

Analysis Date/Time Analyst: 07/04/2010 14:10 EBG

Parameter	Units	Blank Result	Qualifiers	Reporting Limit
Arsenic	mg/l	ND		0.00500
Barium	mg/l	ND		0.00500
Cadmium	mg/l	ND		0.00500
Calcium	mg/l	ND		0.100
Chromium	mg/l	ND		0.00500
Iron	mg/l	ND		0.0200
Lead	mg/l	ND		0.00500
Magnesium	mg/l	ND		0.100
Manganese	mg/l	ND		0.00500
Selenium	mg/l	ND		0.0100
Silver	mg/l	ND		0.00500
Sodium	mg/l	ND		0.100

LABORATORY CONTROL SAMPLE: 52902

Analysis Date/Time Analyst: 07/04/2010 14:16 EBG

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
Arsenic	mg/l	0.10	0.0991	99.1	80-120
Barium	mg/l	0.10	0.1005	100	80-120
Cadmium	mg/l	0.10	0.0982	98.2	80-120
Calcium	mg/l	1.0	0.9942	99.4	80-120
Chromium	mg/l	0.10	0.0997	99.7	80-120
Iron	mg/l	1.0	1.005	100	80-120
Lead	mg/l	0.10	0.0984	98.4	80-120
Magnesium	mg/l	1.0	0.9892	98.9	80-120
Manganese	mg/l	0.10	0.1002	100	80-120
Selenium	mg/l	0.10	0.0968	96.8	80-120
Silver	mg/l	0.10	0.1015	102	80-120
Sodium	mg/l	1.0	1.01	101	80-120

QC results presented in the QC Control Data 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. Also, MS/MSD % recoveries are calculated by the SPL LIMS using any detected value greater than the MDL.

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QUALITY CONTROL DATA

Workorder: H10060590 : Wingate Fractionating Plant — Project Number: Wingate Fractionating Plant

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 52903 52904 Original: H10060590001

MS Analysis Date/Time Analyst: 07/04/2010 14:35 EBG

MSD Analysis Date/Time Analyst: 07/04/2010 14:41 EBG

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Arsenic	mg/l	0.0047	0.10	0.1073	0.1073	103	103	75-125	0.0	20
Barium	mg/l	0.144	0.10	0.2443	0.2442	101	101	75-125	0.0	20
Cadmium	mg/l	ND	0.10	0.0976	0.0978	97.6	97.8	75-125	0.2	20
Calcium	mg/l	27.6	1.0	28.29	28.15	NC	NC	75-125	NC	20
Chromium	mg/l	0.0006	0.10	0.101	0.1006	100	100	75-125	0.4	20
Iron	mg/l	0.0142	1.0	1.005	1.009	99.1	99.5	75-125	0.4	20
Lead	mg/l	0.0006	0.10	0.0965	0.097	95.9	96.4	75-125	0.5	20
Magnesium	mg/l	13.7	1.0	14.2	14.29	NC	NC	75-125	NC	20
Manganese	mg/l	0.48	0.10	0.5695	0.5674	NC	NC	75-125	NC	20
Selenium	mg/l	ND	0.10	0.0999	0.1005	99.9	100	75-125	0.6	20
Silver	mg/l	ND	0.10	0.1021	0.1015	102	102	75-125	0.6	20
Sodium	mg/l	162	1.0	159.8	162.5	NC	NC	75-125	NC	20

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QUALITY CONTROL DATA

Workorder: H10060590 : Wingate Fractionating Plant *Project Number: Wingate Fractionating Plant*

QC Batch: WCSH/2712 Analysis Method: SM5210B

QC Batch Method: SM5210B Preparation: 06/24/2010 11:00 by WETC

Associated Lab Samples: H10060561001 H10060562001 H10060562002 H10060575001 H10060580001 H10060584001 H10060587001 H10060587002 H10060590001

METHOD BLANK: 53016

Analysis Date/Time Analyst: 06/24/2010 11:00 WETC

Parameter	Units	Blank Result	Qualifiers	Reporting Limit
BOD	mg/l	ND		2.00

LABORATORY CONTROL SAMPLE: 53017

Analysis Date/Time Analyst: 06/24/2010 11:00 WETC

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
BOD	mg/l	198	186.0	93.9	83.7-114

SAMPLE DUPLICATE: 53018 Original: H10060561001

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	DF
WET CHEMISTRY						1.25
BOD	mg/l	7.18	7.19	0.1	20	1.25

QC results presented in the QC Control Data 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. Also, MS/MSD % recoveries are calculated by the SPL LIMS using any detected value greater than the MDL.

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QUALITY CONTROL DATA

Workorder: H10060590 : Wingate Fractionating Plant — Project Number: Wingate Fractionating Plant

QC Batch: WCSH/2716 — Analysis Method: SM 4500-H+ B

QC Batch Method: SM 4500-H+ B

Associated Lab Samples: H10060562001, H10060581001, H10060581002, H10060581003, H10060582001, H10060585001, H10060590001, H10060591001

LABORATORY CONTROL SAMPLE: 53028

Analysis Date/Time Analyst: 06/24/2010 17:30 PAC

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
pH	SU	7	7.05	101	98-102

SAMPLE DUPLICATE: 53029 — Original: H10060562001

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	DF
WET CHEMISTRY						1
pH	SU	7.20	7.21	0.1	5	1

QC results presented in the QC Control Data 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. Also, MS/MSD % recoveries are calculated by the SPL LIMS using any detected value greater than the MDL.

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QUALITY CONTROL DATA

Workorder: H10060590 : Wingate Fractionating Plant — Project Number: Wingate Fractionating Plant

QC Batch: EXTO/1892 — Analysis Method: SW-846 8270C

QC Batch Method: SW-846 3510C — Preparation: 06/25/2010 10:43 by N_M

Associated Lab Samples: H10060581001 H10060581002 H10060581003 H10060590001

METHOD BLANK: 53093

Analysis Date/Time Analyst: 06/28/2010 21:09 SBG

Parameter	Units	Blank Result	Qualifiers	Reporting Limit
Acenaphthene	ug/l	ND		5.0
Acenaphthylene	ug/l	ND		5.0
Aniline	ug/l	ND		5.0
Anthracene	ug/l	ND		5.0
Benzo(a)anthracene	ug/l	ND		5.0
Benzo(a)pyrene	ug/l	ND		5.0
Benzo(b)fluoranthene	ug/l	ND		5.0
Benzo(g,h,i)perylene	ug/l	ND		5.0
Benzo(k)fluoranthene	ug/l	ND		5.0
Benzoic acid	ug/l	ND		25
Benzyl alcohol	ug/l	ND		5.0
Bis(2-Chloroethoxy)methane	ug/l	ND		5.0
Bis(2-Chloroethyl)ether	ug/l	ND		5.0
bis(2-Chloroisopropyl)ether	ug/l	ND		5.0
bis(2-Ethylhexyl)phthalate	ug/l	ND		5.0
4-Bromophenyl phenyl ether	ug/l	ND		5.0
Butyl benzyl phthalate	ug/l	ND		5.0
Carbazole	ug/l	ND		5.0
4-Chloro-3-methylphenol	ug/l	ND		5.0
4-Chloroaniline	ug/l	ND		5.0
2-Chloronaphthalene	ug/l	ND		5.0
2-Chlorophenol	ug/l	ND		5.0
4-Chlorophenyl phenyl ether	ug/l	ND		5.0
Chrysene	ug/l	ND		5.0
Cresols, Total	ug/l	ND		5.0
Di-n-butyl phthalate	ug/l	ND		5.0
Di-n-octyl phthalate	ug/l	ND		5.0
Dibenz(a,h)anthracene	ug/l	ND		5.0
Dibenzofuran	ug/l	ND		5.0
1,3-Dichlorobenzene	ug/l	ND		5.0
1,2-Dichlorobenzene	ug/l	ND		5.0
1,4-Dichlorobenzene	ug/l	ND		5.0
2,4-Dichlorophenol	ug/l	ND		5.0
Diethyl phthalate	ug/l	ND		5.0
Dimethyl phthalate	ug/l	ND		5.0
2,4-Dimethylphenol	ug/l	ND		5.0
4,6-Dinitro-2-methylphenol	ug/l	ND		25
2,4-Dinitrophenol	ug/l	ND		25
2,6-Dinitrotoluene	ug/l	ND		5.0
2,4-Dinitrotoluene	ug/l	ND		5.0

QC results presented in the QC Control Data 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. Also, MS/MSD % recoveries are calculated by the SPL LIMS using any detected value greater than the MDL.

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QUALITY CONTROL DATA

Workorder: H10060590 : Wingate Fractionating Plant | Project Number: Wingate Fractionating Plant

METHOD BLANK: 53093

Analysis Date/Time Analyst: 06/28/2010 21:09 SBG

Parameter	Units	Blank Result	Qualifiers	Reporting Limit
Diphenylamine	ug/l	ND		10
1,2-Diphenylhydrazine	ug/l	ND		10
Fluoranthene	ug/l	ND		5.0
Fluorene	ug/l	ND		5.0
Hexachlorobenzene	ug/l	ND		5.0
Hexachlorobutadiene	ug/l	ND		5.0
Hexachlorocyclopentadiene	ug/l	ND		5.0
Hexachloroethane	ug/l	ND		5.0
Indeno(1,2,3-cd)pyrene	ug/l	ND		5.0
Isophorone	ug/l	ND		5.0
2-Methylnaphthalene	ug/l	ND		5.0
2-Methylphenol (o-Cresol)	ug/l	ND		5.0
3 & 4-Methylphenol	ug/l	ND		5.0
n-Nitrosodi-n-propylamine	ug/l	ND		5.0
n-Nitrosodimethylamine	ug/l	ND		5.0
n-Nitrosodiphenylamine	ug/l	ND		5.0
Naphthalene	ug/l	ND		5.0
3-Nitroaniline	ug/l	ND		25
4-Nitroaniline	ug/l	ND		25
2-Nitroaniline	ug/l	ND		25
Nitrobenzene	ug/l	ND		5.0
2-Nitrophenol	ug/l	ND		5.0
4-Nitrophenol	ug/l	ND		25
Pentachlorophenol	ug/l	ND		25
Phenanthrene	ug/l	ND		5.0
Phenol	ug/l	ND		5.0
Pyrene	ug/l	ND		5.0
Pyridine	ug/l	ND		5.0
1,2,4-Trichlorobenzene	ug/l	ND		5.0
2,4,6-Trichlorophenol	ug/l	ND		5.0
2,4,5-Trichlorophenol	ug/l	ND		10
3,3'-Dichlorobenzidine	ug/l	ND		10
2-Fluorobiphenyl (S)	%	78		45-108
2-Fluorophenol (S)	%	60.9		18-113
Nitrobenzene-d5 (S)	%	76.4		41-113
Phenol-d6 (S)	%	45.6		10-113
Terphenyl-d14 (S)	%	87.6		43-122
2,4,6-Tribromophenol (S)	%	84		25-154

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QUALITY CONTROL DATA

Workorder: H10060590 : Wingate Fractionating Plant — Project Number: Wingate Fractionating Plant

LABORATORY CONTROL SAMPLE & LCSD: 53094 53095

LCS Analysis Date/Time Analyst: 06/28/2010 19:58 SBG

LCSD Analysis Date/Time 06/28/2010 20:34 SBG

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD
Acenaphthene	ug/l	25	21.4	22.6	86.0	91.0	52-117	5.4	30
Acenaphthylene	ug/l	25	22.0	23.4	88.0	93.0	53-117	5.7	30
Aniline	ug/l	50	38.6	41.7	77.0	83.0	47-106	7.6	30
Anthracene	ug/l	25	22.0	23.6	88.0	94.0	49-126	7.0	30
Benzo(a)anthracene	ug/l	25	22.0	23.5	88.0	94.0	53-121	6.6	30
Benzo(a)pyrene	ug/l	25	18.1	19.2	72.0	77.0	47-100	5.6	30
Benzo(b)fluoranthene	ug/l	25	20.2	21.2	81.0	85.0	52-113	4.6	30
Benzo(g,h,i)perylene	ug/l	25	20.0	22.2	80.0	89.0	52-121	10.0	30
Benzo(k)fluoranthene	ug/l	25	21.1	22.2	84.0	89.0	54-117	5.1	30
Benzoic acid	ug/l	25	ND	ND	86.0	92.0	10-133	7.0	30
Benzyl alcohol	ug/l	25	21.5	23.6	86.0	94.0	40-127	9.3	30
Bis(2-Chloroethoxy)methane	ug/l	25	19.4	21.0	78.0	84.0	47-113	7.9	30
Bis(2-Chloroethyl)ether	ug/l	25	21.6	22.8	86.0	91.0	48-112	5.2	30
bis(2-Chloroisopropyl)ether	ug/l	25	21.3	22.6	85.0	91.0	50-150	6.1	30
bis(2-Ethylhexyl)phthalate	ug/l	25	22.3	24.0	89.0	96.0	42-139	7.3	30
4-Bromophenyl phenyl ether	ug/l	25	22.2	23.9	89.0	96.0	53-121	7.4	30
Butyl benzyl phthalate	ug/l	25	23.4	24.9	93.0	100	40-139	6.4	30
Carbazole	ug/l	25	21.6	22.2	86.0	89.0	47-123	3.0	30
4-Chloro-3-methylphenol	ug/l	25	20.8	22.2	83.0	89.0	49-120	6.3	30
4-Chloroaniline	ug/l	25	21.2	22.6	85.0	90.0	54-116	6.4	30
2-Chloronaphthalene	ug/l	25	21.9	23.0	88.0	92.0	52-118	4.9	30
2-Chlorophenol	ug/l	25	21.0	22.6	84.0	90.0	50-115	7.1	30
4-Chlorophenyl phenyl ether	ug/l	25	22.4	23.6	90.0	94.0	54-116	5.0	30
Chrysene	ug/l	25	21.8	23.1	87.0	92.0	53-117	5.8	30
Cresols, Total	ug/l	50	42.7	46.2	85.0	92.0	44-132	7.8	30
Di-n-butyl phthalate	ug/l	25	23.0	25.0	92.0	100	42-141	8.1	30
Di-n-octyl phthalate	ug/l	25	20.6	22.1	83.0	88.0	40-135	6.8	30
Dibenz(a,h)anthracene	ug/l	25	20.2	21.4	81.0	86.0	49-120	5.5	30
Dibenzofuran	ug/l	25	22.1	23.2	88.0	93.0	55-119	4.9	30
1,3-Dichlorobenzene	ug/l	25	20.1	21.0	80.0	84.0	49-106	4.6	30
1,2-Dichlorobenzene	ug/l	25	20.7	21.6	83.0	86.0	50-109	4.3	30
1,4-Dichlorobenzene	ug/l	25	20.0	20.9	80.0	84.0	48-106	4.7	30
2,4-Dichlorophenol	ug/l	25	20.7	22.5	83.0	90.0	50-110	8.3	30
Diethyl phthalate	ug/l	25	21.0	21.8	84.0	87.0	45-129	3.7	30
Dimethyl phthalate	ug/l	25	22.1	23.4	88.0	94.0	52-122	5.9	30
2,4-Dimethylphenol	ug/l	25	21.0	22.6	84.0	90.0	50-120	7.3	30
4,6-Dinitro-2-methylphenol	ug/l	25	ND	ND	67.0	71.0	23-127	5.5	30
2,4-Dinitrophenol	ug/l	25	ND	ND	60.0	67.0	10-122	11.0	30
2,6-Dinitrotoluene	ug/l	25	21.8	23.3	87.0	93.0	48-127	6.9	30
2,4-Dinitrotoluene	ug/l	25	21.6	23.0	86.0	92.0	50-129	6.5	30
Diphenylamine	ug/l	50	47.5	51.5	95.0	100	62-136	8.1	30
1,2-Diphenylhydrazine	ug/l	25	23.2	24.8	93.0	99.0	40-142	6.7	30
Fluoranthene	ug/l	25	22.3	23.2	89.0	93.0	49-132	4.0	30

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QUALITY CONTROL DATA

Workorder: H10060590 : Wingate Fractionating Plant — Project Number: Wingate Fractionating Plant

LABORATORY CONTROL SAMPLE & LCSD: 53094 53095

LCS Analysis Date/Time Analyst: 06/28/2010 19:58 SBG

LCSD Analysis Date/Time 06/28/2010 20:34 SBG

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD
Fluorene	ug/l	25	22.0	23.0	88.0	92.0	54-119	4.9	30
Hexachlorobenzene	ug/l	25	21.8	22.9	87.0	92.0	53-117	5.2	30
Hexachlorobutadiene	ug/l	25	20.2	21.3	81.0	85.0	49-106	5.1	30
Hexachlorocyclopentadiene	ug/l	25	19.4	20.2	78.0	81.0	17-105	3.8	30
Hexachloroethane	ug/l	25	20.1	20.8	80.0	83.0	42-110	3.7	30
Indeno(1,2,3-cd)pyrene	ug/l	25	20.5	21.1	82.0	84.0	50-129	2.9	30
Isophorone	ug/l	25	24.7	27.0	99.0	110	52-134	8.9	30
2-Methylnaphthalene	ug/l	25	20.8	22.6	83.0	90.0	52-116	8.3	30
2-Methylphenol (o-Cresol)	ug/l	25	21.4	23.1	85.0	92.0	49-118	7.9	30
3 & 4-Methylphenol	ug/l	25	21.4	23.0	85.0	92.0	44-132	7.7	30
n-Nitrosodi-n-propylamine	ug/l	25	22.4	23.8	90.0	95.0	47-118	5.8	30
n-Nitrosodimethylamine	ug/l	25	21.0	22.3	84.0	89.0	32-121	6.0	30
n-Nitrosodiphenylamine	ug/l	50	47.5	51.5	95.0	100	62-136	8.1	30
Naphthalene	ug/l	25	21.3	22.4	85.0	89.0	53-111	4.8	30
3-Nitroaniline	ug/l	25	ND	ND	83.0	87.0	31-114	4.0	30
4-Nitroaniline	ug/l	25	ND	ND	81.0	86.0	41-118	5.5	30
2-Nitroaniline	ug/l	25	ND	ND	84.0	93.0	43-127	10.0	30
Nitrobenzene	ug/l	25	20.4	21.6	82.0	87.0	47-116	5.9	30
2-Nitrophenol	ug/l	25	18.8	20.8	75.0	83.0	29-182	10.0	30
4-Nitrophenol	ug/l	25	ND	ND	79.0	84.0	21-130	6.9	30
Pentachlorophenol	ug/l	25	ND	ND	72.0	74.0	52-115	3.0	30
Phenanthrene	ug/l	25	23.4	24.6	93.0	98.0	49-124	5.2	30
Phenol	ug/l	25	23.6	25.0	94.0	100	37-128	5.8	30
Pyrene	ug/l	25	22.0	23.6	88.0	94.0	52-122	6.8	30
Pyridine	ug/l	50	36.2	38.2	72.0	76.0	37-99	5.2	30
1,2,4-Trichlorobenzene	ug/l	25	21.0	22.2	84.0	89.0	52-109	5.6	30
2,4,6-Trichlorophenol	ug/l	25	21.0	22.5	84.0	90.0	38-150	6.9	30
2,4,5-Trichlorophenol	ug/l	25	21.2	22.4	85.0	90.0	48-120	5.5	30
3,3'-Dichlorobenzidine	ug/l	25	17.8	18.9	71.0	76.0	30-104	5.7	30
2-Fluorobiphenyl (S)	%				82.3	79.6	45-108		30
2-Fluorophenol (S)	%				68.0	67.3	18-113		30
Nitrobenzene-d5 (S)	%				83.0	83.6	41-113		30
Phenol-d6 (S)	%				51.2	51.7	10-113		30
Terphenyl-d14 (S)	%				85.4	86.6	43-122		30
2,4,6-Tribromophenol (S)	%				92.7	90.7	25-154		30

QC results presented in the QC Control Data 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. Also, MS/MSD % recoveries are calculated by the SPL LIMS using any detected value greater than the MDL.

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QUALITY CONTROL DATA

Workorder: H10060590 : Wingate Fractionating Plant — Project Number: Wingate Fractionating Plant

QC Batch: WETS/1670 — Analysis Method: SM 2540 C

QC Batch Method: SM 2540 C

Associated Lab Samples: H10060581001 H10060581002 H10060581003 H10060584001 H10060590001

METHOD BLANK: 53129

Analysis Date/Time Analyst: 06/25/2010 12:00 CFS

Parameter	Units	Blank Result	Qualifiers	Reporting Limit
Residue, Filterable (TDS)	mg/l	ND		10.0

LABORATORY CONTROL SAMPLE & LCSD: 53130 53131

LCS Analysis Date/Time Analyst: 06/25/2010 12:00 CFS

LCSD Analysis Date/Time 06/25/2010 12:00 CFS

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD
Residue, Filterable (TDS)	mg/l	200	198.0	201.0	99.0	100	95-107	1.5	10

SAMPLE DUPLICATE: 53132 — Original: H10060591001

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	DF
WET CHEMISTRY						1
Residue, Filterable (TDS)	mg/l	882	889	0.8	10	1

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QUALITY CONTROL DATA

Workorder: H10060590 : Wingate Fractionating Plant — Project Number: Wingate Fractionating Plant

QC Batch: WETC/3373 — Analysis Method: SM 5220 C

QC Batch Method: SM 5220 C

Associated Lab Samples: H10060576001 H10060580001 H10060585001 H10060587001 H10060589001 H10060590001

METHOD BLANK: 53179

Analysis Date/Time Analyst: 06/25/2010 09:00 PAC

Parameter	Units	Blank Result	Qualifiers	Reporting Limit
COD	mg/l	ND		3.00

LABORATORY CONTROL SAMPLE: 53180

Analysis Date/Time Analyst: 06/25/2010 09:00 PAC

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
COD	mg/l	104	100.0	96.4	85-115

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 53181 53182 Original: H10060574002

MS Analysis Date/Time Analyst: 06/25/2010 09:00 PAC

MSD Analysis Date/Time Analyst: 06/25/2010 09:00 PAC

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
COD	mg/l	40	50	82.5	82.5	85.0	85.0	80-120	0.0	10

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QUALITY CONTROL DATA

Workorder: H10060590 : *Wingate Fractionating Plant* Project Number: Wingate Fractionating Plant

QC Batch: WETC/3375 Analysis Method: SM 2320 B

QC Batch Method: SM 2320 B

Associated Lab Samples: H10060541001 H10060541002 H10060541003 H10060541004 H10060541005 H10060581001 H10060581002 H10060581003 H10060590001

METHOD BLANK: 53210

Analysis Date/Time Analyst: 06/25/2010 13:00 PAC

Parameter	Units	Blank Result	Qualifiers	Reporting Limit
Alkalinity, total as CaCO3	*mg/l*	*ND*		*2.00*

LABORATORY CONTROL SAMPLE: 53211

Analysis Date/Time Analyst: 06/25/2010 13:00 PAC

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
Alkalinity, total as CaCO3	mg/l	36	36.0	101	90-110

SAMPLE DUPLICATE: 53212 Original: H10060590001

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	DF
WET CHEMISTRY						1
Alkalinity, total as CaCO3	mg/l	148	148	0.0	20	1

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QUALITY CONTROL DATA

Workorder: H10060590 : Wingate Fractionating Plant — Project Number: Wingate Fractionating Plant

QC Batch: IC/1354 — Analysis Method: EPA 300.0

QC Batch Method: EPA 300.0

Associated Lab Samples: H10060573001 H10060576001 H10060581001 H10060581002 H10060581003 H10060590001 H10060596001

METHOD BLANK: 53355

Analysis Date/Time Analyst: 06/25/2010 10:11 CFS

Parameter	Units	Blank Result	Qualifiers	Reporting Limit
Sulfate	mg/l	ND		0.500
Chloride	mg/l	ND		0.500

LABORATORY CONTROL SAMPLE & LCSD: 53356 53357

LCS Analysis Date/Time Analyst: 06/25/2010 10:27 CFS

LCSD Analysis Date/Time 06/25/2010 20:16 CFS

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD
Sulfate	mg/l	10	9.944	10.09	99.4	101	85-115	1.5	20
Chloride	mg/l	10	9.765	9.696	97.7	97.0	85-115	0.7	20

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 53358 53359 Original: H10060590001

MS Analysis Date/Time Analyst: 06/25/2010 19:27 CFS

MSD Analysis Date/Time Analyst: 06/25/2010 19:43 CFS

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Sulfate	mg/l	18.8	50	70.84	70.17	104	103	80-120	1.0	20
Chloride	mg/l	20.5	50	70.82	68.06	101	95.1	80-120	4.0	20

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QUALITY CONTROL DATA

Workorder: H10060590 : Wingate Fractionating Plant — Project Number: Wingate Fractionating Plant

QC Batch: GVMS/1439 — Analysis Method: SW-846 8260B (GCVMS Analysis)

QC Batch Method: SW-846 5030 — Preparation: 07/01/2010 00:00 by DGR

Associated Lab Samples: H10060581001 H10060581002 H10060581003 H10060581005 H10060590001 H10060626010 H10060626011 H10060626016

METHOD BLANK: 54657

Analysis Date/Time Analyst: 07/01/2010 17:04 DGR

Parameter	Units	Blank Result	Qualifiers	Reporting Limit
Benzene	ug/l	ND		1.0
Ethylbenzene	ug/l	ND		1.0
Toluene	ug/l	ND		1.0
m,p-Xylene	ug/l	ND		1.0
o-Xylene	ug/l	ND		1.0
Xylenes, Total	ug/l	ND		1.0
4-Bromofluorobenzene (S)	%	97.5		70-130
1,2-Dichloroethane-d4 (S)	%	99.4		71-140
Toluene-d8 (S)	%	105		61-121

LABORATORY CONTROL SAMPLE: 54658

Analysis Date/Time Analyst: 07/01/2010 15:58 DGR

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
Benzene	ug/l	20	22.0	110	70-130
Ethylbenzene	ug/l	20	20.6	103	70-130
Toluene	ug/l	20	21.4	107	73-130
m,p-Xylene	ug/l	40	41.9	105	70-130
o-Xylene	ug/l	20	21.6	108	70-130
Xylenes, Total	ug/l	60	63.49	106	70-130
4-Bromofluorobenzene (S)	%			97.3	70-130
1,2-Dichloroethane-d4 (S)	%			97.5	71-140
Toluene-d8 (S)	%			105	61-121

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 54659 54660 Original: H10060590001

MS Analysis Date/Time Analyst: 07/01/2010 22:20 DGR

MSD Analysis Date/Time Analyst: 07/01/2010 22:42 DGR

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Benzene	ug/l	ND	20	22.4	20.5	112	103	67-202	8.8	20
Ethylbenzene	ug/l	ND	20	21.0	19.9	105	99.6	49-165	5.1	20
Toluene	ug/l	ND	20	21.9	20.4	109	102	48-162	7.1	20

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QUALITY CONTROL DATA

Workorder: H10060590 : Wingate Fractionating Plant — Project Number: Wingate Fractionating Plant

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 54659 54660 Original: H10060590001

MS Analysis Date/Time Analyst: 07/01/2010 22:20 DGR

MSD Analysis Date/Time Analyst: 07/01/2010 22:42 DGR

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
m,p-Xylene	ug/l	0.12	40	42.8	40.6	107	101	44-167	5.2	20
o-Xylene	ug/l	ND	20	21.6	20.6	108	103	54-158	4.7	20
Xylenes, Total	ug/l	ND	60	64.36	61.21	107	102	44-167	5.0	20
4-Bromofluorobenzene (S)	%	96.1				97.4	96.6	70-130		30
1,2-Dichloroethane-d4 (S)	%	95				98.8	95.1	71-140		30
Toluene-d8 (S)	%	104				105	104	61-121		30

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Legend

(S) - Indicates analyte is a surrogate

Qualifier	Qualifier Description
*	Recovery/RPD value outside QC limits
+	DCS Concentration
B	Analyte detected in the Method Blank
C	MTBE results were not confirmed by GCMS
D	Recovery out of range due to dilution
E	Results exceed calibration range
H	Exceeds holding time
I	Estimated value, between MDL and PQL (Florida)
J	Estimated value
JN	The analysis indicates the presence of an analyte
MI	Matrix Interference
N	Recovery outside of control limits
NC	Not Calculable (Sample Duplicate)
NC	Not Calculated - Sample concentration > 4 times the spike
ND	Not Detected at reporting Limits
P	Pesticide dual column results, greater then 25%
Q	Received past holding time
TNTC	Too numerous to count
U	Not Detected at reporting Limits

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: H10060590 : Wingate Fractionating Plant

Project Number: Wingate Fractionating Plant

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
H10060590001	**MW-3**	SW-846 3010A	DIGM/1856	SW-846 6010B	ICP/1481
H10060590001	**MW-3**	SM5210B	WCSH/2712	SM5210B	WCSH/2713
H10060590001	**MW-3**	SM 4500-H+ B	WCSH/2716		
H10060590001	**MW-3**	SW-846 3510C	EXTO/1892	SW-846 8270C	MSSV/1283
H10060590001	**MW-3**	SM 2540 C	WETS/1670		
H10060590001	**MW-3**	SM 5220 C	WETC/3373		
H10060590001	**MW-3**	EPA 300.0	IC/1351		
H10060590001	**MW-3**	SM 2320 B	WETC/3375		
H10060590001	**MW-3**	EPA 300.0	IC/1354		
H10060590001	**MW-3**	SW-846 8270C	MSSV/1283		
H10060590001	**MW-3**	SW-846 5030	GVMS/1439	SW-846 8260B (GCVMS Analysis)	GVMS/1440

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Sample Receipt Checklist

WorkOrder:	H10060590	Received By	LOG
Date and Time	06/24/2010 12:15	Carrier Name:	FEDEXS
Temperature:	4.0°C	Chilled By:	Water Ice

1.	Shipping container/cooler in good condition?	YES
2.	Custody seals intact on shipping container/cooler?	YES
3.	Custody seals intact on sample bottles?	Not Present
4.	Chain of custody present?	YES
5.	Chain of custody signed when relinquished and received?	YES
6.	Chain of custody agrees with sample labels?	YES
7.	Samples in proper container/bottle?	YES
8.	Samples containers intact?	YES
9.	Sufficient sample volume for indicated test?	YES
10.	All samples received within holding time? Lab received pH out of method holding time.	NO
11.	Container/Temp Blank temperature in compliance?	YES
12.	Water - VOA vials have zero headspace?	YES
13.	Water - Preservation checked upon receipt(except VOA*)?	YES

*VOA Preservation Checked After Sample Analysis

SPL Representative: Contact Date & Time:

Client Name Contacted:

Client Instructions:

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SPL, INC.

Analysis Request & Chain of Custody Record

H10060590

Page No. 1 of 2

Client Name:	Tetra Tech / ConocoPhillips
Address:	6121 Indian School #200
Address:	Albuquerque NM Zip: 87110
Phone/Fax:	505-237-8440 505-237-8656
Client Contact:	Kelly Blanchard
Email:	kelly.blanchard@tetratech.com
Project Name/No:	Wingate
Site Name:	
Site Location:	Gallup, NM
Invoice To:	ConocoPhillips

SAMPLE ID	DATE	TIME	COMP	GRAB	MATRIX: W = Water, S = Soil, SL = Sludge, O = other	BOTTLE: P = Plastic, A = Amber glass, V = vial, G = glass	SIZE: 1 = 1 liter, 4 = 4 oz, 40 = vial, 8 = 8 oz, 16 = 16 oz	PRES: 1 = HCL, 2 = HNO3, 3 = H2SO4, O = other	Number of Containers	BTEX ONLY 8260	SVOC TCL 8270	TDS, pH, Alkalinity	Chloride, Sulfate, Nitrate	Dissolved Metals	BOD	COD
WMW-6	6/23	0930	☐	X	W	V	40	1	3	X						
WMW-6	6/23	0930	☐	X	W	A	1	NONE	2		X					
WMW-6	6/23	0930	☐	X	W	P	1	NONE	2			X	X			
WMW-6	6/23	0930	☐	X	W	P	16	NONE	1					X		
WMW-8	6/23	1050	☐	X	W	V	40	1	3	X						
WMW-8	6/23	1050	☐	X	W	A	1	NONE	3		X					
WMW-8	6/23	1050	☐	X	W	P	1	NONE	2			X	X			
WMW-8	6/23	1050	☐	X	W	P	16	NONE	1					X		
WMW-7	6/23	1345	☐	X	W	V	40	1	3	X						
WMW-7	6/23	1345	☐	X	W	A	1	NONE	2		X					

Client/Consultant Remarks: Please filter metals container prior to analysis

Field pH:

Laboratory Remarks:

COPY

Intact? ☑Y ☐N

Ice? ☑Y ☐N

Temp: 4 °C

Custody Seals: ☐Y ☐N

Cooler: ☑Y ☐N

Container: ☐Y ☑N

Special Reporting Requirements: ☐ Fax: ☒ Email: ☒ PDF: ☐ LA RECAP

☒ Standard QC ☐ Level 3 QC ☐ Level 4 QC ☐ TX TRRP

Special Detection Limit (Specify):

Requested TAT:

☐ Contract:
☐ 24 hr:
☐ 48 hr:
☐ 72 hr:
☒ Standard:
☐ Other:

RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:
1. By Sampler: Juliet Mallette	6/23/10	1630	2. Received By:
3. By:			4. Received By:
5. By:	6/24/10	0712:15	6. Received By: Amanda Vickerman

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☐ 990 Ambassador Caffery Pkwy., Scott, LA 70583 Phone: 800-304-5227

☐ 459 Hughes Drive, Traverse City, MI 49686 Phone: 888-775-6424

Report ID: H10060590_6089
Printed: 07/08/2010 13:38

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H10060590

SPL, INC.

Analysis Request & Chain of Custody Record

SPL Workorder No: ~~H10060584~~ 6089

Page No. 2 of 2

Client Name:	Tetra Tech/ConocoPhillips
Address:	6121 Indian School #200
Address:	Albuquerque NM Zip: 87110
Phone/Fax:	505-237-8540 505-237-8656
Client Contact:	Kelly Blanchard
Email:	kelly.blanchard@tetratech.com
Project Name/No:	Wingate
Site Name:	
Site Location:	Gallup, NM
Invoice To:	ConocoPhillips

SAMPLE ID	DATE	TIME	COMP	GRAB	MATRIX (W = Water, S = Soil, SL = Sludge, O = other)	BOTTLE (P = plastic, A = Amber glass, G = glass, V = vial)	SIZE (1 = 1 liter, 4 = 4 oz, 10 = vial, 8 = 8 oz, 16 = 16 oz)	PRES (1 = HCL, 2 = HNO3, 3 = H2SO4, O = other)	Number of Containers	BTEX ONLY 8260	SVOC TCL 8270	TDS, pH, Alkalinity	Chloride, Sulfate, Nitrate	Dissolved Metals	BOD	COD					
WMW-1	6/23	1345	☐	X	W	P	1	NONE	2			X	X							
WMW-1	6/23	1345	☐	X	W	P	16	NONE	1					X							
MW-3	6/23	1455	☐	X	W	V	40	1	3	X											
MW-3	6/23	1455	☐	X	W	A	1	NONE	2		X										
MW-3	6/23	1455	☐	X	W	P	1	NONE	3			X	X		X						
MW-3	6/23	1455	☐	X	W	P	16	NONE	1					X							
MW-3	6/23	1455	☐	X	W	P	16	3	1							X					
Trip Blank	6/23	1615	☐	X	W	V	40	1	2												
			☐	X	W																
			☐	X	W																

REQUESTED ANALYSIS

Client/Consultant Remarks: Field pH:

Please filter metals at lab prior to analysis

Laboratory Remarks:

Intact? ☑ Y ☐ N

Iced: ☑ Y ☐ N

Temp: 4.0 C

Requested TAT:
☐ Contract
☐ 24 hr
☐ 48 hr
☐ 72 hr
☒ Standard
☐ Other:

Special Reporting Requirements:
☒ Standard QC ☐ Level 3 QC ☐ Level 4 QC ☐ Fax ☒ Email ☒ EDF ☐ TX TRRP ☐ LA RECAP

Special Detection Limit: (Specify)

Custody Seals: ☐ Y ☑ N
Cooler: ☑ Y ☐ N
Container: ☐ Y ☑ N

RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:
1. By Sampler: Amanda Matthews	6/23/10	1630	2. Received By:
3. By:			4. Received By:
5. By:	6/24/10	12:15	6. Received By: Amanda Vicknair

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☐ 455 Hughes Drive, Traverse City, MI 49686 Phone: 888-775-6424

Report ID: H10060590_6089
Printed: 07/08/2010 13:38

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Certificate of Analysis

July 9, 2010

Workorder: H10060581

Kelly Blanchard
Tetra Tech
6121 Indian School Road NE
Suite 200
Albuquerque, NM 87110

Project: Wingate Fractionating Plant

Project Number: Wingate Fractionating Plant

Site: 68 El Paso Circle, Gallup, NM

PO Number:

NELAC Cert. No.: T104704205-09-1

This Report Contains A Total Of 37 Pages

Excluding Any Attachments

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Certificate of Analysis

July 9, 2010

Workorder: H10060581

Kelly Blanchard
Tetra Tech
6121 Indian School Road NE
Suite 200
Albuquerque, NM 87110

Project: Wingate Fractionating Plant

Project Number: Wingate Fractionating Plant

Site: 68 El Paso Circle, Gallup, NM

PO Number:

NELAC Cert. No.: T104704205-09-1

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 pH analysis. The holding time for pH is immediate and should be performed at the time of sampling. Client is aware of the holding time and requested SPL to perform the analysis.

Per clients request, MW-3 was logged into it's own workorder for billing purposes.

II: ANALYSES AND EXCEPTIONS:

There were no exceptions noted.

III. GENERAL REPORTING COMMENTS:

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

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

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Certificate of Analysis

July 9, 2010

Workorder: H10060581

Kelly Blanchard
Tetra Tech
6121 Indian School Road NE
Suite 200
Albuquerque, NM 87110

Project: Wingate Fractionating Plant

Project Number: Wingate Fractionating Plant

Site: 68 El Paso Circle, Gallup, NM

PO Number:

NELAC Cert. No.: T104704205-09-1

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, Senior Project Manager

Enclosures

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SAMPLE SUMMARY

Workorder: H10060581 : Wingate Fractionating Plant

Project Number: Wingate Fractionating Plant

Lab ID	Sample ID	Matrix	COC ID	Date/Time Collected	Date/Time Received
H10060581001	WMW-6	Water		6/23/2010 09:30	6/24/2010 12:15
H10060581002	WMW-8	Water		6/23/2010 10:50	6/24/2010 12:15
H10060581003	WMW-7	Water		6/23/2010 13:45	6/24/2010 12:15
H10060581005	Trip Blank	Water		6/23/2010 16:15	6/24/2010 12:15

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ANALYTICAL RESULTS

Workorder: H10060581 : Wingate Fractionating Plant — Project Number: Wingate Fractionating Plant

Lab ID: **H10060581001** — Date/Time Received: 6/24/2010 12:15 — Matrix: Water

Sample ID: **WMW-6** — Date/Time Collected: 6/23/2010 09:30

Analysis Desc: EPA 300.0 — Analytical Batches:

Batch: 1351 EPA 300.0 on 06/24/2010 16:08 by CFS

Batch: 1354 EPA 300.0 on 06/25/2010 18:15 by CFS

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Chloride	62.4		25.0	6.30	50			1354
Nitrogen, Nitrate (As N)	ND		0.500	0.0676	1			1351
Sulfate	280		25.0	2.18	50			1354

Analysis Desc: SM 2320 B — Analytical Batches:

Batch: 3375 SM 2320 B on 06/25/2010 13:00 by PAC

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Alkalinity, total as CaCO3	128		2.00	1.68	1			3375

WET CHEMISTRY

Analysis Desc: SM 4500-H+ B — Analytical Batches:

Batch: 2716 SM 4500-H+ B on 06/24/2010 17:30 by PAC

Parameters	Results SU	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
pH	7.42	Q	0.100		1			2716

Analysis Desc: SM 2540 C — Analytical Batches:

Batch: 1670 SM 2540 C on 06/25/2010 12:00 by CFS

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Residue, Filterable (TDS)	1220		10.0	3.94	1			1670

ICP DISSOLVED METALS

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ANALYTICAL RESULTS

Workorder: H10060581 : Wingate Fractionating Plant | Project Number: Wingate Fractionating Plant

Lab ID: **H10060581001** | Date/Time Received: 6/24/2010 12:15 | Matrix: Water

Sample ID: **WMW-6** | Date/Time Collected: 6/23/2010 09:30

Analysis Desc: SW-846 6010B

Preparation Batches:

Batch: 1856 SW-846 3010A on 06/24/2010 15:15 by R_V

Analytical Batches:

Batch: 1481 SW-846 6010B on 07/04/2010 15:17 by EBG

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Arsenic	ND		0.00500	0.00140	1		1856	1481
Barium	0.0421		0.00500	0.000470	1		1856	1481
Cadmium	ND		0.00500	0.000170	1		1856	1481
Calcium	41.9		0.100	0.0171	1		1856	1481
Chromium	ND		0.00500	0.000460	1		1856	1481
Iron	0.0445		0.0200	0.00640	1		1856	1481
Lead	ND		0.00500	0.000700	1		1856	1481
Magnesium	15.5		0.100	0.0483	1		1856	1481
Manganese	0.0193		0.00500	0.000300	1		1856	1481
Selenium	ND		0.0100	0.00190	1		1856	1481
Silver	ND		0.00500	0.000670	1		1856	1481
Sodium	304		0.100	0.0295	1		1856	1481

SEMIVOLATILES

Analysis Desc: SW-846 8270C

Preparation Batches:

Batch: 1892 SW-846 3510C on 06/25/2010 10:44 by N_M

Analytical Batches:

Batch: 1283 SW-846 8270C on 06/29/2010 01:50 by SBG

Parameters	Results ug/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Acenaphthene	ND		5.5	1.6	1		1892	1283
Acenaphthylene	ND		5.5	1.5	1		1892	1283
Aniline	ND		5.5	2.7	1		1892	1283
Anthracene	ND		5.5	1.5	1		1892	1283
Benzo(a)anthracene	ND		5.5	1.6	1		1892	1283
Benzo(a)pyrene	ND		5.5	1.7	1		1892	1283
Benzo(b)fluoranthene	ND		5.5	1.7	1		1892	1283
Benzo(g,h,i)perylene	ND		5.5	1.7	1		1892	1283
Benzo(k)fluoranthene	ND		5.5	1.9	1		1892	1283
Benzoic acid	ND		27	4.3	1		1892	1283
Benzyl alcohol	ND		5.5	1.4	1		1892	1283
Bis(2-Chloroethoxy)methane	ND		5.5	2.5	1		1892	1283
Bis(2-Chloroethyl)ether	ND		5.5	1.7	1		1892	1283

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ANALYTICAL RESULTS

Workorder: H10060581 : Wingate Fractionating Plant | Project Number: Wingate Fractionating Plant

Lab ID: **H10060581001** | Date/Time Received: 6/24/2010 12:15 | Matrix: Water

Sample ID: **WMW-6** | Date/Time Collected: 6/23/2010 09:30

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
bis(2-Chloroisopropyl)ether	ND		5.5	1.8	1		1892	1283
bis(2-Ethylhexyl)phthalate	ND		5.5	1.8	1		1892	1283
4-Bromophenyl phenyl ether	ND		5.5	1.6	1		1892	1283
Butyl benzyl phthalate	ND		5.5	1.7	1		1892	1283
Carbazole	ND		5.5	1.6	1		1892	1283
4-Chloro-3-methylphenol	ND		5.5	1.5	1		1892	1283
4-Chloroaniline	ND		5.5	1.4	1		1892	1283
2-Chloronaphthalene	ND		5.5	1.7	1		1892	1283
2-Chlorophenol	ND		5.5	1.5	1		1892	1283
4-Chlorophenyl phenyl ether	ND		5.5	1.8	1		1892	1283
Chrysene	ND		5.5	1.6	1		1892	1283
Cresols, Total	ND		5.5	1.5	1		1892	1283
Di-n-butyl phthalate	ND		5.5	1.7	1		1892	1283
Di-n-octyl phthalate	ND		5.5	1.7	1		1892	1283
Dibenz(a,h)anthracene	ND		5.5	1.5	1		1892	1283
Dibenzofuran	ND		5.5	1.6	1		1892	1283
1,3-Dichlorobenzene	ND		5.5	1.5	1		1892	1283
1,2-Dichlorobenzene	ND		5.5	1.5	1		1892	1283
1,4-Dichlorobenzene	ND		5.5	1.5	1		1892	1283
2,4-Dichlorophenol	ND		5.5	1.4	1		1892	1283
Diethyl phthalate	ND		5.5	1.6	1		1892	1283
Dimethyl phthalate	ND		5.5	1.7	1		1892	1283
2,4-Dimethylphenol	ND		5.5	1.6	1		1892	1283
4,6-Dinitro-2-methylphenol	ND		27	4.5	1		1892	1283
2,4-Dinitrophenol	ND		27	4.6	1		1892	1283
2,6-Dinitrotoluene	ND		5.5	1.6	1		1892	1283
2,4-Dinitrotoluene	ND		5.5	1.3	1		1892	1283
Diphenylamine	ND		11	2.2	1		1892	1283
1,2-Diphenylhydrazine	ND		11	4.3	1		1892	1283
Fluoranthene	ND		5.5	1.5	1		1892	1283
Fluorene	ND		5.5	1.6	1		1892	1283
Hexachlorobenzene	ND		5.5	1.7	1		1892	1283
Hexachlorobutadiene	ND		5.5	1.6	1		1892	1283
Hexachlorocyclopentadiene	ND		5.5	1.2	1		1892	1283
Hexachloroethane	ND		5.5	1.4	1		1892	1283
Indeno(1,2,3-cd)pyrene	ND		5.5	1.5	1		1892	1283
Isophorone	ND		5.5	1.5	1		1892	1283
2-Methylnaphthalene	ND		5.5	1.6	1		1892	1283
2-Methylphenol (o-Cresol)	ND		5.5	1.5	1		1892	1283
3 & 4-Methylphenol	ND		5.5	1.5	1		1892	1283
n-Nitrosodi-n-propylamine	ND		5.5	1.7	1		1892	1283

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ANALYTICAL RESULTS

Workorder: H10060581 : Wingate Fractionating Plant | Project Number: Wingate Fractionating Plant

Lab ID: **H10060581001** | Date/Time Received: 6/24/2010 12:15 | Matrix: Water

Sample ID: **WMW-6** | Date/Time Collected: 6/23/2010 09:30

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Batch Information Analysis
n-Nitrosodimethylamine	ND		5.5	1.7	1		1892	1283
n-Nitrosodiphenylamine	ND		5.5	2.2	1		1892	1283
Naphthalene	ND		5.5	1.6	1		1892	1283
3-Nitroaniline	ND		27	4.2	1		1892	1283
4-Nitroaniline	ND		27	3.3	1		1892	1283
2-Nitroaniline	ND		27	4.6	1		1892	1283
Nitrobenzene	ND		5.5	1.6	1		1892	1283
2-Nitrophenol	ND		5.5	1.5	1		1892	1283
4-Nitrophenol	ND		27	5.7	1		1892	1283
Pentachlorophenol	ND		27	1.2	1		1892	1283
Phenanthrene	ND		5.5	1.7	1		1892	1283
Phenol	ND		5.5	1.7	1		1892	1283
Pyrene	ND		5.5	1.7	1		1892	1283
Pyridine	ND		5.5	2.6	1		1892	1283
1,2,4-Trichlorobenzene	ND		5.5	1.6	1		1892	1283
2,4,6-Trichlorophenol	ND		5.5	1.4	1		1892	1283
2,4,5-Trichlorophenol	ND		11	1.3	1		1892	1283
3,3'-Dichlorobenzidine	ND		11	3.3	1		1892	1283
2-Fluorobiphenyl (S)	87.6 %		45-108		1		1892	1283
2-Fluorophenol (S)	61.5 %		18-113		1		1892	1283
Nitrobenzene-d5 (S)	85.3 %		41-113		1		1892	1283
Phenol-d6 (S)	42.9 %		10-113		1		1892	1283
Terphenyl-d14 (S)	95.6 %		43-122		1		1892	1283
2,4,6-Tribromophenol (S)	96.7 %		25-154		1		1892	1283

VOLATILES

Analysis Desc: SW-846 8260B (GCVMS Analysis)

SW-846 5030Analytical Batches:

Batch: 1440 SW-846 8260B (GCVMS Analysis) on 07/01/2010 18:11 by DGR

Parameters	Results ug/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Batch Information Analysis
Benzene	ND		1.0	0.17	1			1440
Ethylbenzene	ND		1.0	0.097	1			1440
Toluene	ND		1.0	0.12	1			1440
m,p-Xylene	ND		1.0	0.30	1			1440
o-Xylene	ND		1.0	0.11	1			1440
Xylenes, Total	ND		1.0	0.11	1			1440
4-Bromofluorobenzene (S)	95.3 %		70-130		1			1440
1,2-Dichloroethane-d4 (S)	95.2 %		71-140		1			1440
Toluene-d8 (S)	104 %		61-121		1			1440

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ANALYTICAL RESULTS

Workorder: H10060581 : Wingate Fractionating Plant | Project Number: Wingate Fractionating Plant

Lab ID: **H10060581001** | Date/Time Received: 6/24/2010 12:15 | Matrix: Water

Sample ID: **WMW-6** | Date/Time Collected: 6/23/2010 09:30

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Preservation pH	<2				1			1440

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ANALYTICAL RESULTS

Workorder: H10060581 : Wingate Fractionating Plant

Project Number: Wingate Fractionating Plant

Lab ID: **H10060581002**
Sample ID: **WMW-8**

Date/Time Received: 6/24/2010 12:15
Date/Time Collected: 6/23/2010 10:50

Matrix: Water

Analysis Desc: EPA 300.0

Analytical Batches:
Batch: 1351 EPA 300.0 on 06/24/2010 16:25 by CFS
Batch: 1354 EPA 300.0 on 06/25/2010 18:31 by CFS

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Chloride	23.1		10.0	2.52	20			1354
Nitrogen, Nitrate (As N)	ND		0.500	0.0676	1			1351
Sulfate	134		10.0	0.870	20			1354

Analysis Desc: SM 2320 B

Analytical Batches:
Batch: 3375 SM 2320 B on 06/25/2010 13:00 by PAC

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Alkalinity, total as CaCO3	135		2.00	1.68	1			3375

WET CHEMISTRY

Analysis Desc: SM 4500-H+ B

Analytical Batches:
Batch: 2716 SM 4500-H+ B on 06/24/2010 17:30 by PAC

Parameters	Results SU	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
pH	7.28	Q	0.100		1			2716

Analysis Desc: SM 2540 C

Analytical Batches:
Batch: 1670 SM 2540 C on 06/25/2010 12:00 by CFS

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Residue, Filterable (TDS)	854		10.0	3.94	1			1670

ICP DISSOLVED METALS

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ANALYTICAL RESULTS

Workorder: H10060581 : Wingate Fractionating Plant — Project Number: Wingate Fractionating Plant

Lab ID: **H10060581002** — Date/Time Received: 6/24/2010 12:15 — Matrix: Water

Sample ID: **WMW-8** — Date/Time Collected: 6/23/2010 10:50

Analysis Desc: SW-846 6010B

Preparation Batches:

Batch: 1856 SW-846 3010A on 06/24/2010 15:15 by R_V

Analytical Batches:

Batch: 1481 SW-846 6010B on 07/04/2010 15:29 by EBG

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Arsenic	ND		0.00500	0.00140	1		1856	1481
Barium	0.202		0.00500	0.000470	1		1856	1481
Cadmium	ND		0.00500	0.000170	1		1856	1481
Calcium	43.2		0.100	0.0171	1		1856	1481
Chromium	ND		0.00500	0.000460	1		1856	1481
Iron	0.0344		0.0200	0.00640	1		1856	1481
Lead	ND		0.00500	0.000700	1		1856	1481
Magnesium	19.4		0.100	0.0483	1		1856	1481
Manganese	0.379		0.00500	0.000300	1		1856	1481
Selenium	ND		0.0100	0.00190	1		1856	1481
Silver	ND		0.00500	0.000670	1		1856	1481
Sodium	202		0.100	0.0295	1		1856	1481

SEMIVOLATILES

Analysis Desc: SW-846 8270C

Preparation Batches:

Batch: 1892 SW-846 3510C on 06/25/2010 10:44 by N_M

Analytical Batches:

Batch: 1283 SW-846 8270C on 06/29/2010 02:25 by SBG

Parameters	Results ug/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Acenaphthene	ND		5.8	1.7	1		1892	1283
Acenaphthylene	ND		5.8	1.6	1		1892	1283
Aniline	ND		5.8	2.9	1		1892	1283
Anthracene	ND		5.8	1.6	1		1892	1283
Benzo(a)anthracene	ND		5.8	1.7	1		1892	1283
Benzo(a)pyrene	ND		5.8	1.8	1		1892	1283
Benzo(b)fluoranthene	ND		5.8	1.8	1		1892	1283
Benzo(g,h,i)perylene	ND		5.8	1.8	1		1892	1283
Benzo(k)fluoranthene	ND		5.8	2.0	1		1892	1283
Benzoic acid	ND		29	4.6	1		1892	1283
Benzyl alcohol	ND		5.8	1.4	1		1892	1283
Bis(2-Chloroethoxy)methane	ND		5.8	2.7	1		1892	1283
Bis(2-Chloroethyl)ether	ND		5.8	1.8	1		1892	1283

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ANALYTICAL RESULTS

Workorder: H10060581 : Wingate Fractionating Plant | Project Number: Wingate Fractionating Plant

Lab ID: **H10060581002** | Date/Time Received: 6/24/2010 12:15 | Matrix: Water

Sample ID: **WMW-8** | Date/Time Collected: 6/23/2010 10:50

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Batch Information Analysis
bis(2-Chloroisopropyl)ether	ND		5.8	1.9	1		1892	1283
bis(2-Ethylhexyl)phthalate	ND		5.8	1.9	1		1892	1283
4-Bromophenyl phenyl ether	ND		5.8	1.7	1		1892	1283
Butyl benzyl phthalate	ND		5.8	1.8	1		1892	1283
Carbazole	ND		5.8	1.7	1		1892	1283
4-Chloro-3-methylphenol	ND		5.8	1.6	1		1892	1283
4-Chloroaniline	ND		5.8	1.5	1		1892	1283
2-Chloronaphthalene	ND		5.8	1.8	1		1892	1283
2-Chlorophenol	ND		5.8	1.6	1		1892	1283
4-Chlorophenyl phenyl ether	ND		5.8	2.0	1		1892	1283
Chrysene	ND		5.8	1.7	1		1892	1283
Cresols, Total	ND		5.8	1.6	1		1892	1283
Di-n-butyl phthalate	ND		5.8	1.8	1		1892	1283
Di-n-octyl phthalate	ND		5.8	1.8	1		1892	1283
Dibenz(a,h)anthracene	ND		5.8	1.6	1		1892	1283
Dibenzofuran	ND		5.8	1.7	1		1892	1283
1,3-Dichlorobenzene	ND		5.8	1.6	1		1892	1283
1,2-Dichlorobenzene	ND		5.8	1.6	1		1892	1283
1,4-Dichlorobenzene	ND		5.8	1.6	1		1892	1283
2,4-Dichlorophenol	ND		5.8	1.5	1		1892	1283
Diethyl phthalate	ND		5.8	1.7	1		1892	1283
Dimethyl phthalate	ND		5.8	1.8	1		1892	1283
2,4-Dimethylphenol	ND		5.8	1.7	1		1892	1283
4,6-Dinitro-2-methylphenol	ND		29	4.8	1		1892	1283
2,4-Dinitrophenol	ND		29	4.8	1		1892	1283
2,6-Dinitrotoluene	ND		5.8	1.7	1		1892	1283
2,4-Dinitrotoluene	ND		5.8	1.4	1		1892	1283
Diphenylamine	ND		12	2.3	1		1892	1283
1,2-Diphenylhydrazine	ND		12	4.6	1		1892	1283
Fluoranthene	ND		5.8	1.6	1		1892	1283
Fluorene	ND		5.8	1.7	1		1892	1283
Hexachlorobenzene	ND		5.8	1.8	1		1892	1283
Hexachlorobutadiene	ND		5.8	1.7	1		1892	1283
Hexachlorocyclopentadiene	ND		5.8	1.2	1		1892	1283
Hexachloroethane	ND		5.8	1.5	1		1892	1283
Indeno(1,2,3-cd)pyrene	ND		5.8	1.6	1		1892	1283
Isophorone	ND		5.8	1.6	1		1892	1283
2-Methylnaphthalene	ND		5.8	1.7	1		1892	1283
2-Methylphenol (o-Cresol)	ND		5.8	1.6	1		1892	1283
3 & 4-Methylphenol	ND		5.8	1.6	1		1892	1283
n-Nitrosodi-n-propylamine	ND		5.8	1.8	1		1892	1283

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ANALYTICAL RESULTS

Workorder: H10060581 : Wingate Fractionating Plant | Project Number: Wingate Fractionating Plant

Lab ID: **H10060581002** | Date/Time Received: 6/24/2010 12:15 | Matrix: Water

Sample ID: **WMW-8** | Date/Time Collected: 6/23/2010 10:50

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
n-Nitrosodimethylamine	ND		5.8	1.8	1		1892	1283
n-Nitrosodiphenylamine	ND		5.8	2.3	1		1892	1283
Naphthalene	ND		5.8	1.7	1		1892	1283
3-Nitroaniline	ND		29	4.5	1		1892	1283
4-Nitroaniline	ND		29	3.5	1		1892	1283
2-Nitroaniline	ND		29	4.9	1		1892	1283
Nitrobenzene	ND		5.8	1.7	1		1892	1283
2-Nitrophenol	ND		5.8	1.6	1		1892	1283
4-Nitrophenol	ND		29	6.0	1		1892	1283
Pentachlorophenol	ND		29	1.2	1		1892	1283
Phenanthrene	ND		5.8	1.8	1		1892	1283
Phenol	ND		5.8	1.8	1		1892	1283
Pyrene	ND		5.8	1.8	1		1892	1283
Pyridine	ND		5.8	2.8	1		1892	1283
1,2,4-Trichlorobenzene	ND		5.8	1.7	1		1892	1283
2,4,6-Trichlorophenol	ND		5.8	1.5	1		1892	1283
2,4,5-Trichlorophenol	ND		12	1.3	1		1892	1283
3,3'-Dichlorobenzidine	ND		12	3.5	1		1892	1283
2-Fluorobiphenyl (S)	94.5 %		45-108		1		1892	1283
2-Fluorophenol (S)	65.9 %		18-113		1		1892	1283
Nitrobenzene-d5 (S)	91.5 %		41-113		1		1892	1283
Phenol-d6 (S)	47.8 %		10-113		1		1892	1283
Terphenyl-d14 (S)	102 %		43-122		1		1892	1283
2,4,6-Tribromophenol (S)	103 %		25-154		1		1892	1283

VOLATILES

Analysis Desc: SW-846 8260B (GCVMS Analysis) | SW-846 5030Analytical Batches:

Batch: 1440 SW-846 8260B (GCVMS Analysis) on 07/01/2010 18:33 by DGR

Parameters	Results ug/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Benzene	ND		1.0	0.17	1			1440
Ethylbenzene	ND		1.0	0.097	1			1440
Toluene	ND		1.0	0.12	1			1440
m,p-Xylene	ND		1.0	0.30	1			1440
o-Xylene	ND		1.0	0.11	1			1440
Xylenes, Total	ND		1.0	0.11	1			1440
4-Bromofluorobenzene (S)	95.1 %		70-130		1			1440
1,2-Dichloroethane-d4 (S)	93.9 %		71-140		1			1440
Toluene-d8 (S)	104 %		61-121		1			1440

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ANALYTICAL RESULTS

Workorder: H10060581 : Wingate Fractionating Plant

Project Number: Wingate Fractionating Plant

Lab ID: **H10060581002**

Date/Time Received: 6/24/2010 12:15

Matrix: Water

Sample ID: **WMW-8**

Date/Time Collected: 6/23/2010 10:50

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Batch Information Analysis
Preservation pH	<2				1			1440

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ANALYTICAL RESULTS

Workorder: H10060581 : Wingate Fractionating Plant — Project Number: Wingate Fractionating Plant

Lab ID: **H10060581003** — Date/Time Received: 6/24/2010 12:15 — Matrix: Water

Sample ID: **WMW-7** — Date/Time Collected: 6/23/2010 13:45

Analysis Desc: EPA 300.0 — Analytical Batches:

Batch: 1351 EPA 300.0 on 06/24/2010 16:42 by CFS

Batch: 1354 EPA 300.0 on 06/25/2010 18:47 by CFS

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Chloride	71.5		25.0	6.30	50			1354
Nitrogen, Nitrate (As N)	0.500		0.500	0.0676	1			1351
Sulfate	353		25.0	2.18	50			1354

Analysis Desc: SM 2320 B — Analytical Batches:

Batch: 3375 SM 2320 B on 06/25/2010 13:00 by PAC

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Alkalinity, total as CaCO3	183		2.00	1.68	1			3375

WET CHEMISTRY

Analysis Desc: SM 4500-H+ B — Analytical Batches:

Batch: 2716 SM 4500-H+ B on 06/24/2010 17:30 by PAC

Parameters	Results SU	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
pH	7.38	H	0.100		1			2716

Analysis Desc: SM 2540 C — Analytical Batches:

Batch: 1670 SM 2540 C on 06/25/2010 12:00 by CFS

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Residue, Filterable (TDS)	1520		10.0	3.94	1			1670

ICP DISSOLVED METALS

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ANALYTICAL RESULTS

Workorder: H10060581 : Wingate Fractionating Plant — Project Number: Wingate Fractionating Plant

Lab ID: **H10060581003** — Date/Time Received: 6/24/2010 12:15 — Matrix: Water

Sample ID: **WMW-7** — Date/Time Collected: 6/23/2010 13:45

Analysis Desc: SW-846 6010B

Preparation Batches:

Batch: 1856 SW-846 3010A on 06/24/2010 15:15 by R_V

Analytical Batches:

Batch: 1481 SW-846 6010B on 07/04/2010 15:41 by EBG

Parameters	Results mg/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Arsenic	ND		0.00500	0.00140	1		1856	1481
Barium	0.0312		0.00500	0.000470	1		1856	1481
Cadmium	ND		0.00500	0.000170	1		1856	1481
Calcium	35.6		0.100	0.0171	1		1856	1481
Chromium	ND		0.00500	0.000460	1		1856	1481
Iron	0.0210		0.0200	0.00640	1		1856	1481
Lead	ND		0.00500	0.000700	1		1856	1481
Magnesium	15.0		0.100	0.0483	1		1856	1481
Manganese	0.122		0.00500	0.000300	1		1856	1481
Selenium	ND		0.0100	0.00190	1		1856	1481
Silver	ND		0.00500	0.000670	1		1856	1481
Sodium	417		0.100	0.0295	1		1856	1481

SEMIVOLATILES

Analysis Desc: SW-846 8270C

Preparation Batches:

Batch: 1892 SW-846 3510C on 06/25/2010 10:44 by N_M

Batch: SW-846 3510C on

Analytical Batches:

Batch: 1283 SW-846 8270C on 06/29/2010 03:00 by SBG

Parameters	Results ug/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Acenaphthene	ND		5.7	1.6	1		1892	1283
Acenaphthylene	ND		5.7	1.6	1		1892	1283
Aniline	ND		5.7	2.8	1		1892	1283
Anthracene	ND		5.7	1.6	1		1892	1283
Benzo(a)anthracene	ND		5.7	1.6	1		1892	1283
Benzo(a)pyrene	ND		5.7	1.8	1		1892	1283
Benzo(b)fluoranthene	ND		5.7	1.8	1		1892	1283
Benzo(g,h,i)perylene	ND		5.7	1.7	1		1892	1283
Benzo(k)fluoranthene	ND		5.7	2.0	1		1892	1283
Benzoic acid	ND		28	4.5	1		1892	1283
Benzyl alcohol	ND		5.7	1.4	1		1892	1283
Bis(2-Chloroethoxy)methane	ND		5.7	2.6	1		1892	1283

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ANALYTICAL RESULTS

Workorder: H10060581 : Wingate Fractionating Plant | Project Number: Wingate Fractionating Plant

Lab ID: **H10060581003** | Date/Time Received: 6/24/2010 12:15 | Matrix: Water

Sample ID: **WMW-7** | Date/Time Collected: 6/23/2010 13:45

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Bis(2-Chloroethyl)ether	ND		5.7	1.8	1		1892	1283
bis(2-Chloroisopropyl)ether	ND		5.7	1.8	1		1892	1283
bis(2-Ethylhexyl)phthalate	ND		5.7	1.8	1		1892	1283
4-Bromophenyl phenyl ether	ND		5.7	1.7	1		1892	1283
Butyl benzyl phthalate	ND		5.7	1.8	1		1892	1283
Carbazole	ND		5.7	1.7	1		1892	1283
4-Chloro-3-methylphenol	ND		5.7	1.6	1		1892	1283
4-Chloroaniline	ND		5.7	1.5	1		1892	1283
2-Chloronaphthalene	ND		5.7	1.8	1		1892	1283
2-Chlorophenol	ND		5.7	1.5	1		1892	1283
4-Chlorophenyl phenyl ether	ND		5.7	1.9	1		1892	1283
Chrysene	ND		5.7	1.7	1		1892	1283
Cresols, Total	ND		5.7	1.5	1		1892	1283
Di-n-butyl phthalate	ND		5.7	1.8	1		1892	1283
Di-n-octyl phthalate	ND		5.7	1.8	1		1892	1283
Dibenz(a,h)anthracene	ND		5.7	1.6	1		1892	1283
Dibenzofuran	ND		5.7	1.6	1		1892	1283
1,3-Dichlorobenzene	ND		5.7	1.6	1		1892	1283
1,2-Dichlorobenzene	ND		5.7	1.6	1		1892	1283
1,4-Dichlorobenzene	ND		5.7	1.6	1		1892	1283
2,4-Dichlorophenol	ND		5.7	1.4	1		1892	1283
Diethyl phthalate	ND		5.7	1.7	1		1892	1283
Dimethyl phthalate	ND		5.7	1.7	1		1892	1283
2,4-Dimethylphenol	ND		5.7	1.7	1		1892	1283
4,6-Dinitro-2-methylphenol	ND		28	4.7	1		1892	1283
2,4-Dinitrophenol	ND		28	4.7	1		1892	1283
2,6-Dinitrotoluene	ND		5.7	1.6	1		1892	1283
2,4-Dinitrotoluene	ND		5.7	1.4	1		1892	1283
Diphenylamine	ND		11	2.3	1		1892	1283
1,2-Diphenylhydrazine	ND		11	4.5	1		1892	1283
Fluoranthene	ND		5.7	1.6	1		1892	1283
Fluorene	ND		5.7	1.6	1		1892	1283
Hexachlorobenzene	ND		5.7	1.7	1		1892	1283
Hexachlorobutadiene	ND		5.7	1.7	1		1892	1283
Hexachlorocyclopentadiene	ND		5.7	1.2	1		1892	1283
Hexachloroethane	ND		5.7	1.5	1		1892	1283
Indeno(1,2,3-cd)pyrene	ND		5.7	1.6	1		1892	1283
Isophorone	ND		5.7	1.6	1		1892	1283
2-Methylnaphthalene	ND		5.7	1.7	1		1892	1283
2-Methylphenol (o-Cresol)	ND		5.7	1.5	1		1892	1283
3 & 4-Methylphenol	ND		5.7	1.5	1		1892	1283

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ANALYTICAL RESULTS

Workorder: H10060581 : Wingate Fractionating Plant

Project Number: Wingate Fractionating Plant

Lab ID: **H10060581003**
Sample ID: **WMW-7**

Date/Time Received: 6/24/2010 12:15 Matrix: Water
Date/Time Collected: 6/23/2010 13:45

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Batch Information Analysis
n-Nitrosodi-n-propylamine	ND		5.7	1.8	1		1892	1283
n-Nitrosodimethylamine	ND		5.7	1.7	1		1892	1283
n-Nitrosodiphenylamine	ND		5.7	2.3	1		1892	1283
Naphthalene	ND		5.7	1.7	1		1892	1283
3-Nitroaniline	ND		28	4.4	1		1892	1283
4-Nitroaniline	ND		28	3.4	1		1892	1283
2-Nitroaniline	ND		28	4.8	1		1892	1283
Nitrobenzene	ND		5.7	1.6	1		1892	1283
2-Nitrophenol	ND		5.7	1.5	1		1892	1283
4-Nitrophenol	ND		28	5.9	1		1892	1283
Pentachlorophenol	ND		28	1.2	1		1892	1283
Phenanthrene	ND		5.7	1.7	1		1892	1283
Phenol	ND		5.7	1.7	1		1892	1283
Pyrene	ND		5.7	1.8	1		1892	1283
Pyridine	ND		5.7	2.7	1		1892	1283
1,2,4-Trichlorobenzene	ND		5.7	1.6	1		1892	1283
2,4,6-Trichlorophenol	ND		5.7	1.5	1		1892	1283
2,4,5-Trichlorophenol	ND		11	1.3	1		1892	1283
3,3'-Dichlorobenzidine	ND		11	3.4	1		1892	1283
1-Iodo-2,3-epoxypropane	0.0083	JN			1			1283
2-Fluorobiphenyl (S)	91.9 %		45-108		1		1892	1283
2-Fluorophenol (S)	61.7 %		18-113		1		1892	1283
Nitrobenzene-d5 (S)	87.5 %		41-113		1		1892	1283
Phenol-d6 (S)	45 %		10-113		1		1892	1283
Terphenyl-d14 (S)	101 %		43-122		1		1892	1283
2,4,6-Tribromophenol (S)	103 %		25-154		1		1892	1283

VOLATILES

Analysis Desc: SW-846 8260B (GCVMS Analysis)

SW-846 5030Analytical Batches:

Batch: 1440 SW-846 8260B (GCVMS Analysis) on 07/01/2010 18:55 by DGR

Parameters	Results ug/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Batch Information Analysis
Benzene	ND		1.0	0.17	1			1440
Ethylbenzene	ND		1.0	0.097	1			1440
Toluene	ND		1.0	0.12	1			1440
m,p-Xylene	ND		1.0	0.30	1			1440
o-Xylene	ND		1.0	0.11	1			1440
Xylenes, Total	ND		1.0	0.11	1			1440
4-Bromofluorobenzene (S)	96.8 %		70-130		1			1440

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ANALYTICAL RESULTS

Workorder: H10060581 : Wingate Fractionating Plant | Project Number: Wingate Fractionating Plant

Lab ID: **H10060581003** | Date/Time Received: 6/24/2010 12:15 | Matrix: Water

Sample ID: **WMW-7** | Date/Time Collected: 6/23/2010 13:45

Parameters	Results	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
1,2-Dichloroethane-d4 (S)	101 %		71-140		1			1440
Toluene-d8 (S)	105 %		61-121		1			1440
Preservation pH	<2				1			1440

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ANALYTICAL RESULTS

Workorder: H10060581 : Wingate Fractionating Plant

Project Number: Wingate Fractionating Plant

Lab ID: **H10060581005**

Date/Time Received: 6/24/2010 12:15 Matrix: Water

Sample ID: **Trip Blank**

Date/Time Collected: 6/23/2010 16:15

VOLATILES

Analysis Desc: SW-846 8260B (GCVMS Analysis)

SW-846 5030Analytical Batches:

Batch: 1440 SW-846 8260B (GCVMS Analysis) on 07/01/2010 17:26 by DGR

Parameters	Results ug/l	Qual	Report Limit	MDL	DF	RegLmt	Batch Information Prep	Analysis
Benzene	ND		1.0	0.17	1			1440
Ethylbenzene	ND		1.0	0.097	1			1440
Toluene	ND		1.0	0.12	1			1440
m,p-Xylene	ND		1.0	0.30	1			1440
o-Xylene	ND		1.0	0.11	1			1440
Xylenes, Total	ND		1.0	0.11	1			1440
4-Bromofluorobenzene (S)	97.6 %		70-130		1			1440
1,2-Dichloroethane-d4 (S)	99.3 %		71-140		1			1440
Toluene-d8 (S)	105 %		61-121		1			1440
Preservation pH	<2				1			1440

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QUALITY CONTROL DATA

Workorder: H10060581 : Wingate Fractionating Plant — Project Number: Wingate Fractionating Plant

QC Batch: DIGM/1856 — Analysis Method: SW-846 6010B

QC Batch Method: SW-846 3010A — Preparation: 06/24/2010 15:15 by R_V

Associated Lab Samples: H10060581001 H10060581002 H10060581003 H10060590001

METHOD BLANK: 52901

Analysis Date/Time Analyst: 07/04/2010 14:10 EBG

Parameter	Units	Blank Result	Qualifiers	Reporting Limit
Arsenic	mg/l	ND		0.00500
Barium	mg/l	ND		0.00500
Cadmium	mg/l	ND		0.00500
Calcium	mg/l	ND		0.100
Chromium	mg/l	ND		0.00500
Iron	mg/l	ND		0.0200
Lead	mg/l	ND		0.00500
Magnesium	mg/l	ND		0.100
Manganese	mg/l	ND		0.00500
Selenium	mg/l	ND		0.0100
Silver	mg/l	ND		0.00500
Sodium	mg/l	ND		0.100

LABORATORY CONTROL SAMPLE: 52902

Analysis Date/Time Analyst: 07/04/2010 14:16 EBG

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
Arsenic	mg/l	0.10	0.0991	99.1	80-120
Barium	mg/l	0.10	0.1005	100	80-120
Cadmium	mg/l	0.10	0.0982	98.2	80-120
Calcium	mg/l	1.0	0.9942	99.4	80-120
Chromium	mg/l	0.10	0.0997	99.7	80-120
Iron	mg/l	1.0	1.005	100	80-120
Lead	mg/l	0.10	0.0984	98.4	80-120
Magnesium	mg/l	1.0	0.9892	98.9	80-120
Manganese	mg/l	0.10	0.1002	100	80-120
Selenium	mg/l	0.10	0.0968	96.8	80-120
Silver	mg/l	0.10	0.1015	102	80-120
Sodium	mg/l	1.0	1.01	101	80-120

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QUALITY CONTROL DATA

Workorder: H10060581 : Wingate Fractionating Plant — Project Number: Wingate Fractionating Plant

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 52903 52904 Original: H10060590001

MS Analysis Date/Time Analyst: 07/04/2010 14:35 EBG

MSD Analysis Date/Time Analyst: 07/04/2010 14:41 EBG

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Arsenic	mg/l	0.0047	0.10	0.1073	0.1073	103	103	75-125	0.0	20
Barium	mg/l	0.144	0.10	0.2443	0.2442	101	101	75-125	0.0	20
Cadmium	mg/l	ND	0.10	0.0976	0.0978	97.6	97.8	75-125	0.2	20
Calcium	mg/l	27.6	1.0	28.29	28.15	NC	NC	75-125	NC	20
Chromium	mg/l	0.0006	0.10	0.101	0.1006	100	100	75-125	0.4	20
Iron	mg/l	0.0142	1.0	1.005	1.009	99.1	99.5	75-125	0.4	20
Lead	mg/l	0.0006	0.10	0.0965	0.097	95.9	96.4	75-125	0.5	20
Magnesium	mg/l	13.7	1.0	14.2	14.29	NC	NC	75-125	NC	20
Manganese	mg/l	0.48	0.10	0.5695	0.5674	NC	NC	75-125	NC	20
Selenium	mg/l	ND	0.10	0.0999	0.1005	99.9	100	75-125	0.6	20
Silver	mg/l	ND	0.10	0.1021	0.1015	102	102	75-125	0.6	20
Sodium	mg/l	162	1.0	159.8	162.5	NC	NC	75-125	NC	20

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QUALITY CONTROL DATA

Workorder: H10060581 : Wingate Fractionating Plant — Project Number: Wingate Fractionating Plant

QC Batch: WCSH/2716 — Analysis Method: SM 4500-H+ B

QC Batch Method: SM 4500-H+ B

Associated Lab Samples: H10060562001, H10060581001, H10060581002, H10060581003, H10060582001, H10060585001, H10060590001, H10060591001

LABORATORY CONTROL SAMPLE: 53028

Analysis Date/Time Analyst: 06/24/2010 17:30 PAC

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
pH	SU	7	7.05	101	98-102

SAMPLE DUPLICATE: 53029 — Original: H10060562001

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	DF
WET CHEMISTRY						1
pH	SU	7.20	7.21	0.1	5	1

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QUALITY CONTROL DATA

Workorder: H10060581 : Wingate Fractionating Plant — Project Number: Wingate Fractionating Plant

QC Batch: EXTO/1892 — Analysis Method: SW-846 8270C

QC Batch Method: SW-846 3510C — Preparation: 06/25/2010 10:43 by N_M

Associated Lab Samples: H10060581001 H10060581002 H10060581003 H10060590001

METHOD BLANK: 53093

Analysis Date/Time Analyst: 06/28/2010 21:09 SBG

Parameter	Units	Blank Result	Qualifiers	Reporting Limit
Acenaphthene	ug/l	ND		5.0
Acenaphthylene	ug/l	ND		5.0
Aniline	ug/l	ND		5.0
Anthracene	ug/l	ND		5.0
Benzo(a)anthracene	ug/l	ND		5.0
Benzo(a)pyrene	ug/l	ND		5.0
Benzo(b)fluoranthene	ug/l	ND		5.0
Benzo(g,h,i)perylene	ug/l	ND		5.0
Benzo(k)fluoranthene	ug/l	ND		5.0
Benzoic acid	ug/l	ND		25
Benzyl alcohol	ug/l	ND		5.0
Bis(2-Chloroethoxy)methane	ug/l	ND		5.0
Bis(2-Chloroethyl)ether	ug/l	ND		5.0
bis(2-Chloroisopropyl)ether	ug/l	ND		5.0
bis(2-Ethylhexyl)phthalate	ug/l	ND		5.0
4-Bromophenyl phenyl ether	ug/l	ND		5.0
Butyl benzyl phthalate	ug/l	ND		5.0
Carbazole	ug/l	ND		5.0
4-Chloro-3-methylphenol	ug/l	ND		5.0
4-Chloroaniline	ug/l	ND		5.0
2-Chloronaphthalene	ug/l	ND		5.0
2-Chlorophenol	ug/l	ND		5.0
4-Chlorophenyl phenyl ether	ug/l	ND		5.0
Chrysene	ug/l	ND		5.0
Cresols, Total	ug/l	ND		5.0
Di-n-butyl phthalate	ug/l	ND		5.0
Di-n-octyl phthalate	ug/l	ND		5.0
Dibenz(a,h)anthracene	ug/l	ND		5.0
Dibenzofuran	ug/l	ND		5.0
1,3-Dichlorobenzene	ug/l	ND		5.0
1,2-Dichlorobenzene	ug/l	ND		5.0
1,4-Dichlorobenzene	ug/l	ND		5.0
2,4-Dichlorophenol	ug/l	ND		5.0
Diethyl phthalate	ug/l	ND		5.0
Dimethyl phthalate	ug/l	ND		5.0
2,4-Dimethylphenol	ug/l	ND		5.0
4,6-Dinitro-2-methylphenol	ug/l	ND		25
2,4-Dinitrophenol	ug/l	ND		25
2,6-Dinitrotoluene	ug/l	ND		5.0
2,4-Dinitrotoluene	ug/l	ND		5.0

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QUALITY CONTROL DATA

Workorder: H10060581 : Wingate Fractionating Plant | Project Number: Wingate Fractionating Plant

METHOD BLANK: 53093

Analysis Date/Time Analyst: 06/28/2010 21:09 SBG

Parameter	Units	Blank Result	Qualifiers	Reporting Limit
Diphenylamine	ug/l	ND		10
1,2-Diphenylhydrazine	ug/l	ND		10
Fluoranthene	ug/l	ND		5.0
Fluorene	ug/l	ND		5.0
Hexachlorobenzene	ug/l	ND		5.0
Hexachlorobutadiene	ug/l	ND		5.0
Hexachlorocyclopentadiene	ug/l	ND		5.0
Hexachloroethane	ug/l	ND		5.0
Indeno(1,2,3-cd)pyrene	ug/l	ND		5.0
Isophorone	ug/l	ND		5.0
2-Methylnaphthalene	ug/l	ND		5.0
2-Methylphenol (o-Cresol)	ug/l	ND		5.0
3 & 4-Methylphenol	ug/l	ND		5.0
n-Nitrosodi-n-propylamine	ug/l	ND		5.0
n-Nitrosodimethylamine	ug/l	ND		5.0
n-Nitrosodiphenylamine	ug/l	ND		5.0
Naphthalene	ug/l	ND		5.0
3-Nitroaniline	ug/l	ND		25
4-Nitroaniline	ug/l	ND		25
2-Nitroaniline	ug/l	ND		25
Nitrobenzene	ug/l	ND		5.0
2-Nitrophenol	ug/l	ND		5.0
4-Nitrophenol	ug/l	ND		25
Pentachlorophenol	ug/l	ND		25
Phenanthrene	ug/l	ND		5.0
Phenol	ug/l	ND		5.0
Pyrene	ug/l	ND		5.0
Pyridine	ug/l	ND		5.0
1,2,4-Trichlorobenzene	ug/l	ND		5.0
2,4,6-Trichlorophenol	ug/l	ND		5.0
2,4,5-Trichlorophenol	ug/l	ND		10
3,3'-Dichlorobenzidine	ug/l	ND		10
2-Fluorobiphenyl (S)	%	78		45-108
2-Fluorophenol (S)	%	60.9		18-113
Nitrobenzene-d5 (S)	%	76.4		41-113
Phenol-d6 (S)	%	45.6		10-113
Terphenyl-d14 (S)	%	87.6		43-122
2,4,6-Tribromophenol (S)	%	84		25-154

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QUALITY CONTROL DATA

Workorder: H10060581 : Wingate Fractionating Plant — Project Number: Wingate Fractionating Plant

LABORATORY CONTROL SAMPLE & LCSD: 53094 53095

LCS Analysis Date/Time Analyst: 06/28/2010 19:58 SBG

LCSD Analysis Date/Time 06/28/2010 20:34 SBG

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD
Acenaphthene	ug/l	25	21.4	22.6	86.0	91.0	52-117	5.4	30
Acenaphthylene	ug/l	25	22.0	23.4	88.0	93.0	53-117	5.7	30
Aniline	ug/l	50	38.6	41.7	77.0	83.0	47-106	7.6	30
Anthracene	ug/l	25	22.0	23.6	88.0	94.0	49-126	7.0	30
Benzo(a)anthracene	ug/l	25	22.0	23.5	88.0	94.0	53-121	6.6	30
Benzo(a)pyrene	ug/l	25	18.1	19.2	72.0	77.0	47-100	5.6	30
Benzo(b)fluoranthene	ug/l	25	20.2	21.2	81.0	85.0	52-113	4.6	30
Benzo(g,h,i)perylene	ug/l	25	20.0	22.2	80.0	89.0	52-121	10.0	30
Benzo(k)fluoranthene	ug/l	25	21.1	22.2	84.0	89.0	54-117	5.1	30
Benzoic acid	ug/l	25	ND	ND	86.0	92.0	10-133	7.0	30
Benzyl alcohol	ug/l	25	21.5	23.6	86.0	94.0	40-127	9.3	30
Bis(2-Chloroethoxy)methane	ug/l	25	19.4	21.0	78.0	84.0	47-113	7.9	30
Bis(2-Chloroethyl)ether	ug/l	25	21.6	22.8	86.0	91.0	48-112	5.2	30
bis(2-Chloroisopropyl)ether	ug/l	25	21.3	22.6	85.0	91.0	50-150	6.1	30
bis(2-Ethylhexyl)phthalate	ug/l	25	22.3	24.0	89.0	96.0	42-139	7.3	30
4-Bromophenyl phenyl ether	ug/l	25	22.2	23.9	89.0	96.0	53-121	7.4	30
Butyl benzyl phthalate	ug/l	25	23.4	24.9	93.0	100	40-139	6.4	30
Carbazole	ug/l	25	21.6	22.2	86.0	89.0	47-123	3.0	30
4-Chloro-3-methylphenol	ug/l	25	20.8	22.2	83.0	89.0	49-120	6.3	30
4-Chloroaniline	ug/l	25	21.2	22.6	85.0	90.0	54-116	6.4	30
2-Chloronaphthalene	ug/l	25	21.9	23.0	88.0	92.0	52-118	4.9	30
2-Chlorophenol	ug/l	25	21.0	22.6	84.0	90.0	50-115	7.1	30
4-Chlorophenyl phenyl ether	ug/l	25	22.4	23.6	90.0	94.0	54-116	5.0	30
Chrysene	ug/l	25	21.8	23.1	87.0	92.0	53-117	5.8	30
Cresols, Total	ug/l	50	42.7	46.2	85.0	92.0	44-132	7.8	30
Di-n-butyl phthalate	ug/l	25	23.0	25.0	92.0	100	42-141	8.1	30
Di-n-octyl phthalate	ug/l	25	20.6	22.1	83.0	88.0	40-135	6.8	30
Dibenz(a,h)anthracene	ug/l	25	20.2	21.4	81.0	86.0	49-120	5.5	30
Dibenzofuran	ug/l	25	22.1	23.2	88.0	93.0	55-119	4.9	30
1,3-Dichlorobenzene	ug/l	25	20.1	21.0	80.0	84.0	49-106	4.6	30
1,2-Dichlorobenzene	ug/l	25	20.7	21.6	83.0	86.0	50-109	4.3	30
1,4-Dichlorobenzene	ug/l	25	20.0	20.9	80.0	84.0	48-106	4.7	30
2,4-Dichlorophenol	ug/l	25	20.7	22.5	83.0	90.0	50-110	8.3	30
Diethyl phthalate	ug/l	25	21.0	21.8	84.0	87.0	45-129	3.7	30
Dimethyl phthalate	ug/l	25	22.1	23.4	88.0	94.0	52-122	5.9	30
2,4-Dimethylphenol	ug/l	25	21.0	22.6	84.0	90.0	50-120	7.3	30
4,6-Dinitro-2-methylphenol	ug/l	25	ND	ND	67.0	71.0	23-127	5.5	30
2,4-Dinitrophenol	ug/l	25	ND	ND	60.0	67.0	10-122	11.0	30
2,6-Dinitrotoluene	ug/l	25	21.8	23.3	87.0	93.0	48-127	6.9	30
2,4-Dinitrotoluene	ug/l	25	21.6	23.0	86.0	92.0	50-129	6.5	30
Diphenylamine	ug/l	50	47.5	51.5	95.0	100	62-136	8.1	30
1,2-Diphenylhydrazine	ug/l	25	23.2	24.8	93.0	99.0	40-142	6.7	30
Fluoranthene	ug/l	25	22.3	23.2	89.0	93.0	49-132	4.0	30

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QUALITY CONTROL DATA

Workorder: H10060581 : Wingate Fractionating Plant — Project Number: Wingate Fractionating Plant

LABORATORY CONTROL SAMPLE & LCSD: 53094 53095

LCS Analysis Date/Time Analyst: 06/28/2010 19:58 SBG

LCSD Analysis Date/Time 06/28/2010 20:34 SBG

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD
Fluorene	ug/l	25	22.0	23.0	88.0	92.0	54-119	4.9	30
Hexachlorobenzene	ug/l	25	21.8	22.9	87.0	92.0	53-117	5.2	30
Hexachlorobutadiene	ug/l	25	20.2	21.3	81.0	85.0	49-106	5.1	30
Hexachlorocyclopentadiene	ug/l	25	19.4	20.2	78.0	81.0	17-105	3.8	30
Hexachloroethane	ug/l	25	20.1	20.8	80.0	83.0	42-110	3.7	30
Indeno(1,2,3-cd)pyrene	ug/l	25	20.5	21.1	82.0	84.0	50-129	2.9	30
Isophorone	ug/l	25	24.7	27.0	99.0	110	52-134	8.9	30
2-Methylnaphthalene	ug/l	25	20.8	22.6	83.0	90.0	52-116	8.3	30
2-Methylphenol (o-Cresol)	ug/l	25	21.4	23.1	85.0	92.0	49-118	7.9	30
3 & 4-Methylphenol	ug/l	25	21.4	23.0	85.0	92.0	44-132	7.7	30
n-Nitrosodi-n-propylamine	ug/l	25	22.4	23.8	90.0	95.0	47-118	5.8	30
n-Nitrosodimethylamine	ug/l	25	21.0	22.3	84.0	89.0	32-121	6.0	30
n-Nitrosodiphenylamine	ug/l	50	47.5	51.5	95.0	100	62-136	8.1	30
Naphthalene	ug/l	25	21.3	22.4	85.0	89.0	53-111	4.8	30
3-Nitroaniline	ug/l	25	ND	ND	83.0	87.0	31-114	4.0	30
4-Nitroaniline	ug/l	25	ND	ND	81.0	86.0	41-118	5.5	30
2-Nitroaniline	ug/l	25	ND	ND	84.0	93.0	43-127	10.0	30
Nitrobenzene	ug/l	25	20.4	21.6	82.0	87.0	47-116	5.9	30
2-Nitrophenol	ug/l	25	18.8	20.8	75.0	83.0	29-182	10.0	30
4-Nitrophenol	ug/l	25	ND	ND	79.0	84.0	21-130	6.9	30
Pentachlorophenol	ug/l	25	ND	ND	72.0	74.0	52-115	3.0	30
Phenanthrene	ug/l	25	23.4	24.6	93.0	98.0	49-124	5.2	30
Phenol	ug/l	25	23.6	25.0	94.0	100	37-128	5.8	30
Pyrene	ug/l	25	22.0	23.6	88.0	94.0	52-122	6.8	30
Pyridine	ug/l	50	36.2	38.2	72.0	76.0	37-99	5.2	30
1,2,4-Trichlorobenzene	ug/l	25	21.0	22.2	84.0	89.0	52-109	5.6	30
2,4,6-Trichlorophenol	ug/l	25	21.0	22.5	84.0	90.0	38-150	6.9	30
2,4,5-Trichlorophenol	ug/l	25	21.2	22.4	85.0	90.0	48-120	5.5	30
3,3'-Dichlorobenzidine	ug/l	25	17.8	18.9	71.0	76.0	30-104	5.7	30
2-Fluorobiphenyl (S)	%				82.3	79.6	45-108		30
2-Fluorophenol (S)	%				68.0	67.3	18-113		30
Nitrobenzene-d5 (S)	%				83.0	83.6	41-113		30
Phenol-d6 (S)	%				51.2	51.7	10-113		30
Terphenyl-d14 (S)	%				85.4	86.6	43-122		30
2,4,6-Tribromophenol (S)	%				92.7	90.7	25-154		30

QC results presented in the QC Control Data 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. Also, MS/MSD % recoveries are calculated by the SPL LIMS using any detected value greater than the MDL.

SPL Inc.
8880 Interchange Drive
Houston, TX 77054
Phone: (713) 660-0901
Fax: (713) 660-8975

QUALITY CONTROL DATA

Workorder: H10060581 : Wingate Fractionating Plant Project Number: Wingate Fractionating Plant

QC Batch: WETS/1670 Analysis Method: SM 2540 C

QC Batch Method: SM 2540 C

Associated Lab Samples: H10060581001 H10060581002 H10060581003 H10060584001 H10060590001

METHOD BLANK: 53129

Analysis Date/Time Analyst: 06/25/2010 12:00 CFS

Parameter	Units	Blank Result	Qualifiers	Reporting Limit
Residue, Filterable (TDS)	mg/l	ND		10.0

LABORATORY CONTROL SAMPLE & LCSD: 53130 53131

LCS Analysis Date/Time Analyst: 06/25/2010 12:00 CFS

LCSD Analysis Date/Time 06/25/2010 12:00 CFS

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD
Residue, Filterable (TDS)	mg/l	200	198.0	201.0	99.0	100	95-107	1.5	10

SAMPLE DUPLICATE: 53132 Original: H10060591001

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	DF
WET CHEMISTRY						1
Residue, Filterable (TDS)	mg/l	882	889	0.8	10	1

QC results presented in the QC Control Data 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. Also, MS/MSD % recoveries are calculated by the SPL LIMS using any detected value greater than the MDL.

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QUALITY CONTROL DATA

Workorder: H10060581 : Wingate Fractionating Plant — Project Number: Wingate Fractionating Plant

QC Batch: WETC/3375 — Analysis Method: SM 2320 B

QC Batch Method: SM 2320 B

Associated Lab Samples: H10060541001, H10060541002, H10060541003, H10060541004, H10060541005, H10060581001, H10060581002, H10060581003, H10060590001

METHOD BLANK: 53210

Analysis Date/Time Analyst: 06/25/2010 13:00 PAC

Parameter	Units	Blank Result	Qualifiers	Reporting Limit
Alkalinity, total as CaCO3	mg/l	ND		2.00

LABORATORY CONTROL SAMPLE: 53211

Analysis Date/Time Analyst: 06/25/2010 13:00 PAC

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
Alkalinity, total as CaCO3	mg/l	36	36.0	101	90-110

SAMPLE DUPLICATE: 53212 — Original: H10060590001

Parameter	Units	Original Result	DUP Result	RPD	Max RPD	DF
WET CHEMISTRY						1
Alkalinity, total as CaCO3	mg/l	148	148	0.0	20	1

QC results presented in the QC Control Data 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. Also, MS/MSD % recoveries are calculated by the SPL LIMS using any detected value greater than the MDL.

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QUALITY CONTROL DATA

Workorder: H10060581 : Wingate Fractionating Plant — Project Number: Wingate Fractionating Plant

QC Batch: IC/1354 — Analysis Method: EPA 300.0

QC Batch Method: EPA 300.0

Associated Lab Samples: H10060573001 H10060576001 H10060581001 H10060581002 H10060581003 H10060590001 H10060596001

METHOD BLANK: 53355

Analysis Date/Time Analyst: 06/25/2010 10:11 CFS

Parameter	Units	Blank Result	Qualifiers	Reporting Limit
Sulfate	mg/l	ND		0.500
Chloride	mg/l	ND		0.500

LABORATORY CONTROL SAMPLE & LCSD: 53356 53357

LCS Analysis Date/Time Analyst: 06/25/2010 10:27 CFS

LCSD Analysis Date/Time 06/25/2010 20:16 CFS

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD
Sulfate	mg/l	10	9.944	10.09	99.4	101	85-115	1.5	20
Chloride	mg/l	10	9.765	9.696	97.7	97.0	85-115	0.7	20

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 53358 53359 Original: H10060590001

MS Analysis Date/Time Analyst: 06/25/2010 19:27 CFS

MSD Analysis Date/Time Analyst: 06/25/2010 19:43 CFS

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Sulfate	mg/l	18.8	50	70.84	70.17	104	103	80-120	1.0	20
Chloride	mg/l	20.5	50	70.82	68.06	101	95.1	80-120	4.0	20

QC results presented in the QC Control Data 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. Also, MS/MSD % recoveries are calculated by the SPL LIMS using any detected value greater than the MDL.

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QUALITY CONTROL DATA

Workorder: H10060581 : Wingate Fractionating Plant — Project Number: Wingate Fractionating Plant

QC Batch: GVMS/1439 — Analysis Method: SW-846 8260B (GCVMS Analysis)

QC Batch Method: SW-846 5030 — Preparation: 07/01/2010 00:00 by DGR

Associated Lab Samples: H10060581001, H10060581002, H10060581003, H10060581005, H10060590001, H10060626010, H10060626011, H10060626016

METHOD BLANK: 54657

Analysis Date/Time Analyst: 07/01/2010 17:04 DGR

Parameter	Units	Blank Result	Qualifiers	Reporting Limit
Benzene	ug/l	ND		1.0
Ethylbenzene	ug/l	ND		1.0
Toluene	ug/l	ND		1.0
m,p-Xylene	ug/l	ND		1.0
o-Xylene	ug/l	ND		1.0
Xylenes, Total	ug/l	ND		1.0
4-Bromofluorobenzene (S)	%	97.5		70-130
1,2-Dichloroethane-d4 (S)	%	99.4		71-140
Toluene-d8 (S)	%	105		61-121

LABORATORY CONTROL SAMPLE: 54658

Analysis Date/Time Analyst: 07/01/2010 15:58 DGR

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits
Benzene	ug/l	20	22.0	110	70-130
Ethylbenzene	ug/l	20	20.6	103	70-130
Toluene	ug/l	20	21.4	107	73-130
m,p-Xylene	ug/l	40	41.9	105	70-130
o-Xylene	ug/l	20	21.6	108	70-130
Xylenes, Total	ug/l	60	63.49	106	70-130
4-Bromofluorobenzene (S)	%			97.3	70-130
1,2-Dichloroethane-d4 (S)	%			97.5	71-140
Toluene-d8 (S)	%			105	61-121

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 54659 54660 Original: H10060590001

MS Analysis Date/Time Analyst: 07/01/2010 22:20 DGR

MSD Analysis Date/Time Analyst: 07/01/2010 22:42 DGR

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
Benzene	ug/l	ND	20	22.4	20.5	112	103	67-202	8.8	20
Ethylbenzene	ug/l	ND	20	21.0	19.9	105	99.6	49-165	5.1	20
Toluene	ug/l	ND	20	21.9	20.4	109	102	48-162	7.1	20

QC results presented in the QC Control Data 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. Also, MS/MSD % recoveries are calculated by the SPL LIMS using any detected value greater than the MDL.

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QUALITY CONTROL DATA

Workorder: H10060581 : Wingate Fractionating Plant — Project Number: Wingate Fractionating Plant

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 54659 54660 Original: H10060590001

MS Analysis Date/Time Analyst: 07/01/2010 22:20 DGR

MSD Analysis Date/Time Analyst: 07/01/2010 22:42 DGR

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD
m,p-Xylene	ug/l	0.12	40	42.8	40.6	107	101	44-167	5.2	20
o-Xylene	ug/l	ND	20	21.6	20.6	108	103	54-158	4.7	20
Xylenes, Total	ug/l	ND	60	64.36	61.21	107	102	44-167	5.0	20
4-Bromofluorobenzene (S)	%	96.1				97.4	96.6	70-130		30
1,2-Dichloroethane-d4 (S)	%	95				98.8	95.1	71-140		30
Toluene-d8 (S)	%	104				105	104	61-121		30

QC results presented in the QC Control Data 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. Also, MS/MSD % recoveries are calculated by the SPL LIMS using any detected value greater than the MDL.

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Legend

(S) - Indicates analyte is a surrogate

Qualifier	Qualifier Description
*	Recovery/RPD value outside QC limits
+	DCS Concentration
B	Analyte detected in the Method Blank
C	MTBE results were not confirmed by GCMS
D	Recovery out of range due to dilution
E	Results exceed calibration range
H	Exceeds holding time
I	Estimated value, between MDL and PQL (Florida)
J	Estimated value
JN	The analysis indicates the presence of an analyte
MI	Matrix Interference
N	Recovery outside of control limits
NC	Not Calculable (Sample Duplicate)
NC	Not Calculated - Sample concentration > 4 times the spike
ND	Not Detected at reporting Limits
P	Pesticide dual column results, greater then 25%
Q	Received past holding time
TNTC	Too numerous to count
U	Not Detected at reporting Limits

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: H10060581 : Wingate Fractionating Plant

Project Number: Wingate Fractionating Plant

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
H10060581001	**WMW-6**	SW-846 3010A	DIGM/1856	SW-846 6010B	ICP/1481
H10060581002	**WMW-8**	SW-846 3010A	DIGM/1856	SW-846 6010B	ICP/1481
H10060581003	**WMW-7**	SW-846 3010A	DIGM/1856	SW-846 6010B	ICP/1481
H10060581001	**WMW-6**	SM 4500-H+ B	WCSH/2716		
H10060581002	**WMW-8**	SM 4500-H+ B	WCSH/2716		
H10060581003	**WMW-7**	SM 4500-H+ B	WCSH/2716		
H10060581001	**WMW-6**	SW-846 3510C	EXTO/1892	SW-846 8270C	MSSV/1283
H10060581002	**WMW-8**	SW-846 3510C	EXTO/1892	SW-846 8270C	MSSV/1283
H10060581003	**WMW-7**	SW-846 3510C	EXTO/1892	SW-846 8270C	MSSV/1283
H10060581001	**WMW-6**	SM 2540 C	WETS/1670		
H10060581002	**WMW-8**	SM 2540 C	WETS/1670		
H10060581003	**WMW-7**	SM 2540 C	WETS/1670		
H10060581001	**WMW-6**	EPA 300.0	IC/1351		
H10060581002	**WMW-8**	EPA 300.0	IC/1351		
H10060581003	**WMW-7**	EPA 300.0	IC/1351		
H10060581001	**WMW-6**	SM 2320 B	WETC/3375		
H10060581002	**WMW-8**	SM 2320 B	WETC/3375		
H10060581003	**WMW-7**	SM 2320 B	WETC/3375		
H10060581001	**WMW-6**	EPA 300.0	IC/1354		
H10060581002	**WMW-8**	EPA 300.0	IC/1354		
H10060581003	**WMW-7**	EPA 300.0	IC/1354		
H10060581003	**WMW-7**	SW-846 8270C	MSSV/1283		
H10060581001	**WMW-6**	SW-846 5030	GVMS/1439	SW-846 8260B (GCVMS Analysis)	GVMS/1440
H10060581002	**WMW-8**	SW-846 5030	GVMS/1439	SW-846 8260B (GCVMS Analysis)	GVMS/1440
H10060581003	**WMW-7**	SW-846 5030	GVMS/1439	SW-846 8260B (GCVMS Analysis)	GVMS/1440
H10060581005	**Trip Blank**	SW-846 5030	GVMS/1439	SW-846 8260B (GCVMS Analysis)	GVMS/1440

SPL Inc.
8880 Interchange Drive
Houston, TX 77054
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Fax: (713) 660-8975

Sample Receipt Checklist

WorkOrder:	H10060581	Received By	LOG
Date and Time	06/24/2010 12:15	Carrier Name:	FEDEXS
Temperature:	4.0/3.0°C	Chilled By:	Water Ice

1.	Shipping container/cooler in good condition?	YES
2.	Custody seals intact on shipping container/cooler?	YES
3.	Custody seals intact on sample bottles?	Not Present
4.	Chain of custody present?	YES
5.	Chain of custody signed when relinquished and received?	YES
6.	Chain of custody agrees with sample labels?	YES
7.	Samples in proper container/bottle?	YES
8.	Samples containers intact?	YES
9.	Sufficient sample volume for indicated test?	YES
10.	All samples received within holding time? Lab received pH out of method holding time.	NO
11.	Container/Temp Blank temperature in compliance?	YES
12.	Water - VOA vials have zero headspace?	YES
13.	Water - Preservation checked upon receipt(except VOA*)?	YES

*VOA Preservation Checked After Sample Analysis

SPL Representative: Contact Date & Time:

Client Name Contacted:

Client Instructions:

SPL Inc.
8880 Interchange Drive
Houston, TX 77054
Phone: (713) 660-0901
Fax: (713) 660-8975

SPL, INC.

Analysis Request & Chain of Custody Record

H10060581

Page No. 1 of 2

Client Name:	Tetra Tech / ConocoPhillips
Address:	6121 Indian School #200
Address:	Albuquerque NM Zip: 87110
Phone/Fax:	505-237-8940 505-232-8656
Client Contact:	Kelly Blanchard
Email:	kelly.blanchard@tetratech.com
Project Name/No:	Wingate
Site Name:	
Site Location:	Gallup, NM
Invoice To:	ConocoPhillips

SAMPLE ID	DATE	TIME	COMP	GRAB	MATRIX (W = Water, S = Soil, SL = Sludge, O = other)	BOTTLE (P = plastic, A = Amber glass, G = glass, V = vial)	SIZE (1 = 1 liter, 4 = 4 oz, 40 = vial, 8 = 8 oz, 16 = 16 oz)	PRES (1 = HCL, 2 = HNO3, 3 = H2SO4, O = other)	Number of Containers	REQUESTED ANALYSIS: BTEX ONLY 8260	SVOC TCL 8270	TDS, pH, Alkalinity	Chloride, Sulfate, Nitrate	Dissolved Metals	BOD	COD
WMW-6	6/23	0930	☐	X	W	V	40	1	3	X						
WMW-6	6/23	0930	☐	X	W	A	1	NONE	2		X					
WMW-6	6/23	0930	☐	X	W	P	1	NONE	2			X	X			
WMW-6	6/23	0930	☐	X	W	P	16	NONE	1					X		
WMW-8	6/23	1050	☐	X	W	V	40	1	3	X						
WMW-8	6/23	1050	☐	X	W	A	1	NONE	2		X					
WMW-8	6/23	1050	☐	X	W	P	1	NONE	2			X	X			
WMW-8	6/23	1050	☐	X	W	P	16	NONE	1					X		
WMW-7	6/23	1345	☐	X	W	V	40	1	3	X						
WMW-7	6/23	1345	☐	X	W	A	1	NONE	2		X					

Client/Consultant Remarks: Field pH:

Laboratory Remarks:

Please filter metals containers prior to analysis

RUSH

Intact? ☑Y ☐N

Iced? ☑Y ☐N

Temp: 4.0/3.0C

Requested TAT: ☐ Contract ☐ 24 hr ☐ 48 hr ☐ 72 hr ☒ Standard ☐ Other

Special Reporting Requirements: ☐ Fax ☒ Email ☒ PDF ☒ Standard QC ☐ Level 3 QC ☐ Level 4 QC ☐ TX TRRP ☐ LA RECAP

Special Detection Limit (Specify):

Custody Seals: ☑Y ☐N

Cooler: ☑Y ☐N

Container: ☐Y ☑N

RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:
1. By Sampler: Matthew Matthews	6/23/10	1630	2. Received By:
3. By:			4. Received By:
5. By:	6/24/10	12:15	6. Received By: Amanda Vickman

☒ 8880 Interchange Drive, Houston, TX 77054 Phone: 800-969-6775

☐ 500 Ambassador Caffery Pkwy., Scott, LA 70583 Phone: 800-304-5227

☐ 450 Hughes Drive, Traverse City, MI 49686 Phone: 866-775-6424

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SPL, INC.

Analysis Request & Chain of Custody Record

SPL Workorder No: H10060581

Page No: 2 of 2

Client Name:	Tetra Tech / ConocoPhillips
Address:	6121 Indian School #200
Address:	Albuquerque NM Zip: 87110
Phone/Fax:	505-237-8440 505-237-8656
Client Contact:	Kelly Blanchard
Email:	kelly.blanchard@tetratech.com
Project Name/No:	Wingate
Site Name:	
Site Location:	Gallup, NM
Invoice To:	ConocoPhillips

SAMPLE ID	DATE	TIME	COMP.	GRAB	MATRIX (W = Water, S = Soil, SL = Sludge, O = other)	BOTTLE (P = Plastic, A = Amber glass, G = glass, V = vial)	SIZE (1 = 1 liter, 4 = ½ oz, 40 = vial, 8 = 8 oz, 16 = 16 oz)	PRES. (1 = HCL, 2 = HNO3, 3 = H2SO4, O = other)	Number of Containers	BTEX ONLY 8260	SVOC TCL 8270	TDS, pH, Alkalinity	Chloride, Sulfate, Nitrate	Dissolved metals	BOD	COD				
MW-7	6/23	1345	☐	X	W	P	1	NONE	2			X	X							
MW-7	6/23	1345	☐	X	W	P	16	NONE	1					X						
MW-3	6/23	1455	☐	X	W	V	40	1	3	X										
MW-3	6/23	1455	☐	X	W	A	1	NONE	2		X									
MW-3	6/23	1455	☐	X	W	P	1	NONE	3			X	X		X					
MW-3	6/23	1455	☐	X	W	P	16	NONE	1					X						
MW-3	6/23	1455	☐	X	W	P	16	3	1							X				
Trip Blank	6/23	1615	☐	X	W	V	40	1	2	X										
			☐	X	W															
			☐	X	W															

Client/Consultant Remarks: please filter metals containers prior to analysis

Field pH:

Laboratory Remarks:

Intact? ☑Y ☐N

Ice? ☑Y ☐N

Temp: 4.0/3.0C

Requested TAT: ☐ Contract ☐ 24 hr ☐ 48 hr ☐ 72 hr ☒ Standard ☐ Other

Special Reporting Requirements: ☒ Standard QC ☐ Level 3 QC ☐ Level 4 QC ☐ Fax ☒ Email ☒ PDF ☐ TX TRRP ☐ LA RECAP

Special Detection Limit: (Specify)

Custody Seals: ☐Y ☐N

Cooler: ☑Y ☐N

Container: ☐Y ☑N

RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:
1. By Sample:	6/23/10	1630	2. Received By:
3. By:	6/24/10	1215	4. Received By:
5. By:			5. Received By: Amanda Vickrian

☒ 8880 Interchange Drive, Houston, TX 77054 Phone: 800-969-6775

☐ 500 Ambassador Caffery Pkwy., Scott, LA 70583 Phone: 800-304-5227

☐ 459 Hughes Drive, Traverse City, MI 49686 Phone: 888-775-6424

Report ID: H10060581_6089
Printed: 07/09/2010 14:21

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

COVER LETTER

Tuesday, July 13, 2010

Kelly Blanchard
Tetra Tech EMI Inc.
6121 Indian School Rd. NE
Suite 200
Albuquerque, NM 87110

TEL: ( ) 975-2563
FAX (505) 881-3283

RE: Wingate Re-sample

Order No.: 1007045

Dear Kelly Blanchard:

Hall Environmental Analysis Laboratory, Inc. received 5 sample(s) on 7/2/2010 for the analyses presented in the following report.

This report is an addendum to the report dated July 6, 2010. This is an updated report.

No determination of compounds below these (denoted by the ND or < sign) has been made.

Reporting limits are determined by EPA methodology.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Laboratory Manager

NM Lab # NM9425
AZ license # AZ0682
ORELAP Lab # NM100001
Texas Lab# T104704424-08-TX

4901 Hawkins NE ■ Suite D ■ Albuquerque, NM 87109
505.345.3975 ■ Fax 505.345.4107
www.hallenvironmental.com

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Tetra Tech EMI Inc.
Lab Order: 1007045
Facility: Wingate Re-sample
Lab ID: 1007045-01A

WSS ID:
Location:

Client Sample ID: MWR-1
Collection Date: 7/1/2010 10:40:00 AM
Matrix: AQUEOUS
Compliance Safe:
Date Received: 7/2/2010
Prep Date: 7/2/2010 11:30:00 AM

Analyses		Result	Qual	RL	MCL	Units	Dil Fac
SDWIS Code	**SM 9223B FECAL INDICATOR: E. COLI MPN**	Date Analyzed: 7/3/2010 11:30:00 AM			Analyst: **MAW**		
3000	Total Coliform	< 1		1		CFU/100ml	1
3014	E. Coli	< 1		1		CFU/100ml	1

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Tetra Tech EMI Inc.
Lab Order: 1007045
Facility: Wingate Re-sample
Lab ID: 1007045-02A
WSS ID:
Location:

Client Sample ID: West Pond
Collection Date: 7/1/2010 10:15:00 AM
Matrix: AQUEOUS
Compliance Safe:
Date Received: 7/2/2010
Prep Date: 7/2/2010 11:30:00 AM

Analyses		Result	Qual	RL	MCL	Units	Dil Fac
SDWIS Code	**SM 9223B FECAL INDICATOR: E. COLI MPN**	Date Analyzed: 7/3/2010 11:30:00 AM			Analyst: **MAW**		
3000	Total Coliform	< 1		1		CFU/100ml	1
3014	E. Coli	< 1		1		CFU/100ml	1

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Tetra Tech EMI Inc.
Lab Order: 1007045
Facility: Wingate Re-sample
Lab ID: 1007045-03A

WSS ID:
Location:

Client Sample ID: MW-2
Collection Date: 7/1/2010 11:40:00 AM
Matrix: AQUEOUS
Compliance Safe:
Date Received: 7/2/2010
Prep Date: 7/2/2010 11:30:00 AM

SDWIS Code	Analyses	Result	Qual	RL	MCL	Units	Dil Fac
SM 9223B FECAL INDICATOR: E. COLI MPN		Date Analyzed: 7/3/2010 11:30:00 AM			Analyst: **MAW**		
3000	Total Coliform	< 1		1		CFU/100ml	1
3014	E. Coli	< 1		1		CFU/100ml	1

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Tetra Tech EMI Inc.
Lab Order: 1007045
Facility: Wingate Re-sample
Lab ID: 1007045-04A

WSS ID:
Location:

Client Sample ID: East Pond
Collection Date: 7/1/2010 12:00:00 PM
Matrix: AQUEOUS
Compliance Safe:
Date Received: 7/2/2010
Prep Date: 7/2/2010 11:30:00 AM

Analyses		Result	Qual	RL	MCL	Units	Dil Fac
SDWIS Code	**SM 9223B FECAL INDICATOR: E. COLI MPN**	Date Analyzed: 7/3/2010 11:30:00 AM		Analyst: **MAW**			
3000	Total Coliform	> 2419.6		1		CFU/100ml	1
3014	E. Coli	< 1		1		CFU/100ml	1

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Tetra Tech EMI Inc.
Lab Order: 1007045
Facility: Wingate Re-sample
Lab ID: 1007045-05A

WSS ID:
Location:

Client Sample ID: MW-3
Collection Date: 7/1/2010 12:50:00 PM
Matrix: AQUEOUS
Compliance Safe:
Date Received: 7/2/2010
Prep Date: 7/2/2010 11:30:00 AM

Analyses		Result	Qual	RL	MCL	Units	Dil Fac
SDWIS Code	**SM 9223B FECAL INDICATOR: E. COLI MPN**	Date Analyzed: 7/3/2010 11:30:00 AM			Analyst: **MAW**		
3000	Total Coliform	< 1		1		CFU/100ml	1
3014	E. Coli	< 1		1		CFU/100ml	1

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Chain-of-Custody Record

Client: Tetra Tech

Mailing Address: 6121 Indian School #200
Albuquerque, NM 87110

Phone #: 505.237.8440

email or Fax#: Christine.Mathews@tetratech.com

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:
☒ Standard ☐ Rush _____

Project Name: Wingate Re-sample

Project #:

Project Manager: Kelly Blanchard

Sampler: Christine Mathews / Cassie Brown

On Ice: ☒ Yes ☐ No

Sample Temperature: 3

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1007053
7-1-10	1040	H_2O	MWR-1	Plastic 100mL	Thiosodium phosphate	-1
7-1-10	1015	H_2O	West Pond	Plastic 100mL	Thiosodium phosphate	-2
7-1-10	1140	H_2O	MW-2	Plastic 100mL	Thiosodium phosphate	-3
7-1-10	1200	H_2O	East Pond	Plastic 100mL	Thiosodium phosphate	-4
7-1-10	1250	H_2O	MW-3	Plastic 100mL	Thiosodium phosphate	-5

Analysis Request

BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions ($F, Cl, NO_3, NO_2, PO_4, SO_4$)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Total Coliform Enumeration				Air Bubbles (Y or N)
											X				
											X				
											X				
											X				
											X				

Date:	Time:	Relinquished by:	Received by:	Date	Time
7-2-10	0835	Christine Mathews	[signature]	7/2/10	835
Date:	Time:	Relinquished by:	Received by:	Date	Time

Remarks: Please report in colonies/100mL

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.