AP - 117

2013 AGWMR

09 / 11 / 2013

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September 11, 2013 Reference No. 075006

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

Subject: 2013 Annual Groundwater Monitoring Report
Abatement Plan AP-117
ConocoPhillips Wingate Fractionating Plant
Gallup, New Mexico

Dear Mr. vonGonten,

Conestoga-Rovers & Associates is pleased to deliver the enclosed Annual Groundwater Monitoring Report per the requirements of the Abatement Plan AP-117. This report describes the activities and data associated with a groundwater monitoring event at the Wingate Fractionating Plant. A report describing a similar event for the Wingate Fractionating Plant Evaporation Ponds has been issued under separate cover (Ref. No. 075167).

Should you have any questions, please contact Jeff Walker at 505-884-0672.

Sincerely,

Jeff Walker
Project Manager/Geologist

Enclosures (1)

Cc: Janelle Vestal, ConocoPhillips
Sherry Timmerman, ConocoPhillips
Terry Lauck, ConocoPhillips (electronic only)

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2013 Annual Groundwater Monitoring Report

Wingate Fractionator Plant
AP-117

Prepared for: ConocoPhillips Company
Risk Management and Remediation

Conestoga-Rovers & Associates
6121 Indian School Road, NE Suite 200
Albuquerque, New Mexico 87110

September 2013 • #075006
Report Number:4

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1.0 INTRODUCTION AND SITE HISTORY

The Wingate Fractionator Plant (Site) 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 New Mexico Water Quality Control Comission (NMWQCC) Groundwater Discharge Permit for the Wingate Plant was first approved by the New Mexico Oil Conservation Division (NMOCD) on August 17, 1992. The NMOCD, in a letter dated April 2, 2012, determined that, in accordance with NMWQCC regulations, the Site no longer required a discharge permit. As a result, Discharge Permit GW-054 expired in August 2012. The NMOCD required the Wingate Fractionator Plant to continue its groundwater monitoring and remediation activities under Abatement Plan AP-117.

In accordance with Abatement Plan AP-117, Conestoga-Rovers & Associates (CRA) conducted an annual groundwater sampling event from June 24, 2013 through June 26, 2013. This report presents results from this event.

2.0 SITE DESCRIPTION

The Site consists of a gas fractionator 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. These ponds are used and maintained by ConocoPhillips Company (ConocoPhillips) and are surrounded by a locked chain-link fence. All monitoring 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 Plan 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 4 to 10 feet bgs in wells across the Site, suggesting confined aquifer conditions. The Site is underlain by approximately 20 feet of clay which may act as a confining layer. Beneath the clay layer, a saturated, fine grained sand is encountered which appears to be the water bearing zone. Historical boring logs for WMW-6, WMW-7, and WMW-8 are presented in **Appendix A**.

Table 1 lists well completion information and groundwater elevations. During the 2013 groundwater sampling event, the groundwater flow direction was predominantly to the northwest. This is consistent with previous data. A groundwater potentiometric surface map is presented in **Figure 3**.

On June 20, 2012, CRA discovered that WMW-1 had been accidentally destroyed by heavy machinery operating in the area. The well was plugged and abandoned and a new well (WMW-1R) installed in close proximity on September 7, 2012. Notification of well completion was subsequently provided to the New Mexico Office of the State Engineer and the NMOCD. Groundwater elevation data for monitoring well WMW-1R was not included in development of the groundwater

potentiometric surface map (**Figure 3**) because current top of casing survey data were not available at the time.

3.0 GROUNDWATER SAMPLING METHODOLOGY

CRA performed groundwater monitoring activities from June 24 through June 26, 2013. An oil/water 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 monitoring wells. These data, along with casing diameter and total depth information, were used to calculate the water volumes in each monitoring well. Before and after each use, the oil/water interface probe was cleaned with an Alconox®/de-ionized water solution, and then rinsed with de-ionized water. Graphs presenting groundwater elevations versus time for each monitoring well are presented in **Appendix B**.

Water was purged from the wells with a bladder pump or disposable bailer until field parameters, including pH, oxidation reduction potential, dissolved oxygen, 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 CRA Well Sampling Field Information forms, as presented in **Appendix C**.

Following purging, groundwater samples were placed into laboratory-prepared sample containers. Disposable nitrile gloves were worn by sampling personnel and changed at each well location. The pump was cleaned following each well sampling by circulating Alconox® soap and de-ionized water solution, followed by a methanol and de-ionized water solution, and rinsed with de-ionized water.

As an extra measure to prevent cross-contamination between wells, WMW-2, the monitoring well known to historically contain benzene above the NMWQCC groundwater quality standard, was sampled with a disposable bailer. No measurable thickness of LNAPL was indicated by the oil/water interface probe in monitoring well WMW-2 but a slight discontinuous sheen was observed on the surface of the purge water removed from the well prior to sampling. Depth to water in WMW-2 is very close to the top of the screened interval, so LNAPL in the vicinity of the well bore may not be able to enter the well casing.

Following collection of groundwater from each sampling location, samples were immediately labeled, placed on ice, and submitted to Pace Analytical Services, Inc. of Lenexa, Kansas for analyses of volatile organic compounds including benzene, toluene, ethylbenzene, and total xylenes (BTEX) by Environmental Protection Agency (EPA) Method 8260; semi-volatile organics by EPA Method 8270; chloride, sulfate, and nitrate by EPA Method 300.0A; dissolved metals

including, arsenic, barium, cadmium, calcium, chromium, lead, selenium, silver, and sodium by EPA Method 6010; mercury by EPA method 7470; uranium by American Society for Testing and Materials (ASTM) D5174.97; total dissolved solids (TDS) by SM 2540C; and pH by SM 4500H + B/9040.

On November 10, 2011, verification of the metals sampling list was received in an email from Glen VonGonton of the NMOCD. As a result of this verification, uranium analysis was added and magnesium and manganese analysis was discontinued for all Site wells.

4.0 ANALYTICAL RESULTS

The 2013 groundwater analytical results are presented in **Table 2**. **Appendix B** 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 D**. The Site map with analytical results for some of the commonly noted constituents of concern that have historically occurred over the regulatory standards is included as **Figure 4**.

Analytical results were compared to the 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 consistent with the results for the primary sample.

4.1 WINGATE FACILITY MONITOR WELLS

BTEX

Groundwater samples from monitoring wells WMW-1R, WMW-3, WMW-4, WMW-5, WMW-6, WMW-7, and WMW-8 did not contain BTEX in concentrations above the laboratory detection limits.

The groundwater sample collected from WMW-2 contained 17.2 milligrams per liter (mg/L) benzene. This concentration is above the NMWQCC standard of 0.01 mg/L for benzene. The benzene concentration in this well has decreased significantly from 29 mg/L observed in 2005. The benzene concentration in this well also decreased significantly from the 2011 annual groundwater monitoring event, when the benzene concentration in WMW-2 spiked to its highest level since 2005. However, the benzene concentration has increased since the 2012 (11.6 mg/L) annual groundwater monitoring event.

Regenesis™ Oxygen Release Compound (ORC) socks were utilized in WMW-2 from January 2006 through June 2010. Once the ORC socks were removed, a rebound of benzene levels was observed and further use of the product was stopped. Laboratory analysis of groundwater samples collected from monitoring wells WMW-4 and WMW-7, down-gradient of WMW-2, did not reveal

detectable concentrations of benzene, suggesting that the benzene impacts are localized in the area of WMW-2.

Chloride

The groundwater samples collected from WMW-1R, WMW-2, and WMW-3 contained chloride in concentrations of 418 mg/L, 561 mg/L, and 927 mg/L, respectively. These concentrations are above NMWQCC groundwater quality standard of 250 mg/L but similar in magnitude to historical results for these wells.

Sodium

The groundwater sample collected from WMW-3 contained sodium in a concentration of 1,610 mg/L. This concentration is above NMWQCC groundwater quality standard of 1,140 mg/L but in the range of historical results.

Sulfate

The groundwater samples collected from WMW-1R, WMW-3, WMW-5, and WMW-7 contained sulfate concentrations of 1,640 mg/L, 1,430 mg/L, 1,100 mg/L, and 639 mg/L, respectively. The NMWQCC standard is 600 mg/L. The sulfate concentrations in these monitoring wells have remained relatively constant since 2005.

TDS

The groundwater samples collected from WMW-1R, WMW-2, WMW-3, WMW-4, WMW-5, and WMW-7 contained TDS in concentrations of 3,530 mg/L, 2,610 mg/L, 3,670 mg/L, 1,690 mg/L, 2,610 mg/L, and 1,710 mg/L, respectively. The NMWQCC standard for TDS is 1,000 mg/L. The TDS concentrations in these monitoring wells have remained relatively constant since 2005.

Uranium

In June 2013, groundwater samples collected from WMW-1R and WMW-3 contained uranium at concentrations of 0.0479 mg/L and 0.0429 mg/L, respectively. The NMWQCC groundwater quality standard for uranium is 0.03

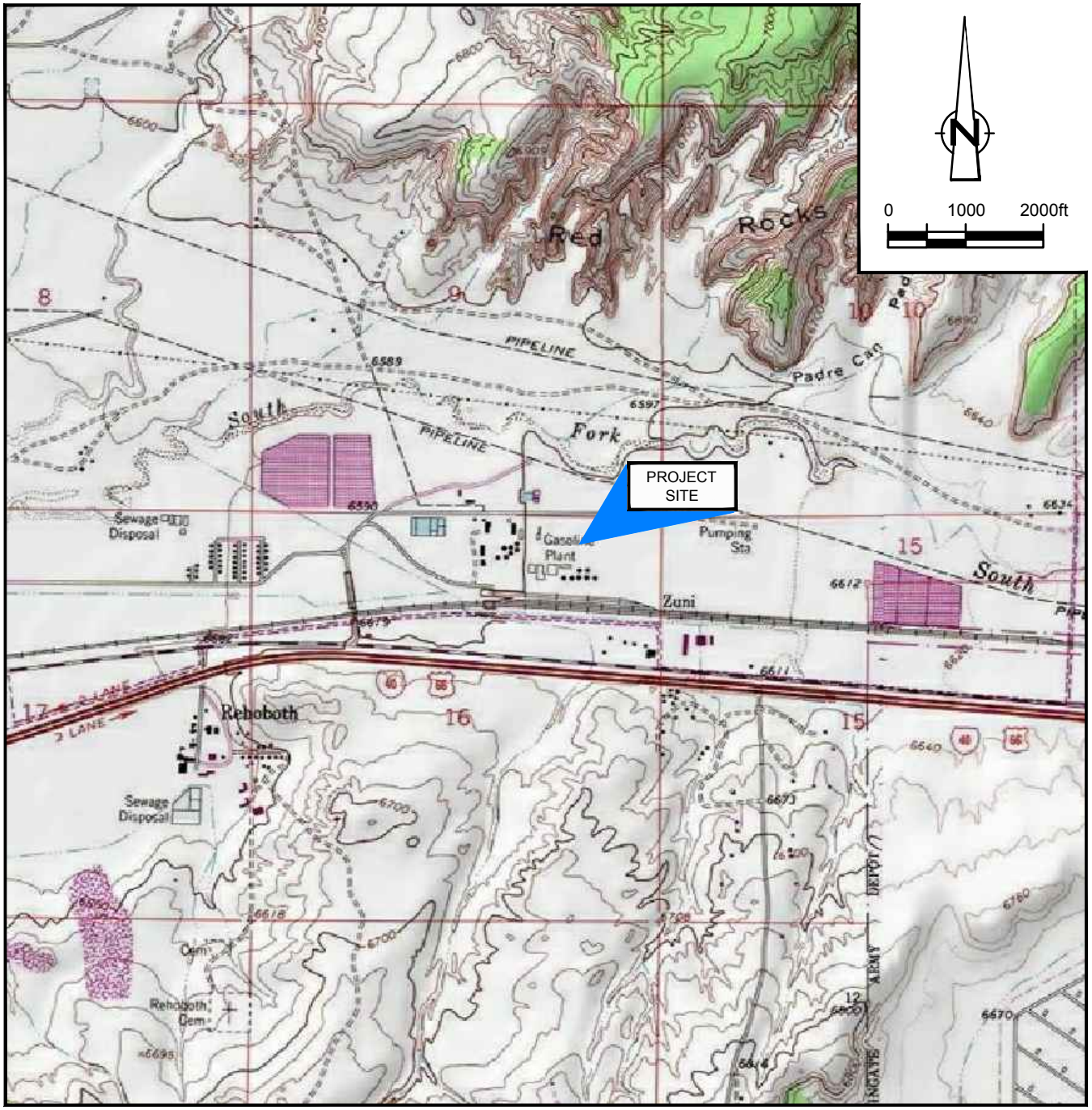
mg/L. No samples from other Site monitoring wells contained uranium at a concentration above the NMWQCC standard.

5.0 SUMMARY

Concentrations of TDS, sulfate, and chloride have been found above NMWQCC groundwater quality standards in samples from Site monitoring wells. The concentration of benzene in monitoring well WMW-2 continues to exceed groundwater quality standards; however, benzene was not detected down-gradient of WMW-2, suggesting a localized benzene impact around this monitor well. Historically, benzene has never been detected in groundwater samples collected from WMW-4, located down-gradient of WMW-2.

The next groundwater sampling and reporting event is scheduled for June of 2014.

FIGURES



SOURCE: USGS 7.5 MINUTE QUAD
"BIG ROCK HILL AND HARD GROUND FLATS, NEW MEXICO"

LAT/LONG: 35.5360° NORTH, 108.6403° WEST
COORDINATE: NAD83 DATUM, U.S. FOOT
STATE PLANE ZONE - NEW MEXICO WEST

Figure 1

SITE LOCATION MAP
WINGATE FRACTIONATOR PLANT
ANNUAL GROUNDWATER SAMPLING
GALLUP, NEW MEXICO
ConocoPhillips Company

RE: USGS Aerial Photograph.

LEGEND

- Monitor Well Location
- Re-Drill To Replace MW-1
- Plugged And Abandoned 6-24-03

Figure 2

SITE PLAN WITH AERIAL PHOTOGRAPH
WINGATE FRACTIONATOR PLANT
ANNUAL GROUNDWATER SAMPLING
GALLUP, NEW MEXICO
ConocoPhillips Company

RE: USGS Aerial Photograph.

LEGEND

- MONITOR WELL
- RE-DRILL TO REPLACE
- PLUGGED AND ABANDONED SEPTEMBER 7, 2013
- (6586.79) GROUNDWATER ELEVATION, ft. AMSL
- 6587 GROUNDWATER ELEVATION CONTOUR, ft. AMSL
- GROUNDWATER FLOW DIRECTION
- * NO SURVEY DATA AVAILABLE

Figure 3

JUNE 2013 GROUNDWATER POTENTIOMETRIC SURFACE MAP
WINGATE FRACTIONATOR PLANT
ANNUAL GROUNDWATER SAMPLING
GALLUP, NEW MEXICO
ConocoPhillips Company

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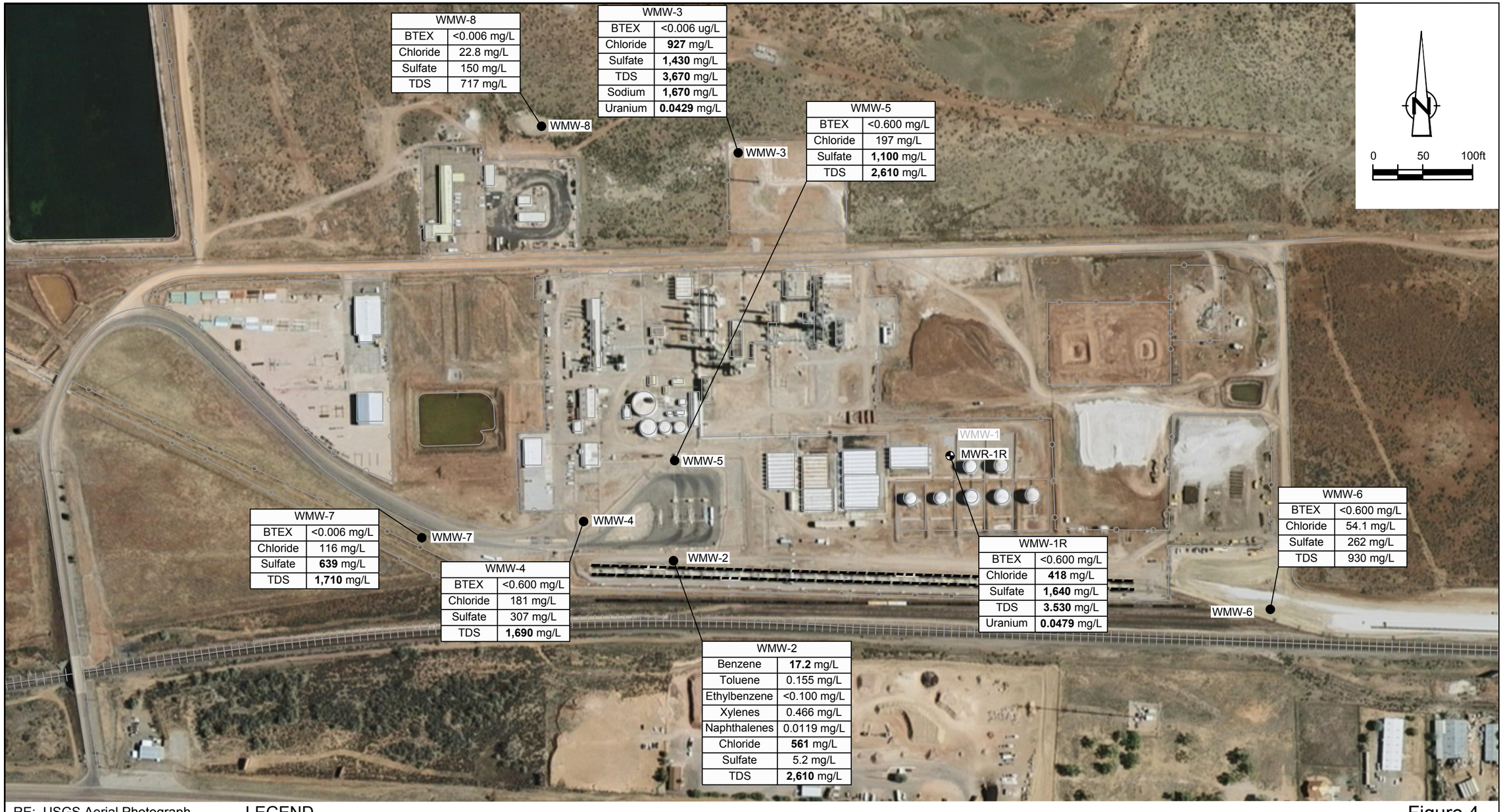

RE: USGS Aerial Photograph.

LEGEND

- MONITOR WELL
- RE-DRILL TO REPLACE MW-1
- PLUGGED AND ABANDONED SEPTEMBER 7, 2013

SAMPLE ID	
CONSTITUENT	CONCENTRATION, unit

NOTE: Values in BOLD indicate an exceedance of NMWQCC groundwater standard.

Figure 4

JUNE 2013 CONSTITUENTS OF CONCERN CONCENTRATION MAP
WINGATE FRACTIONATOR PLANT
ANNUAL GROUNDWATER SAMPLING
GALLUP, NEW MEXICO
ConocoPhillips Company

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TABLES

TABLE 1

MONITORING WELL SPECIFICATIONS AND GROUNDWATER ELEVATIONS
CONOCOPHILLIPS COMPANY
WINGATE FRACTIONATOR PLANT
GALLUP, NEW MEXICO

Well ID	*Total Depth (ft)*	*TOC Elevation (ft msl)*	*Screen Interval (ft bgs)*	*Date Measured*	*Depth to Groundwater (ft bgs)*	*Relative Water Level (ft msl)*
WMW-1R*	15	--	5-15	6/24/2013	8.90	--
WMW-2	20	6594.88	5-20	6/24/2013	5.27	6589.61
WMW-3	20	6594.92	5-20	6/26/2013	6.56	6588.36
WMW-4	20	6595.49	5-20	6/24/2013	6.91	6588.58
WMW-5	20	6597.11	5-20	6/24/2013	6.01	6591.10
WMW-6	35	6603.86	20-35	6/24/2013	9.52	6594.34
WMW-7	38	6594.7	16-38	6/24/2013	7.50	6587.20
WMW-8	38	6594.05	17-38	6/24/2013	6.59	6587.46

Notes:

1. bgs - below ground surface
2. ft - feet
3. msl - mean sea level
4. MW - Monitor Well
5. WMR - Redrilled Monitor Well
6. TOC - top of casing
7. WMW - Monitor well within the Wingate site boundary
8. * - No survey data available

TABLE 2

GROUNDWATER ANALYTICAL RESULTS SUMMARY
CONOCOPHILLIPS COMPANY
WINGATE FRACTIONATOR PLANT
GALLUP, NEW MEXICO

	Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylenes (total) (mg/L)	TPH-GRO (mg/L)	Naphthalene (mg/L)	Arsenic (dissolved) (mg/L)	Barium (dissolved) (mg/L)	Cadmium (dissolved) (mg/L)	Calcium (dissolved) (mg/L)	Chromium (dissolved) (mg/L)	Iron (dissolved) (mg/L)	Iron (mg/L)	Lead (dissolved) (mg/L)	Lead (mg/L)	Magnesium (dissolved) (mg/L)	Manganese (dissolved) (mg/L)	Manganese (mg/L)	Mercury (mg/L)	Selenium (dissolved) (mg/L)	Silver (dissolved) (mg/L)	Sodium (dissolved) (mg/L)	Uranium-238 (mg/L)	Alkalinity (mg/L)	Chloride (mg/L)	Chemical Oxygen Demand (COD) (mg/L)	Nitrate (as N) (mg/L)	pH	Sulfate (mg/L)	Total Dissolved Solids (TDS) (mg/L)
WMW-1	5/14/2003	<0.0001	<0.001	<0.001	<0.002	--	<0.0098	<0.01	<0.2	<0.002	258	<0.005	--	--	<0.003	--	69.7	--	--	--	--	--	**1140**		1050	**648**	--	<0.5	--	**1870**	**5090**
	9/24/2004	<0.0005	<0.0007	<0.0008	<0.0008	--	<0.001	<0.0047	0.0256	<0.00076	236	0.0025	--	--	<0.0100	--	63.8	--	--	<0.000028	0.0059	0.002	**1370**		1030	**627**	--	<0.40	7.8	**1880**	**5150**
	6/20/2005	<0.0005	<0.0007	<0.0008	<0.0008	--	<0.001	<0.0093	0.0177	<0.00097	224	<0.0048	--	--	<0.0084	--	61.1	--	--	<0.000062	<0.0094	<0.0020	**1370**		1060	**614**	--	<0.40	7.0	**1760**	**5140**
	6/21/2006	<0.0005	<0.0007	<0.0008	<0.0008	--	<0.001	<0.01	0.0706	<0.00091	279	0.003	--	--	<0.0069	--	76.8	--	--	<0.000056	<0.0094	<0.0016	**1310**		1030	**609**	--	<0.25	7.1	**1940**	**5150**
	6/18/2007	<0.0005	<0.0007	<0.0008	<0.0008	--	<0.001	<0.01	0.0317	<0.00090	287	<0.0023	--	--	<0.0069	--	77.2	--	--	<0.000056	<0.0094	<0.0018	**1310**		1050	**579**	--	<0.25	7.2	**1880**	**5130**
	6/30/2008	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	0.0478	<0.005	228	<0.005	--	1.92	<0.005	--	63.7	--	3.97	<0.0002	<0.005	<0.005	**1210**		998	**566**	--	<0.5	6.78	**2010**	**4640**
	6/22/2009	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.025	<0.025	<0.025	222	<0.025	0.192	--	<0.025	--	60.9	--	3.94	<0.0002	<0.025	<0.025	**1330**		845	**501**	--	<0.5	7.05	**2150**	**4560**
	6/22/2010	<0.001	<0.001	<0.001	<0.001	--	<0.0057	<0.005	0.0148	<0.005	194	<0.005	<0.02	--	<0.005	--	53.0	**3.51**	--	<0.002	<0.01	<0.005	1140		215	**530**	--	0.993	7.05	**1940**	**4330**
	7/1/2011	<0.0010	<0.0010	<0.0010	<0.0030	--	<0.005	<0.005	<0.2	<0.004	--	<0.01	<0.1	--	<0.003	--	55.4	**3.33**	--	--	<0.005	<0.01	**1180**		984	**558**	42.3	<0.50	7.52	**2140**	**4560**
	6/20/2012	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WMW-1R	6/24/2013	<0.0010	<0.0010	<0.0010	<0.0030	--	<0.010	<0.010	0.0292	<0.005	254	<0.005	--	--	<0.005	--	--	--	--	<0.0002	<0.015	<0.007	852	**0.0479**	671	**418**	--	<0.10	7.4	**1640**	**3530**
WMW-2	5/14/2003	**29**	<0.5	<0.5	<1	--	0.024	0.016	0.42	0.0081	47.3	0.0095	--	--	0.0180	--	27.4	--	--	--	--	--	1140	--	1710	**628**	--	0.6	--	8.2	**3150**
	9/24/2004	**28**	0.45	0.11	**0.65**	--	0.021	<0.0047	0.421	0.0036	57.2	<0.0025	--	--	0.0100	--	33.8	--	--	<0.000028	<0.0059	<0.0020	**1510**	--	2110	**936**	--	<0.40	7.6	<1.5	**4220**
	6/21/2005	**29**	0.35	0.11	0.57	--	0.017	<0.0093	0.442	0.0047	53.6	<0.0048	--	--	<0.0084	--	32.3	--	--	<0.000062	<0.0094	<0.0020	**1450**	--	2090	**962**	--	<0.40	7.5	<1.5	**3800**
	6/21/2005	**25**	0.062	0.084	0.47	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/21/2006	**5.3**	0.015	0.024	0.15	--	0.003	<0.01	0.0841	<0.00091	4.04	<0.0023	--	--	<0.0069	--	190	--	--	<0.000056	<0.0094	<0.0016	1050	--	2000	**730**	--	<0.25	**9.9**	74	**3400**
	6/21/2006	**5.3**	0.015	0.024	0.15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/20/2007	**7.2**	0.09	0.04	0.28	--	0.009	0.0138	0.102	0.0065	19.3	0.0064	--	--	<0.0069	--	104	--	--	<0.000056	<0.0094	<0.0016	712	--	1200	**468**	--	<0.25	**9.9**	76.9	**1900**
	6/20/2007	**5.2**	0.087	0.039	0.27	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	7/2/2008	**7.7**	0.19	0.034	0.201	--	0.006	0.00993	0.411	**0.131**	128	0.029	--	48.8	0.0288	--	110	--	0.476	<0.0002	<0.005	<0.005	852	--	1220	**565**	--	<0.5	**9.31**	25.9	282
	7/2/2008	**7.9**	0.22	0.056	0.346	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/24/2009	**9.8**	0.3	0.05	0.313	--	0.0056	<0.005	0.11	<0.005	16.2	0.00809	0.482	--	<0.005	--	99.9	<0.25	--	<0.0002	<0.01	<0.005	1000	--	1530	**502**	--	<0.5	**9.59**	15.8	**2770**
	6/24/2009	**9.7**	0.29	0.049	0.313	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/23/2010	**10**	0.26	0.055	0.339	--	0.0058	<0.005	0.0720	<0.005	3.20	<0.005	<0.02	--	<0.005	--	64.9	<0.005	--	<0.002	<00.01	<0.005	778	--	296	**375**	--	0.588	**9.41**	<50.0	**3100**
	6/23/2010	**9.7**	0.25	0.056	0.351	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	7/1/2011	**18.0**	0.425	0.0827	0.543	--	0.0037 J	<0.005	<0.2	<0.004	--	<0.01	<0.1	--	<0.003	--	59.4	<0.015	--	--	<0.005	<0.01	934	--	1580	**509**	114	0.74	8.78	1.5	**2780**
	7/1/2011	**20.3**	0.436	0.0923	0.569	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/20/2012	**11.6**	0.247	0.134	0.376	--	0.0132	<0.010	0.198	<0.005	10.7	<0.005	--	--	<0.005	--	--	--	--	<0.0002	<0.015	<0.007	922	0.0206	657	**543**	--	<0.1	8.6	5.5	**2660**
	6/20/2012	**14.9**	0.319	0.146	0.452	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/24/2013	**17.2**	0.155	<0.100	0.466	--	0.0119	<0.010	0.278	<0.005	13.6	<0.005	--	--	<0.005	--	--	--	--	<0.0002	<0.015	<0.007	1010	0.0245	1670	**561**	--	<0.10	8.2	5.2	**2610**
	6/24/2013	**18.1**	0.243	<0.200	<0.600	--	<2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WMW-3	5/14/2003	<0.0001	<0.001	<0.001	<0.002	--	<0.0095	0.014	0.62	<0.002	186	**0.19**	--	--	0.042	--	88.5	--	--	--	--	--	**1860**	--	1090	**1150**	--	1.5	--	**1680**	**5570**
	9/25/2004	<0.0005	<0.0007	<0.0008	<0.0008	--	<0.01	0.0351	**1.14**	0.0012	470	**0.905**	--	--	**0.250**	--	216	--	--	<0.00028	<0.0059	<0.0020	**1810**	--	1700	**985**	--	<0.40	7.5	**1410**	**6030**
	6/20/2005	<0.0005	<0.0007	<0.0008	<0.0008	--	<0.001	<0.0093	0.210	<0.00097	112	0.0421	--	--	0.0112	--	48.0	--	--	<0.000062	<0.0094	<0.0020	**1700**	--	1230	**1030**	--	<0.40	7.5	**1380**	**5590**
	6/21/2006	<0.0005	<0.0007	<0.0008	<0.0008	--	<0.001	<0.01	0.468	<0.00091	155	**0.0996**	--	--	0.0339	--	73.8	--	--	0.00012	<0.0094	<0.0016	**1850**	--	1210	**1150**	--	<0.25	7.5	**1580**	**5640**
	6/20/2007	<0.0005	<0.0007	<0.0008	<0.0008	--	<0.01	0.0107	0.320	<0.00090	199	**0.0701**	--	--	0.0292	--	70.4	--	--	0.000076	<0.0094	<0.0016	**2040**	--	1520	**1540**	--	1.5	7.5	**1950**	**5900**
	7/1/2008	<0.005	<0.005	<0.005	<0.005	--	<0.0054	0.0187	**2.05**	<0.005	336	**0.31**	--	230	--	0.158	157	--	4.45	<0.002	<0.005	<0.005	**1500**	--	964	**548**	--	<5	7.54	**963**	**7800**
	6/24/2009	<0.005	<0.005	<0.005	<0.005	--	<0.005	0.0166	0.265	<0.005	400	0.0154	--	4.3	--	0.0568	57.4	--	3.35	<0.0002	<0.01	<0.005	**1710**	--	1410	**677**	--	0.716	7.65	**1370**	**3190**
	6/22/2010	<0.001	<0.001	<0.001	<0.001	--	<0.011	<0.005	0.0351	<0.005	70.1	<0.005	0.927	--	<0.005	--	33.6	0.00920	--	<0.002	<0.01	<0.005	**1490**	--	238	**912**	--	3.06	7.66	**1620**	**5000**
	6/30/2011	<0.0010	<0.0010	<0.0010	<0.0030	--	<0.0050	<0.005	<0.2	<0.004	--	<0.01	<0.1	--	<0.003	--	33.9	<0.015	--	--	<0.005	<0.01	**1360**	--	1000	**900**	68.6	2.2	7.46	**1530**	**4830**
	6/20/2012	<0.0010	<0.0010	<0.0010	<0.0030	--	<0.010	<0.010	0.0201	<0.005	76.4	<0.005	--	--	<0.005	--	--	--	--	<0.0002	<0.015	<0.007	**1650**	**0.0572**	1400	**895**	--	1.8	7.7	**1550**	**4320**
	6/26/2013	<0.0010	<0.0010	<0.0010	<0.0030	--	<0.010	<0.010	0.0027	<0.005	87.3	<0.005	--	--	<0.005	--	--	--	--	<0.0002	<0.015	<0.007	**1610**	**0.0429**	1070	**927**	--	0.92	7.5	**1430**	**3670**

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TABLE 2

GROUNDWATER ANALYTICAL RESULTS SUMMARY
CONOCOPHILLIPS COMPANY
WINGATE FRACTIONATOR PLANT
GALLUP, NEW MEXICO

	Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylenes (total) (mg/L)	TPH-GRO (mg/L)	Naphthalene (mg/L)	Arsenic (dissolved) (mg/L)	Barium (dissolved) (mg/L)	Cadmium (dissolved) (mg/L)	Calcium (dissolved) (mg/L)	Chromium (dissolved) (mg/L)	Iron (dissolved) (mg/L)	Iron (mg/L)	Lead (dissolved) (mg/L)	Lead (mg/L)	Magnesium (dissolved) (mg/L)	Manganese (dissolved) (mg/L)	Manganese (mg/L)	Mercury (mg/L)	Selenium (dissolved) (mg/L)	Silver (dissolved) (mg/L)	Sodium (dissolved) (mg/L)	Uranium-238 (mg/L)	Alkalinity (mg/L)	Chloride (mg/L)	Chemical Oxygen Demand (COD) (mg/L)	Nitrate (as N) (mg/L)	pH	Sulfate (mg/L)	Total Dissolved Solids (TDS) (mg/L)
WMW-4	5/14/2003	<0.0001	<0.001	<0.001	<0.002	--	<0.0097	<0.01	0.28	<0.002	37.3	0.006	--	--	**16.8**	--	16.8	--	--	--	--	--	550	--	783	133	--	<0.5	--	240	**3070**
	7/30/2003	<0.0005	<0.0007	<0.0008	<0.0008	0.053	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/23/2004	<0.0005	<0.0007	<0.0008	<0.0008	--	<0.001	0.0077	0.0435	<0.00076	12.5	<0.0025	--	--	<0.0100	--	13.1	--	--	<0.000028	<0.0059	0.0020	553	--	788	149	--	<0.40	7.8	247	**1550**
	6/20/2005	<0.0005	<0.0007	<0.0008	<0.0008	--	<0.001	<0.0093	0.0449	<0.00097	11.7	<0.0048	--	--	<0.0084	--	12.5	--	--	<0.000062	<0.0094	<0.0020	529	--	764	152	--	<0.40	7.8	243	**1470**
	6/21/2006	<0.0005	<0.0007	<0.0008	<0.0008	--	<0.001	<0.01	0.0414	<0.00091	12	<0.0023	--	--	<0.0069	--	12.8	--	--	<0.000056	<0.0094	<0.0016	532	--	722	163	--	<0.25	7.8	266	**1480**
	6/20/2007	<0.0005	<0.0007	<0.0008	<0.0008	--	<0.001	<0.01	0.0782	<0.00090	15	0.0039	--	--	<0.0069	--	13.8	--	--	<0.000056	<0.0094	<0.0016	582	--	765	184	--	<0.25	8.0	265	**1380**
	6/30/2008	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	0.0463	<0.005	12.1	<0.005	0.963	--	<0.005	--	0.248	--	0.248	<0.0002	<0.005	<0.005	526	--	672	186	--	<0.5	7.54	240	**1460**
	6/22/2009	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.025	0.0627	<0.025	16.5	<0.025	**4.13**	--	<0.025	--	12.2	--	0.325	<0.0002	<0.025	<0.025	566	--	673	143	--	<0.5	7.73	228	**1470**
	6/22/2010	<0.001	<0.001	<0.001	<0.001	--	<0.0055	<0.005	0.0492	<0.005	13.60	<0.005	<0.02	--	<0.005	--	14.4	**0.279**	--	<0.002	<0.01	<0.005	548	--	199	171	--	0.541	7.69	265	**1830**
	6/30/2011	<0.0010	<0.0010	<0.0010	<0.0030	--	<0.0050	<0.005	<0.2	<0.004	--	<0.01	<0.1	--	<0.003	--	12.4	**0.261**	--	--	<0.005	<0.01	442	--	760	157	24.3	<0.50	7.72	256	**1580**
	6/20/2012	<0.0010	<0.0010	<0.0010	<0.0030	--	<0.010	<0.010	0.0538	<0.005	12.6	<0.005	--	--	<0.005	--	--	**--**	--	<0.0002	<0.015	<0.007	566	0.0012	798	191	--	<0.10	7.8	318	**1540**
	6/24/2013	<0.0010	<0.0010	<0.0010	<0.0030	--	<0.010	<0.010	0.0541	<0.005	13.8	<0.005	--	--	<0.005	--	--	**--**	--	<0.0002	<0.015	<0.007	560	0.00255	805	181	--	<0.10	7.8	307	**1690**
WMW-5	5/14/2003	<0.0001	<0.001	<0.001	<0.002	--	<0.0095	<0.01	<0.2	<0.002	332	<0.005	--	--	<0.003	--	98	--	--	--	--	--	**1310**	**--**	895	**598**	--	<0.5	--	**2380**	**5530**
	7/30/2003	<0.0005	<0.0007	<0.0008	<0.0008	<	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/23/2004	<0.0005	<0.0007	<0.0008	<0.0008	--	<0.001	<0.0047	0.0117	<0.00076	186	<0.0025	--	--	<0.0100	--	48.8	--	--	0.000044	<0.0059	<0.0020	915	--	788	**307**	--	<0.40	7.1	**1330**	**3410**
	6/20/2005	<0.0005	<0.0007	<0.0008	<0.0008	--	<0.001	<0.0093	0.0137	<0.00097	187	<0.0048	--	--	<0.0084	--	50.5	--	--	<0.000062	<0.0094	<0.0020	834	--	693	**334**	--	<0.40	7.0	**1400**	**3300**
	6/21/2006	<0.0005	<0.0007	<0.0008	<0.0008	--	<0.001	<0.01	0.0076	<0.00091	144	<0.0023	--	--	<0.0069	--	38.7	--	--	<0.000056	<0.0094	<0.0016	730	--	680	224	--	<0.25	7.1	**1210**	**2380**
	6/18/2007	<0.0005	<0.0007	<0.0008	<0.0008	--	<0.001	<0.01	0.0213	<0.00090	253	<0.0023	--	--	<0.0069	--	69	--	--	<0.000056	<0.0094	<0.0016	**1170**	--	796	**383**	--	<0.25	7.2	**1730**	**4380**
	6/30/2008	<0.0005	<0.0005	<0.0005	<0.0005	--	<0.005	<0.005	0.0163	<0.005	137	<0.005	0.562	--	<0.005	--	41.4	--	1.12	<0.0002	<0.005	<0.005	811	--	548	232	--	<0.5	7.15	**1270**	**3020**
	6/22/2009	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.025	<0.025	<0.025	172	<0.025	0.346	--	<0.025	--	49.4	--	0.693	<0.0002	<0.025	<0.025	912	--	682	**259**	--	<0.5	7.37	**1370**	**3260**
	6/22/2010	<0.001	<0.001	<0.001	<0.001	--	<0.0056	<0.005	0.0098	<0.005	170	<0.005	<0.02	--	<0.005	--	51.3	**1.13**	--	<0.002	<0.01	<0.005	862	--	165	**275**	--	0.608	7.21	**1430**	**3380**
	6/30/2011	<0.0010	<0.0010	<0.0010	<0.0030	--	<0.0050	<0.005	<0.2	<0.004	--	<0.01	<0.1	--	<0.003	--	38.7	**0.336**	--	--	<0.005	<0.01	752	--	664	238	24.3	<0.50	7.22	**1270**	**3130**
	6/20/2012	<0.0010	<0.0010	<0.0010	<0.0030	--	<0.010	<0.010	<0.010	<0.005	104	<0.005	--	--	<0.005	--	--	**--**	--	<0.0002	<0.015	<0.007	754	0.0116	646	226	--	<0.10	7.4	**1200**	**2630**
	6/24/2013	<0.0010	<0.0010	<0.0010	<0.0030	--	<0.010	<0.010	<0.010	<0.005	102	<0.005	--	--	<0.005	--	--	**--**	--	<0.0002	<0.015	<0.007	770	0.0106	654	197	--	<0.10	7.6	**1100**	**2610**
WMW-6	9/24/2004	<0.0005	<0.0007	<0.0008	<0.0008	<	<0.001	<0.0047	0.0517	<0.00076	34.4	<0.0025	--	--	<0.0100	--	13.2	--	--	<0.000028	<0.0059	<0.0020	315	--	425	57.5	--	<0.40	7.8	285	**1020**
	6/21/2005	<0.0005	<0.0007	<0.0008	<0.00008	--	<0.001	<0.0093	0.0490	<0.00097	35.9	<0.0048	--	--	<0.0084	--	13.4	--	--	<0.000062	<0.0094	<0.0020	294	--	428	58.8	--	<0.40	7.7	290	952
	6/21/2006	<0.0005	<0.0007	<0.0008	<0.0008	--	<0.001	<0.01	0.049	<0.00091	38.1	<0.0023	--	--	<0.0069	--	14.1	--	--	<0.000056	0.0094	<0.0016	300	--	488	58.9	--	<0.25	7.7	293	966
	6/18/2007	<0.0005	<0.0007	<0.0008	<0.0008	--	<0.001	<0.01	0.0637	<0.00090	44.3	<0.0023	--	--	<0.0069	--	15.5	--	--	<0.000056	0.0094	<0.0016	320	--	449	66.7	--	<0.25	7.7	280	**1070**
	7/1/2008	<0.005	<0.005	<0.005	<0.005	--	<0.005	0.0119	**2.34**	<0.005	194	**0.0863**	--	77	--	0.0545	56.3	--	2.76	<0.0002	<0.005	<0.005	317	--	451	76.5	--	<1	7.82	328	**1500**
	6/23/2009	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	0.0679	<0.005	41.1	<0.005	--	0.516	<0.005	--	14.4	0.162	--	<0.0002	<0.005	<0.005	339	--	389	57.2	--	<0.5	7.87	276	**1020**
	6/23/2010	<0.001	<0.001	<0.001	<0.001	--	<0.0055	<0.005	0.0421	<0.005	41.9	<0.005	0.0445	--	<0.005	--	15.5	0.0193	--	<0.002	<0.01	<0.005	304	--	128	62.4	--	<0.5	7.42	280	**1220**
	6/29/2011	<0.0010	<0.0010	<0.0010	<0.0030	--	<0.0050	<0.005	<0.2	<0.004	--	<0.01	0.232	--	<0.003	--	16.2	0.053	--	--	<0.005	<0.01	308	--	446	70.9	<20	<0.50	7.48	374	**1060**
	6/18/2012	<0.0010	<0.0010	<0.0010	<0.0030	--	<0.010	<0.010	0.0352	<0.005	33.8	<0.005	--	--	<0.005	--	--	--	--	<0.0002	<0.015	<0.007	--	0.0109	458	62.8	--	<0.10	7.6	314	946
	6/26/2013	<0.0010	<0.0010	<0.0010	<0.0030	--	<0.010	<0.010	.0362	<0.005	35.4	<0.005	--	--	<0.005	--	--	--	--	<0.0002	<0.015	<0.007	300	0.00976	439	54.1	--	<0.10	7.6	262	930
WMW-7	9/24/2004	<0.0005	<0.0007	<0.0008	<0.0008	--	<0.001	<0.0047	0.179	<0.00076	35.5	0.0074	--	--	<0.0100	--	15.8	--	--	<0.000028	<0.0059	<0.0020	362	--	526	63.7	--	<0.40	7.7	309	**1200**
	6/21/2005	<0.0005	<0.0007	<0.0008	<0.0008	--	<0.001	<0.0093	0.0394	<0.00097	48.0	<0.0048	--	--	<0.0084	--	25.4	--	--	<0.000062	<0.0094	<0.0020	803	--	630	170	--	<0.40	7.7	**1120**	**2590**
	6/21/2006	<0.0005	<0.0007	<0.0008	<0.0008	--	<0.001	<0.01	0.0315	<0.00091	42.2	<0.0023	--	--	<0.0069	--	22.2	--	--	<0.000056	<0.0094	<0.0016	776	--	589	234	--	<0.25	7.6	**1080**	**2360**
	6/18/2007	<0.0005	<0.0007	<0.0008	<0.0008	--	<0.001	<0.01	0.0339	<0.00090	42.9	<0.0023	--	--	<0.0069	--	21.8	--	--	<0.000056	<0.0094	<0.0016	773	--	643	152	--	<0.25	7.7	**896**	**2310**
	6/30/2008	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	0.198	<0.005	50.5	0.0137	--	15.3	0.00946	--	24.9	--	0.511	<0.0002	<0.005	<0.005	478	--	514	92.4	--	<0.5	7.34	224	**1580**
	6/22/2009	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.025	0.0371	<0.025	41.1	<0.025	0.284	--	<0.025	--	16.9	0.2	--	<0.0002	<0.025	<0.025	509	--	520	80.4	--	<0.5	7.56	439	**1410**
	6/23/2010	<0.001	<0.001	<0.001	<0.001	--	<0.0057	<0.005	0.0312	<0.005	35.6	<0.005	0.0210	--	<0.005	--	15.0	0.122	--	<0.002	<0.01	<0.005	417	--	183	71.5	--	0.500	7.38	353	**1520**
	6/30/2011	<0.0010	<0.0010	<0.0010	<0.0030	--	<0.0050	<0.005	<0.2	<0.004	--	<0.01	<0.1	--	<0.003	--	13.5	0.146	--	--	<0.005	<0.01	296	--	536	67.3	<20	<0.50	7.46	337	**1250**
	6/18/2012	<0.0010	<0.0010	<0.0010	<0.0030	--	<0.010	<0.010	0.0325	<0.005	36.3	<0.005	--	--	<0.005	--	--	--	--	<0.0002	<0.015	<0.007	--	0.0152	559	80.4	--	<0.10	7.6	385	**1190**
	6/26/2013	<0.0010	<0.0010	<0.0010	<0.0030	--	<0.010	<0.010	0.0316	<0.005	35.6	<0.005	--	--	<0.005	--	--	--	--	<0.002	<0.015	<0.007	564	0.0253	633	116	--	<0.10	7.6	**639**	**1710**
WMW-8	9/24/2004	<0.0005	<0.0007	<0.0008	<0.0008	--	<0.001	<0.0047	0.213	<0.00076	36.1	<0.0025	--	--	<0.0100	--	17.6	--	--	<0.000028	<0.0059	<0.0020	218	--	440	27.0	--	<0.40	7.8	130	753
	6/21/2005	<0.0005	<0.0007	<0.00008	<0.0008	--	<0.001	<0.0093	0.126	<0.00097	29.3	<0.0048	--	--	<0.0084	--	14.7	--	--	<0.000062	<0.0094	<0.0020	279	--	497	42.9	--	<0.40	7.7	169	882
	6/21/2006	<0.0005	<0.0007	<0.0008	<0.0008	--	<0.001	<0.01	0.151	<0.00091	28.9	<0.0023	--	--	<0.0069	--	14.8	--	--	<0.000056	<0.0094	<0.0016	286	--	506	--	--	<0.25	--	--	--
	6/19/2007	<0.0005	<0.0007	<0.0008	<0.0008	--	<0.001	<0.01	0.171	<0.00090	295	<0.0023	--	--	<0.0069	--	186	--	--	<0.000056	<0.0094	<0.0016	186	--	487	28.5	--	<0.25	7.6	143	795
	7/1/2008	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	0.185	<0.005	38.5	<0.005	0.083	--	<0.005	--	18.2	--	0.311	<0.002	<0.005	<0.005	214	--	425	21.6	--	<0.5	7.6	148	816
	6/23/2009	<0.005	<0.005	<0.005	<0.005	--	<0.005	<0.005	0.215	<0.005	39.6	<0.005	0.0771	--	<0.005	--	18	--	0.278	<0.0002	<0.005	<0.005	220	--	369	21.8	--	<0.5	7.69	149	718
	6/23/2010	<0.001	<0.001	<0.001	<0.001	--	<0.0058	<0.005	0.202	<0.005	43.2	<0.005	0.0344	--	<0.005	--	19.4	**0.379**	--	<0.002	<0.01	<0.005	202	--	135	23.1	--	<0.5	7.28	134	854
	7/1/2011	<0.0010	<0.0010	<0.0010	<0.0030	--	<0.0050	<0.005	0.2	<0.004	--	<0.01	<0.1	--	<0.003	--	19.5	**0.344**	--	--	<0.005	<0.01	217	--	432	23.5	<20	<0.50	7.66	185	735
	6/18/2012	<0.0010	<0.0010	<0.0010	<0.0030	--	<0.010	<0.010	0.178	<0.005	36.0	<0.005	--	--	<0.005	--	--	**--**	--	<0.0002	<0.015	<0.007	--	0.0106	452	21.7	--	<0.10	7.8	143	665
	6/26/2013	<0.0010	<0.0010	<0.0010	<0.0030	--	<0.010	<0.010	0.168	<0.005	37.5	<0.005	--	--	<0.005	--	--	**--**	--	<0.0002	<0.015	<0.007	230	0.0131	478	22.8	--	<0.10	7.6	150	717
NMWQCC Groundwater Quality Standards		**0.01**	**0.75**	**0.75**	**0.62**	**NE**	**0.03**	**0.1**	**1.0**	**0.01**	**NE**	**0.05**	**1.0**	**NE**	**0.05**	**NE**	**NE**	**0.2**	**NE**	**0.002**	**0.05**	**0.05**	**1140**	**0.03**	**NE**	**250**	**125**	**10**	**6.00-9.00**	**600**	**1000**

Notes:
MW = monitoring well
NMWQCC = New Mexico Water Quality Control Commission
Constituents in **BOLD** are in excess of NMWQCC groundwater quality standards
mg/L = milligrams per liter (parts per million)
< 1.0 = Below laboratory detection limit of 1.0 mg/L
NA = not analyzed
NE = not established
* = Results reported for total metals analysis, results can not be compared to NMWQCC Standards for dissolved metals

]

APPENDIX A

HISTORICAL BORING LOGS

PROJECT NAME: 3690050
LOCATION: Wingate Gas Fractionating Plant

DRILLED BY: Kleinfelder Drilling
DATE: HOLE STARTED: 6-24-03
DATE: COMPLETED: 6-25-03

REMARKS: bgs = below ground surface
NA=Not Applicable, NS=No Sample
MW=Monitoring Well
msl = mean sea level
TOC = Top of Casing

MONITORING WELL NO. WMW-6
FIELD LOGGED BY: K.Henderson
ELEVATION: GROUND SURFACE (msl): Not Recorded (ft)
GROUNDWATER (below TOC): 9.51 feet bgs (ft)
DRILL TYPE: Hollow Stem Auger
CME 75
BORE HOLE DIAMETER: 8.0 (in)

WELL COMPLETION INFORMATION

Measuring Point Description: Top of Casing
Measuring Point Elevation (feet):
Static Water Level (feet): 9.51
First Occurance of Groundwater (feet): 18

Type of Casing: PVC
Casing Diameter: 2 inches
Slot Size: 0.010
Total Well Depth (feet bgs):

Well Development: Water Extraction Until Visibly Free of Sediment
Well Cap: Locking Metal Above Ground Well Protector

ELEVATION (msl) - ft	SAMPLE INTERVAL/ID	COMPLETION DIAGRAM	CLASSIFICATION AND DESCRIPTION	USCS SYMBOL	BLOW COUNT	ANALYTICAL	TIME	% RECOVERY	PID RESULT (ppm)	DEPTH (bgs) - ft
0.0		BENTONITE GROUT	CLAY, silty at surface, orangish-brown, dry to damp, brittle, trace silt	CL	Hand Auger to 2 feet into hard clay	NS	1425	100		0
-5.0			CLAY, orangish-brown, stiff to very stiff, interbedded with clay with some silt, trace organic material and white crystalline powder, damp	CL	9-13-16			100	11.0	5
-10.0		Static Water Level	CLAY, orangish-brown, hard, trace to some silt, trace organic material and white crystalline powder thin laminations, damp, getting softer at approximately 18 feet bgs (as noted by driller)	CL-CH	8-13-20			100	4.6	10
-15.0		BENTONITE SEAL			7-13-15			100	2.5	15
		First Occurance								

Boring Terminated at 45' bgs

Split Spoon Sample

3690050	MAXIM TECHNOLOGIES INC®	EXPLORATORY BORING LOG	WMW-6

PROJECT NAME: 3690050
LOCATION: Wingate Gas Fractionating Plant

DRILLED BY: Kleinfelder Drilling
DATE: HOLE STARTED: 6-24-03
DATE: COMPLETED: 6-25-03

REMARKS: bgs = below ground surface
NA=Not Applicable, NS=No Sample
MW=Monitoring Well
msl = mean sea level
TOC = Top of Casing

MONITORING WELL NO. WMW-6
FIELD LOGGED BY: K.Henderson
ELEVATION: GROUND SURFACE (msl): Not Recorded (ft)
GROUNDWATER (below TOC): 9.51 feet bgs (ft)
DRILL TYPE: Hollow Stem Auger
CME 75
BORE HOLE DIAMETER: 8.0 (in)

WELL COMPLETION INFORMATION

Measuring Point Description: Top of Casing
Measuring Point Elevation (feet):
Static Water Level (feet): 9.51
First Occurance of Groundwater (feet): 18

Type of Casing: PVC
Casing Diameter: 2 inches
Slot Size: 0.010
Total Well Depth (feet bgs):

Well Development: Water Extraction Until Visibly Free of Sediment
Well Cap: Locking Metal Above Ground Well Protector

ELEVATION (msl) - ft	SAMPLE INTERVAL/ID	COMPLETION DIAGRAM	CLASSIFICATION AND DESCRIPTION	USCS SYMBOL	BLOW COUNT	ANALYTICAL	TIME	% RECOVERY	PID RESULT (ppm)	DEPTH (bgs) - ft
-20.0			of Groundwater							20
			SAND, light orangish-brown, very fine grained, saturated, very loose	SW	1-1-1			<5	1.7	
			CLAY with sand, soft, wet, orangish-brown, <1" clay bed at approximately 25.4 feet bgs	CL						
-25.0		SAND PACK								25
			SAND with some clay, saturated, orangish-brown, black clay stringer	SC	1-1-2			100	1.7	
-30.0			SAND, fine grained, orangish-brown, saturated, very loose, some clay at 31.7 feet bgs	SW-SC	1-2-3			100	5.2	30
-35.0		Threaded Bottom Cap	SAND with gravel, very loose, orangish-brown, chert and sandstone fragments from 1/8" to 1/4", some coarse grained sand, saturated	GW	2-9-9			100	5.5	35

Boring Terminated at 45' bgs

Split Spoon Sample

3690050	MAXIM TECHNOLOGIES INC®	EXPLORATORY BORING LOG	WMW-6

PROJECT NAME: 3690050
LOCATION: Wingate Gas Fractionating Plant

DRILLED BY: Kleinfelder Drilling
DATE: HOLE STARTED: 6-24-03
DATE: COMPLETED: 6-25-03

REMARKS: bgs = below ground surface
NA=Not Applicable, NS=No Sample
MW=Monitoring Well
msl = mean sea level
TOC = Top of Casing

MONITORING WELL NO. WMW-6
FIELD LOGGED BY: K.Henderson
ELEVATION: GROUND SURFACE (msl): Not Recorded (ft)
GROUNDWATER (below TOC): 9.51 feet bgs (ft)
DRILL TYPE: Hollow Stem Auger
CME 75
BORE HOLE DIAMETER: 8.0 (in)

WELL COMPLETION INFORMATION

Measuring Point Description: Top of Casing
Measuring Point Elevation (feet):
Static Water Level (feet): 9.51
First Occurance of Groundwater (feet): 18

Type of Casing: PVC
Casing Diameter: 2 inches
Slot Size: 0.010
Total Well Depth (feet bgs):

Well Development: Water Extraction Until Visibly Free of Sediment
Well Cap: Locking Metal Above Ground Well Protector

ELEVATION (msl) - ft	SAMPLE INTERVAL/ID	COMPLETION DIAGRAM	CLASSIFICATION AND DESCRIPTION	USCS SYMBOL	BLOW COUNT	ANALYTICAL	TIME	% RECOVERY	PID RESULT (ppm)	DEPTH (bgs) - ft
-40.0			SAND, silty, saturated, orangish-brown, very fine grained	SM			1030			40
-45.0										45

Boring Terminated at 45' bgs

Split Spoon Sample

3690050	MAXIM TECHNOLOGIES INC®	EXPLORATORY BORING LOG	WMW-6

PROJECT NAME: 4690019
LOCATION: Wingate Gas Fractionating Plant

DRILLED BY: Kleinfelder Drilling
DATE: HOLE STARTED: 9/22/04
DATE: COMPLETED: 9/23/04

REMARKS: bgs = below ground surface
NA=Not Applicable, NS=No Sample
MW=Monitoring Well
msl = mean sea level
TOC = Top of Casing

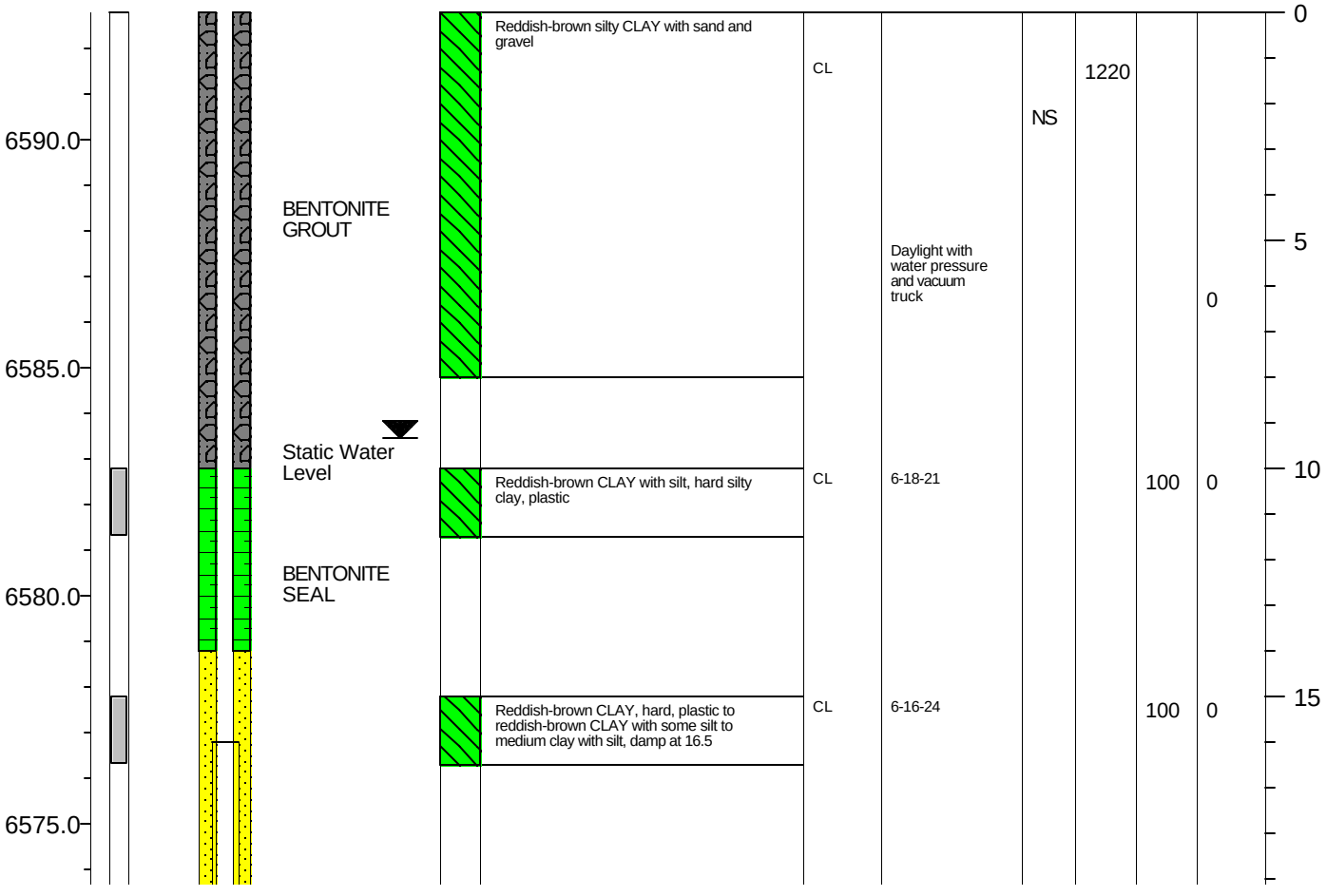
MONITORING WELL NO. WMW-7
FIELD LOGGED BY: Angela Conlan
ELEVATION: GROUND SURFACE (msl): Not Recorded (ft)
GROUNDWATER (below TOC): 9.33 feet bgs (ft)
DRILL TYPE: Hollow Stem Auger
CME 75
BORE HOLE DIAMETER: 8.0 (in)

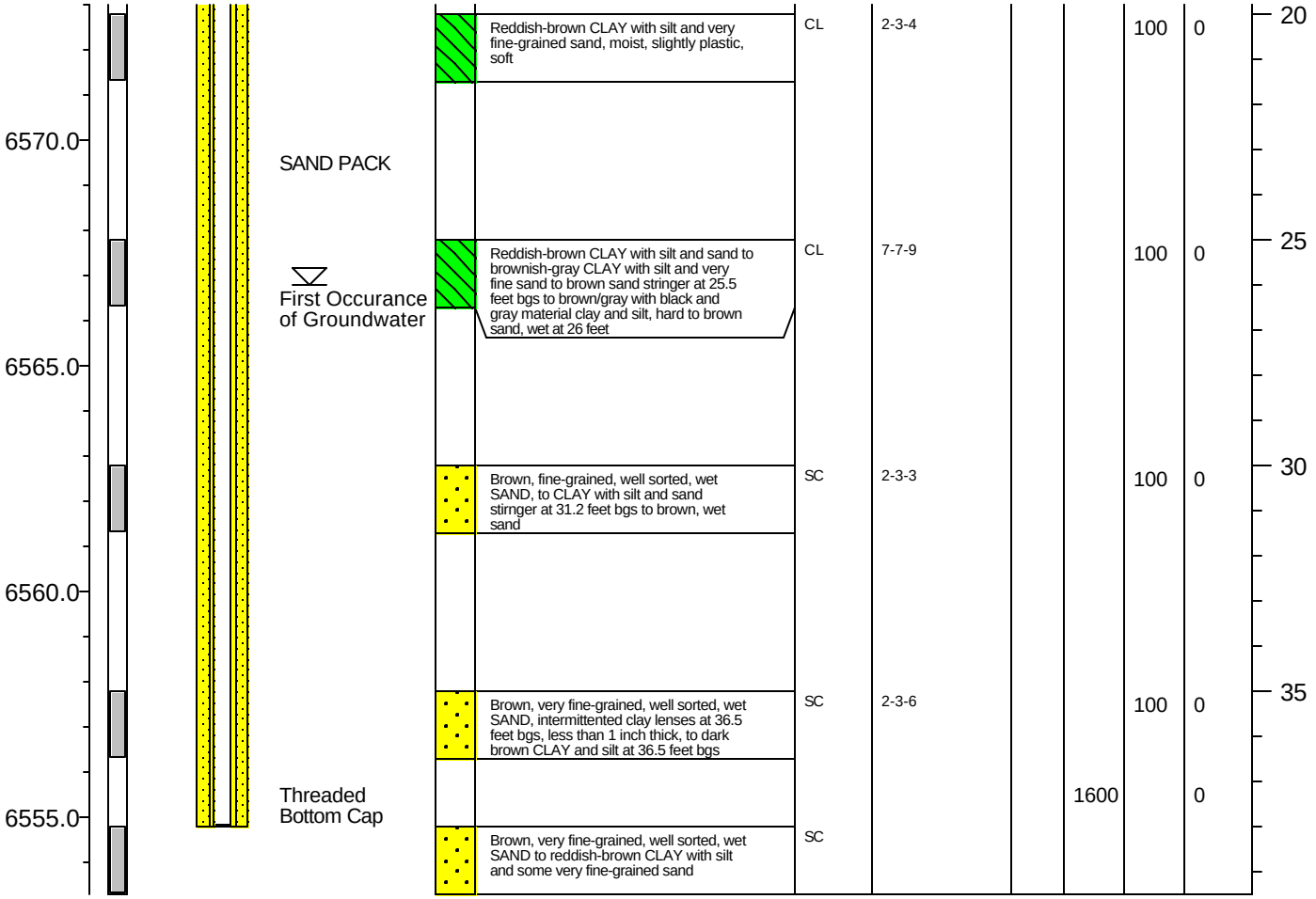
WELL COMPLETION INFORMATION

Measuring Point Description: Top of Casing
Measuring Point Elevation (feet): 6594.70
Static Water Level (feet): 9.33
First Occurance of Groundwater (feet): 26

Type of Casing: PVC
Casing Diameter: 4 inches
Slot Size: 0.010
Total Well Depth (feet bgs): 38

Well Development: Water Extraction Until Visibly Free of Sediment
Well Cap: Locking Metal Above Ground Well Protector





Boring Terminated at 38' bgs

Split Spoon Sample

4690019		EXPLORATORY BORING LOG	WMW-7

PROJECT NAME: 4690019
LOCATION: Wingate Gas Fractionating Plant

DRILLED BY: Kleinfelder Drilling
DATE: HOLE STARTED: 9/22/04
DATE: COMPLETED: 9/22/04

REMARKS: bgs = below ground surface
NA=Not Applicable, NS=No Sample
MW=Monitoring Well
msl = mean sea level
TOC = Top of Casing

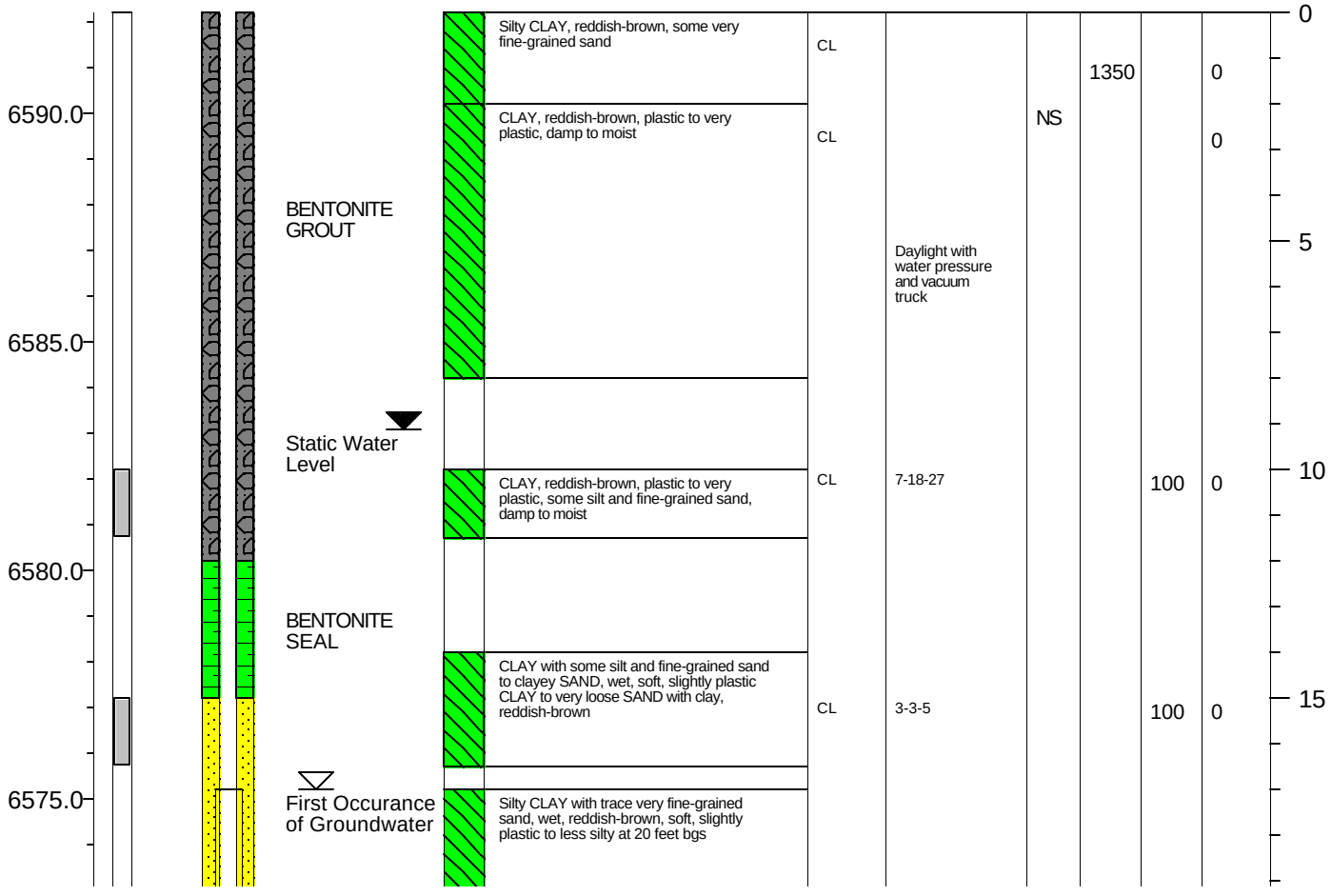
MONITORING WELL NO. WMW-8
FIELD LOGGED BY: Angela Conlan
ELEVATION: GROUND SURFACE (msl): Not Recorded (ft)
GROUNDWATER (below TOC): 9.11 feet bgs (ft)
DRILL TYPE: Hollow Stem Auger
CME 75
BORE HOLE DIAMETER: 8.0 (in)

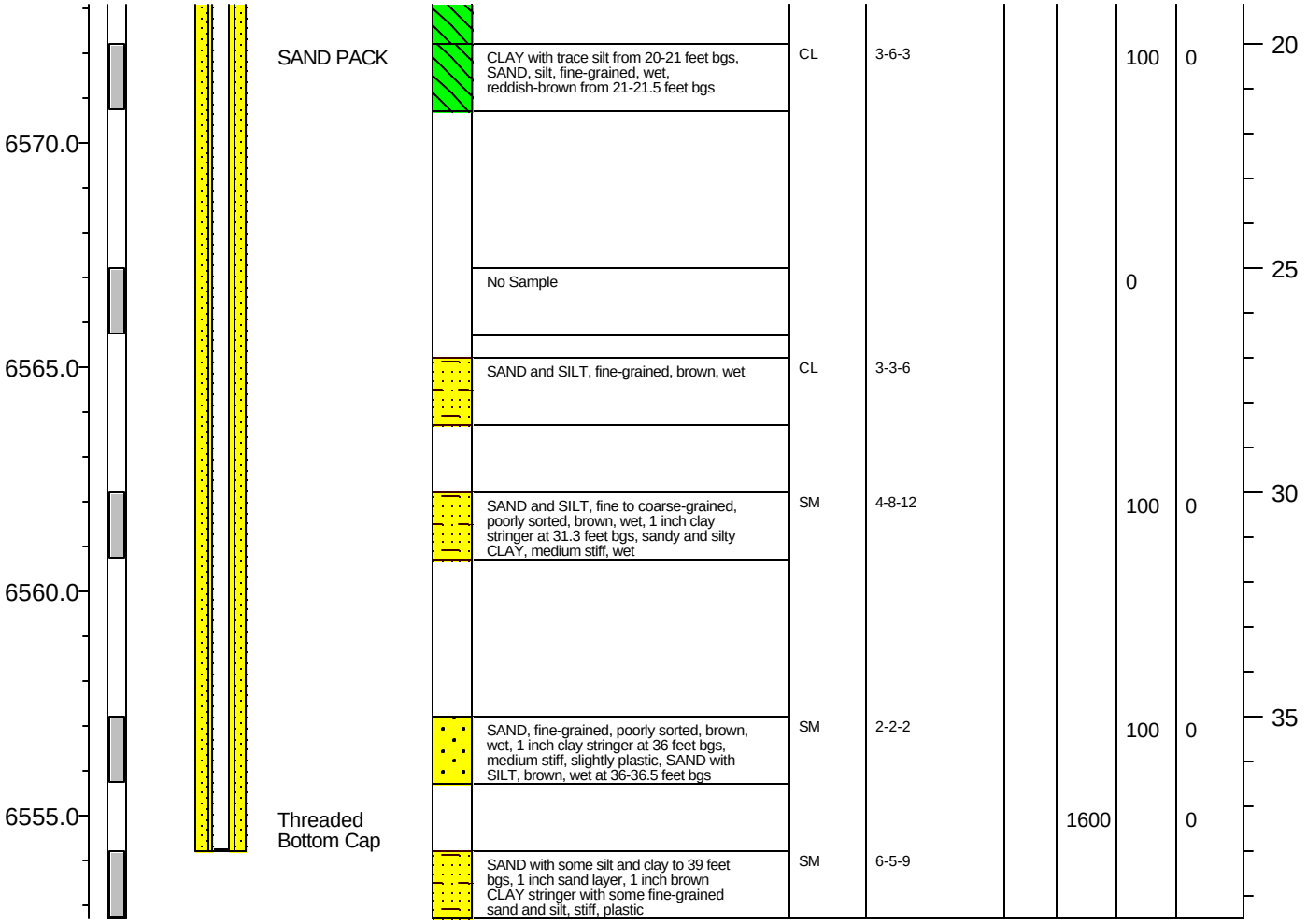
WELL COMPLETION INFORMATION

Measuring Point Description: Top of Casing
Measuring Point Elevation (feet): 6594.05
Static Water Level (feet): 9.11
First Occurance of Groundwater (feet): 17

Type of Casing: PVC
Casing Diameter: 4 inches
Slot Size: 0.010
Total Well Depth (feet bgs): 38

Well Development: Water Extraction Until Visibly Free of Sediment
Well Cap: Locking Metal Above Ground Well Protector





Boring Terminated at 38' bgs

Split Spoon Sample

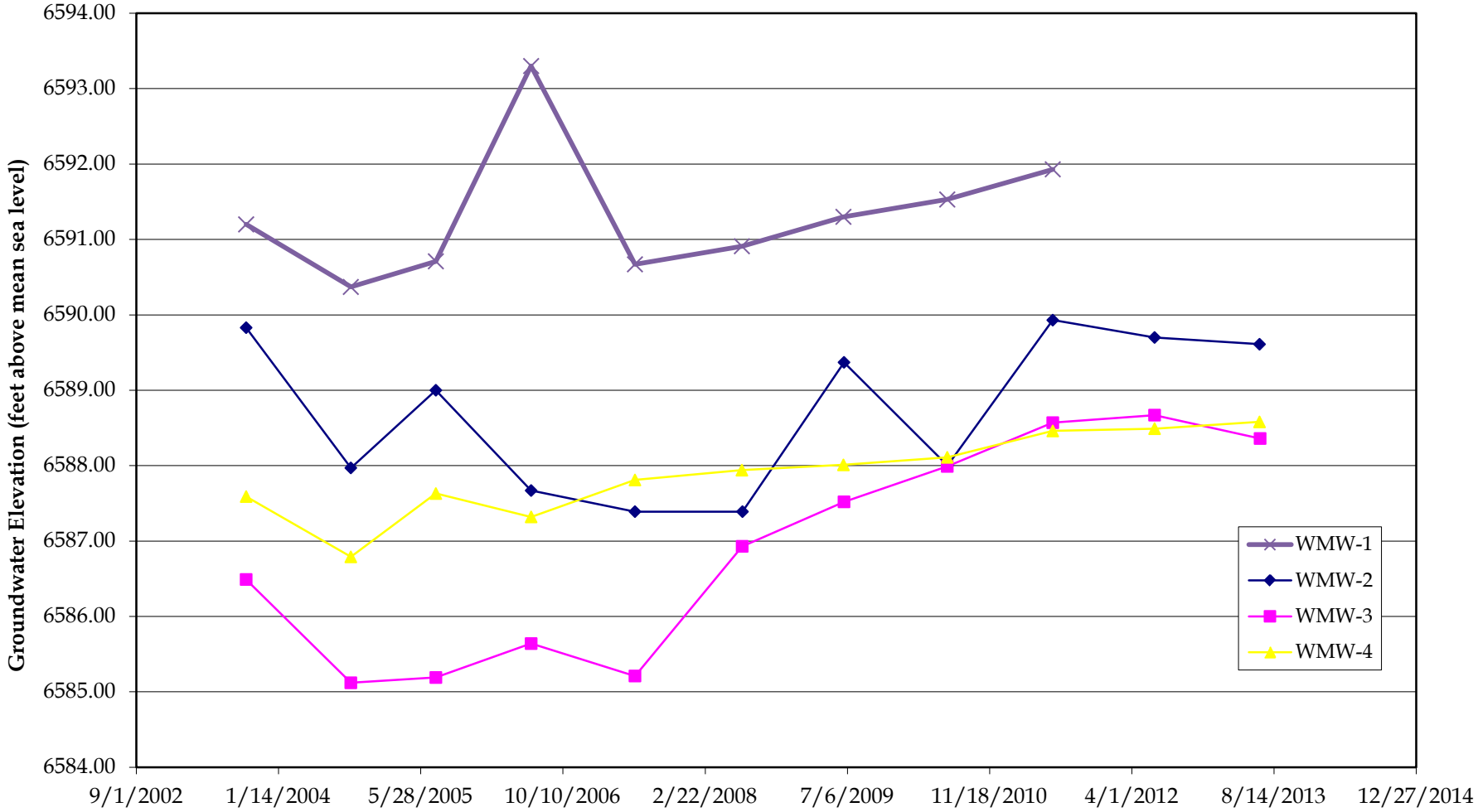
4690019		EXPLORATORY BORING LOG	WMW-8

APPENDIX B

ANALYTICAL CONCENTRATIONS VS. TIME GRAPHS AND SITE HYDROGRAPHS

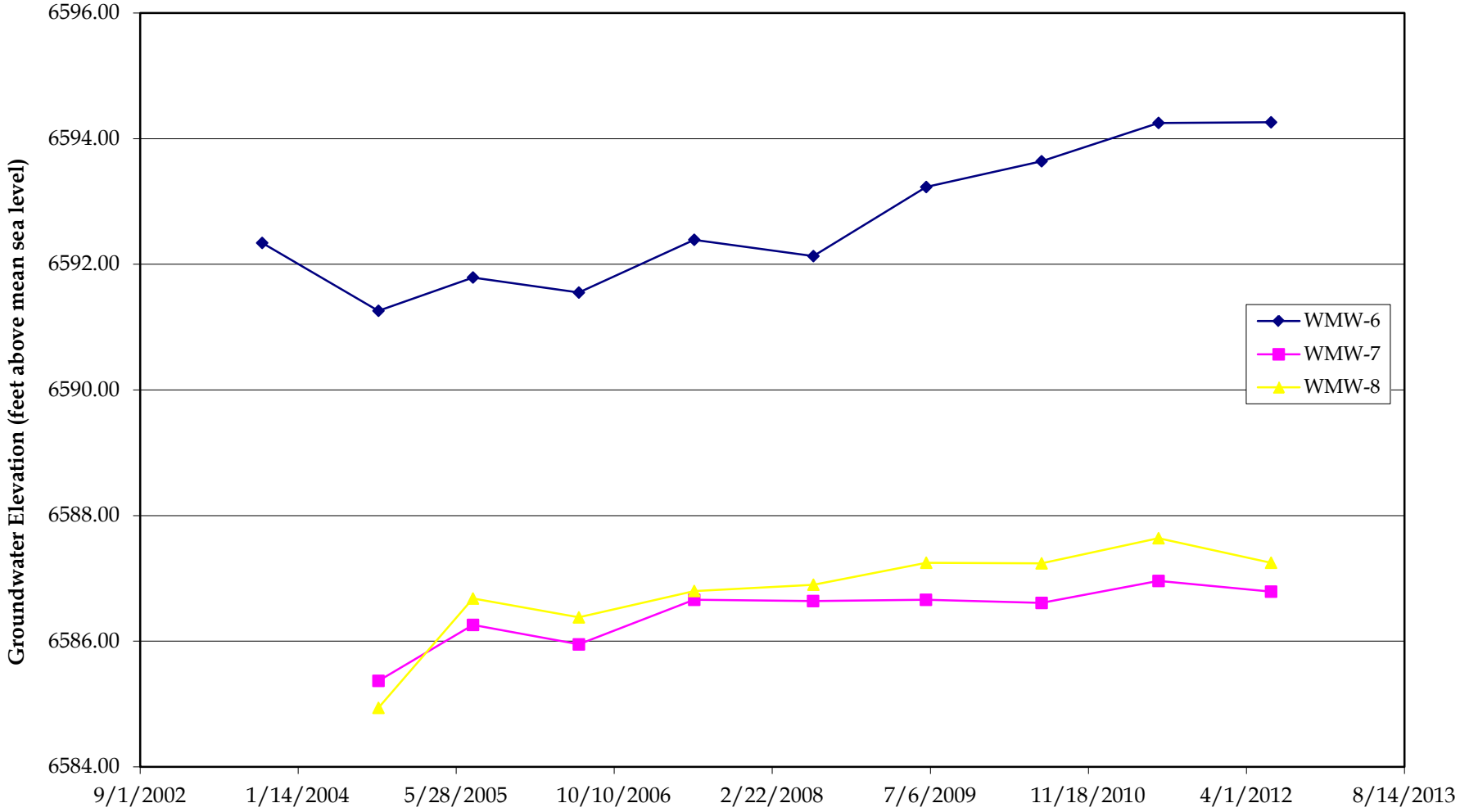
ConocoPhillips Company
Wingate Fractionator Plant

Groundwater Elevations vs. Time in Wingate Facility Monitor Wells



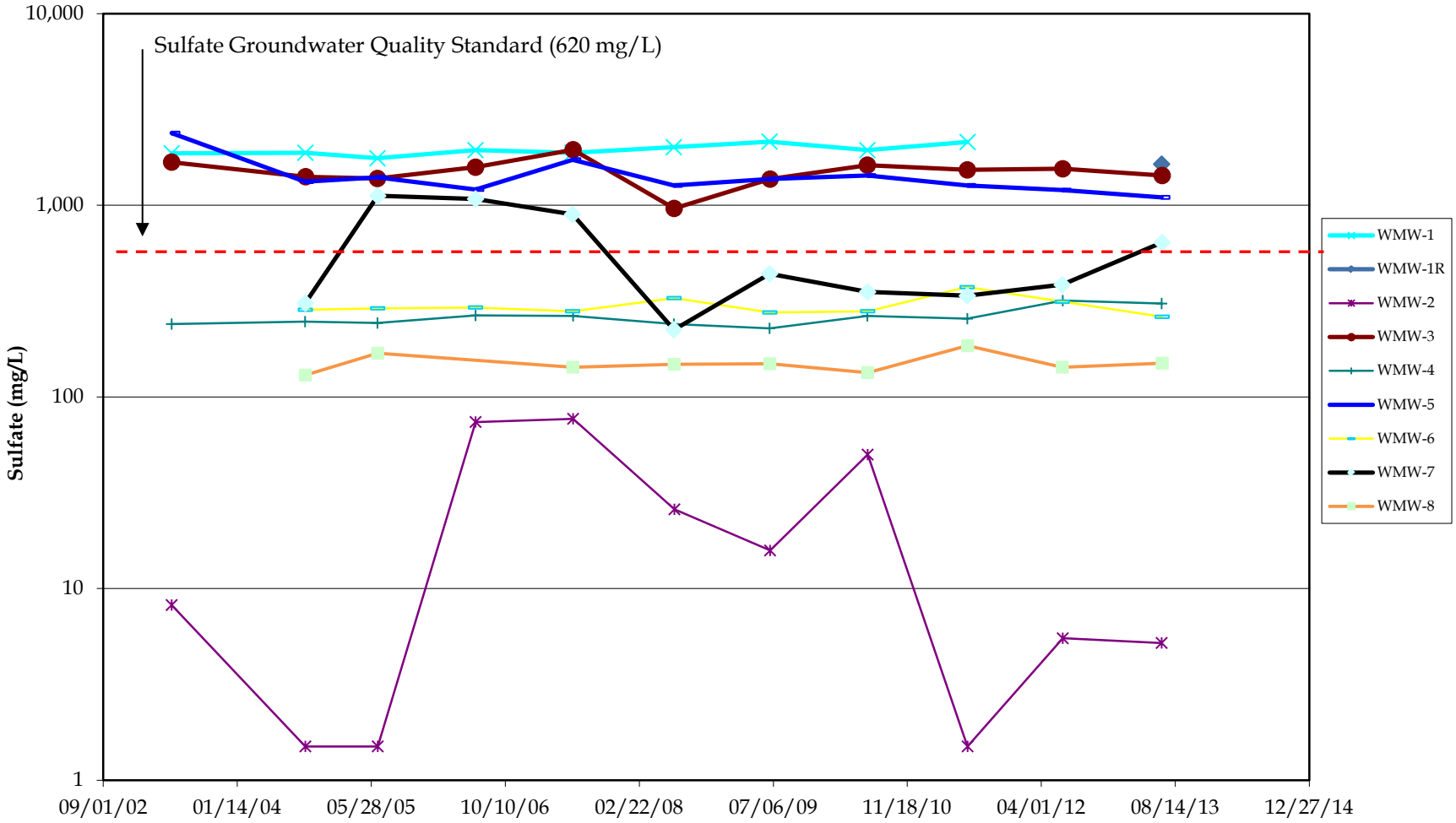
ConocoPhillips Company
Wingate Fractionator Plant

Groundwater Elevation vs. Time in Wingate Facility Monitor Wells



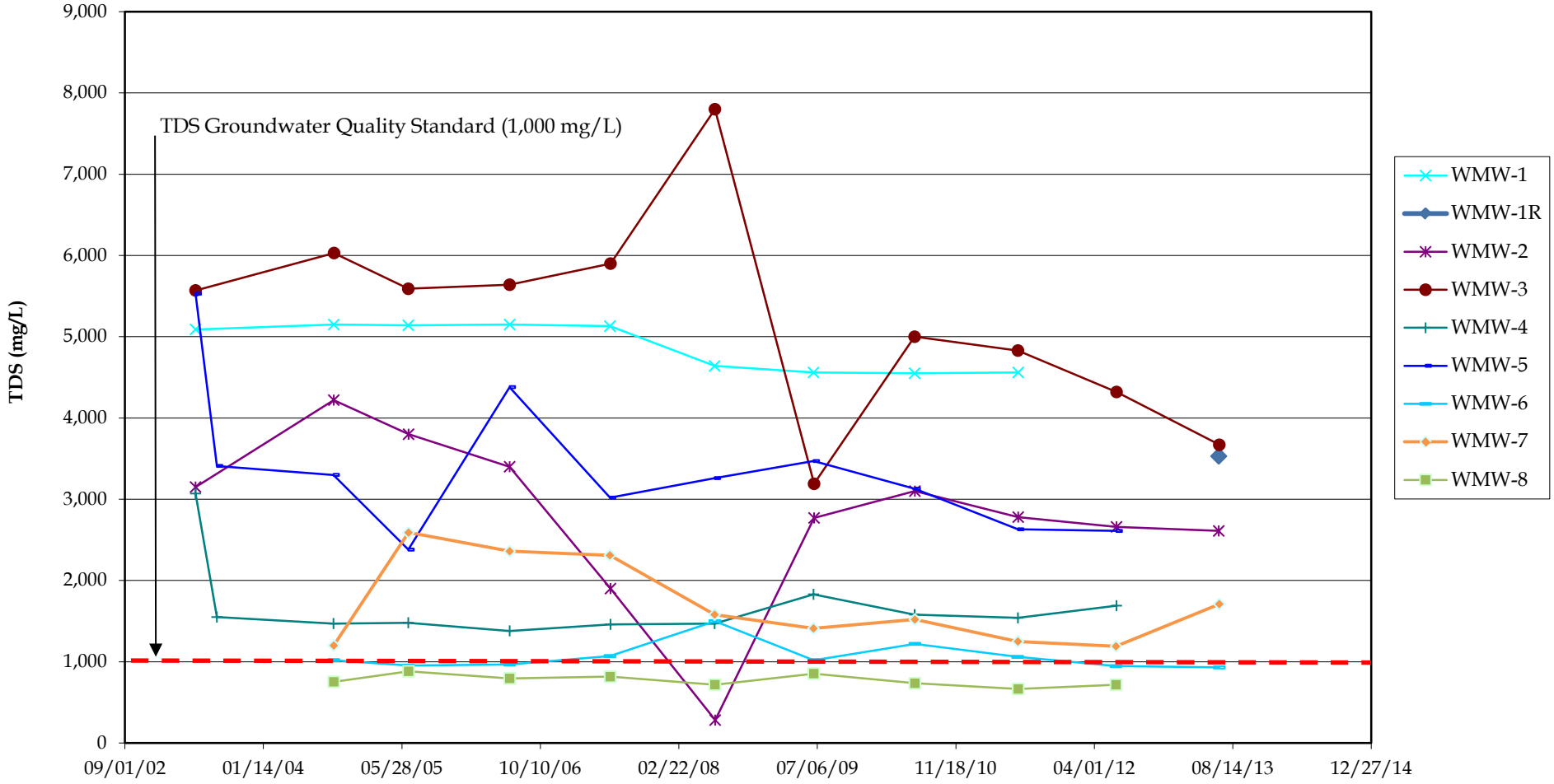
ConocoPhillips Company
Wingate Fractionator Plant

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



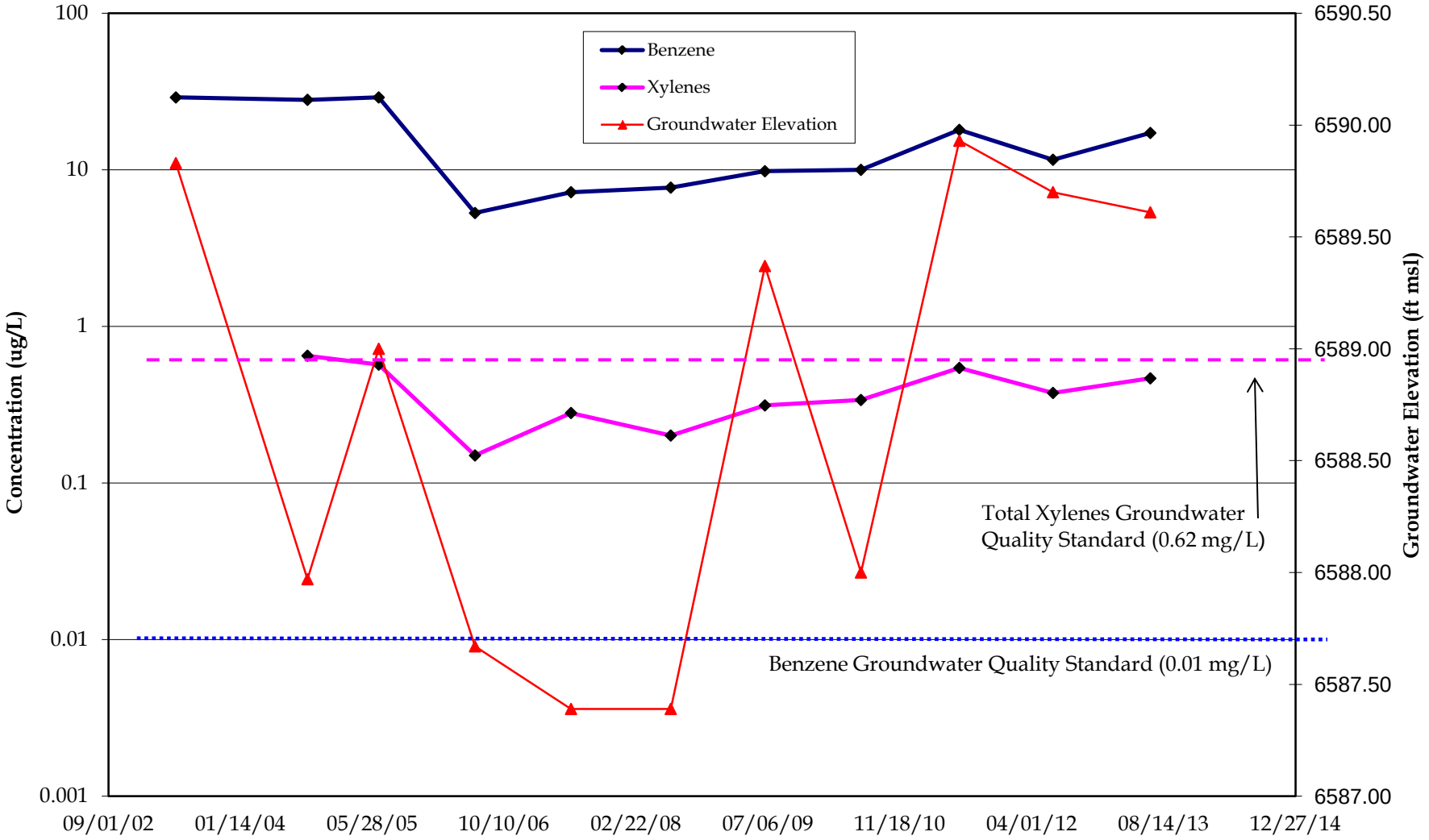
ConocoPhillips Company
Wingate Fractionator Plant

Total Dissolved Solids vs. Time in Wingate Monitor Wells



ConocoPhillips Company
Wingate Fractionator Plant

Benzene and Total Xylenes vs. Time in WMW-2



APPENDIX C

GROUNDWATER SAMPLING FIELD FORMS

WELL SAMPLING FIELD INFORMATION FORM

SITE/PROJECT NAME: Wingate Plant JOB# 075006
SAMPLE ID: GW-075006-062413-CM-WMW-1 WELL# WMW-1

WELL PURGING INFORMATION

PURGE DATE (MM DD YY)	SAMPLE DATE (MM DD YY)	SAMPLE TIME (24 HOUR)	WATER VOL. IN CASING (GALLONS)	ACTUAL VOL. PURGED (GALLONS)
6/24/13	6/24/13	1510	1.648	5.00

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.........DEDICATED (Y) N (CIRCLE ONE)
SAMPLING EQUIPMENT.........DEDICATED (Y) N (CIRCLE ONE)

PURGING DEVICE: G
SAMPLING DEVICE: G
A - SUBMERSIBLE PUMP; B - PERISTALTIC PUMP; C - BLADDER PUMP; D - GAS LIFT PUMP; E - PURGE PUMP; F - DIPPER BOTTLE; G - BAILER; H - WATERRA®; X - OTHER
X= ____ PURGING DEVICE OTHER (SPECIFY)
X= ____ SAMPLING DEVICE OTHER (SPECIFY)

PURGING MATERIAL: B
SAMPLING MATERIAL: B
A - TEFLON; B - STAINLESS STEEL; C - POLYPROPYLENE; D - PVC; E - POLYETHYLENE; X - OTHER
X= ____ PURGING MATERIAL OTHER (SPECIFY)
X= ____ SAMPLING MATERIAL OTHER (SPECIFY)

PURGE TUBING: E
SAMPLING TUBING: E
A - TEFLON; B - TYGON; C - ROPE; D - POLYPROPYLENE; E - POLYETHYLENE; F - SILICONE; G - COMBINATION TEFLON/POLYPROPYLENE; X - OTHER
X= ____ PURGE TUBING OTHER (SPECIFY)
X= ____ SAMPLING TUBING OTHER (SPECIFY)

FILTERING DEVICES 0.45: A — A - IN-LINE DISPOSABLE; B - PRESSURE — 0.45 micron for metals only.

FIELD MEASUREMENTS

DEPTH TO WATER ____ (feet) WELL ELEVATION ____ (feet)
WELL DEPTH ____ (feet) GROUNDWATER ELEVATION ____ (feet)

TEMPERATURE (°C)	pH (std)	TDS (g/L)	SC (µS/cm)	DO (mg/L)	ORP (mV)	VOLUME (gal)
13.24	6.94	4.718	7261	1.05	11.2	4.0
13.75	7.02	4.089	6438	0.45	0.8	4.5
13.92	7.05	3.865	5947	0.27	-0.2	5.0

FIELD COMMENTS

SAMPLE APPEARANCE: Cloudy ODOR: none COLOR: Orange SHEEN Y/N no
WEATHER CONDITIONS: TEMPERATURE 90° WINDY Y/N yes PRECIPITATION Y/N (IF Y TYPE) no
SPECIFIC COMMENTS:

1.648 x 3 = 4.944

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOLS

DATE PRINT SIGNATURE

WELL SAMPLING FIELD INFORMATION FORM

SITE/PROJECT NAME: Wingate Plant JOB# 075006
SAMPLE ID: GW-075006-062413-CM-WMW-2 WELL# WMW-2

WELL PURGING INFORMATION

PURGE DATE (MM DD YY)	SAMPLE DATE (MM DD YY)	SAMPLE TIME (24 HOUR)	WATER VOL. IN CASING (GALLONS)	ACTUAL VOL. PURGED (GALLONS)
6/24/13	6/24/13	1400	2.37	7.25

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.....DEDICATED (Y) N (CIRCLE ONE)

SAMPLING EQUIPMENT.....DEDICATED (Y) N (CIRCLE ONE)

PURGING DEVICE	G	A - SUBMERSIBLE PUMP B - PERISTALTIC PUMP	D - GAS LIFT PUMP E - PURGE PUMP	G - BAILER H - WATERRA®	X= PURGING DEVICE OTHER (SPECIFY)
SAMPLING DEVICE	G	C - BLADDER PUMP	F - DIPPER BOTTLE	X - OTHER	X= SAMPLING DEVICE OTHER (SPECIFY)
PURGING MATERIAL	B/E	A - TEFLON B - STAINLESS STEEL	D - PVC E - POLYETHYLENE		X= PURGING MATERIAL OTHER (SPECIFY)
SAMPLING MATERIAL	B/E	C - POLYPROPYLENE	X - OTHER		X= SAMPLING MATERIAL OTHER (SPECIFY)
PURGE TUBING	C	A - TEFLON B - TYGON	D - POLYPROPYLENE E - POLYETHYLENE	G - COMBINATION TEFLON/POLYPROPYLENE	X= PURGE TUBING OTHER (SPECIFY)
SAMPLING TUBING	C	C - ROPE	F - SILICONE	X - OTHER	X= SAMPLING TUBING OTHER (SPECIFY)
FILTERING DEVICES 0.45		A - IN-LINE DISPOSABLE	B - PRESSURE		

FIELD MEASUREMENTS

DEPTH TO WATER ( ) (feet) WELL ELEVATION ( ) (feet)

WELL DEPTH ( ) (feet) GROUNDWATER ELEVATION ( ) (feet)

TEMPERATURE	pH	TDS	SC	DO	ORP	VOLUME
12.52 (°C)	8.08 (std)	3.209 (g/L)	4938 (µS/cm)	-0.03 (mg/L)	-160.8 (mV)	6.25 (gal)
12.42 (°C)	8.17 (std)	3.182 (g/L)	4897 (µS/cm)	-0.03 (mg/L)	-163.7 (mV)	6.75 (gal)
12.42 (°C)	8.22 (std)	3.153 (g/L)	4848 (µS/cm)	0.02 (mg/L)	-164.7 (mV)	7.25 (gal)
( ) (°C)	( ) (std)	( ) (g/L)	( ) (µS/cm)	( ) (mg/L)	( ) (mV)	( ) (gal)
( ) (°C)	( ) (std)	( ) (g/L)	( ) (µS/cm)	( ) (mg/L)	( ) (mV)	( ) (gal)

FIELD COMMENTS

SAMPLE APPEARANCE: cloudy ODOR: hydrocarbon COLOR: gray SHEEN Y/N: no

WEATHER CONDITIONS: TEMPERATURE 90° WINDY Y/N: yes PRECIPITATION Y/N (IF Y TYPE): no

SPECIFIC COMMENTS:

2.37 x 3 = 7.12

Duplicate collected @ 1405 for VOCs

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOLS

DATE PRINT SIGNATURE

WELL SAMPLING FIELD INFORMATION FORM

SITE/PROJECT NAME: Wingate Plant JOB# 075006

SAMPLE ID: GW-075006-062613-CM-WMW-83 WELL# WMW-83

WELL PURGING INFORMATION

PURGE DATE (MM DD YY)	SAMPLE DATE (MM DD YY)	SAMPLE TIME (24 HOUR)	WATER VOL IN CASING (GALLONS)	ACTUAL VOL. PURGED (GALLONS)
6/26/13	6/26/13	0835	2.18	6.75

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.....DEDICATED (Y) N (CIRCLE ONE)

SAMPLING EQUIPMENT.....DEDICATED (Y) N (CIRCLE ONE)

PURGING DEVICE	G	A - SUBMERSIBLE PUMP	D - GAS LIFT PUMP	G - BAILER	X= PURGING DEVICE OTHER (SPECIFY)
		B - PERISTALTIC PUMP	E - PURGE PUMP	H - WATERRA®	
SAMPLING DEVICE	G	C - BLADDER PUMP	F - DIPPER BOTTLE	X - OTHER	X= SAMPLING DEVICE OTHER (SPECIFY)
PURGING MATERIAL	E	A - TEFLON	D - PVC		X= PURGING MATERIAL OTHER (SPECIFY)
		B - STAINLESS STEEL	E - POLYETHYLENE		
SAMPLING MATERIAL	E	C - POLYPROPYLENE	X - OTHER		X= SAMPLING MATERIAL OTHER (SPECIFY)
PURGE TUBING	C	A - TEFLON	D - POLYPROPYLENE	G - COMBINATION TEFLON/POLYPROPYLENE	X= PURGE TUBING OTHER (SPECIFY)
		B - TYGON	E - POLYETHYLENE		
SAMPLING TUBING	C	C - ROPE	F - SILICONE	X - OTHER	X= SAMPLING TUBING OTHER (SPECIFY)
FILTERING DEVICES 0.45	A	A - IN-LINE DISPOSABLE	B - PRESSURE		

FIELD MEASUREMENTS

DEPTH TO WATER _____ (feet) WELL ELEVATION _____ (feet)

WELL DEPTH _____ (feet) GROUNDWATER ELEVATION _____ (feet)

TEMPERATURE	pH	TDS	SC	DO	ORP	VOLUME
11.74 (°C)	7.33 (std)	4.204 (g/L)	6466 (µS/cm)	5.09 (mg/L)	57.8 (mV)	5.75 (gal)
11.56 (°C)	7.42 (std)	4.158 (g/L)	6396 (µS/cm)	3.44 (mg/L)	57.7 (mV)	6.25 (gal)
11.50 (°C)	7.43 (std)	4.132 (g/L)	6358 (µS/cm)	5.69 (mg/L)	58.8 (mV)	6.75 (gal)
(°C)	(std)	(g/L)	(µS/cm)	(mg/L)	(mV)	(gal)
(°C)	(std)	(g/L)	(µS/cm)	(mg/L)	(mV)	(gal)

FIELD COMMENTS

SAMPLE APPEARANCE: cloudy ODOR: none COLOR: orange SHEEN Y/N no

WEATHER CONDITIONS: TEMPERATURE 80° WINDY Y/N breezy PRECIPITATION Y/N (IF Y TYPE) no

SPECIFIC COMMENTS:

2.18 x 3 = 6.55

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOLS

DATE PRINT SIGNATURE

WELL SAMPLING FIELD INFORMATION FORM

SITE/PROJECT NAME: Wingate Plant JOB# 075006

SAMPLE ID: GW-075006-062413-CM-WMW-4 WELL# WMW-4

WELL PURGING INFORMATION

PURGE DATE (MM DD YY)	SAMPLE DATE (MM DD YY)	SAMPLE TIME (24 HOUR)	WATER VOL. IN CASING (GALLONS)	ACTUAL VOL. PURGED (GALLONS)
6/24/13	6/24/13	1315	2.28	~~6.8304~~ 7.00

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.........DEDICATED (Y) N (CIRCLE ONE)

SAMPLING EQUIPMENT.........DEDICATED (Y) N (CIRCLE ONE)

PURGING DEVICE: G

SAMPLING DEVICE: G

A - SUBMERSIBLE PUMP; B - PERISTALTIC PUMP; C - BLADDER PUMP; D - GAS LIFT PUMP; E - PURGE PUMP; F - DIPPER BOTTLE; G - BAILER; H - WATERRA®; X - OTHER

X= ______ PURGING DEVICE OTHER (SPECIFY)

X= ______ SAMPLING DEVICE OTHER (SPECIFY)

PURGING MATERIAL: E

SAMPLING MATERIAL: E

A - TEFLON; B - STAINLESS STEEL; C - POLYPROPYLENE; D - PVC; E - POLYETHYLENE; X - OTHER

X= ______ PURGING MATERIAL OTHER (SPECIFY)

X= ______ SAMPLING MATERIAL OTHER (SPECIFY)

PURGE TUBING: C

SAMPLING TUBING: C

A - TEFLON; B - TYGON; C - ROPE; D - POLYPROPYLENE; E - POLYETHYLENE; F - SILICONE; G - COMBINATION TEFLON/POLYPROPYLENE; X - OTHER

X= ______ PURGE TUBING OTHER (SPECIFY)

X= ______ SAMPLING TUBING OTHER (SPECIFY)

FILTERING DEVICES 0.45: A — A - IN-LINE DISPOSABLE; B - PRESSURE — 0.45 for metals only.

FIELD MEASUREMENTS

DEPTH TO WATER ______ (feet) WELL ELEVATION ______ (feet)

WELL DEPTH ______ (feet) GROUNDWATER ELEVATION ______ (feet)

TEMPERATURE (°C)	pH (std)	TDS (g/L)	SC (µS/cm)	DO (mg/L)	ORP (mV)	VOLUME (gal)
13.38	7.71	1.673	2572	0.49	-125.8	6.0
13.40	7.68	1.672	2573	0.42	-124.4	6.5
13.48	7.68	1.671	2571	0.34	-125.1	7.0

FIELD COMMENTS

SAMPLE APPEARANCE: Cloudy ODOR: none COLOR: orange SHEEN Y/N no

WEATHER CONDITIONS: TEMPERATURE 90° WINDY Y/N yes PRECIPITATION Y/N (IF Y TYPE) no

SPECIFIC COMMENTS:

2.28 x 3 = 6.8304

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOLS

DATE ______ PRINT ______ SIGNATURE ______

WELL SAMPLING FIELD INFORMATION FORM

SITE/PROJECT NAME: Wingate Plant JOB# 02492 075006

SAMPLE ID: ~~GW-06~~ GW-075006-06243-CM-WMW-5 WELL# WMW-5

WELL PURGING INFORMATION

PURGE DATE (MM DD YY)	SAMPLE DATE (MM DD YY)	SAMPLE TIME (24 HOUR)	WATER VOL. IN CASING (GALLONS)	ACTUAL VOL. PURGED (GALLONS)
6/24/13	6/24/13	1225		3.75

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.....DEDICATED Y (N) (CIRCLE ONE)

SAMPLING EQUIPMENT.....DEDICATED Y (N) (CIRCLE ONE)

PURGING DEVICE	C	A - SUBMERSIBLE PUMP	D - GAS LIFT PUMP	G - BAILER	X= PURGING DEVICE OTHER (SPECIFY)
		B - PERISTALTIC PUMP	E - PURGE PUMP	H - WATERRA®	
SAMPLING DEVICE	C	C - BLADDER PUMP	F - DIPPER BOTTLE	X - OTHER	X= SAMPLING DEVICE OTHER (SPECIFY)
PURGING MATERIAL	B	A - TEFLON	D - PVC		X= PURGING MATERIAL OTHER (SPECIFY)
		B - STAINLESS STEEL	E - POLYETHYLENE		
SAMPLING MATERIAL	B	C - POLYPROPYLENE	X - OTHER		X= SAMPLING MATERIAL OTHER (SPECIFY)
PURGE TUBING	~~G~~ E	A - TEFLON	D - POLYPROPYLENE	G - COMBINATION TEFLON/POLYPROPYLENE	X= PURGE TUBING OTHER (SPECIFY)
		B - TYGON	E - POLYETHYLENE		
SAMPLING TUBING	~~G~~ E	C - ROPE	F - SILICONE	X - OTHER	X= SAMPLING TUBING OTHER (SPECIFY)
FILTERING DEVICES 0.45	A	A - IN-LINE DISPOSABLE	B - PRESSURE	0.45 metals only	

FIELD MEASUREMENTS

DEPTH TO WATER ____ (feet) WELL ELEVATION ____ (feet)

WELL DEPTH ____ (feet) GROUNDWATER ELEVATION ____ (feet)

TEMPERATURE	pH	TDS	SC	DO	ORP	VOLUME
18.89 (°C)	7.27 (std)	2.916 (g/L)	4486 (µS/cm)	0.13 (mg/L)	53.0 (mV)	2.5 (gal)
18.78 (°C)	7.30 (std)	2.890 (g/L)	4447 (µS/cm)	0.11 (mg/L)	51.2 (mV)	2.75 (gal)
18.99 (°C)	7.32 (std)	2.852 (g/L)	4389 (µS/cm)	0.09 (mg/L)	49.0 (mV)	3.0 (gal)
18.97 (°C)	7.34 (std)	2.803 (g/L)	4308 (µS/cm)	0.13 (mg/L)	49.8 (mV)	3.25 (gal)
18.98 (°C)	7.33 (std)	2.760 (g/L)	4239 (µS/cm)	0.12 (mg/L)	51.1 (mV)	3.5 (gal)

FIELD COMMENTS

SAMPLE APPEARANCE: clear ODOR: none COLOR: slight yellow SHEEN Y/N: no

WEATHER CONDITIONS: TEMPERATURE: 90° WINDY Y/N: yes PRECIPITATION Y/N (IF Y TYPE): no

SPECIFIC COMMENTS:

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOLS

DATE PRINT SIGNATURE

WELL SAMPLING FIELD INFORMATION FORM

SITE/PROJECT NAME: Wingate Plant JOB# 075006

SAMPLE ID: GW-075006-062613-MH-WMW-6 WELL# WMW-6

WELL PURGING INFORMATION

PURGE DATE (MM DD YY)	SAMPLE DATE (MM DD YY)	SAMPLE TIME (24 HOUR)	WATER VOL. IN CASING (GALLONS)	ACTUAL VOL. PURGED (GALLONS)
6/26/13	6/26/13	0950		

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.....DEDICATED Y (N) (CIRCLE ONE)

SAMPLING EQUIPMENT.....DEDICATED Y (N) (CIRCLE ONE)

PURGING DEVICE	C	A - SUBMERSIBLE PUMP	D - GAS LIFT PUMP	G - BAILER	X= PURGING DEVICE OTHER (SPECIFY)
		B - PERISTALTIC PUMP	E - PURGE PUMP	H - WATERRA®	
SAMPLING DEVICE	C	C - BLADDER PUMP	F - DIPPER BOTTLE	X - OTHER	X= SAMPLING DEVICE OTHER (SPECIFY)
PURGING MATERIAL	B	A - TEFLON	D - PVC		X= PURGING MATERIAL OTHER (SPECIFY)
		B - STAINLESS STEEL	E - POLYETHYLENE		
SAMPLING MATERIAL	B	C - POLYPROPYLENE	X - OTHER		X= SAMPLING MATERIAL OTHER (SPECIFY)
PURGE TUBING	E	A - TEFLON	D - POLYPROPYLENE	G - COMBINATION TEFLON/POLYPROPYLENE	X= PURGE TUBING OTHER (SPECIFY)
		B - TYGON	E - POLYETHYLENE		
SAMPLING TUBING	E	C - ROPE	F - SILICONE	X - OTHER	X= SAMPLING TUBING OTHER (SPECIFY)
FILTERING DEVICES 0.45	A	A - IN-LINE DISPOSABLE	B - PRESSURE		

FIELD MEASUREMENTS

DEPTH TO WATER ( ) (feet) WELL ELEVATION ( ) (feet)

WELL DEPTH ( ) (feet) GROUNDWATER ELEVATION ( ) (feet)

	TEMPERATURE	pH	TDS	SC	DO	ORP	VOLUME
0935	18.44 (°C)	7.60 (std)	0.899 (g/L)	1383 (µS/cm)	3.76 (mg/L)	34.4 (mV)	2.0 (gal)
0940	~~18.53~~ 18.47 (°C)	7.60 (std)	0.898 (g/L)	1382 (µS/cm)	2.71 (mg/L)	36.5 (mV)	2.5 (gal)
0945	18.48 (°C)	7.62 (std)	0.897 (g/L)	1380 (µS/cm)	2.70 (mg/L)	~~36~~ 36.0 (mV)	3.0 (gal)
	(°C)	(std)	(g/L)	(µS/cm)	(mg/L)	(mV)	(gal)
	(°C)	(std)	(g/L)	(µS/cm)	(mg/L)	(mV)	(gal)

FIELD COMMENTS

SAMPLE APPEARANCE: cloudy ODOR: none COLOR: light orange SHEEN Y/N no

WEATHER CONDITIONS: TEMPERATURE 80° WINDY Y/N breezy PRECIPITATION Y/N (IF Y TYPE) no

SPECIFIC COMMENTS:

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOLS

DATE PRINT SIGNATURE

WELL SAMPLING FIELD INFORMATION FORM

SITE/PROJECT NAME: Wingate Plant JOB# 075006
SAMPLE ID: GW-075006-062613-CM-WMW-7 WELL# WMW-7

WELL PURGING INFORMATION

PURGE DATE (MM DD YY)	SAMPLE DATE (MM DD YY)	SAMPLE TIME (24 HOUR)	WATER VOL IN CASING (GALLONS)	ACTUAL VOL. PURGED (GALLONS)
6/26/13	6/26/13	1340		

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.....DEDICATED Y (N) (CIRCLE ONE)

SAMPLING EQUIPMENT.....DEDICATED Y (N) (CIRCLE ONE)

PURGING DEVICE	C	A - SUBMERSIBLE PUMP	D - GAS LIFT PUMP	G - BAILER	X= PURGING DEVICE OTHER (SPECIFY)
		B - PERISTALTIC PUMP	E - PURGE PUMP	H - WATERRA®	
SAMPLING DEVICE	C	C - BLADDER PUMP	F - DIPPER BOTTLE	X - OTHER	X= SAMPLING DEVICE OTHER (SPECIFY)
PURGING MATERIAL	B	A - TEFLON	D - PVC		X= PURGING MATERIAL OTHER (SPECIFY)
		B - STAINLESS STEEL	E - POLYETHYLENE		
SAMPLING MATERIAL	B	C - POLYPROPYLENE	X - OTHER		X= SAMPLING MATERIAL OTHER (SPECIFY)
PURGE TUBING	E	A - TEFLON	D - POLYPROPYLENE	G - COMBINATION TEFLON/POLYPROPYLENE	X= PURGE TUBING OTHER (SPECIFY)
		B - TYGON	E - POLYETHYLENE		
SAMPLING TUBING	E	C - ROPE	F - SILICONE	X - OTHER	X= SAMPLING TUBING OTHER (SPECIFY)
FILTERING DEVICES 0.45	A	A - IN-LINE DISPOSABLE	B - PRESSURE		

FIELD MEASUREMENTS

DEPTH TO WATER ( ) (feet) WELL ELEVATION ( ) (feet)

WELL DEPTH ( ) (feet) GROUNDWATER ELEVATION ( ) (feet)

	TEMPERATURE	pH	TDS	SC	DO	ORP	VOLUME
1320	22.47 (°C)	7.58 (std)	1.692 (g/L)	2603 (µS/cm)	~~3.64~~ 4.64 (mg/L)	77.3 (mV)	4.5 (gal)
1325	22.04 (°C)	7.56 (std)	1.686 (g/L)	2596 (µS/cm)	4.74 (mg/L)	75.9 (mV)	5.0 (gal)
1330	21.80 (°C)	7.56 (std)	1.672 (g/L)	2572 (µS/cm)	4.82 (mg/L)	78.6 (mV)	5.5 (gal)
1335	22.24 (°C)	7.58 (std)	1.652 (g/L)	2541 (µS/cm)	4.88 (mg/L)	75.8 (mV)	6.0 (gal)
	( ) (°C)	( ) (std)	( ) (g/L)	( ) (µS/cm)	( ) (mg/L)	( ) (mV)	( ) (gal)

FIELD COMMENTS

SAMPLE APPEARANCE: cloudy ODOR: none COLOR: ( ) SHEEN Y/N no

WEATHER CONDITIONS: TEMPERATURE 90° WINDY Y/N no PRECIPITATION Y/N (IF Y TYPE) no

SPECIFIC COMMENTS: Duplicate collected @ 1350
GW-075006-062813-CM-DUP

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOLS

DATE PRINT SIGNATURE

WELL SAMPLING FIELD INFORMATION FORM

SITE/PROJECT NAME: Wingate Plant JOB# 075006

SAMPLE ID: GW-075006-062613-CM-WMW8 WELL# WMW-8

WELL PURGING INFORMATION

PURGE DATE (MM DD YY)	SAMPLE DATE (MM DD YY)	SAMPLE TIME (24 HOUR)	WATER VOL. IN CASING (GALLONS)	ACTUAL VOL. PURGED (GALLONS)
6/26/13	6/26/13	1140		

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.....DEDICATED Y (N) (CIRCLE ONE)

SAMPLING EQUIPMENT.....DEDICATED Y (N) (CIRCLE ONE)

PURGING DEVICE	C	A - SUBMERSIBLE PUMP	D - GAS LIFT PUMP	G - BAILER	X= PURGING DEVICE OTHER (SPECIFY)
		B - PERISTALTIC PUMP	E - PURGE PUMP	H - WATERRA®	
SAMPLING DEVICE	C	C - BLADDER PUMP	F - DIPPER BOTTLE	X - OTHER	X= SAMPLING DEVICE OTHER (SPECIFY)
PURGING MATERIAL	B	A - TEFLON	D - PVC		X= PURGING MATERIAL OTHER (SPECIFY)
		B - STAINLESS STEEL	E - POLYETHYLENE		
SAMPLING MATERIAL	B	C - POLYPROPYLENE	X - OTHER		X= SAMPLING MATERIAL OTHER (SPECIFY)
PURGE TUBING	E	A - TEFLON	D - POLYPROPYLENE	G - COMBINATION TEFLON/POLYPROPYLENE	X= PURGE TUBING OTHER (SPECIFY)
		B - TYGON	E - POLYETHYLENE		
SAMPLING TUBING	E	C - ROPE	F - SILICONE	X - OTHER	X= SAMPLING TUBING OTHER (SPECIFY)
FILTERING DEVICES 0.45	A	A - IN-LINE DISPOSABLE	B - PRESSURE		

FIELD MEASUREMENTS

DEPTH TO WATER ( ) (feet) WELL ELEVATION ( ) (feet)

WELL DEPTH ( ) (feet) GROUNDWATER ELEVATION ( ) (feet)

	TEMPERATURE	pH	TDS	SC	DO	ORP	VOLUME
~~1115~~	20.14 (°C)	7.56 (std)	0.712 (g/L)	1096 (µS/cm)	1.42 (mg/L)	97.7 (mV)	3.75 (gal)
1120	20.04 (°C)	7.57 (std)	0.713 (g/L)	1097 (µS/cm)	3.14 (mg/L)	93.3 (mV)	4.00 (gal)
1125	19.68 (°C)	7.54 (std)	0.711 (g/L)	1094 (µS/cm)	2.50 (mg/L)	86.5 (mV)	4.50 (gal)
1130	19.61 (°C)	7.55 (std)	0.712 (g/L)	1095 (µS/cm)	2.60 (mg/L)	82.3 (mV)	5.0 (gal)
1135	19.66 (°C)	7.56 (std)	0.709 (g/L)	1090 (µS/cm)	2.14 (mg/L)	77.1 (mV)	5.5 (gal)

FIELD COMMENTS

SAMPLE APPEARANCE: slightly cloudy none COLOR: very light brown SHEEN Y/N no

WEATHER CONDITIONS: TEMPERATURE 80s WINDY Y/N breezy PRECIPITATION Y/N (IF Y TYPE) no

SPECIFIC COMMENTS:

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOLS

DATE PRINT SIGNATURE

APPENDIX D

LABORATORY ANALYTICAL REPORT

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

July 19, 2013

Kelly Blanchard
COP Conestoga-Rovers & Associa
6121 Indian School Road NE
Ste 200
Albuquerque, NM 87110

RE: Project: 075006 Wingate Fractioning Pla
Pace Project No.: 60147780

Dear Kelly Blanchard:
Enclosed are the analytical results for sample(s) received by the laboratory between June 25, 2013 and June 27, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Alice Flanagan

alice.flanagan@pacelabs.com
Project Manager

Enclosures

cc: Christine Mathews, COP Conestoga-Rovers & Associa

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Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

CERTIFICATIONS

Project: 075006 Wingate Fractioning Pla
Pace Project No.: 60147780

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4 Greensburg, PA 15601
ACLASS DOD-ELAP Accreditation #: ADE-1544
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California/TNI Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH-0694
Delaware Certification
Florida/TNI Certification #: E87683
Guam/PADEP Certification
Hawaii/PADEP Certification
Idaho Certification
Illinois/PADEP Certification
Indiana/PADEP Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: 90133
Louisiana/TNI Certification #: LA080002
Louisiana/TNI Certification #: 4086
Maine Certification #: PA0091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235
Montana Certification #: Cert 0082
Nevada Certification
New Hampshire/TNI Certification #: 2976
New Jersey/TNI Certification #: PA 051
New Mexico Certification
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Oregon/TNI Certification #: PA200002
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
South Dakota Certification
Tennessee Certification #: TN2867
Texas/TNI Certification #: T104704188
Utah/TNI Certification #: ANTE
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia Certification #: 143
Wisconsin/PADEP Certification
Wyoming Certification #: 8TMS-Q

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 13-012-0
Illinois Certification #: 003097
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-13-4
Utah Certification #: KS000212013-3
Illinois Certification #: 003097

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Lenexa, KS 66219
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SAMPLE SUMMARY

Project: 075006 Wingate Fractioning Pla
Pace Project No.: 60147780

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60147780001	**75006-062613-CM-WMW3**	Water	06/26/13 08:35	06/27/13 08:40
60147780002	**75006-062613-CM-WMW6**	Water	06/26/13 09:50	06/27/13 08:40
60147780003	**75006-062613-CM-WMW8**	Water	06/26/13 11:40	06/27/13 08:40
60147780004	**75006-062613-CM-WMW7**	Water	06/26/13 13:40	06/27/13 08:40
60147780005	**75006-062613-CM-DUP**	Water	06/26/13 13:50	06/27/13 08:40
60147780006	**TB-75006-062613-001**	Water	06/26/13 14:45	06/27/13 08:40
60147558001	**GW-075006-062413-CM-WMW-5**	Water	06/24/13 12:25	06/25/13 08:05
60147558002	**GW-075006-062413-CM-WMW-4**	Water	06/24/13 13:15	06/25/13 08:05
60147558003	**GW-075006-062413-CM-WMW-2**	Water	06/24/13 14:00	06/25/13 08:05
60147558004	**GW-075006-062413-CM-WMW-1**	Water	06/24/13 15:10	06/25/13 08:05
60147558005	**GW-075006-062413-CM-DUP**	Water	06/24/13 14:05	06/25/13 08:05
60147558006	**TB-075006-062413-CM-001**	Water	06/24/13 15:30	06/25/13 08:05

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Lenexa, KS 66219
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SAMPLE ANALYTE COUNT

Project: 075006 Wingate Fractioning Pla
Pace Project No.: 60147780

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60147780001	**75006-062613-CM-WMW3**	EPA 6010	TDS	9	PASI-K
		EPA 7470	TDS	1	PASI-K
		EPA 8270	JMT	73	PASI-K
		EPA 5030B/8260	PRG	70	PASI-K
		ASTM D5174.97	RMK	1	PASI-PA
		SM 2320B	JMC	1	PASI-K
		SM 2540C	JML	1	PASI-K
		EPA 9040	NDL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	DJR	1	PASI-K
60147780002	**75006-062613-CM-WMW6**	EPA 6010	TDS	9	PASI-K
		EPA 7470	TDS	1	PASI-K
		EPA 8270	JMT	73	PASI-K
		EPA 5030B/8260	PRG	70	PASI-K
		ASTM D5174.97	RMK	1	PASI-PA
		SM 2320B	JMC	1	PASI-K
		SM 2540C	JML	1	PASI-K
		EPA 9040	NDL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	DJR	1	PASI-K
60147780003	**75006-062613-CM-WMW8**	EPA 6010	TDS	9	PASI-K
		EPA 7470	TDS	1	PASI-K
		EPA 8270	JMT	73	PASI-K
		EPA 5030B/8260	PRG	70	PASI-K
		ASTM D5174.97	RMK	1	PASI-PA
		SM 2320B	JMC	1	PASI-K
		SM 2540C	JML	1	PASI-K
		EPA 9040	NDL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	DJR	1	PASI-K
60147780004	**75006-062613-CM-WMW7**	EPA 6010	TDS	9	PASI-K
		EPA 7470	TDS	1	PASI-K
		EPA 8270	JMT	73	PASI-K
		EPA 5030B/8260	PRG	70	PASI-K
		ASTM D5174.97	RMK	1	PASI-PA
		SM 2320B	JMC	1	PASI-K
		SM 2540C	JML	1	PASI-K

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

SAMPLE ANALYTE COUNT

Project: 075006 Wingate Fractioning Pla
Pace Project No.: 60147780

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 9040	NDL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	DJR	1	PASI-K
60147780005	**75006-062613-CM-DUP**	EPA 5030B/8260	PRG	9	PASI-K
60147780006	**TB-75006-062613-001**	EPA 5030B/8260	PRG	9	PASI-K
60147558001	**GW-075006-062413-CM-WMW-5**	EPA 6010	TJT	9	PASI-K
		EPA 7470	TDS	1	PASI-K
		EPA 8270	JMT	73	PASI-K
		EPA 5030B/8260	PRG	70	PASI-K
		ASTM D5174.97	RMK	1	PASI-PA
		SM 2320B	JMC	1	PASI-K
		SM 2540C	NDL	1	PASI-K
		EPA 9040	NDL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	AJM	1	PASI-K
60147558002	**GW-075006-062413-CM-WMW-4**	EPA 6010	TJT	9	PASI-K
		EPA 7470	TDS	1	PASI-K
		EPA 8270	JMT	73	PASI-K
		EPA 5030B/8260	PRG	70	PASI-K
		ASTM D5174.97	RMK	1	PASI-PA
		SM 2320B	JMC	1	PASI-K
		SM 2540C	NDL	1	PASI-K
		EPA 9040	NDL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	AJM	1	PASI-K
60147558003	**GW-075006-062413-CM-WMW-2**	EPA 6010	TJT	9	PASI-K
		EPA 7470	TDS	1	PASI-K
		EPA 8270	JMT	73	PASI-K
		EPA 5030B/8260	PRG	70	PASI-K
		ASTM D5174.97	RMK	1	PASI-PA
		SM 2320B	JMC	1	PASI-K
		SM 2540C	NDL	1	PASI-K
		EPA 9040	NDL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	AJM	1	PASI-K
60147558004	**GW-075006-062413-CM-WMW-1**	EPA 6010	TJT	9	PASI-K
		EPA 7470	TDS	1	PASI-K

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SAMPLE ANALYTE COUNT

Project: 075006 Wingate Fractioning Pla
Pace Project No.: 60147780

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 8270	JMT	73	PASI-K
		EPA 5030B/8260	PRG	70	PASI-K
		ASTM D5174.97	RMK	1	PASI-PA
		SM 2320B	JMC	1	PASI-K
		SM 2540C	NDL	1	PASI-K
		EPA 9040	NDL	1	PASI-K
		EPA 300.0	OL	2	PASI-K
		EPA 353.2	AJM	1	PASI-K
60147558005	**GW-075006-062413-CM-DUP**	EPA 5030B/8260	PRG	10	PASI-K
60147558006	**TB-075006-062413-CM-001**	EPA 5030B/8260	PRG	10	PASI-K

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Project: 075006 Wingate Fractioning Pla
Pace Project No.: 60147780

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
60147780001	**75006-062613-CM-WMW3**					
EPA 6010	Barium, Dissolved	22.7	ug/L	10.0	07/10/13 11:11	
EPA 6010	Calcium, Dissolved	87300	ug/L	100	07/11/13 11:27	
EPA 6010	Sodium, Dissolved	1610000	ug/L	2500	07/10/13 12:00	M1
EPA 5030B/8260	Preservation pH	1.0		0.10	07/05/13 22:06	
ASTM D5174.97	Total Uranium	42.9 ± 0.758 (1.97)	ug/L		07/19/13 13:34	
SM 2320B	Alkalinity, Total as CaCO3	1070	mg/L	40.0	07/05/13 14:11	
SM 2540C	Total Dissolved Solids	3670	mg/L	5.0	07/02/13 08:36	
EPA 9040	pH	7.5	Std. Units	0.10	07/01/13 16:40	H6
EPA 300.0	Chloride	927	mg/L	200	07/12/13 10:03	
EPA 300.0	Sulfate	1430	mg/L	200	07/12/13 10:03	
EPA 353.2	Nitrogen, Nitrate	0.92	mg/L	0.10	06/27/13 15:06	
60147780002	**75006-062613-CM-WMW6**					
EPA 6010	Barium, Dissolved	36.2	ug/L	10.0	07/10/13 11:20	
EPA 6010	Calcium, Dissolved	35400	ug/L	100	07/11/13 11:36	
EPA 6010	Sodium, Dissolved	300000	ug/L	500	07/10/13 11:20	
EPA 8270	Phenol	10.4	ug/L	10.0	07/02/13 16:30	
EPA 5030B/8260	Preservation pH	1.0		0.10	07/05/13 22:21	
ASTM D5174.97	Total Uranium	9.76 ± 0.188 (1.97)	ug/L		07/19/13 13:42	
SM 2320B	Alkalinity, Total as CaCO3	439	mg/L	20.0	07/05/13 12:36	
SM 2540C	Total Dissolved Solids	930	mg/L	5.0	07/02/13 08:36	
EPA 9040	pH	7.6	Std. Units	0.10	07/01/13 16:40	H6
EPA 300.0	Chloride	54.1	mg/L	10.0	07/11/13 14:50	
EPA 300.0	Sulfate	262	mg/L	20.0	07/12/13 11:20	
60147780003	**75006-062613-CM-WMW8**					
EPA 6010	Barium, Dissolved	168	ug/L	10.0	07/10/13 11:22	
EPA 6010	Calcium, Dissolved	37500	ug/L	100	07/11/13 11:38	
EPA 6010	Sodium, Dissolved	230000	ug/L	500	07/10/13 11:22	
EPA 5030B/8260	Preservation pH	1.0		0.10	07/05/13 22:36	
ASTM D5174.97	Total Uranium	13.1 ± 0.241 (1.97)	ug/L		07/19/13 13:45	
SM 2320B	Alkalinity, Total as CaCO3	478	mg/L	20.0	07/05/13 12:47	
SM 2540C	Total Dissolved Solids	717	mg/L	5.0	07/02/13 08:36	
EPA 9040	pH	7.6	Std. Units	0.10	07/01/13 16:40	H6
EPA 300.0	Chloride	22.8	mg/L	2.0	07/12/13 11:35	
EPA 300.0	Sulfate	150	mg/L	10.0	07/11/13 15:06	
60147780004	**75006-062613-CM-WMW7**					
EPA 6010	Barium, Dissolved	31.6	ug/L	10.0	07/11/13 11:40	
EPA 6010	Calcium, Dissolved	35600	ug/L	100	07/11/13 11:40	
EPA 6010	Sodium, Dissolved	564000	ug/L	1000	07/10/13 12:10	
EPA 5030B/8260	Preservation pH	1.0		0.10	07/05/13 22:50	

REPORT OF LABORATORY ANALYSIS

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Project: 075006 Wingate Fractioning Pla
Pace Project No.: 60147780

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
60147780004	**75006-062613-CM-WMW7**					
ASTM D5174.97	Total Uranium	25.3 ± 0.451 (1.97)	ug/L		07/19/13 13:48	
SM 2320B	Alkalinity, Total as CaCO3	633	mg/L	20.0	07/05/13 12:54	
SM 2540C	Total Dissolved Solids	1710	mg/L	5.0	07/02/13 08:36	
EPA 9040	pH	7.6	Std. Units	0.10	07/01/13 16:40	H6
EPA 300.0	Chloride	116	mg/L	10.0	07/11/13 15:22	
EPA 300.0	Sulfate	639	mg/L	50.0	07/12/13 11:51	
60147780005	**75006-062613-CM-DUP**					
EPA 5030B/8260	Preservation pH	1.0		0.10	07/05/13 23:05	
60147780006	**TB-75006-062613-001**					
EPA 5030B/8260	Preservation pH	1.0		0.10	07/05/13 23:20	
60147558001	**GW-075006-062413-CM-WMW-5**					
EPA 6010	Calcium, Dissolved	102000	ug/L	1000	07/03/13 11:18	
EPA 6010	Sodium, Dissolved	770000	ug/L	10000	07/03/13 14:20	
EPA 5030B/8260	Preservation pH	1.0		0.10	07/02/13 13:53	
ASTM D5174.97	Total Uranium	10.6 ± 0.144 (0.197)	ug/L		07/03/13 16:39	
SM 2320B	Alkalinity, Total as CaCO3	654	mg/L	20.0	07/01/13 14:07	
SM 2540C	Total Dissolved Solids	2610	mg/L	5.0	06/29/13 12:05	
EPA 9040	pH	7.6	Std. Units	0.10	06/26/13 14:20	H6
EPA 300.0	Chloride	197	mg/L	20.0	07/08/13 09:45	
EPA 300.0	Sulfate	1100	mg/L	100	07/08/13 10:27	
60147558002	**GW-075006-062413-CM-WMW-4**					
EPA 6010	Barium, Dissolved	54.1	ug/L	10.0	07/01/13 16:52	
EPA 6010	Calcium, Dissolved	13800	ug/L	1000	07/03/13 11:21	
EPA 6010	Sodium, Dissolved	560000	ug/L	10000	07/03/13 14:23	
EPA 5030B/8260	2-Butanone (MEK)	18.4	ug/L	10.0	07/02/13 14:08	
EPA 5030B/8260	Preservation pH	1.0		0.10	07/02/13 14:08	
ASTM D5174.97	Total Uranium	2.55 ± 0.041 (0.197)	ug/L		07/03/13 16:42	
SM 2320B	Alkalinity, Total as CaCO3	805	mg/L	20.0	07/01/13 14:14	
SM 2540C	Total Dissolved Solids	1690	mg/L	5.0	06/29/13 12:05	
EPA 9040	pH	7.8	Std. Units	0.10	06/26/13 14:20	H6
EPA 300.0	Chloride	181	mg/L	20.0	07/08/13 11:49	
EPA 300.0	Sulfate	307	mg/L	20.0	07/08/13 11:49	
60147558003	**GW-075006-062413-CM-WMW-2**					
EPA 6010	Barium, Dissolved	278	ug/L	10.0	07/01/13 16:54	
EPA 6010	Calcium, Dissolved	13600	ug/L	1000	07/03/13 11:23	
EPA 6010	Sodium, Dissolved	1010000	ug/L	10000	07/03/13 14:25	
EPA 8270	Naphthalene	11.9	ug/L	10.9	06/28/13 23:41	
EPA 8270	Phenol	34.8	ug/L	10.9	06/28/13 23:41	
EPA 5030B/8260	Benzene	17200	ug/L	100	07/02/13 14:23	
EPA 5030B/8260	1,2-Dichloroethane	632	ug/L	100	07/02/13 14:23	

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Project: 075006 Wingate Fractioning Pla
Pace Project No.: 60147780

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
60147558003	**GW-075006-062413-CM-WMW-2**					
EPA 5030B/8260	Toluene	155	ug/L	100	07/02/13 14:23	
EPA 5030B/8260	Xylene (Total)	466	ug/L	300	07/02/13 14:23	
EPA 5030B/8260	Preservation pH	1.0		0.10	07/02/13 14:23	
ASTM D5174.97	Total Uranium	24.5 ± 0.340 (0.197)	ug/L		07/03/13 16:48	
SM 2320B	Alkalinity, Total as CaCO3	1670	mg/L	60.0	07/01/13 15:12	
SM 2540C	Total Dissolved Solids	2610	mg/L	5.0	06/29/13 12:05	
EPA 9040	pH	8.2	Std. Units	0.10	06/26/13 14:20	H6
EPA 300.0	Chloride	561	mg/L	50.0	07/08/13 12:22	
EPA 300.0	Sulfate	5.2	mg/L	1.0	07/08/13 12:06	
60147558004	**GW-075006-062413-CM-WMW-1**					
EPA 6010	Barium, Dissolved	29.2	ug/L	10.0	07/01/13 16:56	
EPA 6010	Calcium, Dissolved	254000	ug/L	1000	07/03/13 11:25	
EPA 6010	Sodium, Dissolved	852000	ug/L	10000	07/03/13 14:27	
EPA 5030B/8260	Preservation pH	1.0		0.10	07/02/13 14:38	
ASTM D5174.97	Total Uranium	47.9 ± 0.668 (0.197)	ug/L		07/03/13 16:54	
SM 2320B	Alkalinity, Total as CaCO3	671	mg/L	20.0	07/01/13 14:49	
SM 2540C	Total Dissolved Solids	3530	mg/L	5.0	06/29/13 12:06	
EPA 9040	pH	7.4	Std. Units	0.10	06/26/13 14:20	H6
EPA 300.0	Chloride	418	mg/L	50.0	07/08/13 12:38	
EPA 300.0	Sulfate	1640	mg/L	200	07/08/13 12:55	
60147558005	**GW-075006-062413-CM-DUP**					
EPA 5030B/8260	Benzene	18100	ug/L	200	07/03/13 13:06	
EPA 5030B/8260	Toluene	243	ug/L	200	07/03/13 13:06	
EPA 5030B/8260	Preservation pH	1.0		0.10	07/03/13 13:06	
60147558006	**TB-075006-062413-CM-001**					
EPA 5030B/8260	Preservation pH	1.0		0.10	07/02/13 22:03	

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PROJECT NARRATIVE

Project: 075006 Wingate Fractioning Pla
Pace Project No.: 60147780

Method: **EPA 6010**
Description: 6010 MET ICP, Dissolved
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: July 19, 2013

General Information:
8 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MPRP/23273

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60147780001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1212007)
  - Sodium, Dissolved
- MSD (Lab ID: 1212008)
  - Sodium, Dissolved

Additional Comments:

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PROJECT NARRATIVE

Project: 075006 Wingate Fractioning Pla
Pace Project No.: 60147780

Method: **EPA 7470**
Description: 7470 Mercury, Dissolved
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: July 19, 2013

General Information:
8 samples were analyzed for EPA 7470. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 7470 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MERP/7477

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60147780001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1214532)
  - Mercury, Dissolved
- MSD (Lab ID: 1214533)
  - Mercury, Dissolved

Additional Comments:

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PROJECT NARRATIVE

Project: 075006 Wingate Fractioning Pla
Pace Project No.: 60147780

Method: **EPA 8270**
Description: 8270 MSSV Semivolatile Organic
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: July 19, 2013

General Information:
8 samples were analyzed for EPA 8270. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3510 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSSV/12360

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

QC Batch: MSSV/12374

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

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PROJECT NARRATIVE

Project: 075006 Wingate Fractioning Pla
Pace Project No.: 60147780

Method: **EPA 5030B/8260**
Description: 8260 MSV
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: July 19, 2013

General Information:
12 samples were analyzed for EPA 5030B/8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: MSV/54757

L0: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

- LCS (Lab ID: 1216108)
  - 1,1-Dichloroethene

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/54679

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

QC Batch: MSV/54682

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

QC Batch: MSV/54757

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60147822001

R1: RPD value was outside control limits.

- MSD (Lab ID: 1216110)
  - Chloromethane

Additional Comments:

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PROJECT NARRATIVE

Project: 075006 Wingate Fractioning Pla
Pace Project No.: 60147780

Method: **ASTM D5174.97**
Description: D517497 Total Uranium KPA
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: July 19, 2013

General Information:
8 samples were analyzed for ASTM D5174.97. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 075006 Wingate Fractioning Pla
Pace Project No.: 60147780

Method: **SM 2320B**
Description: 2320B Alkalinity
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: July 19, 2013

General Information:
8 samples were analyzed for SM 2320B. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 075006 Wingate Fractioning Pla
Pace Project No.: 60147780

Method: **SM 2540C**
Description: 2540C Total Dissolved Solids
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: July 19, 2013

General Information:
8 samples were analyzed for SM 2540C. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 075006 Wingate Fractioning Pla
Pace Project No.: 60147780

Method: **EPA 9040**
Description: 9040 pH
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: July 19, 2013

General Information:
8 samples were analyzed for EPA 9040. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

H6: Analysis initiated outside of the 15 minute EPA recommended holding time.
- 75006-062613-CM-WMW3 (Lab ID: 60147780001)
- 75006-062613-CM-WMW6 (Lab ID: 60147780002)
- 75006-062613-CM-WMW7 (Lab ID: 60147780004)
- 75006-062613-CM-WMW8 (Lab ID: 60147780003)
- GW-075006-062413-CM-WMW-1 (Lab ID: 60147558004)
- GW-075006-062413-CM-WMW-2 (Lab ID: 60147558003)
- GW-075006-062413-CM-WMW-4 (Lab ID: 60147558002)
- GW-075006-062413-CM-WMW-5 (Lab ID: 60147558001)

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 075006 Wingate Fractioning Pla
Pace Project No.: 60147780

Method: **EPA 300.0**
Description: 300.0 IC Anions 28 Days
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: July 19, 2013

General Information:
8 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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Lenexa, KS 66219
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PROJECT NARRATIVE

Project: 075006 Wingate Fractioning Pla
Pace Project No.: 60147780

Method: **EPA 353.2**
Description: 353.2 Nitrogen, NO2/NO3 unpres
Client: COP Conestoga-Rovers & Associates, Inc. NM
Date: July 19, 2013

General Information:
8 samples were analyzed for EPA 353.2. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

H1: Analysis conducted outside the EPA method holding time due to instrument failure.
- 75006-062613-CM-WMW6 (Lab ID: 60147780002)

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/25272

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 60147735001,60147735003

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
- MS (Lab ID: 1212394)
  - Nitrogen, Nitrate

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: WETA/25272

1e: Combined was run in hold. Nitrite was run out of hold due to instrument failure.
- 75006-062613-CM-WMW6 (Lab ID: 60147780002)
  - Nitrogen, Nitrate

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 075006 Wingate Fractioning Pla
Pace Project No.: 60147780

Sample: 75006-062613-CM-WMW3 **Lab ID: 60147780001** Collected: 06/26/13 08:35 Received: 06/27/13 08:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic, Dissolved	ND	ug/L	10.0	4.6	1	06/27/13 14:00	07/10/13 11:11	7440-38-2	
Barium, Dissolved	**22.7**	ug/L	10.0	0.40	1	06/27/13 14:00	07/10/13 11:11	7440-39-3	
Cadmium, Dissolved	ND	ug/L	5.0	2.5	1	06/27/13 14:00	07/10/13 11:11	7440-43-9	
Calcium, Dissolved	**87300**	ug/L	100	10.4	1	06/27/13 14:00	07/11/13 11:27	7440-70-2	
Chromium, Dissolved	ND	ug/L	5.0	0.62	1	06/27/13 14:00	07/10/13 11:11	7440-47-3	
Lead, Dissolved	ND	ug/L	5.0	2.4	1	06/27/13 14:00	07/10/13 11:11	7439-92-1	
Selenium, Dissolved	ND	ug/L	15.0	4.2	1	06/27/13 14:00	07/10/13 11:11	7782-49-2	
Silver, Dissolved	ND	ug/L	7.0	1.1	1	06/27/13 14:00	07/10/13 11:11	7440-22-4	
Sodium, Dissolved	**1610000**	ug/L	2500	108	5	06/27/13 14:00	07/10/13 12:00	7440-23-5	M1
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	ND	ug/L	0.20	0.14	1	07/02/13 11:30	07/03/13 12:10	7439-97-6	M1
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Acenaphthene	ND	ug/L	10.0	1.2	1	07/01/13 00:00	07/02/13 10:53	83-32-9	
Acenaphthylene	ND	ug/L	10.0	1.2	1	07/01/13 00:00	07/02/13 10:53	208-96-8	
Anthracene	ND	ug/L	10.0	1.4	1	07/01/13 00:00	07/02/13 10:53	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.0	1.4	1	07/01/13 00:00	07/02/13 10:53	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.0	1.6	1	07/01/13 00:00	07/02/13 10:53	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.0	1.5	1	07/01/13 00:00	07/02/13 10:53	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.0	1.4	1	07/01/13 00:00	07/02/13 10:53	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.0	1.6	1	07/01/13 00:00	07/02/13 10:53	207-08-9	
Benzoic acid	ND	ug/L	50.0	25.0	1	07/01/13 00:00	07/02/13 10:53	65-85-0	
Benzyl alcohol	ND	ug/L	20.0	0.89	1	07/01/13 00:00	07/02/13 10:53	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.0	1.2	1	07/01/13 00:00	07/02/13 10:53	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	1.4	1	07/01/13 00:00	07/02/13 10:53	85-68-7	
Carbazole	ND	ug/L	10.0	1.4	1	07/01/13 00:00	07/02/13 10:53	86-74-8	
4-Chloro-3-methylphenol	ND	ug/L	20.0	1.2	1	07/01/13 00:00	07/02/13 10:53	59-50-7	
4-Chloroaniline	ND	ug/L	20.0	1.8	1	07/01/13 00:00	07/02/13 10:53	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	1.4	1	07/01/13 00:00	07/02/13 10:53	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1.2	1	07/01/13 00:00	07/02/13 10:53	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	10.0	1.1	1	07/01/13 00:00	07/02/13 10:53	39638-32-9	
2-Chloronaphthalene	ND	ug/L	10.0	1.2	1	07/01/13 00:00	07/02/13 10:53	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1.0	1	07/01/13 00:00	07/02/13 10:53	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	1.3	1	07/01/13 00:00	07/02/13 10:53	7005-72-3	
Chrysene	ND	ug/L	10.0	1.5	1	07/01/13 00:00	07/02/13 10:53	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.0	1.5	1	07/01/13 00:00	07/02/13 10:53	53-70-3	
Dibenzofuran	ND	ug/L	10.0	1.2	1	07/01/13 00:00	07/02/13 10:53	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	1.2	1	07/01/13 00:00	07/02/13 10:53	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	1.1	1	07/01/13 00:00	07/02/13 10:53	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	1.1	1	07/01/13 00:00	07/02/13 10:53	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	2.5	1	07/01/13 00:00	07/02/13 10:53	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.0	1.1	1	07/01/13 00:00	07/02/13 10:53	120-83-2	
Diethylphthalate	ND	ug/L	10.0	1.2	1	07/01/13 00:00	07/02/13 10:53	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.0	1.1	1	07/01/13 00:00	07/02/13 10:53	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	1.2	1	07/01/13 00:00	07/02/13 10:53	131-11-3	

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ANALYTICAL RESULTS

Project: 075006 Wingate Fractioning Pla
Pace Project No.: 60147780

Sample: 75006-062613-CM-WMW3 **Lab ID: 60147780001** Collected: 06/26/13 08:35 Received: 06/27/13 08:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Di-n-butylphthalate	ND	ug/L	10.0	1.5	1	07/01/13 00:00	07/02/13 10:53	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	50.0	1.1	1	07/01/13 00:00	07/02/13 10:53	534-52-1	
2,4-Dinitrophenol	ND	ug/L	50.0	0.50	1	07/01/13 00:00	07/02/13 10:53	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.0	1.3	1	07/01/13 00:00	07/02/13 10:53	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	1.3	1	07/01/13 00:00	07/02/13 10:53	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	1.8	1	07/01/13 00:00	07/02/13 10:53	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	10.0	1.6	1	07/01/13 00:00	07/02/13 10:53	117-81-7	
Fluoranthene	ND	ug/L	10.0	1.5	1	07/01/13 00:00	07/02/13 10:53	206-44-0	
Fluorene	ND	ug/L	10.0	1.3	1	07/01/13 00:00	07/02/13 10:53	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1.2	1	07/01/13 00:00	07/02/13 10:53	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	1.4	1	07/01/13 00:00	07/02/13 10:53	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	1.6	1	07/01/13 00:00	07/02/13 10:53	77-47-4	
Hexachloroethane	ND	ug/L	10.0	1.3	1	07/01/13 00:00	07/02/13 10:53	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	1.4	1	07/01/13 00:00	07/02/13 10:53	193-39-5	
Isophorone	ND	ug/L	10.0	1.2	1	07/01/13 00:00	07/02/13 10:53	78-59-1	
2-Methylnaphthalene	ND	ug/L	10.0	1.3	1	07/01/13 00:00	07/02/13 10:53	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	0.85	1	07/01/13 00:00	07/02/13 10:53	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	0.78	1	07/01/13 00:00	07/02/13 10:53		
Naphthalene	ND	ug/L	10.0	1.3	1	07/01/13 00:00	07/02/13 10:53	91-20-3	
2-Nitroaniline	ND	ug/L	50.0	1.0	1	07/01/13 00:00	07/02/13 10:53	88-74-4	
3-Nitroaniline	ND	ug/L	50.0	1.5	1	07/01/13 00:00	07/02/13 10:53	99-09-2	
4-Nitroaniline	ND	ug/L	50.0	1.5	1	07/01/13 00:00	07/02/13 10:53	100-01-6	
Nitrobenzene	ND	ug/L	10.0	1.1	1	07/01/13 00:00	07/02/13 10:53	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	1.1	1	07/01/13 00:00	07/02/13 10:53	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	0.57	1	07/01/13 00:00	07/02/13 10:53	100-02-7	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	1.2	1	07/01/13 00:00	07/02/13 10:53	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1.4	1	07/01/13 00:00	07/02/13 10:53	86-30-6	
Pentachlorophenol	ND	ug/L	50.0	1.0	1	07/01/13 00:00	07/02/13 10:53	87-86-5	
Phenanthrene	ND	ug/L	10.0	1.4	1	07/01/13 00:00	07/02/13 10:53	85-01-8	
Phenol	ND	ug/L	10.0	5.0	1	07/01/13 00:00	07/02/13 10:53	108-95-2	
Pyrene	ND	ug/L	10.0	1.4	1	07/01/13 00:00	07/02/13 10:53	129-00-0	
Pyridine	ND	ug/L	10.0	0.92	1	07/01/13 00:00	07/02/13 10:53	110-86-1	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	1.3	1	07/01/13 00:00	07/02/13 10:53	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	50.0	1.3	1	07/01/13 00:00	07/02/13 10:53	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1.2	1	07/01/13 00:00	07/02/13 10:53	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	65	%	10-159		1	07/01/13 00:00	07/02/13 10:53	4165-60-0	
2-Fluorobiphenyl (S)	69	%	15-149		1	07/01/13 00:00	07/02/13 10:53	321-60-8	
Terphenyl-d14 (S)	63	%	25-142		1	07/01/13 00:00	07/02/13 10:53	1718-51-0	
Phenol-d6 (S)	23	%	12-120		1	07/01/13 00:00	07/02/13 10:53	13127-88-3	
2-Fluorophenol (S)	32	%	16-120		1	07/01/13 00:00	07/02/13 10:53	367-12-4	
2,4,6-Tribromophenol (S)	56	%	37-120		1	07/01/13 00:00	07/02/13 10:53	118-79-6	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		07/05/13 22:06	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		07/05/13 22:06	71-43-2	

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ANALYTICAL RESULTS

Project: 075006 Wingate Fractioning Pla
Pace Project No.: 60147780

Sample: 75006-062613-CM-WMW3 **Lab ID: 60147780001** Collected: 06/26/13 08:35 Received: 06/27/13 08:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Bromobenzene	ND	ug/L	1.0	0.10	1		07/05/13 22:06	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.15	1		07/05/13 22:06	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		07/05/13 22:06	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		07/05/13 22:06	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		07/05/13 22:06	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		07/05/13 22:06	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	0.10	1		07/05/13 22:06	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.050	1		07/05/13 22:06	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.34	1		07/05/13 22:06	98-06-6	
Carbon disulfide	ND	ug/L	5.0	0.12	1		07/05/13 22:06	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		07/05/13 22:06	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		07/05/13 22:06	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		07/05/13 22:06	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		07/05/13 22:06	67-66-3	
Chloromethane	ND	ug/L	1.0	0.080	1		07/05/13 22:06	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.12	1		07/05/13 22:06	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.14	1		07/05/13 22:06	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	0.59	1		07/05/13 22:06	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		07/05/13 22:06	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.17	1		07/05/13 22:06	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.18	1		07/05/13 22:06	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.050	1		07/05/13 22:06	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.070	1		07/05/13 22:06	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.060	1		07/05/13 22:06	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		07/05/13 22:06	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		07/05/13 22:06	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		07/05/13 22:06	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	0.28	1		07/05/13 22:06	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		07/05/13 22:06	75-35-4	L3
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		07/05/13 22:06	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		07/05/13 22:06	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		07/05/13 22:06	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.17	1		07/05/13 22:06	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.19	1		07/05/13 22:06	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.090	1		07/05/13 22:06	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		07/05/13 22:06	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		07/05/13 22:06	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		07/05/13 22:06	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.18	1		07/05/13 22:06	87-68-3	
2-Hexanone	ND	ug/L	10.0	1.2	1		07/05/13 22:06	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.070	1		07/05/13 22:06	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.10	1		07/05/13 22:06	99-87-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		07/05/13 22:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		07/05/13 22:06	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.060	1		07/05/13 22:06	1634-04-4	
Naphthalene	ND	ug/L	10.0	0.16	1		07/05/13 22:06	91-20-3	

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ANALYTICAL RESULTS

Project: 075006 Wingate Fractioning Pla
Pace Project No.: 60147780

Sample: 75006-062613-CM-WMW3 **Lab ID: 60147780001** Collected: 06/26/13 08:35 Received: 06/27/13 08:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
n-Propylbenzene	ND	ug/L	1.0	0.10	1		07/05/13 22:06	103-65-1	
Styrene	ND	ug/L	1.0	0.12	1		07/05/13 22:06	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		07/05/13 22:06	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		07/05/13 22:06	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		07/05/13 22:06	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		07/05/13 22:06	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.12	1		07/05/13 22:06	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.10	1		07/05/13 22:06	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		07/05/13 22:06	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		07/05/13 22:06	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		07/05/13 22:06	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.34	1		07/05/13 22:06	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	0.19	1		07/05/13 22:06	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.090	1		07/05/13 22:06	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.10	1		07/05/13 22:06	108-67-8	
Vinyl chloride	ND	ug/L	1.0	0.13	1		07/05/13 22:06	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		07/05/13 22:06	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	80-120		1		07/05/13 22:06	460-00-4	
Dibromofluoromethane (S)	105	%	80-120		1		07/05/13 22:06	1868-53-7	
1,2-Dichloroethane-d4 (S)	102	%	80-120		1		07/05/13 22:06	17060-07-0	
Toluene-d8 (S)	99	%	80-120		1		07/05/13 22:06	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		07/05/13 22:06		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**1070**	mg/L	40.0	2.4	2		07/05/13 14:11		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**3670**	mg/L	5.0	5.0	1		07/02/13 08:36		
9040 pH	Analytical Method: EPA 9040								
pH	**7.5**	Std. Units	0.10	0.10	1		07/01/13 16:40		H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**927**	mg/L	200	100	200		07/12/13 10:03	16887-00-6	
Sulfate	**1430**	mg/L	200	32.0	200		07/12/13 10:03	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	**0.92**	mg/L	0.10	0.051	1		06/27/13 15:06		

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ANALYTICAL RESULTS

Project: 075006 Wingate Fractioning Pla
Pace Project No.: 60147780

Sample: 75006-062613-CM-WMW6 **Lab ID: 60147780002** Collected: 06/26/13 09:50 Received: 06/27/13 08:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010		Preparation Method: EPA 3010						
Arsenic, Dissolved	ND	ug/L	10.0	4.6	1	06/27/13 14:00	07/10/13 11:20	7440-38-2	
Barium, Dissolved	**36.2**	ug/L	10.0	0.40	1	06/27/13 14:00	07/10/13 11:20	7440-39-3	
Cadmium, Dissolved	ND	ug/L	5.0	2.5	1	06/27/13 14:00	07/10/13 11:20	7440-43-9	
Calcium, Dissolved	**35400**	ug/L	100	10.4	1	06/27/13 14:00	07/11/13 11:36	7440-70-2	
Chromium, Dissolved	ND	ug/L	5.0	0.62	1	06/27/13 14:00	07/10/13 11:20	7440-47-3	
Lead, Dissolved	ND	ug/L	5.0	2.4	1	06/27/13 14:00	07/10/13 11:20	7439-92-1	
Selenium, Dissolved	ND	ug/L	15.0	4.2	1	06/27/13 14:00	07/10/13 11:20	7782-49-2	
Silver, Dissolved	ND	ug/L	7.0	1.1	1	06/27/13 14:00	07/10/13 11:20	7440-22-4	
Sodium, Dissolved	**300000**	ug/L	500	21.7	1	06/27/13 14:00	07/10/13 11:20	7440-23-5	
7470 Mercury, Dissolved	Analytical Method: EPA 7470		Preparation Method: EPA 7470						
Mercury, Dissolved	ND	ug/L	0.20	0.14	1	07/02/13 11:30	07/03/13 12:17	7439-97-6	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270		Preparation Method: EPA 3510						
Acenaphthene	ND	ug/L	10.0	1.2	1	07/01/13 00:00	07/02/13 16:30	83-32-9	
Acenaphthylene	ND	ug/L	10.0	1.2	1	07/01/13 00:00	07/02/13 16:30	208-96-8	
Anthracene	ND	ug/L	10.0	1.4	1	07/01/13 00:00	07/02/13 16:30	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.0	1.4	1	07/01/13 00:00	07/02/13 16:30	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.0	1.6	1	07/01/13 00:00	07/02/13 16:30	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.0	1.5	1	07/01/13 00:00	07/02/13 16:30	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.0	1.4	1	07/01/13 00:00	07/02/13 16:30	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.0	1.6	1	07/01/13 00:00	07/02/13 16:30	207-08-9	
Benzoic acid	ND	ug/L	50.0	25.0	1	07/01/13 00:00	07/02/13 16:30	65-85-0	
Benzyl alcohol	ND	ug/L	20.0	0.89	1	07/01/13 00:00	07/02/13 16:30	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.0	1.2	1	07/01/13 00:00	07/02/13 16:30	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	1.4	1	07/01/13 00:00	07/02/13 16:30	85-68-7	
Carbazole	ND	ug/L	10.0	1.4	1	07/01/13 00:00	07/02/13 16:30	86-74-8	
4-Chloro-3-methylphenol	ND	ug/L	20.0	1.2	1	07/01/13 00:00	07/02/13 16:30	59-50-7	
4-Chloroaniline	ND	ug/L	20.0	1.8	1	07/01/13 00:00	07/02/13 16:30	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	1.4	1	07/01/13 00:00	07/02/13 16:30	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1.2	1	07/01/13 00:00	07/02/13 16:30	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	10.0	1.1	1	07/01/13 00:00	07/02/13 16:30	39638-32-9	
2-Chloronaphthalene	ND	ug/L	10.0	1.2	1	07/01/13 00:00	07/02/13 16:30	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1.0	1	07/01/13 00:00	07/02/13 16:30	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	1.3	1	07/01/13 00:00	07/02/13 16:30	7005-72-3	
Chrysene	ND	ug/L	10.0	1.5	1	07/01/13 00:00	07/02/13 16:30	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.0	1.5	1	07/01/13 00:00	07/02/13 16:30	53-70-3	
Dibenzofuran	ND	ug/L	10.0	1.2	1	07/01/13 00:00	07/02/13 16:30	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	1.2	1	07/01/13 00:00	07/02/13 16:30	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	1.1	1	07/01/13 00:00	07/02/13 16:30	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	1.1	1	07/01/13 00:00	07/02/13 16:30	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	2.5	1	07/01/13 00:00	07/02/13 16:30	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.0	1.1	1	07/01/13 00:00	07/02/13 16:30	120-83-2	
Diethylphthalate	ND	ug/L	10.0	1.2	1	07/01/13 00:00	07/02/13 16:30	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.0	1.1	1	07/01/13 00:00	07/02/13 16:30	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	1.2	1	07/01/13 00:00	07/02/13 16:30	131-11-3	

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ANALYTICAL RESULTS

Project: 075006 Wingate Fractioning Pla
Pace Project No.: 60147780

Sample: 75006-062613-CM-WMW6 **Lab ID: 60147780002** Collected: 06/26/13 09:50 Received: 06/27/13 08:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Di-n-butylphthalate	ND	ug/L	10.0	1.5	1	07/01/13 00:00	07/02/13 16:30	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	50.0	1.1	1	07/01/13 00:00	07/02/13 16:30	534-52-1	
2,4-Dinitrophenol	ND	ug/L	50.0	0.50	1	07/01/13 00:00	07/02/13 16:30	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.0	1.3	1	07/01/13 00:00	07/02/13 16:30	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	1.3	1	07/01/13 00:00	07/02/13 16:30	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	1.8	1	07/01/13 00:00	07/02/13 16:30	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	10.0	1.6	1	07/01/13 00:00	07/02/13 16:30	117-81-7	
Fluoranthene	ND	ug/L	10.0	1.5	1	07/01/13 00:00	07/02/13 16:30	206-44-0	
Fluorene	ND	ug/L	10.0	1.3	1	07/01/13 00:00	07/02/13 16:30	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1.2	1	07/01/13 00:00	07/02/13 16:30	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	1.4	1	07/01/13 00:00	07/02/13 16:30	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	1.6	1	07/01/13 00:00	07/02/13 16:30	77-47-4	
Hexachloroethane	ND	ug/L	10.0	1.3	1	07/01/13 00:00	07/02/13 16:30	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	1.4	1	07/01/13 00:00	07/02/13 16:30	193-39-5	
Isophorone	ND	ug/L	10.0	1.2	1	07/01/13 00:00	07/02/13 16:30	78-59-1	
2-Methylnaphthalene	ND	ug/L	10.0	1.3	1	07/01/13 00:00	07/02/13 16:30	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	0.85	1	07/01/13 00:00	07/02/13 16:30	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	0.78	1	07/01/13 00:00	07/02/13 16:30		
Naphthalene	ND	ug/L	10.0	1.3	1	07/01/13 00:00	07/02/13 16:30	91-20-3	
2-Nitroaniline	ND	ug/L	50.0	1.0	1	07/01/13 00:00	07/02/13 16:30	88-74-4	
3-Nitroaniline	ND	ug/L	50.0	1.5	1	07/01/13 00:00	07/02/13 16:30	99-09-2	
4-Nitroaniline	ND	ug/L	50.0	1.5	1	07/01/13 00:00	07/02/13 16:30	100-01-6	
Nitrobenzene	ND	ug/L	10.0	1.1	1	07/01/13 00:00	07/02/13 16:30	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	1.1	1	07/01/13 00:00	07/02/13 16:30	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	0.57	1	07/01/13 00:00	07/02/13 16:30	100-02-7	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	1.2	1	07/01/13 00:00	07/02/13 16:30	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1.4	1	07/01/13 00:00	07/02/13 16:30	86-30-6	
Pentachlorophenol	ND	ug/L	50.0	1.0	1	07/01/13 00:00	07/02/13 16:30	87-86-5	
Phenanthrene	ND	ug/L	10.0	1.4	1	07/01/13 00:00	07/02/13 16:30	85-01-8	
Phenol	**10.4**	ug/L	10.0	5.0	1	07/01/13 00:00	07/02/13 16:30	108-95-2	
Pyrene	ND	ug/L	10.0	1.4	1	07/01/13 00:00	07/02/13 16:30	129-00-0	
Pyridine	ND	ug/L	10.0	0.92	1	07/01/13 00:00	07/02/13 16:30	110-86-1	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	1.3	1	07/01/13 00:00	07/02/13 16:30	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	50.0	1.3	1	07/01/13 00:00	07/02/13 16:30	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1.2	1	07/01/13 00:00	07/02/13 16:30	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	78	%	10-159		1	07/01/13 00:00	07/02/13 16:30	4165-60-0	
2-Fluorobiphenyl (S)	83	%	15-149		1	07/01/13 00:00	07/02/13 16:30	321-60-8	
Terphenyl-d14 (S)	92	%	25-142		1	07/01/13 00:00	07/02/13 16:30	1718-51-0	
Phenol-d6 (S)	32	%	12-120		1	07/01/13 00:00	07/02/13 16:30	13127-88-3	
2-Fluorophenol (S)	48	%	16-120		1	07/01/13 00:00	07/02/13 16:30	367-12-4	
2,4,6-Tribromophenol (S)	80	%	37-120		1	07/01/13 00:00	07/02/13 16:30	118-79-6	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		07/05/13 22:21	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		07/05/13 22:21	71-43-2	

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ANALYTICAL RESULTS

Project: 075006 Wingate Fractioning Pla
Pace Project No.: 60147780

Sample: 75006-062613-CM-WMW6 **Lab ID: 60147780002** Collected: 06/26/13 09:50 Received: 06/27/13 08:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Bromobenzene	ND	ug/L	1.0	0.10	1		07/05/13 22:21	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.15	1		07/05/13 22:21	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		07/05/13 22:21	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		07/05/13 22:21	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		07/05/13 22:21	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		07/05/13 22:21	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	0.10	1		07/05/13 22:21	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.050	1		07/05/13 22:21	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.34	1		07/05/13 22:21	98-06-6	
Carbon disulfide	ND	ug/L	5.0	0.12	1		07/05/13 22:21	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		07/05/13 22:21	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		07/05/13 22:21	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		07/05/13 22:21	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		07/05/13 22:21	67-66-3	
Chloromethane	ND	ug/L	1.0	0.080	1		07/05/13 22:21	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.12	1		07/05/13 22:21	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.14	1		07/05/13 22:21	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	0.59	1		07/05/13 22:21	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		07/05/13 22:21	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.17	1		07/05/13 22:21	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.18	1		07/05/13 22:21	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.050	1		07/05/13 22:21	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.070	1		07/05/13 22:21	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.060	1		07/05/13 22:21	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		07/05/13 22:21	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		07/05/13 22:21	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		07/05/13 22:21	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	0.28	1		07/05/13 22:21	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		07/05/13 22:21	75-35-4	L3
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		07/05/13 22:21	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		07/05/13 22:21	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		07/05/13 22:21	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.17	1		07/05/13 22:21	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.19	1		07/05/13 22:21	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.090	1		07/05/13 22:21	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		07/05/13 22:21	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		07/05/13 22:21	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		07/05/13 22:21	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.18	1		07/05/13 22:21	87-68-3	
2-Hexanone	ND	ug/L	10.0	1.2	1		07/05/13 22:21	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.070	1		07/05/13 22:21	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.10	1		07/05/13 22:21	99-87-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		07/05/13 22:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		07/05/13 22:21	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.060	1		07/05/13 22:21	1634-04-4	
Naphthalene	ND	ug/L	10.0	0.16	1		07/05/13 22:21	91-20-3	

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ANALYTICAL RESULTS

Project: 075006 Wingate Fractioning Pla
Pace Project No.: 60147780

Sample: 75006-062613-CM-WMW6 **Lab ID: 60147780002** Collected: 06/26/13 09:50 Received: 06/27/13 08:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
n-Propylbenzene	ND	ug/L	1.0	0.10	1		07/05/13 22:21	103-65-1	
Styrene	ND	ug/L	1.0	0.12	1		07/05/13 22:21	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		07/05/13 22:21	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		07/05/13 22:21	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		07/05/13 22:21	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		07/05/13 22:21	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.12	1		07/05/13 22:21	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.10	1		07/05/13 22:21	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		07/05/13 22:21	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		07/05/13 22:21	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		07/05/13 22:21	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.34	1		07/05/13 22:21	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	0.19	1		07/05/13 22:21	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.090	1		07/05/13 22:21	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.10	1		07/05/13 22:21	108-67-8	
Vinyl chloride	ND	ug/L	1.0	0.13	1		07/05/13 22:21	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		07/05/13 22:21	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	80-120		1		07/05/13 22:21	460-00-4	
Dibromofluoromethane (S)	102	%	80-120		1		07/05/13 22:21	1868-53-7	
1,2-Dichloroethane-d4 (S)	102	%	80-120		1		07/05/13 22:21	17060-07-0	
Toluene-d8 (S)	98	%	80-120		1		07/05/13 22:21	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		07/05/13 22:21		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**439**	mg/L	20.0	1.2	1		07/05/13 12:36		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**930**	mg/L	5.0	5.0	1		07/02/13 08:36		
9040 pH	Analytical Method: EPA 9040								
pH	**7.6**	Std. Units	0.10	0.10	1		07/01/13 16:40		H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**54.1**	mg/L	10.0	5.0	10		07/11/13 14:50	16887-00-6	
Sulfate	**262**	mg/L	20.0	3.2	20		07/12/13 11:20	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	ND	mg/L	0.10	0.051	1		06/28/13 10:04		1e,H1

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Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: 075006 Wingate Fractioning Pla
Pace Project No.: 60147780

Sample: 75006-062613-CM-WMW8 **Lab ID: 60147780003** Collected: 06/26/13 11:40 Received: 06/27/13 08:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010		Preparation Method: EPA 3010						
Arsenic, Dissolved	ND	ug/L	10.0	4.6	1	06/27/13 14:00	07/10/13 11:22	7440-38-2	
Barium, Dissolved	**168**	ug/L	10.0	0.40	1	06/27/13 14:00	07/10/13 11:22	7440-39-3	
Cadmium, Dissolved	ND	ug/L	5.0	2.5	1	06/27/13 14:00	07/10/13 11:22	7440-43-9	
Calcium, Dissolved	**37500**	ug/L	100	10.4	1	06/27/13 14:00	07/11/13 11:38	7440-70-2	
Chromium, Dissolved	ND	ug/L	5.0	0.62	1	06/27/13 14:00	07/10/13 11:22	7440-47-3	
Lead, Dissolved	ND	ug/L	5.0	2.4	1	06/27/13 14:00	07/10/13 11:22	7439-92-1	
Selenium, Dissolved	ND	ug/L	15.0	4.2	1	06/27/13 14:00	07/10/13 11:22	7782-49-2	
Silver, Dissolved	ND	ug/L	7.0	1.1	1	06/27/13 14:00	07/10/13 11:22	7440-22-4	
Sodium, Dissolved	**230000**	ug/L	500	21.7	1	06/27/13 14:00	07/10/13 11:22	7440-23-5	
7470 Mercury, Dissolved	Analytical Method: EPA 7470		Preparation Method: EPA 7470						
Mercury, Dissolved	ND	ug/L	0.20	0.14	1	07/02/13 11:30	07/03/13 12:19	7439-97-6	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270		Preparation Method: EPA 3510						
Acenaphthene	ND	ug/L	10.0	1.2	1	07/01/13 00:00	07/02/13 16:51	83-32-9	
Acenaphthylene	ND	ug/L	10.0	1.2	1	07/01/13 00:00	07/02/13 16:51	208-96-8	
Anthracene	ND	ug/L	10.0	1.4	1	07/01/13 00:00	07/02/13 16:51	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.0	1.4	1	07/01/13 00:00	07/02/13 16:51	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.0	1.6	1	07/01/13 00:00	07/02/13 16:51	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.0	1.5	1	07/01/13 00:00	07/02/13 16:51	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.0	1.4	1	07/01/13 00:00	07/02/13 16:51	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.0	1.6	1	07/01/13 00:00	07/02/13 16:51	207-08-9	
Benzoic acid	ND	ug/L	50.0	25.0	1	07/01/13 00:00	07/02/13 16:51	65-85-0	
Benzyl alcohol	ND	ug/L	20.0	0.89	1	07/01/13 00:00	07/02/13 16:51	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.0	1.2	1	07/01/13 00:00	07/02/13 16:51	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	1.4	1	07/01/13 00:00	07/02/13 16:51	85-68-7	
Carbazole	ND	ug/L	10.0	1.4	1	07/01/13 00:00	07/02/13 16:51	86-74-8	
4-Chloro-3-methylphenol	ND	ug/L	20.0	1.2	1	07/01/13 00:00	07/02/13 16:51	59-50-7	
4-Chloroaniline	ND	ug/L	20.0	1.8	1	07/01/13 00:00	07/02/13 16:51	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	1.4	1	07/01/13 00:00	07/02/13 16:51	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1.2	1	07/01/13 00:00	07/02/13 16:51	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	10.0	1.1	1	07/01/13 00:00	07/02/13 16:51	39638-32-9	
2-Chloronaphthalene	ND	ug/L	10.0	1.2	1	07/01/13 00:00	07/02/13 16:51	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1.0	1	07/01/13 00:00	07/02/13 16:51	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	1.3	1	07/01/13 00:00	07/02/13 16:51	7005-72-3	
Chrysene	ND	ug/L	10.0	1.5	1	07/01/13 00:00	07/02/13 16:51	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.0	1.5	1	07/01/13 00:00	07/02/13 16:51	53-70-3	
Dibenzofuran	ND	ug/L	10.0	1.2	1	07/01/13 00:00	07/02/13 16:51	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	1.2	1	07/01/13 00:00	07/02/13 16:51	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	1.1	1	07/01/13 00:00	07/02/13 16:51	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	1.1	1	07/01/13 00:00	07/02/13 16:51	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	2.5	1	07/01/13 00:00	07/02/13 16:51	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.0	1.1	1	07/01/13 00:00	07/02/13 16:51	120-83-2	
Diethylphthalate	ND	ug/L	10.0	1.2	1	07/01/13 00:00	07/02/13 16:51	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.0	1.1	1	07/01/13 00:00	07/02/13 16:51	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	1.2	1	07/01/13 00:00	07/02/13 16:51	131-11-3	

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ANALYTICAL RESULTS

Project: 075006 Wingate Fractioning Pla
Pace Project No.: 60147780

Sample: 75006-062613-CM-WMW8 **Lab ID: 60147780003** Collected: 06/26/13 11:40 Received: 06/27/13 08:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Di-n-butylphthalate	ND	ug/L	10.0	1.5	1	07/01/13 00:00	07/02/13 16:51	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	50.0	1.1	1	07/01/13 00:00	07/02/13 16:51	534-52-1	
2,4-Dinitrophenol	ND	ug/L	50.0	0.50	1	07/01/13 00:00	07/02/13 16:51	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.0	1.3	1	07/01/13 00:00	07/02/13 16:51	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	1.3	1	07/01/13 00:00	07/02/13 16:51	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	1.8	1	07/01/13 00:00	07/02/13 16:51	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	10.0	1.6	1	07/01/13 00:00	07/02/13 16:51	117-81-7	
Fluoranthene	ND	ug/L	10.0	1.5	1	07/01/13 00:00	07/02/13 16:51	206-44-0	
Fluorene	ND	ug/L	10.0	1.3	1	07/01/13 00:00	07/02/13 16:51	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1.2	1	07/01/13 00:00	07/02/13 16:51	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	1.4	1	07/01/13 00:00	07/02/13 16:51	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	1.6	1	07/01/13 00:00	07/02/13 16:51	77-47-4	
Hexachloroethane	ND	ug/L	10.0	1.3	1	07/01/13 00:00	07/02/13 16:51	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	1.4	1	07/01/13 00:00	07/02/13 16:51	193-39-5	
Isophorone	ND	ug/L	10.0	1.2	1	07/01/13 00:00	07/02/13 16:51	78-59-1	
2-Methylnaphthalene	ND	ug/L	10.0	1.3	1	07/01/13 00:00	07/02/13 16:51	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	0.85	1	07/01/13 00:00	07/02/13 16:51	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	0.78	1	07/01/13 00:00	07/02/13 16:51		
Naphthalene	ND	ug/L	10.0	1.3	1	07/01/13 00:00	07/02/13 16:51	91-20-3	
2-Nitroaniline	ND	ug/L	50.0	1.0	1	07/01/13 00:00	07/02/13 16:51	88-74-4	
3-Nitroaniline	ND	ug/L	50.0	1.5	1	07/01/13 00:00	07/02/13 16:51	99-09-2	
4-Nitroaniline	ND	ug/L	50.0	1.5	1	07/01/13 00:00	07/02/13 16:51	100-01-6	
Nitrobenzene	ND	ug/L	10.0	1.1	1	07/01/13 00:00	07/02/13 16:51	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	1.1	1	07/01/13 00:00	07/02/13 16:51	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	0.57	1	07/01/13 00:00	07/02/13 16:51	100-02-7	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	1.2	1	07/01/13 00:00	07/02/13 16:51	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1.4	1	07/01/13 00:00	07/02/13 16:51	86-30-6	
Pentachlorophenol	ND	ug/L	50.0	1.0	1	07/01/13 00:00	07/02/13 16:51	87-86-5	
Phenanthrene	ND	ug/L	10.0	1.4	1	07/01/13 00:00	07/02/13 16:51	85-01-8	
Phenol	ND	ug/L	10.0	5.0	1	07/01/13 00:00	07/02/13 16:51	108-95-2	
Pyrene	ND	ug/L	10.0	1.4	1	07/01/13 00:00	07/02/13 16:51	129-00-0	
Pyridine	ND	ug/L	10.0	0.92	1	07/01/13 00:00	07/02/13 16:51	110-86-1	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	1.3	1	07/01/13 00:00	07/02/13 16:51	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	50.0	1.3	1	07/01/13 00:00	07/02/13 16:51	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1.2	1	07/01/13 00:00	07/02/13 16:51	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	78	%	10-159		1	07/01/13 00:00	07/02/13 16:51	4165-60-0	
2-Fluorobiphenyl (S)	78	%	15-149		1	07/01/13 00:00	07/02/13 16:51	321-60-8	
Terphenyl-d14 (S)	87	%	25-142		1	07/01/13 00:00	07/02/13 16:51	1718-51-0	
Phenol-d6 (S)	29	%	12-120		1	07/01/13 00:00	07/02/13 16:51	13127-88-3	
2-Fluorophenol (S)	44	%	16-120		1	07/01/13 00:00	07/02/13 16:51	367-12-4	
2,4,6-Tribromophenol (S)	78	%	37-120		1	07/01/13 00:00	07/02/13 16:51	118-79-6	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		07/05/13 22:36	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		07/05/13 22:36	71-43-2	

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ANALYTICAL RESULTS

Project: 075006 Wingate Fractioning Pla
Pace Project No.: 60147780

Sample: 75006-062613-CM-WMW8 **Lab ID: 60147780003** Collected: 06/26/13 11:40 Received: 06/27/13 08:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Bromobenzene	ND	ug/L	1.0	0.10	1		07/05/13 22:36	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.15	1		07/05/13 22:36	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		07/05/13 22:36	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		07/05/13 22:36	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		07/05/13 22:36	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		07/05/13 22:36	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	0.10	1		07/05/13 22:36	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.050	1		07/05/13 22:36	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.34	1		07/05/13 22:36	98-06-6	
Carbon disulfide	ND	ug/L	5.0	0.12	1		07/05/13 22:36	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		07/05/13 22:36	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		07/05/13 22:36	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		07/05/13 22:36	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		07/05/13 22:36	67-66-3	
Chloromethane	ND	ug/L	1.0	0.080	1		07/05/13 22:36	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.12	1		07/05/13 22:36	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.14	1		07/05/13 22:36	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	0.59	1		07/05/13 22:36	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		07/05/13 22:36	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.17	1		07/05/13 22:36	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.18	1		07/05/13 22:36	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.050	1		07/05/13 22:36	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.070	1		07/05/13 22:36	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.060	1		07/05/13 22:36	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		07/05/13 22:36	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		07/05/13 22:36	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		07/05/13 22:36	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	0.28	1		07/05/13 22:36	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		07/05/13 22:36	75-35-4	L3
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		07/05/13 22:36	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		07/05/13 22:36	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		07/05/13 22:36	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.17	1		07/05/13 22:36	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.19	1		07/05/13 22:36	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.090	1		07/05/13 22:36	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		07/05/13 22:36	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		07/05/13 22:36	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		07/05/13 22:36	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.18	1		07/05/13 22:36	87-68-3	
2-Hexanone	ND	ug/L	10.0	1.2	1		07/05/13 22:36	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.070	1		07/05/13 22:36	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.10	1		07/05/13 22:36	99-87-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		07/05/13 22:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		07/05/13 22:36	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.060	1		07/05/13 22:36	1634-04-4	
Naphthalene	ND	ug/L	10.0	0.16	1		07/05/13 22:36	91-20-3	

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ANALYTICAL RESULTS

Project: 075006 Wingate Fractioning Pla
Pace Project No.: 60147780

Sample: 75006-062613-CM-WMW8 **Lab ID: 60147780003** Collected: 06/26/13 11:40 Received: 06/27/13 08:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
n-Propylbenzene	ND	ug/L	1.0	0.10	1		07/05/13 22:36	103-65-1	
Styrene	ND	ug/L	1.0	0.12	1		07/05/13 22:36	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		07/05/13 22:36	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		07/05/13 22:36	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		07/05/13 22:36	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		07/05/13 22:36	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.12	1		07/05/13 22:36	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.10	1		07/05/13 22:36	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		07/05/13 22:36	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		07/05/13 22:36	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		07/05/13 22:36	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.34	1		07/05/13 22:36	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	0.19	1		07/05/13 22:36	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.090	1		07/05/13 22:36	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.10	1		07/05/13 22:36	108-67-8	
Vinyl chloride	ND	ug/L	1.0	0.13	1		07/05/13 22:36	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		07/05/13 22:36	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	80-120		1		07/05/13 22:36	460-00-4	
Dibromofluoromethane (S)	99	%	80-120		1		07/05/13 22:36	1868-53-7	
1,2-Dichloroethane-d4 (S)	98	%	80-120		1		07/05/13 22:36	17060-07-0	
Toluene-d8 (S)	100	%	80-120		1		07/05/13 22:36	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		07/05/13 22:36		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**478**	mg/L	20.0	1.2	1		07/05/13 12:47		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**717**	mg/L	5.0	5.0	1		07/02/13 08:36		
9040 pH	Analytical Method: EPA 9040								
pH	**7.6**	Std. Units	0.10	0.10	1		07/01/13 16:40		H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**22.8**	mg/L	2.0	1.0	2		07/12/13 11:35	16887-00-6	
Sulfate	**150**	mg/L	10.0	1.6	10		07/11/13 15:06	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	ND	mg/L	0.10	0.051	1		06/28/13 10:17		

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ANALYTICAL RESULTS

Project: 075006 Wingate Fractioning Pla
Pace Project No.: 60147780

Sample: 75006-062613-CM-WMW7 **Lab ID: 60147780004** Collected: 06/26/13 13:40 Received: 06/27/13 08:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic, Dissolved	ND	ug/L	10.0	4.6	1	06/27/13 14:00	07/11/13 11:40	7440-38-2	
Barium, Dissolved	**31.6**	ug/L	10.0	0.40	1	06/27/13 14:00	07/11/13 11:40	7440-39-3	
Cadmium, Dissolved	ND	ug/L	5.0	2.5	1	06/27/13 14:00	07/11/13 11:40	7440-43-9	
Calcium, Dissolved	**35600**	ug/L	100	10.4	1	06/27/13 14:00	07/11/13 11:40	7440-70-2	
Chromium, Dissolved	ND	ug/L	5.0	0.62	1	06/27/13 14:00	07/11/13 11:40	7440-47-3	
Lead, Dissolved	ND	ug/L	5.0	2.4	1	06/27/13 14:00	07/11/13 11:40	7439-92-1	
Selenium, Dissolved	ND	ug/L	15.0	4.2	1	06/27/13 14:00	07/11/13 11:40	7782-49-2	
Silver, Dissolved	ND	ug/L	7.0	1.1	1	06/27/13 14:00	07/11/13 11:40	7440-22-4	
Sodium, Dissolved	**564000**	ug/L	1000	43.4	2	06/27/13 14:00	07/10/13 12:10	7440-23-5	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	ND	ug/L	0.20	0.14	1	07/02/13 11:30	07/03/13 12:21	7439-97-6	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Acenaphthene	ND	ug/L	10.0	1.2	1	07/01/13 00:00	07/02/13 17:13	83-32-9	
Acenaphthylene	ND	ug/L	10.0	1.2	1	07/01/13 00:00	07/02/13 17:13	208-96-8	
Anthracene	ND	ug/L	10.0	1.4	1	07/01/13 00:00	07/02/13 17:13	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.0	1.4	1	07/01/13 00:00	07/02/13 17:13	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.0	1.6	1	07/01/13 00:00	07/02/13 17:13	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.0	1.5	1	07/01/13 00:00	07/02/13 17:13	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.0	1.4	1	07/01/13 00:00	07/02/13 17:13	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.0	1.6	1	07/01/13 00:00	07/02/13 17:13	207-08-9	
Benzoic acid	ND	ug/L	50.0	25.0	1	07/01/13 00:00	07/02/13 17:13	65-85-0	
Benzyl alcohol	ND	ug/L	20.0	0.89	1	07/01/13 00:00	07/02/13 17:13	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.0	1.2	1	07/01/13 00:00	07/02/13 17:13	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	1.4	1	07/01/13 00:00	07/02/13 17:13	85-68-7	
Carbazole	ND	ug/L	10.0	1.4	1	07/01/13 00:00	07/02/13 17:13	86-74-8	
4-Chloro-3-methylphenol	ND	ug/L	20.0	1.2	1	07/01/13 00:00	07/02/13 17:13	59-50-7	
4-Chloroaniline	ND	ug/L	20.0	1.8	1	07/01/13 00:00	07/02/13 17:13	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	1.4	1	07/01/13 00:00	07/02/13 17:13	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1.2	1	07/01/13 00:00	07/02/13 17:13	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	10.0	1.1	1	07/01/13 00:00	07/02/13 17:13	39638-32-9	
2-Chloronaphthalene	ND	ug/L	10.0	1.2	1	07/01/13 00:00	07/02/13 17:13	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1.0	1	07/01/13 00:00	07/02/13 17:13	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	1.3	1	07/01/13 00:00	07/02/13 17:13	7005-72-3	
Chrysene	ND	ug/L	10.0	1.5	1	07/01/13 00:00	07/02/13 17:13	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.0	1.5	1	07/01/13 00:00	07/02/13 17:13	53-70-3	
Dibenzofuran	ND	ug/L	10.0	1.2	1	07/01/13 00:00	07/02/13 17:13	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	1.2	1	07/01/13 00:00	07/02/13 17:13	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	1.1	1	07/01/13 00:00	07/02/13 17:13	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	1.1	1	07/01/13 00:00	07/02/13 17:13	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	2.5	1	07/01/13 00:00	07/02/13 17:13	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.0	1.1	1	07/01/13 00:00	07/02/13 17:13	120-83-2	
Diethylphthalate	ND	ug/L	10.0	1.2	1	07/01/13 00:00	07/02/13 17:13	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.0	1.1	1	07/01/13 00:00	07/02/13 17:13	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	1.2	1	07/01/13 00:00	07/02/13 17:13	131-11-3	

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ANALYTICAL RESULTS

Project: 075006 Wingate Fractioning Pla
Pace Project No.: 60147780

Sample: 75006-062613-CM-WMW7 **Lab ID: 60147780004** Collected: 06/26/13 13:40 Received: 06/27/13 08:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Di-n-butylphthalate	ND	ug/L	10.0	1.5	1	07/01/13 00:00	07/02/13 17:13	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	50.0	1.1	1	07/01/13 00:00	07/02/13 17:13	534-52-1	
2,4-Dinitrophenol	ND	ug/L	50.0	0.50	1	07/01/13 00:00	07/02/13 17:13	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.0	1.3	1	07/01/13 00:00	07/02/13 17:13	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.0	1.3	1	07/01/13 00:00	07/02/13 17:13	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.0	1.8	1	07/01/13 00:00	07/02/13 17:13	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	10.0	1.6	1	07/01/13 00:00	07/02/13 17:13	117-81-7	
Fluoranthene	ND	ug/L	10.0	1.5	1	07/01/13 00:00	07/02/13 17:13	206-44-0	
Fluorene	ND	ug/L	10.0	1.3	1	07/01/13 00:00	07/02/13 17:13	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.0	1.2	1	07/01/13 00:00	07/02/13 17:13	87-68-3	
Hexachlorobenzene	ND	ug/L	10.0	1.4	1	07/01/13 00:00	07/02/13 17:13	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.0	1.6	1	07/01/13 00:00	07/02/13 17:13	77-47-4	
Hexachloroethane	ND	ug/L	10.0	1.3	1	07/01/13 00:00	07/02/13 17:13	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.0	1.4	1	07/01/13 00:00	07/02/13 17:13	193-39-5	
Isophorone	ND	ug/L	10.0	1.2	1	07/01/13 00:00	07/02/13 17:13	78-59-1	
2-Methylnaphthalene	ND	ug/L	10.0	1.3	1	07/01/13 00:00	07/02/13 17:13	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	10.0	0.85	1	07/01/13 00:00	07/02/13 17:13	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.0	0.78	1	07/01/13 00:00	07/02/13 17:13		
Naphthalene	ND	ug/L	10.0	1.3	1	07/01/13 00:00	07/02/13 17:13	91-20-3	
2-Nitroaniline	ND	ug/L	50.0	1.0	1	07/01/13 00:00	07/02/13 17:13	88-74-4	
3-Nitroaniline	ND	ug/L	50.0	1.5	1	07/01/13 00:00	07/02/13 17:13	99-09-2	
4-Nitroaniline	ND	ug/L	50.0	1.5	1	07/01/13 00:00	07/02/13 17:13	100-01-6	
Nitrobenzene	ND	ug/L	10.0	1.1	1	07/01/13 00:00	07/02/13 17:13	98-95-3	
2-Nitrophenol	ND	ug/L	10.0	1.1	1	07/01/13 00:00	07/02/13 17:13	88-75-5	
4-Nitrophenol	ND	ug/L	50.0	0.57	1	07/01/13 00:00	07/02/13 17:13	100-02-7	
N-Nitroso-di-n-propylamine	ND	ug/L	10.0	1.2	1	07/01/13 00:00	07/02/13 17:13	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.0	1.4	1	07/01/13 00:00	07/02/13 17:13	86-30-6	
Pentachlorophenol	ND	ug/L	50.0	1.0	1	07/01/13 00:00	07/02/13 17:13	87-86-5	
Phenanthrene	ND	ug/L	10.0	1.4	1	07/01/13 00:00	07/02/13 17:13	85-01-8	
Phenol	ND	ug/L	10.0	5.0	1	07/01/13 00:00	07/02/13 17:13	108-95-2	
Pyrene	ND	ug/L	10.0	1.4	1	07/01/13 00:00	07/02/13 17:13	129-00-0	
Pyridine	ND	ug/L	10.0	0.92	1	07/01/13 00:00	07/02/13 17:13	110-86-1	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	1.3	1	07/01/13 00:00	07/02/13 17:13	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	50.0	1.3	1	07/01/13 00:00	07/02/13 17:13	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.0	1.2	1	07/01/13 00:00	07/02/13 17:13	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	79	%	10-159		1	07/01/13 00:00	07/02/13 17:13	4165-60-0	
2-Fluorobiphenyl (S)	82	%	15-149		1	07/01/13 00:00	07/02/13 17:13	321-60-8	
Terphenyl-d14 (S)	89	%	25-142		1	07/01/13 00:00	07/02/13 17:13	1718-51-0	
Phenol-d6 (S)	29	%	12-120		1	07/01/13 00:00	07/02/13 17:13	13127-88-3	
2-Fluorophenol (S)	43	%	16-120		1	07/01/13 00:00	07/02/13 17:13	367-12-4	
2,4,6-Tribromophenol (S)	79	%	37-120		1	07/01/13 00:00	07/02/13 17:13	118-79-6	
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		07/05/13 22:50	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		07/05/13 22:50	71-43-2	

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ANALYTICAL RESULTS

Project: 075006 Wingate Fractioning Pla
Pace Project No.: 60147780

Sample: 75006-062613-CM-WMW7 **Lab ID: 60147780004** Collected: 06/26/13 13:40 Received: 06/27/13 08:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Bromobenzene	ND	ug/L	1.0	0.10	1		07/05/13 22:50	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.15	1		07/05/13 22:50	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		07/05/13 22:50	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		07/05/13 22:50	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		07/05/13 22:50	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		07/05/13 22:50	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	0.10	1		07/05/13 22:50	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.050	1		07/05/13 22:50	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.34	1		07/05/13 22:50	98-06-6	
Carbon disulfide	ND	ug/L	5.0	0.12	1		07/05/13 22:50	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		07/05/13 22:50	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		07/05/13 22:50	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		07/05/13 22:50	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		07/05/13 22:50	67-66-3	
Chloromethane	ND	ug/L	1.0	0.080	1		07/05/13 22:50	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.12	1		07/05/13 22:50	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.14	1		07/05/13 22:50	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	0.59	1		07/05/13 22:50	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		07/05/13 22:50	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.17	1		07/05/13 22:50	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.18	1		07/05/13 22:50	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.050	1		07/05/13 22:50	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.070	1		07/05/13 22:50	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.060	1		07/05/13 22:50	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		07/05/13 22:50	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		07/05/13 22:50	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		07/05/13 22:50	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	0.28	1		07/05/13 22:50	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		07/05/13 22:50	75-35-4	L3
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		07/05/13 22:50	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		07/05/13 22:50	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		07/05/13 22:50	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.17	1		07/05/13 22:50	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.19	1		07/05/13 22:50	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.090	1		07/05/13 22:50	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		07/05/13 22:50	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		07/05/13 22:50	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		07/05/13 22:50	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.18	1		07/05/13 22:50	87-68-3	
2-Hexanone	ND	ug/L	10.0	1.2	1		07/05/13 22:50	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.070	1		07/05/13 22:50	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.10	1		07/05/13 22:50	99-87-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		07/05/13 22:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		07/05/13 22:50	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.060	1		07/05/13 22:50	1634-04-4	
Naphthalene	ND	ug/L	10.0	0.16	1		07/05/13 22:50	91-20-3	

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ANALYTICAL RESULTS

Project: 075006 Wingate Fractioning Pla
Pace Project No.: 60147780

Sample: 75006-062613-CM-WMW7 **Lab ID: 60147780004** Collected: 06/26/13 13:40 Received: 06/27/13 08:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
n-Propylbenzene	ND	ug/L	1.0	0.10	1		07/05/13 22:50	103-65-1	
Styrene	ND	ug/L	1.0	0.12	1		07/05/13 22:50	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		07/05/13 22:50	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		07/05/13 22:50	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		07/05/13 22:50	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		07/05/13 22:50	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.12	1		07/05/13 22:50	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.10	1		07/05/13 22:50	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		07/05/13 22:50	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		07/05/13 22:50	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		07/05/13 22:50	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.34	1		07/05/13 22:50	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	0.19	1		07/05/13 22:50	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.090	1		07/05/13 22:50	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.10	1		07/05/13 22:50	108-67-8	
Vinyl chloride	ND	ug/L	1.0	0.13	1		07/05/13 22:50	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		07/05/13 22:50	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	80-120		1		07/05/13 22:50	460-00-4	
Dibromofluoromethane (S)	107	%	80-120		1		07/05/13 22:50	1868-53-7	
1,2-Dichloroethane-d4 (S)	103	%	80-120		1		07/05/13 22:50	17060-07-0	
Toluene-d8 (S)	100	%	80-120		1		07/05/13 22:50	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		07/05/13 22:50		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**633**	mg/L	20.0	1.2	1		07/05/13 12:54		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**1710**	mg/L	5.0	5.0	1		07/02/13 08:36		
9040 pH	Analytical Method: EPA 9040								
pH	**7.6**	Std. Units	0.10	0.10	1		07/01/13 16:40		H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**116**	mg/L	10.0	5.0	10		07/11/13 15:22	16887-00-6	
Sulfate	**639**	mg/L	50.0	8.0	50		07/12/13 11:51	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	ND	mg/L	0.10	0.051	1		06/28/13 10:19		

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ANALYTICAL RESULTS

Project: 075006 Wingate Fractioning Pla
Pace Project No.: 60147780

Sample: 75006-062613-CM-DUP **Lab ID: 60147780005** Collected: 06/26/13 13:50 Received: 06/27/13 08:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Benzene	ND	ug/L	1.0	0.060	1		07/05/13 23:05	71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.18	1		07/05/13 23:05	100-41-4	
Toluene	ND	ug/L	1.0	0.17	1		07/05/13 23:05	108-88-3	
Xylene (Total)	ND	ug/L	3.0	0.42	1		07/05/13 23:05	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	96	%	80-120		1		07/05/13 23:05	460-00-4	
Dibromofluoromethane (S)	99	%	80-120		1		07/05/13 23:05	1868-53-7	
1,2-Dichloroethane-d4 (S)	100	%	80-120		1		07/05/13 23:05	17060-07-0	
Toluene-d8 (S)	99	%	80-120		1		07/05/13 23:05	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		07/05/13 23:05		

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ANALYTICAL RESULTS

Project: 075006 Wingate Fractioning Pla
Pace Project No.: 60147780

Sample: TB-75006-062613-001 **Lab ID: 60147780006** Collected: 06/26/13 14:45 Received: 06/27/13 08:40 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Benzene	ND	ug/L	1.0	0.060	1		07/05/13 23:20	71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.18	1		07/05/13 23:20	100-41-4	
Toluene	ND	ug/L	1.0	0.17	1		07/05/13 23:20	108-88-3	
Xylene (Total)	ND	ug/L	3.0	0.42	1		07/05/13 23:20	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	80-120		1		07/05/13 23:20	460-00-4	
Dibromofluoromethane (S)	105	%	80-120		1		07/05/13 23:20	1868-53-7	
1,2-Dichloroethane-d4 (S)	102	%	80-120		1		07/05/13 23:20	17060-07-0	
Toluene-d8 (S)	98	%	80-120		1		07/05/13 23:20	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		07/05/13 23:20		

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ANALYTICAL RESULTS

Project: 075006 Wingate Fractioning Pla
Pace Project No.: 60147780

Sample: GW-075006-062413-CM-WMW-5 **Lab ID: 60147558001** Collected: 06/24/13 12:25 Received: 06/25/13 08:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic, Dissolved	ND	ug/L	10.0	4.6	1	06/25/13 13:45	07/01/13 16:48	7440-38-2	
Barium, Dissolved	ND	ug/L	10.0	0.40	1	06/25/13 13:45	07/01/13 16:48	7440-39-3	
Cadmium, Dissolved	ND	ug/L	5.0	2.5	1	06/25/13 13:45	07/01/13 16:48	7440-43-9	
Calcium, Dissolved	**102000**	ug/L	1000	104	10	06/25/13 13:45	07/03/13 11:18	7440-70-2	
Chromium, Dissolved	ND	ug/L	5.0	0.62	1	06/25/13 13:45	07/01/13 16:48	7440-47-3	
Lead, Dissolved	ND	ug/L	5.0	2.4	1	06/25/13 13:45	07/01/13 16:48	7439-92-1	
Selenium, Dissolved	ND	ug/L	15.0	4.2	1	06/25/13 13:45	07/01/13 16:48	7782-49-2	
Silver, Dissolved	ND	ug/L	7.0	1.1	1	06/25/13 13:45	07/01/13 16:48	7440-22-4	
Sodium, Dissolved	**770000**	ug/L	10000	434	20	06/25/13 13:45	07/03/13 14:20	7440-23-5	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	ND	ug/L	0.20	0.14	1	06/26/13 10:30	06/26/13 14:40	7439-97-6	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Acenaphthene	ND	ug/L	11.0	1.4	1	06/27/13 00:00	06/28/13 22:59	83-32-9	
Acenaphthylene	ND	ug/L	11.0	1.3	1	06/27/13 00:00	06/28/13 22:59	208-96-8	
Anthracene	ND	ug/L	11.0	1.5	1	06/27/13 00:00	06/28/13 22:59	120-12-7	
Benzo(a)anthracene	ND	ug/L	11.0	1.6	1	06/27/13 00:00	06/28/13 22:59	56-55-3	
Benzo(a)pyrene	ND	ug/L	11.0	1.7	1	06/27/13 00:00	06/28/13 22:59	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	11.0	1.7	1	06/27/13 00:00	06/28/13 22:59	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	11.0	1.6	1	06/27/13 00:00	06/28/13 22:59	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	11.0	1.8	1	06/27/13 00:00	06/28/13 22:59	207-08-9	
Benzoic acid	ND	ug/L	54.9	27.5	1	06/27/13 00:00	06/28/13 22:59	65-85-0	
Benzyl alcohol	ND	ug/L	22.0	0.98	1	06/27/13 00:00	06/28/13 22:59	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	11.0	1.4	1	06/27/13 00:00	06/28/13 22:59	101-55-3	
Butylbenzylphthalate	ND	ug/L	11.0	1.5	1	06/27/13 00:00	06/28/13 22:59	85-68-7	
Carbazole	ND	ug/L	11.0	1.6	1	06/27/13 00:00	06/28/13 22:59	86-74-8	
4-Chloro-3-methylphenol	ND	ug/L	22.0	1.3	1	06/27/13 00:00	06/28/13 22:59	59-50-7	
4-Chloroaniline	ND	ug/L	22.0	1.9	1	06/27/13 00:00	06/28/13 22:59	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	11.0	1.5	1	06/27/13 00:00	06/28/13 22:59	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	11.0	1.3	1	06/27/13 00:00	06/28/13 22:59	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	11.0	1.2	1	06/27/13 00:00	06/28/13 22:59	39638-32-9	
2-Chloronaphthalene	ND	ug/L	11.0	1.3	1	06/27/13 00:00	06/28/13 22:59	91-58-7	
2-Chlorophenol	ND	ug/L	11.0	1.2	1	06/27/13 00:00	06/28/13 22:59	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	11.0	1.4	1	06/27/13 00:00	06/28/13 22:59	7005-72-3	
Chrysene	ND	ug/L	11.0	1.7	1	06/27/13 00:00	06/28/13 22:59	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	11.0	1.6	1	06/27/13 00:00	06/28/13 22:59	53-70-3	
Dibenzofuran	ND	ug/L	11.0	1.4	1	06/27/13 00:00	06/28/13 22:59	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	11.0	1.3	1	06/27/13 00:00	06/28/13 22:59	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	11.0	1.2	1	06/27/13 00:00	06/28/13 22:59	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	11.0	1.2	1	06/27/13 00:00	06/28/13 22:59	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	22.0	2.7	1	06/27/13 00:00	06/28/13 22:59	91-94-1	
2,4-Dichlorophenol	ND	ug/L	11.0	1.2	1	06/27/13 00:00	06/28/13 22:59	120-83-2	
Diethylphthalate	ND	ug/L	11.0	1.4	1	06/27/13 00:00	06/28/13 22:59	84-66-2	
2,4-Dimethylphenol	ND	ug/L	11.0	1.2	1	06/27/13 00:00	06/28/13 22:59	105-67-9	

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ANALYTICAL RESULTS

Project: 075006 Wingate Fractioning Pla
Pace Project No.: 60147780

Sample: GW-075006-062413-CM-WMW-5 **Lab ID: 60147558001** Collected: 06/24/13 12:25 Received: 06/25/13 08:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Dimethylphthalate	ND	ug/L	11.0	1.3	1	06/27/13 00:00	06/28/13 22:59	131-11-3	
Di-n-butylphthalate	ND	ug/L	11.0	1.6	1	06/27/13 00:00	06/28/13 22:59	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	54.9	1.2	1	06/27/13 00:00	06/28/13 22:59	534-52-1	
2,4-Dinitrophenol	ND	ug/L	54.9	0.55	1	06/27/13 00:00	06/28/13 22:59	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	11.0	1.4	1	06/27/13 00:00	06/28/13 22:59	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	11.0	1.4	1	06/27/13 00:00	06/28/13 22:59	606-20-2	
Di-n-octylphthalate	ND	ug/L	11.0	2.0	1	06/27/13 00:00	06/28/13 22:59	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	11.0	1.7	1	06/27/13 00:00	06/28/13 22:59	117-81-7	
Fluoranthene	ND	ug/L	11.0	1.6	1	06/27/13 00:00	06/28/13 22:59	206-44-0	
Fluorene	ND	ug/L	11.0	1.4	1	06/27/13 00:00	06/28/13 22:59	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	11.0	1.3	1	06/27/13 00:00	06/28/13 22:59	87-68-3	
Hexachlorobenzene	ND	ug/L	11.0	1.5	1	06/27/13 00:00	06/28/13 22:59	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	11.0	1.8	1	06/27/13 00:00	06/28/13 22:59	77-47-4	
Hexachloroethane	ND	ug/L	11.0	1.4	1	06/27/13 00:00	06/28/13 22:59	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	11.0	1.5	1	06/27/13 00:00	06/28/13 22:59	193-39-5	
Isophorone	ND	ug/L	11.0	1.3	1	06/27/13 00:00	06/28/13 22:59	78-59-1	
2-Methylnaphthalene	ND	ug/L	11.0	1.5	1	06/27/13 00:00	06/28/13 22:59	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	11.0	0.93	1	06/27/13 00:00	06/28/13 22:59	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	11.0	0.86	1	06/27/13 00:00	06/28/13 22:59		
Naphthalene	ND	ug/L	11.0	1.4	1	06/27/13 00:00	06/28/13 22:59	91-20-3	
2-Nitroaniline	ND	ug/L	54.9	1.1	1	06/27/13 00:00	06/28/13 22:59	88-74-4	
3-Nitroaniline	ND	ug/L	54.9	1.6	1	06/27/13 00:00	06/28/13 22:59	99-09-2	
4-Nitroaniline	ND	ug/L	54.9	1.6	1	06/27/13 00:00	06/28/13 22:59	100-01-6	
Nitrobenzene	ND	ug/L	11.0	1.2	1	06/27/13 00:00	06/28/13 22:59	98-95-3	
2-Nitrophenol	ND	ug/L	11.0	1.2	1	06/27/13 00:00	06/28/13 22:59	88-75-5	
4-Nitrophenol	ND	ug/L	54.9	0.63	1	06/27/13 00:00	06/28/13 22:59	100-02-7	
N-Nitroso-di-n-propylamine	ND	ug/L	11.0	1.3	1	06/27/13 00:00	06/28/13 22:59	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	11.0	1.5	1	06/27/13 00:00	06/28/13 22:59	86-30-6	
Pentachlorophenol	ND	ug/L	54.9	1.1	1	06/27/13 00:00	06/28/13 22:59	87-86-5	
Phenanthrene	ND	ug/L	11.0	1.5	1	06/27/13 00:00	06/28/13 22:59	85-01-8	
Phenol	ND	ug/L	11.0	5.5	1	06/27/13 00:00	06/28/13 22:59	108-95-2	
Pyrene	ND	ug/L	11.0	1.6	1	06/27/13 00:00	06/28/13 22:59	129-00-0	
Pyridine	ND	ug/L	11.0	1.0	1	06/27/13 00:00	06/28/13 22:59	110-86-1	
1,2,4-Trichlorobenzene	ND	ug/L	11.0	1.4	1	06/27/13 00:00	06/28/13 22:59	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	54.9	1.5	1	06/27/13 00:00	06/28/13 22:59	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	11.0	1.3	1	06/27/13 00:00	06/28/13 22:59	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	57	%	10-159		1	06/27/13 00:00	06/28/13 22:59	4165-60-0	
2-Fluorobiphenyl (S)	62	%	15-149		1	06/27/13 00:00	06/28/13 22:59	321-60-8	
Terphenyl-d14 (S)	80	%	25-142		1	06/27/13 00:00	06/28/13 22:59	1718-51-0	
Phenol-d6 (S)	22	%	12-120		1	06/27/13 00:00	06/28/13 22:59	13127-88-3	
2-Fluorophenol (S)	34	%	16-120		1	06/27/13 00:00	06/28/13 22:59	367-12-4	
2,4,6-Tribromophenol (S)	62	%	37-120		1	06/27/13 00:00	06/28/13 22:59	118-79-6	

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ANALYTICAL RESULTS

Project: 075006 Wingate Fractioning Pla
Pace Project No.: 60147780

Sample: GW-075006-062413-CM-WMW-5 **Lab ID: 60147558001** Collected: 06/24/13 12:25 Received: 06/25/13 08:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		07/02/13 13:53	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		07/02/13 13:53	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.10	1		07/02/13 13:53	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.15	1		07/02/13 13:53	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		07/02/13 13:53	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		07/02/13 13:53	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		07/02/13 13:53	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		07/02/13 13:53	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	0.10	1		07/02/13 13:53	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.050	1		07/02/13 13:53	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.34	1		07/02/13 13:53	98-06-6	
Carbon disulfide	ND	ug/L	5.0	0.12	1		07/02/13 13:53	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		07/02/13 13:53	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		07/02/13 13:53	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		07/02/13 13:53	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		07/02/13 13:53	67-66-3	
Chloromethane	ND	ug/L	1.0	0.080	1		07/02/13 13:53	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.12	1		07/02/13 13:53	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.14	1		07/02/13 13:53	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	0.59	1		07/02/13 13:53	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		07/02/13 13:53	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.17	1		07/02/13 13:53	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.18	1		07/02/13 13:53	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.050	1		07/02/13 13:53	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.070	1		07/02/13 13:53	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.060	1		07/02/13 13:53	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		07/02/13 13:53	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		07/02/13 13:53	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		07/02/13 13:53	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	0.28	1		07/02/13 13:53	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		07/02/13 13:53	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		07/02/13 13:53	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		07/02/13 13:53	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		07/02/13 13:53	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.17	1		07/02/13 13:53	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.19	1		07/02/13 13:53	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.090	1		07/02/13 13:53	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		07/02/13 13:53	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		07/02/13 13:53	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		07/02/13 13:53	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.18	1		07/02/13 13:53	87-68-3	
2-Hexanone	ND	ug/L	10.0	1.2	1		07/02/13 13:53	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.070	1		07/02/13 13:53	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.10	1		07/02/13 13:53	99-87-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		07/02/13 13:53	75-09-2	

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ANALYTICAL RESULTS

Project: 075006 Wingate Fractioning Pla
Pace Project No.: 60147780

Sample: GW-075006-062413-CM-WMW-5 **Lab ID: 60147558001** Collected: 06/24/13 12:25 Received: 06/25/13 08:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		07/02/13 13:53	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.060	1		07/02/13 13:53	1634-04-4	
Naphthalene	ND	ug/L	10.0	0.16	1		07/02/13 13:53	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.10	1		07/02/13 13:53	103-65-1	
Styrene	ND	ug/L	1.0	0.12	1		07/02/13 13:53	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		07/02/13 13:53	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		07/02/13 13:53	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		07/02/13 13:53	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		07/02/13 13:53	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.12	1		07/02/13 13:53	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.10	1		07/02/13 13:53	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		07/02/13 13:53	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		07/02/13 13:53	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		07/02/13 13:53	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.34	1		07/02/13 13:53	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	0.19	1		07/02/13 13:53	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.090	1		07/02/13 13:53	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.10	1		07/02/13 13:53	108-67-8	
Vinyl chloride	ND	ug/L	1.0	0.13	1		07/02/13 13:53	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		07/02/13 13:53	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	80-120		1		07/02/13 13:53	460-00-4	
Dibromofluoromethane (S)	99	%	80-120		1		07/02/13 13:53	1868-53-7	
1,2-Dichloroethane-d4 (S)	105	%	80-120		1		07/02/13 13:53	17060-07-0	
Toluene-d8 (S)	99	%	80-120		1		07/02/13 13:53	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		07/02/13 13:53		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**654**	mg/L	20.0	1.2	1		07/01/13 14:07		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**2610**	mg/L	5.0	5.0	1		06/29/13 12:05		
9040 pH	Analytical Method: EPA 9040								
pH	**7.6**	Std. Units	0.10	0.10	1		06/26/13 14:20		H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**197**	mg/L	20.0	10.0	20		07/08/13 09:45	16887-00-6	
Sulfate	**1100**	mg/L	100	16.0	100		07/08/13 10:27	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	ND	mg/L	0.10	0.051	1		06/25/13 14:52		

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ANALYTICAL RESULTS

Project: 075006 Wingate Fractioning Pla
Pace Project No.: 60147780

Sample: GW-075006-062413-CM-WMW-4 **Lab ID: 60147558002** Collected: 06/24/13 13:15 Received: 06/25/13 08:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic, Dissolved	ND	ug/L	10.0	4.6	1	06/25/13 13:45	07/01/13 16:52	7440-38-2	
Barium, Dissolved	**54.1**	ug/L	10.0	0.40	1	06/25/13 13:45	07/01/13 16:52	7440-39-3	
Cadmium, Dissolved	ND	ug/L	5.0	2.5	1	06/25/13 13:45	07/01/13 16:52	7440-43-9	
Calcium, Dissolved	**13800**	ug/L	1000	104	10	06/25/13 13:45	07/03/13 11:21	7440-70-2	
Chromium, Dissolved	ND	ug/L	5.0	0.62	1	06/25/13 13:45	07/01/13 16:52	7440-47-3	
Lead, Dissolved	ND	ug/L	5.0	2.4	1	06/25/13 13:45	07/01/13 16:52	7439-92-1	
Selenium, Dissolved	ND	ug/L	15.0	4.2	1	06/25/13 13:45	07/01/13 16:52	7782-49-2	
Silver, Dissolved	ND	ug/L	7.0	1.1	1	06/25/13 13:45	07/01/13 16:52	7440-22-4	
Sodium, Dissolved	**560000**	ug/L	10000	434	20	06/25/13 13:45	07/03/13 14:23	7440-23-5	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	ND	ug/L	0.20	0.14	1	06/26/13 10:30	06/26/13 14:53	7439-97-6	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Acenaphthene	ND	ug/L	11.1	1.4	1	06/27/13 00:00	06/28/13 23:20	83-32-9	
Acenaphthylene	ND	ug/L	11.1	1.3	1	06/27/13 00:00	06/28/13 23:20	208-96-8	
Anthracene	ND	ug/L	11.1	1.5	1	06/27/13 00:00	06/28/13 23:20	120-12-7	
Benzo(a)anthracene	ND	ug/L	11.1	1.6	1	06/27/13 00:00	06/28/13 23:20	56-55-3	
Benzo(a)pyrene	ND	ug/L	11.1	1.8	1	06/27/13 00:00	06/28/13 23:20	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	11.1	1.7	1	06/27/13 00:00	06/28/13 23:20	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	11.1	1.6	1	06/27/13 00:00	06/28/13 23:20	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	11.1	1.8	1	06/27/13 00:00	06/28/13 23:20	207-08-9	
Benzoic acid	ND	ug/L	55.6	27.8	1	06/27/13 00:00	06/28/13 23:20	65-85-0	
Benzyl alcohol	ND	ug/L	22.2	0.99	1	06/27/13 00:00	06/28/13 23:20	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	11.1	1.4	1	06/27/13 00:00	06/28/13 23:20	101-55-3	
Butylbenzylphthalate	ND	ug/L	11.1	1.5	1	06/27/13 00:00	06/28/13 23:20	85-68-7	
Carbazole	ND	ug/L	11.1	1.6	1	06/27/13 00:00	06/28/13 23:20	86-74-8	
4-Chloro-3-methylphenol	ND	ug/L	22.2	1.3	1	06/27/13 00:00	06/28/13 23:20	59-50-7	
4-Chloroaniline	ND	ug/L	22.2	1.9	1	06/27/13 00:00	06/28/13 23:20	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	11.1	1.5	1	06/27/13 00:00	06/28/13 23:20	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	11.1	1.4	1	06/27/13 00:00	06/28/13 23:20	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	11.1	1.2	1	06/27/13 00:00	06/28/13 23:20	39638-32-9	
2-Chloronaphthalene	ND	ug/L	11.1	1.4	1	06/27/13 00:00	06/28/13 23:20	91-58-7	
2-Chlorophenol	ND	ug/L	11.1	1.2	1	06/27/13 00:00	06/28/13 23:20	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	11.1	1.4	1	06/27/13 00:00	06/28/13 23:20	7005-72-3	
Chrysene	ND	ug/L	11.1	1.7	1	06/27/13 00:00	06/28/13 23:20	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	11.1	1.7	1	06/27/13 00:00	06/28/13 23:20	53-70-3	
Dibenzofuran	ND	ug/L	11.1	1.4	1	06/27/13 00:00	06/28/13 23:20	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	11.1	1.3	1	06/27/13 00:00	06/28/13 23:20	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	11.1	1.2	1	06/27/13 00:00	06/28/13 23:20	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	11.1	1.2	1	06/27/13 00:00	06/28/13 23:20	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	22.2	2.8	1	06/27/13 00:00	06/28/13 23:20	91-94-1	
2,4-Dichlorophenol	ND	ug/L	11.1	1.2	1	06/27/13 00:00	06/28/13 23:20	120-83-2	
Diethylphthalate	ND	ug/L	11.1	1.4	1	06/27/13 00:00	06/28/13 23:20	84-66-2	
2,4-Dimethylphenol	ND	ug/L	11.1	1.2	1	06/27/13 00:00	06/28/13 23:20	105-67-9	

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ANALYTICAL RESULTS

Project: 075006 Wingate Fractioning Pla
Pace Project No.: 60147780

Sample: GW-075006-062413-CM-WMW-4 **Lab ID: 60147558002** Collected: 06/24/13 13:15 Received: 06/25/13 08:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Dimethylphthalate	ND	ug/L	11.1	1.4	1	06/27/13 00:00	06/28/13 23:20	131-11-3	
Di-n-butylphthalate	ND	ug/L	11.1	1.6	1	06/27/13 00:00	06/28/13 23:20	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	55.6	1.2	1	06/27/13 00:00	06/28/13 23:20	534-52-1	
2,4-Dinitrophenol	ND	ug/L	55.6	0.56	1	06/27/13 00:00	06/28/13 23:20	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	11.1	1.4	1	06/27/13 00:00	06/28/13 23:20	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	11.1	1.4	1	06/27/13 00:00	06/28/13 23:20	606-20-2	
Di-n-octylphthalate	ND	ug/L	11.1	2.1	1	06/27/13 00:00	06/28/13 23:20	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	11.1	1.8	1	06/27/13 00:00	06/28/13 23:20	117-81-7	
Fluoranthene	ND	ug/L	11.1	1.7	1	06/27/13 00:00	06/28/13 23:20	206-44-0	
Fluorene	ND	ug/L	11.1	1.5	1	06/27/13 00:00	06/28/13 23:20	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	11.1	1.3	1	06/27/13 00:00	06/28/13 23:20	87-68-3	
Hexachlorobenzene	ND	ug/L	11.1	1.5	1	06/27/13 00:00	06/28/13 23:20	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	11.1	1.8	1	06/27/13 00:00	06/28/13 23:20	77-47-4	
Hexachloroethane	ND	ug/L	11.1	1.4	1	06/27/13 00:00	06/28/13 23:20	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	11.1	1.5	1	06/27/13 00:00	06/28/13 23:20	193-39-5	
Isophorone	ND	ug/L	11.1	1.3	1	06/27/13 00:00	06/28/13 23:20	78-59-1	
2-Methylnaphthalene	ND	ug/L	11.1	1.5	1	06/27/13 00:00	06/28/13 23:20	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	11.1	0.94	1	06/27/13 00:00	06/28/13 23:20	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	11.1	0.87	1	06/27/13 00:00	06/28/13 23:20		
Naphthalene	ND	ug/L	11.1	1.4	1	06/27/13 00:00	06/28/13 23:20	91-20-3	
2-Nitroaniline	ND	ug/L	55.6	1.1	1	06/27/13 00:00	06/28/13 23:20	88-74-4	
3-Nitroaniline	ND	ug/L	55.6	1.6	1	06/27/13 00:00	06/28/13 23:20	99-09-2	
4-Nitroaniline	ND	ug/L	55.6	1.6	1	06/27/13 00:00	06/28/13 23:20	100-01-6	
Nitrobenzene	ND	ug/L	11.1	1.2	1	06/27/13 00:00	06/28/13 23:20	98-95-3	
2-Nitrophenol	ND	ug/L	11.1	1.2	1	06/27/13 00:00	06/28/13 23:20	88-75-5	
4-Nitrophenol	ND	ug/L	55.6	0.63	1	06/27/13 00:00	06/28/13 23:20	100-02-7	
N-Nitroso-di-n-propylamine	ND	ug/L	11.1	1.3	1	06/27/13 00:00	06/28/13 23:20	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	11.1	1.5	1	06/27/13 00:00	06/28/13 23:20	86-30-6	
Pentachlorophenol	ND	ug/L	55.6	1.2	1	06/27/13 00:00	06/28/13 23:20	87-86-5	
Phenanthrene	ND	ug/L	11.1	1.5	1	06/27/13 00:00	06/28/13 23:20	85-01-8	
Phenol	ND	ug/L	11.1	5.6	1	06/27/13 00:00	06/28/13 23:20	108-95-2	
Pyrene	ND	ug/L	11.1	1.6	1	06/27/13 00:00	06/28/13 23:20	129-00-0	
Pyridine	ND	ug/L	11.1	1.0	1	06/27/13 00:00	06/28/13 23:20	110-86-1	
1,2,4-Trichlorobenzene	ND	ug/L	11.1	1.4	1	06/27/13 00:00	06/28/13 23:20	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	55.6	1.5	1	06/27/13 00:00	06/28/13 23:20	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	11.1	1.3	1	06/27/13 00:00	06/28/13 23:20	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	73	%	10-159		1	06/27/13 00:00	06/28/13 23:20	4165-60-0	
2-Fluorobiphenyl (S)	81	%	15-149		1	06/27/13 00:00	06/28/13 23:20	321-60-8	
Terphenyl-d14 (S)	99	%	25-142		1	06/27/13 00:00	06/28/13 23:20	1718-51-0	
Phenol-d6 (S)	28	%	12-120		1	06/27/13 00:00	06/28/13 23:20	13127-88-3	
2-Fluorophenol (S)	43	%	16-120		1	06/27/13 00:00	06/28/13 23:20	367-12-4	
2,4,6-Tribromophenol (S)	84	%	37-120		1	06/27/13 00:00	06/28/13 23:20	118-79-6	

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9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: 075006 Wingate Fractioning Pla
Pace Project No.: 60147780

Sample: GW-075006-062413-CM-WMW-4 **Lab ID: 60147558002** Collected: 06/24/13 13:15 Received: 06/25/13 08:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		07/02/13 14:08	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		07/02/13 14:08	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.10	1		07/02/13 14:08	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.15	1		07/02/13 14:08	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		07/02/13 14:08	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		07/02/13 14:08	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		07/02/13 14:08	74-83-9	
2-Butanone (MEK)	**18.4**	ug/L	10.0	0.59	1		07/02/13 14:08	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	0.10	1		07/02/13 14:08	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.050	1		07/02/13 14:08	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.34	1		07/02/13 14:08	98-06-6	
Carbon disulfide	ND	ug/L	5.0	0.12	1		07/02/13 14:08	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		07/02/13 14:08	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		07/02/13 14:08	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		07/02/13 14:08	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		07/02/13 14:08	67-66-3	
Chloromethane	ND	ug/L	1.0	0.080	1		07/02/13 14:08	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.12	1		07/02/13 14:08	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.14	1		07/02/13 14:08	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	0.59	1		07/02/13 14:08	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		07/02/13 14:08	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.17	1		07/02/13 14:08	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.18	1		07/02/13 14:08	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.050	1		07/02/13 14:08	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.070	1		07/02/13 14:08	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.060	1		07/02/13 14:08	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		07/02/13 14:08	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		07/02/13 14:08	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		07/02/13 14:08	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	0.28	1		07/02/13 14:08	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		07/02/13 14:08	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		07/02/13 14:08	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		07/02/13 14:08	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		07/02/13 14:08	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.17	1		07/02/13 14:08	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.19	1		07/02/13 14:08	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.090	1		07/02/13 14:08	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		07/02/13 14:08	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		07/02/13 14:08	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		07/02/13 14:08	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.18	1		07/02/13 14:08	87-68-3	
2-Hexanone	ND	ug/L	10.0	1.2	1		07/02/13 14:08	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.070	1		07/02/13 14:08	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.10	1		07/02/13 14:08	99-87-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		07/02/13 14:08	75-09-2	

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(913)599-5665

ANALYTICAL RESULTS

Project: 075006 Wingate Fractioning Pla
Pace Project No.: 60147780

Sample: GW-075006-062413-CM-WMW-4 **Lab ID: 60147558002** Collected: 06/24/13 13:15 Received: 06/25/13 08:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		07/02/13 14:08	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.060	1		07/02/13 14:08	1634-04-4	
Naphthalene	ND	ug/L	10.0	0.16	1		07/02/13 14:08	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.10	1		07/02/13 14:08	103-65-1	
Styrene	ND	ug/L	1.0	0.12	1		07/02/13 14:08	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		07/02/13 14:08	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		07/02/13 14:08	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		07/02/13 14:08	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		07/02/13 14:08	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.12	1		07/02/13 14:08	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.10	1		07/02/13 14:08	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		07/02/13 14:08	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		07/02/13 14:08	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		07/02/13 14:08	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.34	1		07/02/13 14:08	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	0.19	1		07/02/13 14:08	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.090	1		07/02/13 14:08	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.10	1		07/02/13 14:08	108-67-8	
Vinyl chloride	ND	ug/L	1.0	0.13	1		07/02/13 14:08	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		07/02/13 14:08	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	80-120		1		07/02/13 14:08	460-00-4	
Dibromofluoromethane (S)	101	%	80-120		1		07/02/13 14:08	1868-53-7	
1,2-Dichloroethane-d4 (S)	106	%	80-120		1		07/02/13 14:08	17060-07-0	
Toluene-d8 (S)	100	%	80-120		1		07/02/13 14:08	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		07/02/13 14:08		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**805**	mg/L	20.0	1.2	1		07/01/13 14:14		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**1690**	mg/L	5.0	5.0	1		06/29/13 12:05		
9040 pH	Analytical Method: EPA 9040								
pH	**7.8**	Std. Units	0.10	0.10	1		06/26/13 14:20		H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**181**	mg/L	20.0	10.0	20		07/08/13 11:49	16887-00-6	
Sulfate	**307**	mg/L	20.0	3.2	20		07/08/13 11:49	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	ND	mg/L	0.10	0.051	1		06/25/13 14:54		

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ANALYTICAL RESULTS

Project: 075006 Wingate Fractioning Pla
Pace Project No.: 60147780

Sample: GW-075006-062413-CM-WMW-2 **Lab ID: 60147558003** Collected: 06/24/13 14:00 Received: 06/25/13 08:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic, Dissolved	ND	ug/L	10.0	4.6	1	06/25/13 13:45	07/01/13 16:54	7440-38-2	
Barium, Dissolved	**278**	ug/L	10.0	0.40	1	06/25/13 13:45	07/01/13 16:54	7440-39-3	
Cadmium, Dissolved	ND	ug/L	5.0	2.5	1	06/25/13 13:45	07/01/13 16:54	7440-43-9	
Calcium, Dissolved	**13600**	ug/L	1000	104	10	06/25/13 13:45	07/03/13 11:23	7440-70-2	
Chromium, Dissolved	ND	ug/L	5.0	0.62	1	06/25/13 13:45	07/01/13 16:54	7440-47-3	
Lead, Dissolved	ND	ug/L	5.0	2.4	1	06/25/13 13:45	07/01/13 16:54	7439-92-1	
Selenium, Dissolved	ND	ug/L	15.0	4.2	1	06/25/13 13:45	07/01/13 16:54	7782-49-2	
Silver, Dissolved	ND	ug/L	7.0	1.1	1	06/25/13 13:45	07/01/13 16:54	7440-22-4	
Sodium, Dissolved	**1010000**	ug/L	10000	434	20	06/25/13 13:45	07/03/13 14:25	7440-23-5	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	ND	ug/L	0.20	0.14	1	06/26/13 10:30	06/26/13 14:55	7439-97-6	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Acenaphthene	ND	ug/L	10.9	1.3	1	06/27/13 00:00	06/28/13 23:41	83-32-9	
Acenaphthylene	ND	ug/L	10.9	1.3	1	06/27/13 00:00	06/28/13 23:41	208-96-8	
Anthracene	ND	ug/L	10.9	1.5	1	06/27/13 00:00	06/28/13 23:41	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.9	1.6	1	06/27/13 00:00	06/28/13 23:41	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.9	1.7	1	06/27/13 00:00	06/28/13 23:41	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.9	1.6	1	06/27/13 00:00	06/28/13 23:41	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.9	1.5	1	06/27/13 00:00	06/28/13 23:41	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.9	1.7	1	06/27/13 00:00	06/28/13 23:41	207-08-9	
Benzoic acid	ND	ug/L	54.3	27.2	1	06/27/13 00:00	06/28/13 23:41	65-85-0	
Benzyl alcohol	ND	ug/L	21.7	0.97	1	06/27/13 00:00	06/28/13 23:41	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.9	1.4	1	06/27/13 00:00	06/28/13 23:41	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.9	1.5	1	06/27/13 00:00	06/28/13 23:41	85-68-7	
Carbazole	ND	ug/L	10.9	1.6	1	06/27/13 00:00	06/28/13 23:41	86-74-8	
4-Chloro-3-methylphenol	ND	ug/L	21.7	1.3	1	06/27/13 00:00	06/28/13 23:41	59-50-7	
4-Chloroaniline	ND	ug/L	21.7	1.9	1	06/27/13 00:00	06/28/13 23:41	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.9	1.5	1	06/27/13 00:00	06/28/13 23:41	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.9	1.3	1	06/27/13 00:00	06/28/13 23:41	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	10.9	1.2	1	06/27/13 00:00	06/28/13 23:41	39638-32-9	
2-Chloronaphthalene	ND	ug/L	10.9	1.3	1	06/27/13 00:00	06/28/13 23:41	91-58-7	
2-Chlorophenol	ND	ug/L	10.9	1.1	1	06/27/13 00:00	06/28/13 23:41	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.9	1.4	1	06/27/13 00:00	06/28/13 23:41	7005-72-3	
Chrysene	ND	ug/L	10.9	1.6	1	06/27/13 00:00	06/28/13 23:41	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.9	1.6	1	06/27/13 00:00	06/28/13 23:41	53-70-3	
Dibenzofuran	ND	ug/L	10.9	1.3	1	06/27/13 00:00	06/28/13 23:41	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.9	1.2	1	06/27/13 00:00	06/28/13 23:41	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.9	1.2	1	06/27/13 00:00	06/28/13 23:41	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.9	1.2	1	06/27/13 00:00	06/28/13 23:41	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	21.7	2.7	1	06/27/13 00:00	06/28/13 23:41	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.9	1.2	1	06/27/13 00:00	06/28/13 23:41	120-83-2	
Diethylphthalate	ND	ug/L	10.9	1.3	1	06/27/13 00:00	06/28/13 23:41	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.9	1.2	1	06/27/13 00:00	06/28/13 23:41	105-67-9	

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ANALYTICAL RESULTS

Project: 075006 Wingate Fractioning Pla
Pace Project No.: 60147780

Sample: GW-075006-062413-CM-WMW-2 **Lab ID: 60147558003** Collected: 06/24/13 14:00 Received: 06/25/13 08:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Dimethylphthalate	ND	ug/L	10.9	1.3	1	06/27/13 00:00	06/28/13 23:41	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.9	1.6	1	06/27/13 00:00	06/28/13 23:41	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	54.3	1.2	1	06/27/13 00:00	06/28/13 23:41	534-52-1	
2,4-Dinitrophenol	ND	ug/L	54.3	0.54	1	06/27/13 00:00	06/28/13 23:41	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.9	1.4	1	06/27/13 00:00	06/28/13 23:41	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.9	1.4	1	06/27/13 00:00	06/28/13 23:41	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.9	2.0	1	06/27/13 00:00	06/28/13 23:41	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	10.9	1.7	1	06/27/13 00:00	06/28/13 23:41	117-81-7	
Fluoranthene	ND	ug/L	10.9	1.6	1	06/27/13 00:00	06/28/13 23:41	206-44-0	
Fluorene	ND	ug/L	10.9	1.4	1	06/27/13 00:00	06/28/13 23:41	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.9	1.3	1	06/27/13 00:00	06/28/13 23:41	87-68-3	
Hexachlorobenzene	ND	ug/L	10.9	1.5	1	06/27/13 00:00	06/28/13 23:41	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.9	1.8	1	06/27/13 00:00	06/28/13 23:41	77-47-4	
Hexachloroethane	ND	ug/L	10.9	1.4	1	06/27/13 00:00	06/28/13 23:41	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.9	1.5	1	06/27/13 00:00	06/28/13 23:41	193-39-5	
Isophorone	ND	ug/L	10.9	1.3	1	06/27/13 00:00	06/28/13 23:41	78-59-1	
2-Methylnaphthalene	ND	ug/L	10.9	1.4	1	06/27/13 00:00	06/28/13 23:41	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	10.9	0.92	1	06/27/13 00:00	06/28/13 23:41	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.9	0.85	1	06/27/13 00:00	06/28/13 23:41		
Naphthalene	**11.9**	ug/L	10.9	1.4	1	06/27/13 00:00	06/28/13 23:41	91-20-3	
2-Nitroaniline	ND	ug/L	54.3	1.1	1	06/27/13 00:00	06/28/13 23:41	88-74-4	
3-Nitroaniline	ND	ug/L	54.3	1.6	1	06/27/13 00:00	06/28/13 23:41	99-09-2	
4-Nitroaniline	ND	ug/L	54.3	1.6	1	06/27/13 00:00	06/28/13 23:41	100-01-6	
Nitrobenzene	ND	ug/L	10.9	1.2	1	06/27/13 00:00	06/28/13 23:41	98-95-3	
2-Nitrophenol	ND	ug/L	10.9	1.2	1	06/27/13 00:00	06/28/13 23:41	88-75-5	
4-Nitrophenol	ND	ug/L	54.3	0.62	1	06/27/13 00:00	06/28/13 23:41	100-02-7	
N-Nitroso-di-n-propylamine	ND	ug/L	10.9	1.2	1	06/27/13 00:00	06/28/13 23:41	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.9	1.5	1	06/27/13 00:00	06/28/13 23:41	86-30-6	
Pentachlorophenol	ND	ug/L	54.3	1.1	1	06/27/13 00:00	06/28/13 23:41	87-86-5	
Phenanthrene	ND	ug/L	10.9	1.5	1	06/27/13 00:00	06/28/13 23:41	85-01-8	
Phenol	**34.8**	ug/L	10.9	5.4	1	06/27/13 00:00	06/28/13 23:41	108-95-2	
Pyrene	ND	ug/L	10.9	1.6	1	06/27/13 00:00	06/28/13 23:41	129-00-0	
Pyridine	ND	ug/L	10.9	1.0	1	06/27/13 00:00	06/28/13 23:41	110-86-1	
1,2,4-Trichlorobenzene	ND	ug/L	10.9	1.4	1	06/27/13 00:00	06/28/13 23:41	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	54.3	1.5	1	06/27/13 00:00	06/28/13 23:41	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.9	1.3	1	06/27/13 00:00	06/28/13 23:41	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	66	%	10-159		1	06/27/13 00:00	06/28/13 23:41	4165-60-0	
2-Fluorobiphenyl (S)	75	%	15-149		1	06/27/13 00:00	06/28/13 23:41	321-60-8	
Terphenyl-d14 (S)	98	%	25-142		1	06/27/13 00:00	06/28/13 23:41	1718-51-0	
Phenol-d6 (S)	31	%	12-120		1	06/27/13 00:00	06/28/13 23:41	13127-88-3	
2-Fluorophenol (S)	43	%	16-120		1	06/27/13 00:00	06/28/13 23:41	367-12-4	
2,4,6-Tribromophenol (S)	86	%	37-120		1	06/27/13 00:00	06/28/13 23:41	118-79-6	

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(913)599-5665

ANALYTICAL RESULTS

Project: 075006 Wingate Fractioning Pla
Pace Project No.: 60147780

Sample: GW-075006-062413-CM-WMW-2 **Lab ID: 60147558003** Collected: 06/24/13 14:00 Received: 06/25/13 08:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	1000	188	100		07/02/13 14:23	67-64-1	
Benzene	**17200**	ug/L	100	6.0	100		07/02/13 14:23	71-43-2	
Bromobenzene	ND	ug/L	100	10.0	100		07/02/13 14:23	108-86-1	
Bromochloromethane	ND	ug/L	100	15.0	100		07/02/13 14:23	74-97-5	
Bromodichloromethane	ND	ug/L	100	19.0	100		07/02/13 14:23	75-27-4	
Bromoform	ND	ug/L	100	7.0	100		07/02/13 14:23	75-25-2	
Bromomethane	ND	ug/L	500	16.0	100		07/02/13 14:23	74-83-9	
2-Butanone (MEK)	ND	ug/L	1000	59.0	100		07/02/13 14:23	78-93-3	
n-Butylbenzene	ND	ug/L	100	10.0	100		07/02/13 14:23	104-51-8	
sec-Butylbenzene	ND	ug/L	100	5.0	100		07/02/13 14:23	135-98-8	
tert-Butylbenzene	ND	ug/L	100	34.0	100		07/02/13 14:23	98-06-6	
Carbon disulfide	ND	ug/L	500	12.0	100		07/02/13 14:23	75-15-0	
Carbon tetrachloride	ND	ug/L	100	18.0	100		07/02/13 14:23	56-23-5	
Chlorobenzene	ND	ug/L	100	21.0	100		07/02/13 14:23	108-90-7	
Chloroethane	ND	ug/L	100	15.0	100		07/02/13 14:23	75-00-3	
Chloroform	ND	ug/L	100	14.0	100		07/02/13 14:23	67-66-3	
Chloromethane	ND	ug/L	100	8.0	100		07/02/13 14:23	74-87-3	
2-Chlorotoluene	ND	ug/L	100	12.0	100		07/02/13 14:23	95-49-8	
4-Chlorotoluene	ND	ug/L	100	14.0	100		07/02/13 14:23	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	250	59.0	100		07/02/13 14:23	96-12-8	
Dibromochloromethane	ND	ug/L	100	21.0	100		07/02/13 14:23	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	100	17.0	100		07/02/13 14:23	106-93-4	
Dibromomethane	ND	ug/L	100	18.0	100		07/02/13 14:23	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	100	5.0	100		07/02/13 14:23	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	100	7.0	100		07/02/13 14:23	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	100	6.0	100		07/02/13 14:23	106-46-7	
Dichlorodifluoromethane	ND	ug/L	100	21.0	100		07/02/13 14:23	75-71-8	
1,1-Dichloroethane	ND	ug/L	100	5.0	100		07/02/13 14:23	75-34-3	
1,2-Dichloroethane	**632**	ug/L	100	12.0	100		07/02/13 14:23	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	100	28.0	100		07/02/13 14:23	540-59-0	
1,1-Dichloroethene	ND	ug/L	100	20.0	100		07/02/13 14:23	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	100	8.0	100		07/02/13 14:23	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	100	20.0	100		07/02/13 14:23	156-60-5	
1,2-Dichloropropane	ND	ug/L	100	16.0	100		07/02/13 14:23	78-87-5	
1,3-Dichloropropane	ND	ug/L	100	17.0	100		07/02/13 14:23	142-28-9	
2,2-Dichloropropane	ND	ug/L	100	19.0	100		07/02/13 14:23	594-20-7	
1,1-Dichloropropene	ND	ug/L	100	9.0	100		07/02/13 14:23	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	100	14.0	100		07/02/13 14:23	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	100	12.0	100		07/02/13 14:23	10061-02-6	
Ethylbenzene	ND	ug/L	100	18.0	100		07/02/13 14:23	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	100	18.0	100		07/02/13 14:23	87-68-3	
2-Hexanone	ND	ug/L	1000	119	100		07/02/13 14:23	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	100	7.0	100		07/02/13 14:23	98-82-8	
p-Isopropyltoluene	ND	ug/L	100	10.0	100		07/02/13 14:23	99-87-6	
Methylene chloride	ND	ug/L	100	15.0	100		07/02/13 14:23	75-09-2	

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ANALYTICAL RESULTS

Project: 075006 Wingate Fractioning Pla
Pace Project No.: 60147780

Sample: GW-075006-062413-CM-WMW-2 **Lab ID: 60147558003** Collected: 06/24/13 14:00 Received: 06/25/13 08:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
4-Methyl-2-pentanone (MIBK)	ND	ug/L	1000	42.0	100		07/02/13 14:23	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	100	6.0	100		07/02/13 14:23	1634-04-4	
Naphthalene	ND	ug/L	1000	16.0	100		07/02/13 14:23	91-20-3	
n-Propylbenzene	ND	ug/L	100	10.0	100		07/02/13 14:23	103-65-1	
Styrene	ND	ug/L	100	12.0	100		07/02/13 14:23	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	100	15.0	100		07/02/13 14:23	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	100	15.0	100		07/02/13 14:23	79-34-5	
Tetrachloroethene	ND	ug/L	100	10.0	100		07/02/13 14:23	127-18-4	
Toluene	**155**	ug/L	100	17.0	100		07/02/13 14:23	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	100	12.0	100		07/02/13 14:23	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	100	10.0	100		07/02/13 14:23	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	100	11.0	100		07/02/13 14:23	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	100	20.0	100		07/02/13 14:23	79-00-5	
Trichloroethene	ND	ug/L	100	17.0	100		07/02/13 14:23	79-01-6	
Trichlorofluoromethane	ND	ug/L	100	34.0	100		07/02/13 14:23	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	250	19.0	100		07/02/13 14:23	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	100	9.0	100		07/02/13 14:23	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	100	10.0	100		07/02/13 14:23	108-67-8	
Vinyl chloride	ND	ug/L	100	13.0	100		07/02/13 14:23	75-01-4	
Xylene (Total)	**466**	ug/L	300	42.0	100		07/02/13 14:23	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	80-120		100		07/02/13 14:23	460-00-4	
Dibromofluoromethane (S)	100	%	80-120		100		07/02/13 14:23	1868-53-7	
1,2-Dichloroethane-d4 (S)	102	%	80-120		100		07/02/13 14:23	17060-07-0	
Toluene-d8 (S)	100	%	80-120		100		07/02/13 14:23	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	100		07/02/13 14:23		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**1670**	mg/L	60.0	3.6	3		07/01/13 15:12		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**2610**	mg/L	5.0	5.0	1		06/29/13 12:05		
9040 pH	Analytical Method: EPA 9040								
pH	**8.2**	Std. Units	0.10	0.10	1		06/26/13 14:20		H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**561**	mg/L	50.0	25.0	50		07/08/13 12:22	16887-00-6	
Sulfate	**5.2**	mg/L	1.0	0.16	1		07/08/13 12:06	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	ND	mg/L	0.10	0.051	1		06/25/13 14:56		

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ANALYTICAL RESULTS

Project: 075006 Wingate Fractioning Pla
Pace Project No.: 60147780

Sample: GW-075006-062413-CM-WMW-1 **Lab ID: 60147558004** Collected: 06/24/13 15:10 Received: 06/25/13 08:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Arsenic, Dissolved	ND	ug/L	10.0	4.6	1	06/25/13 13:45	07/01/13 16:56	7440-38-2	
Barium, Dissolved	**29.2**	ug/L	10.0	0.40	1	06/25/13 13:45	07/01/13 16:56	7440-39-3	
Cadmium, Dissolved	ND	ug/L	5.0	2.5	1	06/25/13 13:45	07/01/13 16:56	7440-43-9	
Calcium, Dissolved	**254000**	ug/L	1000	104	10	06/25/13 13:45	07/03/13 11:25	7440-70-2	
Chromium, Dissolved	ND	ug/L	5.0	0.62	1	06/25/13 13:45	07/01/13 16:56	7440-47-3	
Lead, Dissolved	ND	ug/L	5.0	2.4	1	06/25/13 13:45	07/01/13 16:56	7439-92-1	
Selenium, Dissolved	ND	ug/L	15.0	4.2	1	06/25/13 13:45	07/01/13 16:56	7782-49-2	
Silver, Dissolved	ND	ug/L	7.0	1.1	1	06/25/13 13:45	07/01/13 16:56	7440-22-4	
Sodium, Dissolved	**852000**	ug/L	10000	434	20	06/25/13 13:45	07/03/13 14:27	7440-23-5	
7470 Mercury, Dissolved	Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury, Dissolved	ND	ug/L	0.20	0.14	1	06/26/13 10:30	06/26/13 14:57	7439-97-6	
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Acenaphthene	ND	ug/L	10.5	1.3	1	06/27/13 00:00	06/29/13 00:02	83-32-9	
Acenaphthylene	ND	ug/L	10.5	1.3	1	06/27/13 00:00	06/29/13 00:02	208-96-8	
Anthracene	ND	ug/L	10.5	1.4	1	06/27/13 00:00	06/29/13 00:02	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.5	1.5	1	06/27/13 00:00	06/29/13 00:02	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.5	1.7	1	06/27/13 00:00	06/29/13 00:02	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.5	1.6	1	06/27/13 00:00	06/29/13 00:02	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.5	1.5	1	06/27/13 00:00	06/29/13 00:02	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.5	1.7	1	06/27/13 00:00	06/29/13 00:02	207-08-9	
Benzoic acid	ND	ug/L	52.6	26.3	1	06/27/13 00:00	06/29/13 00:02	65-85-0	
Benzyl alcohol	ND	ug/L	21.1	0.94	1	06/27/13 00:00	06/29/13 00:02	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.5	1.3	1	06/27/13 00:00	06/29/13 00:02	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.5	1.5	1	06/27/13 00:00	06/29/13 00:02	85-68-7	
Carbazole	ND	ug/L	10.5	1.5	1	06/27/13 00:00	06/29/13 00:02	86-74-8	
4-Chloro-3-methylphenol	ND	ug/L	21.1	1.3	1	06/27/13 00:00	06/29/13 00:02	59-50-7	
4-Chloroaniline	ND	ug/L	21.1	1.8	1	06/27/13 00:00	06/29/13 00:02	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.5	1.4	1	06/27/13 00:00	06/29/13 00:02	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.5	1.3	1	06/27/13 00:00	06/29/13 00:02	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	10.5	1.1	1	06/27/13 00:00	06/29/13 00:02	39638-32-9	
2-Chloronaphthalene	ND	ug/L	10.5	1.3	1	06/27/13 00:00	06/29/13 00:02	91-58-7	
2-Chlorophenol	ND	ug/L	10.5	1.1	1	06/27/13 00:00	06/29/13 00:02	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.5	1.4	1	06/27/13 00:00	06/29/13 00:02	7005-72-3	
Chrysene	ND	ug/L	10.5	1.6	1	06/27/13 00:00	06/29/13 00:02	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.5	1.6	1	06/27/13 00:00	06/29/13 00:02	53-70-3	
Dibenzofuran	ND	ug/L	10.5	1.3	1	06/27/13 00:00	06/29/13 00:02	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.5	1.2	1	06/27/13 00:00	06/29/13 00:02	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.5	1.1	1	06/27/13 00:00	06/29/13 00:02	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.5	1.1	1	06/27/13 00:00	06/29/13 00:02	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	21.1	2.6	1	06/27/13 00:00	06/29/13 00:02	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.5	1.1	1	06/27/13 00:00	06/29/13 00:02	120-83-2	
Diethylphthalate	ND	ug/L	10.5	1.3	1	06/27/13 00:00	06/29/13 00:02	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.5	1.2	1	06/27/13 00:00	06/29/13 00:02	105-67-9	

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ANALYTICAL RESULTS

Project: 075006 Wingate Fractioning Pla
Pace Project No.: 60147780

Sample: GW-075006-062413-CM-WMW-1 **Lab ID: 60147558004** Collected: 06/24/13 15:10 Received: 06/25/13 08:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic	Analytical Method: EPA 8270 Preparation Method: EPA 3510								
Dimethylphthalate	ND	ug/L	10.5	1.3	1	06/27/13 00:00	06/29/13 00:02	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.5	1.5	1	06/27/13 00:00	06/29/13 00:02	84-74-2	
4,6-Dinitro-2-methylphenol	ND	ug/L	52.6	1.1	1	06/27/13 00:00	06/29/13 00:02	534-52-1	
2,4-Dinitrophenol	ND	ug/L	52.6	0.53	1	06/27/13 00:00	06/29/13 00:02	51-28-5	
2,4-Dinitrotoluene	ND	ug/L	10.5	1.3	1	06/27/13 00:00	06/29/13 00:02	121-14-2	
2,6-Dinitrotoluene	ND	ug/L	10.5	1.3	1	06/27/13 00:00	06/29/13 00:02	606-20-2	
Di-n-octylphthalate	ND	ug/L	10.5	1.9	1	06/27/13 00:00	06/29/13 00:02	117-84-0	
bis(2-Ethylhexyl)phthalate	ND	ug/L	10.5	1.7	1	06/27/13 00:00	06/29/13 00:02	117-81-7	
Fluoranthene	ND	ug/L	10.5	1.6	1	06/27/13 00:00	06/29/13 00:02	206-44-0	
Fluorene	ND	ug/L	10.5	1.4	1	06/27/13 00:00	06/29/13 00:02	86-73-7	
Hexachloro-1,3-butadiene	ND	ug/L	10.5	1.2	1	06/27/13 00:00	06/29/13 00:02	87-68-3	
Hexachlorobenzene	ND	ug/L	10.5	1.5	1	06/27/13 00:00	06/29/13 00:02	118-74-1	
Hexachlorocyclopentadiene	ND	ug/L	10.5	1.7	1	06/27/13 00:00	06/29/13 00:02	77-47-4	
Hexachloroethane	ND	ug/L	10.5	1.3	1	06/27/13 00:00	06/29/13 00:02	67-72-1	
Indeno(1,2,3-cd)pyrene	ND	ug/L	10.5	1.4	1	06/27/13 00:00	06/29/13 00:02	193-39-5	
Isophorone	ND	ug/L	10.5	1.2	1	06/27/13 00:00	06/29/13 00:02	78-59-1	
2-Methylnaphthalene	ND	ug/L	10.5	1.4	1	06/27/13 00:00	06/29/13 00:02	91-57-6	
2-Methylphenol(o-Cresol)	ND	ug/L	10.5	0.89	1	06/27/13 00:00	06/29/13 00:02	95-48-7	
3&4-Methylphenol(m&p Cresol)	ND	ug/L	10.5	0.82	1	06/27/13 00:00	06/29/13 00:02		
Naphthalene	ND	ug/L	10.5	1.3	1	06/27/13 00:00	06/29/13 00:02	91-20-3	
2-Nitroaniline	ND	ug/L	52.6	1.1	1	06/27/13 00:00	06/29/13 00:02	88-74-4	
3-Nitroaniline	ND	ug/L	52.6	1.5	1	06/27/13 00:00	06/29/13 00:02	99-09-2	
4-Nitroaniline	ND	ug/L	52.6	1.5	1	06/27/13 00:00	06/29/13 00:02	100-01-6	
Nitrobenzene	ND	ug/L	10.5	1.2	1	06/27/13 00:00	06/29/13 00:02	98-95-3	
2-Nitrophenol	ND	ug/L	10.5	1.1	1	06/27/13 00:00	06/29/13 00:02	88-75-5	
4-Nitrophenol	ND	ug/L	52.6	0.60	1	06/27/13 00:00	06/29/13 00:02	100-02-7	
N-Nitroso-di-n-propylamine	ND	ug/L	10.5	1.2	1	06/27/13 00:00	06/29/13 00:02	621-64-7	
N-Nitrosodiphenylamine	ND	ug/L	10.5	1.5	1	06/27/13 00:00	06/29/13 00:02	86-30-6	
Pentachlorophenol	ND	ug/L	52.6	1.1	1	06/27/13 00:00	06/29/13 00:02	87-86-5	
Phenanthrene	ND	ug/L	10.5	1.5	1	06/27/13 00:00	06/29/13 00:02	85-01-8	
Phenol	ND	ug/L	10.5	5.3	1	06/27/13 00:00	06/29/13 00:02	108-95-2	
Pyrene	ND	ug/L	10.5	1.5	1	06/27/13 00:00	06/29/13 00:02	129-00-0	
Pyridine	ND	ug/L	10.5	0.97	1	06/27/13 00:00	06/29/13 00:02	110-86-1	
1,2,4-Trichlorobenzene	ND	ug/L	10.5	1.3	1	06/27/13 00:00	06/29/13 00:02	120-82-1	
2,4,5-Trichlorophenol	ND	ug/L	52.6	1.4	1	06/27/13 00:00	06/29/13 00:02	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	10.5	1.2	1	06/27/13 00:00	06/29/13 00:02	88-06-2	
Surrogates									
Nitrobenzene-d5 (S)	74	%	10-159		1	06/27/13 00:00	06/29/13 00:02	4165-60-0	
2-Fluorobiphenyl (S)	81	%	15-149		1	06/27/13 00:00	06/29/13 00:02	321-60-8	
Terphenyl-d14 (S)	84	%	25-142		1	06/27/13 00:00	06/29/13 00:02	1718-51-0	
Phenol-d6 (S)	28	%	12-120		1	06/27/13 00:00	06/29/13 00:02	13127-88-3	
2-Fluorophenol (S)	42	%	16-120		1	06/27/13 00:00	06/29/13 00:02	367-12-4	
2,4,6-Tribromophenol (S)	82	%	37-120		1	06/27/13 00:00	06/29/13 00:02	118-79-6	

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ANALYTICAL RESULTS

Project: 075006 Wingate Fractioning Pla
Pace Project No.: 60147780

Sample: GW-075006-062413-CM-WMW-1 **Lab ID: 60147558004** Collected: 06/24/13 15:10 Received: 06/25/13 08:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Acetone	ND	ug/L	10.0	1.9	1		07/02/13 14:38	67-64-1	
Benzene	ND	ug/L	1.0	0.060	1		07/02/13 14:38	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.10	1		07/02/13 14:38	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.15	1		07/02/13 14:38	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.19	1		07/02/13 14:38	75-27-4	
Bromoform	ND	ug/L	1.0	0.070	1		07/02/13 14:38	75-25-2	
Bromomethane	ND	ug/L	5.0	0.16	1		07/02/13 14:38	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	0.59	1		07/02/13 14:38	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	0.10	1		07/02/13 14:38	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.050	1		07/02/13 14:38	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.34	1		07/02/13 14:38	98-06-6	
Carbon disulfide	ND	ug/L	5.0	0.12	1		07/02/13 14:38	75-15-0	
Carbon tetrachloride	ND	ug/L	1.0	0.18	1		07/02/13 14:38	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.21	1		07/02/13 14:38	108-90-7	
Chloroethane	ND	ug/L	1.0	0.15	1		07/02/13 14:38	75-00-3	
Chloroform	ND	ug/L	1.0	0.14	1		07/02/13 14:38	67-66-3	
Chloromethane	ND	ug/L	1.0	0.080	1		07/02/13 14:38	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.12	1		07/02/13 14:38	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.14	1		07/02/13 14:38	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	2.5	0.59	1		07/02/13 14:38	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.21	1		07/02/13 14:38	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.17	1		07/02/13 14:38	106-93-4	
Dibromomethane	ND	ug/L	1.0	0.18	1		07/02/13 14:38	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.050	1		07/02/13 14:38	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.070	1		07/02/13 14:38	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.060	1		07/02/13 14:38	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.21	1		07/02/13 14:38	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.050	1		07/02/13 14:38	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.12	1		07/02/13 14:38	107-06-2	
1,2-Dichloroethene (Total)	ND	ug/L	1.0	0.28	1		07/02/13 14:38	540-59-0	
1,1-Dichloroethene	ND	ug/L	1.0	0.20	1		07/02/13 14:38	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.080	1		07/02/13 14:38	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.20	1		07/02/13 14:38	156-60-5	
1,2-Dichloropropane	ND	ug/L	1.0	0.16	1		07/02/13 14:38	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.17	1		07/02/13 14:38	142-28-9	
2,2-Dichloropropane	ND	ug/L	1.0	0.19	1		07/02/13 14:38	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.090	1		07/02/13 14:38	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	1.0	0.14	1		07/02/13 14:38	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	0.12	1		07/02/13 14:38	10061-02-6	
Ethylbenzene	ND	ug/L	1.0	0.18	1		07/02/13 14:38	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.18	1		07/02/13 14:38	87-68-3	
2-Hexanone	ND	ug/L	10.0	1.2	1		07/02/13 14:38	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.070	1		07/02/13 14:38	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.10	1		07/02/13 14:38	99-87-6	
Methylene chloride	ND	ug/L	1.0	0.15	1		07/02/13 14:38	75-09-2	

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ANALYTICAL RESULTS

Project: 075006 Wingate Fractioning Pla
Pace Project No.: 60147780

Sample: GW-075006-062413-CM-WMW-1 **Lab ID: 60147558004** Collected: 06/24/13 15:10 Received: 06/25/13 08:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	0.42	1		07/02/13 14:38	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.060	1		07/02/13 14:38	1634-04-4	
Naphthalene	ND	ug/L	10.0	0.16	1		07/02/13 14:38	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.10	1		07/02/13 14:38	103-65-1	
Styrene	ND	ug/L	1.0	0.12	1		07/02/13 14:38	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		07/02/13 14:38	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.15	1		07/02/13 14:38	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.10	1		07/02/13 14:38	127-18-4	
Toluene	ND	ug/L	1.0	0.17	1		07/02/13 14:38	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.12	1		07/02/13 14:38	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.10	1		07/02/13 14:38	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.11	1		07/02/13 14:38	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.20	1		07/02/13 14:38	79-00-5	
Trichloroethene	ND	ug/L	1.0	0.17	1		07/02/13 14:38	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.34	1		07/02/13 14:38	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	2.5	0.19	1		07/02/13 14:38	96-18-4	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.090	1		07/02/13 14:38	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.10	1		07/02/13 14:38	108-67-8	
Vinyl chloride	ND	ug/L	1.0	0.13	1		07/02/13 14:38	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.42	1		07/02/13 14:38	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	80-120		1		07/02/13 14:38	460-00-4	
Dibromofluoromethane (S)	100	%	80-120		1		07/02/13 14:38	1868-53-7	
1,2-Dichloroethane-d4 (S)	107	%	80-120		1		07/02/13 14:38	17060-07-0	
Toluene-d8 (S)	99	%	80-120		1		07/02/13 14:38	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		07/02/13 14:38		
2320B Alkalinity	Analytical Method: SM 2320B								
Alkalinity, Total as CaCO3	**671**	mg/L	20.0	1.2	1		07/01/13 14:49		
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**3530**	mg/L	5.0	5.0	1		06/29/13 12:06		
9040 pH	Analytical Method: EPA 9040								
pH	**7.4**	Std. Units	0.10	0.10	1		06/26/13 14:20		H6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Chloride	**418**	mg/L	50.0	25.0	50		07/08/13 12:38	16887-00-6	
Sulfate	**1640**	mg/L	200	32.0	200		07/08/13 12:55	14808-79-8	
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 353.2								
Nitrogen, Nitrate	ND	mg/L	0.10	0.051	1		06/25/13 14:58		

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ANALYTICAL RESULTS

Project: 075006 Wingate Fractioning Pla
Pace Project No.: 60147780

Sample: GW-075006-062413-CM-DUP **Lab ID: 60147558005** Collected: 06/24/13 14:05 Received: 06/25/13 08:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Benzene	**18100**	ug/L	200	12.0	200		07/03/13 13:06	71-43-2	
Ethylbenzene	ND	ug/L	200	36.0	200		07/03/13 13:06	100-41-4	
Naphthalene	ND	ug/L	2000	32.0	200		07/03/13 13:06	91-20-3	
Toluene	**243**	ug/L	200	34.0	200		07/03/13 13:06	108-88-3	
Xylene (Total)	ND	ug/L	600	84.0	200		07/03/13 13:06	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	80-120		200		07/03/13 13:06	460-00-4	
Dibromofluoromethane (S)	98	%	80-120		200		07/03/13 13:06	1868-53-7	
1,2-Dichloroethane-d4 (S)	99	%	80-120		200		07/03/13 13:06	17060-07-0	
Toluene-d8 (S)	101	%	80-120		200		07/03/13 13:06	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	200		07/03/13 13:06		

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ANALYTICAL RESULTS

Project: 075006 Wingate Fractioning Pla
Pace Project No.: 60147780

Sample: TB-075006-062413-CM-001 **Lab ID: 60147558006** Collected: 06/24/13 15:30 Received: 06/25/13 08:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260								
Benzene	ND	ug/L	1.0	0.060	1		07/02/13 22:03	71-43-2	
Ethylbenzene	ND	ug/L	1.0	0.18	1		07/02/13 22:03	100-41-4	
Naphthalene	ND	ug/L	10.0	0.16	1		07/02/13 22:03	91-20-3	
Toluene	ND	ug/L	1.0	0.17	1		07/02/13 22:03	108-88-3	
Xylene (Total)	ND	ug/L	3.0	0.42	1		07/02/13 22:03	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	80-120		1		07/02/13 22:03	460-00-4	
Dibromofluoromethane (S)	101	%	80-120		1		07/02/13 22:03	1868-53-7	
1,2-Dichloroethane-d4 (S)	102	%	80-120		1		07/02/13 22:03	17060-07-0	
Toluene-d8 (S)	99	%	80-120		1		07/02/13 22:03	2037-26-5	
Preservation pH	**1.0**		0.10	0.10	1		07/02/13 22:03		

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QUALITY CONTROL DATA

Project: 075006 Wingate Fractioning Pla
Pace Project No.: 60147780

QC Batch: MERP/7477 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury ,Dissolved
Associated Lab Samples: 60147780001, 60147780002, 60147780003, 60147780004

METHOD BLANK: 1214530 Matrix: Water
Associated Lab Samples: 60147780001, 60147780002, 60147780003, 60147780004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	ND	0.20	07/03/13 12:06	

LABORATORY CONTROL SAMPLE: 1214531

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.7	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1214532 1214533

Parameter	Units	60147780001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury, Dissolved	ug/L	ND	5	5	2.3	2.5	45	49	75-125	8	20	M1

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QUALITY CONTROL DATA

Project: 075006 Wingate Fractioning Pla
Pace Project No.: 60147780

QC Batch: MPRP/23273 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET Dissolved
Associated Lab Samples: 60147780001, 60147780002, 60147780003, 60147780004

METHOD BLANK: 1212005 Matrix: Water
Associated Lab Samples: 60147780001, 60147780002, 60147780003, 60147780004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic, Dissolved	ug/L	ND	10.0	07/10/13 11:06	
Barium, Dissolved	ug/L	ND	10.0	07/10/13 11:06	
Cadmium, Dissolved	ug/L	ND	5.0	07/10/13 11:06	
Calcium, Dissolved	ug/L	ND	100	07/11/13 11:22	
Chromium, Dissolved	ug/L	ND	5.0	07/10/13 11:06	
Lead, Dissolved	ug/L	ND	5.0	07/10/13 11:06	
Selenium, Dissolved	ug/L	ND	15.0	07/10/13 11:06	
Silver, Dissolved	ug/L	ND	7.0	07/10/13 11:06	
Sodium, Dissolved	ug/L	ND	500	07/10/13 11:06	

LABORATORY CONTROL SAMPLE: 1212006

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	ug/L	1000	986	99	80-120	
Barium, Dissolved	ug/L	1000	1020	102	80-120	
Cadmium, Dissolved	ug/L	1000	1000	100	80-120	
Calcium, Dissolved	ug/L	10000	9780	98	80-120	
Chromium, Dissolved	ug/L	1000	994	99	80-120	
Lead, Dissolved	ug/L	1000	1030	103	80-120	
Selenium, Dissolved	ug/L	1000	1040	104	80-120	
Silver, Dissolved	ug/L	500	492	98	80-120	
Sodium, Dissolved	ug/L	10000	10600	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1212007 1212008

Parameter	Units	60147780001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic, Dissolved	ug/L	ND	1000	1000	1090	1070	108	107	75-125	1	20	
Barium, Dissolved	ug/L	22.7	1000	1000	1020	1010	100	98	75-125	2	20	
Cadmium, Dissolved	ug/L	ND	1000	1000	1070	1060	107	106	75-125	1	20	
Calcium, Dissolved	ug/L	87300	10000	10000	96200	97600	89	103	75-125	1	20	
Chromium, Dissolved	ug/L	ND	1000	1000	986	970	98	97	75-125	2	20	
Lead, Dissolved	ug/L	ND	1000	1000	912	901	91	90	75-125	1	20	
Selenium, Dissolved	ug/L	ND	1000	1000	1140	1120	114	112	75-125	1	20	
Silver, Dissolved	ug/L	ND	500	500	556	549	111	109	75-125	1	20	
Sodium, Dissolved	ug/L	1610000	10000	10000	1540000	1600000	-715	-80	75-125	4	20	M1

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QUALITY CONTROL DATA

Project: 075006 Wingate Fractioning Pla
Pace Project No.: 60147780

QC Batch: MSV/54679 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60147558001, 60147558002, 60147558003, 60147558004

METHOD BLANK: 1214474 Matrix: Water
Associated Lab Samples: 60147558001, 60147558002, 60147558003, 60147558004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane-d4 (S)	%	104	80-120	07/02/13 09:42	
4-Bromofluorobenzene (S)	%	97	80-120	07/02/13 09:42	
Dibromofluoromethane (S)	%	101	80-120	07/02/13 09:42	
Toluene-d8 (S)	%	99	80-120	07/02/13 09:42	

LABORATORY CONTROL SAMPLE: 1214475

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane-d4 (S)	%			103	80-120	
4-Bromofluorobenzene (S)	%			101	80-120	
Dibromofluoromethane (S)	%			99	80-120	
Toluene-d8 (S)	%			98	80-120	

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QUALITY CONTROL DATA

Project: 075006 Wingate Fractioning Pla
Pace Project No.: 60147780

QC Batch: MSV/54682
QC Batch Method: EPA 5030B/8260
Analysis Method: EPA 5030B/8260
Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60147558006

METHOD BLANK: 1214588
Matrix: Water
Associated Lab Samples: 60147558006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane-d4 (S)	%	99	80-120	07/02/13 21:48	
4-Bromofluorobenzene (S)	%	99	80-120	07/02/13 21:48	
Dibromofluoromethane (S)	%	98	80-120	07/02/13 21:48	
Toluene-d8 (S)	%	101	80-120	07/02/13 21:48	

LABORATORY CONTROL SAMPLE: 1214589

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane-d4 (S)	%			97	80-120	
4-Bromofluorobenzene (S)	%			101	80-120	
Dibromofluoromethane (S)	%			96	80-120	
Toluene-d8 (S)	%			101	80-120	

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QUALITY CONTROL DATA

Project: 075006 Wingate Fractioning Pla
Pace Project No.: 60147780

QC Batch: MSV/54707
QC Batch Method: EPA 5030B/8260
Analysis Method: EPA 5030B/8260
Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60147558005

METHOD BLANK: 1215174 Matrix: Water
Associated Lab Samples: 60147558005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane-d4 (S)	%	104	80-120	07/03/13 10:09	
4-Bromofluorobenzene (S)	%	99	80-120	07/03/13 10:09	
Dibromofluoromethane (S)	%	102	80-120	07/03/13 10:09	
Toluene-d8 (S)	%	98	80-120	07/03/13 10:09	

LABORATORY CONTROL SAMPLE: 1215175

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane-d4 (S)	%			102	80-120	
4-Bromofluorobenzene (S)	%			99	80-120	
Dibromofluoromethane (S)	%			101	80-120	
Toluene-d8 (S)	%			100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1215177 1215178

Parameter	Units	60147656004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethane-d4 (S)	%						105	102	80-120			
4-Bromofluorobenzene (S)	%						98	99	80-120			
Dibromofluoromethane (S)	%						102	101	80-120			
Toluene-d8 (S)	%						100	99	80-120			

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QUALITY CONTROL DATA

Project: 075006 Wingate Fractioning Pla
Pace Project No.: 60147780

QC Batch: MSV/54757 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 60147780001, 60147780002, 60147780003, 60147780004, 60147780005, 60147780006

METHOD BLANK: 1216107 Matrix: Water
Associated Lab Samples: 60147780001, 60147780002, 60147780003, 60147780004, 60147780005, 60147780006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	07/05/13 21:37	
1,1,1-Trichloroethane	ug/L	ND	1.0	07/05/13 21:37	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	07/05/13 21:37	
1,1,2-Trichloroethane	ug/L	ND	1.0	07/05/13 21:37	
1,1-Dichloroethane	ug/L	ND	1.0	07/05/13 21:37	
1,1-Dichloroethene	ug/L	ND	1.0	07/05/13 21:37	
1,1-Dichloropropene	ug/L	ND	1.0	07/05/13 21:37	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	07/05/13 21:37	
1,2,3-Trichloropropane	ug/L	ND	2.5	07/05/13 21:37	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	07/05/13 21:37	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	07/05/13 21:37	
1,2-Dibromo-3-chloropropane	ug/L	ND	2.5	07/05/13 21:37	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	07/05/13 21:37	
1,2-Dichlorobenzene	ug/L	ND	1.0	07/05/13 21:37	
1,2-Dichloroethane	ug/L	ND	1.0	07/05/13 21:37	
1,2-Dichloroethene (Total)	ug/L	ND	1.0	07/05/13 21:37	
1,2-Dichloropropane	ug/L	ND	1.0	07/05/13 21:37	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	07/05/13 21:37	
1,3-Dichlorobenzene	ug/L	ND	1.0	07/05/13 21:37	
1,3-Dichloropropane	ug/L	ND	1.0	07/05/13 21:37	
1,4-Dichlorobenzene	ug/L	ND	1.0	07/05/13 21:37	
2,2-Dichloropropane	ug/L	ND	1.0	07/05/13 21:37	
2-Butanone (MEK)	ug/L	ND	10.0	07/05/13 21:37	
2-Chlorotoluene	ug/L	ND	1.0	07/05/13 21:37	
2-Hexanone	ug/L	ND	10.0	07/05/13 21:37	
4-Chlorotoluene	ug/L	ND	1.0	07/05/13 21:37	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	07/05/13 21:37	
Acetone	ug/L	ND	10.0	07/05/13 21:37	
Benzene	ug/L	ND	1.0	07/05/13 21:37	
Bromobenzene	ug/L	ND	1.0	07/05/13 21:37	
Bromochloromethane	ug/L	ND	1.0	07/05/13 21:37	
Bromodichloromethane	ug/L	ND	1.0	07/05/13 21:37	
Bromoform	ug/L	ND	1.0	07/05/13 21:37	
Bromomethane	ug/L	ND	5.0	07/05/13 21:37	
Carbon disulfide	ug/L	ND	5.0	07/05/13 21:37	
Carbon tetrachloride	ug/L	ND	1.0	07/05/13 21:37	
Chlorobenzene	ug/L	ND	1.0	07/05/13 21:37	
Chloroethane	ug/L	ND	1.0	07/05/13 21:37	
Chloroform	ug/L	ND	1.0	07/05/13 21:37	
Chloromethane	ug/L	ND	1.0	07/05/13 21:37	
cis-1,2-Dichloroethene	ug/L	ND	1.0	07/05/13 21:37	
cis-1,3-Dichloropropene	ug/L	ND	1.0	07/05/13 21:37	
Dibromochloromethane	ug/L	ND	1.0	07/05/13 21:37	

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QUALITY CONTROL DATA

Project: 075006 Wingate Fractioning Pla
Pace Project No.: 60147780

METHOD BLANK: 1216107 Matrix: Water

Associated Lab Samples: 60147780001, 60147780002, 60147780003, 60147780004, 60147780005, 60147780006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	ND	1.0	07/05/13 21:37	
Dichlorodifluoromethane	ug/L	ND	1.0	07/05/13 21:37	
Ethylbenzene	ug/L	ND	1.0	07/05/13 21:37	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	07/05/13 21:37	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	07/05/13 21:37	
Methyl-tert-butyl ether	ug/L	ND	1.0	07/05/13 21:37	
Methylene chloride	ug/L	ND	1.0	07/05/13 21:37	
n-Butylbenzene	ug/L	ND	1.0	07/05/13 21:37	
n-Propylbenzene	ug/L	ND	1.0	07/05/13 21:37	
Naphthalene	ug/L	ND	10.0	07/05/13 21:37	
p-Isopropyltoluene	ug/L	ND	1.0	07/05/13 21:37	
sec-Butylbenzene	ug/L	ND	1.0	07/05/13 21:37	
Styrene	ug/L	ND	1.0	07/05/13 21:37	
tert-Butylbenzene	ug/L	ND	1.0	07/05/13 21:37	
Tetrachloroethene	ug/L	ND	1.0	07/05/13 21:37	
Toluene	ug/L	ND	1.0	07/05/13 21:37	
trans-1,2-Dichloroethene	ug/L	ND	1.0	07/05/13 21:37	
trans-1,3-Dichloropropene	ug/L	ND	1.0	07/05/13 21:37	
Trichloroethene	ug/L	ND	1.0	07/05/13 21:37	
Trichlorofluoromethane	ug/L	ND	1.0	07/05/13 21:37	
Vinyl chloride	ug/L	ND	1.0	07/05/13 21:37	
Xylene (Total)	ug/L	ND	3.0	07/05/13 21:37	
1,2-Dichloroethane-d4 (S)	%	98	80-120	07/05/13 21:37	
4-Bromofluorobenzene (S)	%	99	80-120	07/05/13 21:37	
Dibromofluoromethane (S)	%	99	80-120	07/05/13 21:37	
Toluene-d8 (S)	%	100	80-120	07/05/13 21:37	

LABORATORY CONTROL SAMPLE: 1216108

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	22.2	111	79-121	
1,1,1-Trichloroethane	ug/L	20	22.6	113	75-124	
1,1,2,2-Tetrachloroethane	ug/L	20	20.2	101	73-120	
1,1,2-Trichloroethane	ug/L	20	21.0	105	76-120	
1,1-Dichloroethane	ug/L	20	21.2	106	73-120	
1,1-Dichloroethene	ug/L	20	25.7	129	70-127	L0
1,1-Dichloropropene	ug/L	20	21.4	107	79-124	
1,2,3-Trichlorobenzene	ug/L	20	21.9	109	68-130	
1,2,3-Trichloropropane	ug/L	20	21.4	107	72-124	
1,2,4-Trichlorobenzene	ug/L	20	20.8	104	73-125	
1,2,4-Trimethylbenzene	ug/L	20	20.9	105	76-120	
1,2-Dibromo-3-chloropropane	ug/L	20	18.0	90	68-126	
1,2-Dibromoethane (EDB)	ug/L	20	23.1	116	79-121	
1,2-Dichlorobenzene	ug/L	20	21.1	106	79-120	
1,2-Dichloroethane	ug/L	20	21.8	109	72-122	

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QUALITY CONTROL DATA

Project: 075006 Wingate Fractioning Pla
Pace Project No.: 60147780

LABORATORY CONTROL SAMPLE: 1216108

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethene (Total)	ug/L	40	44.5	111	77-120	
1,2-Dichloropropane	ug/L	20	21.1	105	77-120	
1,3,5-Trimethylbenzene	ug/L	20	20.4	102	75-120	
1,3-Dichlorobenzene	ug/L	20	20.3	101	80-120	
1,3-Dichloropropane	ug/L	20	21.4	107	76-120	
1,4-Dichlorobenzene	ug/L	20	21.0	105	80-120	
2,2-Dichloropropane	ug/L	20	18.1	90	52-135	
2-Butanone (MEK)	ug/L	100	96.1	96	69-124	
2-Chlorotoluene	ug/L	20	20.5	103	78-120	
2-Hexanone	ug/L	100	95.2	95	70-125	
4-Chlorotoluene	ug/L	20	21.0	105	80-120	
4-Methyl-2-pentanone (MIBK)	ug/L	100	100	100	72-123	
Acetone	ug/L	100	106	106	60-126	
Benzene	ug/L	20	21.1	106	73-122	
Bromobenzene	ug/L	20	20.9	104	79-120	
Bromochloromethane	ug/L	20	19.6	98	76-125	
Bromodichloromethane	ug/L	20	21.1	105	73-120	
Bromoform	ug/L	20	20.2	101	74-120	
Bromomethane	ug/L	20	14.7	73	40-146	
Carbon disulfide	ug/L	20	19.7	99	62-125	
Carbon tetrachloride	ug/L	20	22.0	110	73-125	
Chlorobenzene	ug/L	20	21.7	108	80-120	
Chloroethane	ug/L	20	19.8	99	56-159	
Chloroform	ug/L	20	21.4	107	76-120	
Chloromethane	ug/L	20	11.7	59	40-148	
cis-1,2-Dichloroethene	ug/L	20	22.1	111	69-120	
cis-1,3-Dichloropropene	ug/L	20	20.6	103	76-120	
Dibromochloromethane	ug/L	20	22.6	113	79-121	
Dibromomethane	ug/L	20	20.9	104	77-120	
Dichlorodifluoromethane	ug/L	20	16.9	84	40-141	
Ethylbenzene	ug/L	20	21.4	107	76-123	
Hexachloro-1,3-butadiene	ug/L	20	20.6	103	69-125	
Isopropylbenzene (Cumene)	ug/L	20	22.9	114	80-130	
Methyl-tert-butyl ether	ug/L	20	21.5	107	67-128	
Methylene chloride	ug/L	20	20.4	102	71-123	
n-Butylbenzene	ug/L	20	20.9	104	77-124	
n-Propylbenzene	ug/L	20	20.0	100	78-120	
Naphthalene	ug/L	20	21.6	108	64-127	
p-Isopropyltoluene	ug/L	20	21.4	107	78-120	
sec-Butylbenzene	ug/L	20	21.3	107	77-122	
Styrene	ug/L	20	21.5	108	79-120	
tert-Butylbenzene	ug/L	20	21.2	106	76-123	
Tetrachloroethene	ug/L	20	22.2	111	79-122	
Toluene	ug/L	20	21.5	107	76-122	
trans-1,2-Dichloroethene	ug/L	20	22.3	112	78-126	
trans-1,3-Dichloropropene	ug/L	20	22.3	112	79-124	
Trichloroethene	ug/L	20	21.4	107	76-120	
Trichlorofluoromethane	ug/L	20	21.7	109	69-133	

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QUALITY CONTROL DATA

Project: 075006 Wingate Fractioning Pla
Pace Project No.: 60147780

LABORATORY CONTROL SAMPLE: 1216108

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vinyl chloride	ug/L	20	18.5	92	57-140	
Xylene (Total)	ug/L	60	66.1	110	76-122	
1,2-Dichloroethane-d4 (S)	%			101	80-120	
4-Bromofluorobenzene (S)	%			97	80-120	
Dibromofluoromethane (S)	%			103	80-120	
Toluene-d8 (S)	%			101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1216109 1216110

Parameter	Units	60147822001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	19.5	20.5	98	102	70-127	5	20	
1,1,1-Trichloroethane	ug/L	ND	20	20	22.4	23.6	112	118	72-139	5	22	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	18.1	18.6	91	93	63-126	2	20	
1,1,2-Trichloroethane	ug/L	ND	20	20	17.9	18.6	89	93	70-121	4	24	
1,1-Dichloroethane	ug/L	ND	20	20	19.7	21.3	98	107	68-125	8	20	
1,1-Dichloroethene	ug/L	ND	20	20	23.5	25.5	118	128	66-142	8	22	
1,1-Dichloropropene	ug/L	ND	20	20	21.0	22.1	105	111	70-144	5	20	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	18.4	20.6	92	103	56-133	11	35	
1,2,3-Trichloropropane	ug/L	ND	20	20	19.1	20.1	95	100	66-123	5	20	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	17.4	18.5	87	92	60-129	6	26	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	18.6	19.4	93	97	51-138	4	25	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	16.2	18.2	81	91	58-130	12	26	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	19.9	21.2	100	106	56-138	6	28	
1,2-Dichlorobenzene	ug/L	ND	20	20	18.5	19.5	93	98	69-123	5	20	
1,2-Dichloroethane	ug/L	ND	20	20	19.2	21.5	96	107	53-144	11	27	
1,2-Dichloroethene (Total)	ug/L	ND	40	40	42.3	44.4	105	111	67-137	5	20	
1,2-Dichloropropane	ug/L	ND	20	20	19.7	20.0	98	100	72-126	1	20	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	18.6	19.4	93	97	51-138	5	25	
1,3-Dichlorobenzene	ug/L	ND	20	20	17.9	19.2	90	96	67-123	7	22	
1,3-Dichloropropane	ug/L	ND	20	20	18.6	19.3	93	97	70-120	4	20	
1,4-Dichlorobenzene	ug/L	ND	20	20	18.3	19.1	91	96	68-125	5	22	
2,2-Dichloropropane	ug/L	ND	20	20	13.0	13.9	65	70	40-150	6	20	
2-Butanone (MEK)	ug/L	ND	100	100	79.3	88.7	79	89	54-127	11	20	
2-Chlorotoluene	ug/L	ND	20	20	18.7	18.8	93	94	68-123	1	20	
2-Hexanone	ug/L	ND	100	100	79.5	85.7	80	86	55-127	8	20	
4-Chlorotoluene	ug/L	ND	20	20	18.7	19.3	93	97	70-124	3	21	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	100	84.3	93.3	84	93	61-127	10	20	
Acetone	ug/L	ND	100	100	87.5	102	88	102	40-139	15	24	
Benzene	ug/L	ND	20	20	20.0	20.5	100	103	48-150	3	31	
Bromobenzene	ug/L	ND	20	20	19.1	19.5	96	98	68-126	2	20	
Bromochloromethane	ug/L	ND	20	20	17.7	18.3	88	91	71-130	3	20	
Bromodichloromethane	ug/L	ND	20	20	19.6	20.7	98	104	66-123	6	20	
Bromoform	ug/L	ND	20	20	17.3	18.0	85	88	64-122	4	21	
Bromomethane	ug/L	ND	20	20	9.7	14.0	49	70	40-146	36	37	
Carbon disulfide	ug/L	ND	20	20	18.3	19.8	91	99	57-137	8	22	
Carbon tetrachloride	ug/L	ND	20	20	22.3	23.8	111	119	68-145	7	20	

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QUALITY CONTROL DATA

Project: 075006 Wingate Fractioning Pla
Pace Project No.: 60147780

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1216109 1216110

Parameter	Units	60147822001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chlorobenzene	ug/L	ND	20	20	19.8	20.5	99	102	68-131	4	22	
Chloroethane	ug/L	ND	20	20	18.5	21.5	93	108	49-160	15	24	
Chloroform	ug/L	ND	20	20	19.8	21.5	99	108	69-126	9	20	
Chloromethane	ug/L	ND	20	20	12.9	8.7	64	43	40-148	39	24	R1
cis-1,2-Dichloroethene	ug/L	ND	20	20	20.8	22.1	103	110	63-127	6	20	
cis-1,3-Dichloropropene	ug/L	ND	20	20	18.0	19.0	90	95	65-121	5	20	
Dibromochloromethane	ug/L	ND	20	20	20.1	20.7	100	103	70-125	3	20	
Dibromomethane	ug/L	ND	20	20	18.4	19.9	92	99	68-125	8	20	
Dichlorodifluoromethane	ug/L	ND	20	20	15.6	16.8	78	84	40-143	8	25	
Ethylbenzene	ug/L	ND	20	20	19.7	20.5	98	102	50-147	4	31	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	18.5	20.3	93	101	56-137	9	27	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	21.1	22.0	106	110	75-143	4	20	
Methyl-tert-butyl ether	ug/L	ND	20	20	18.8	20.4	94	102	46-143	8	29	
Methylene chloride	ug/L	ND	20	20	18.6	19.9	93	100	67-128	7	20	
n-Butylbenzene	ug/L	ND	20	20	18.6	19.7	93	98	61-137	6	21	
n-Propylbenzene	ug/L	ND	20	20	18.8	18.6	94	93	63-132	1	20	
Naphthalene	ug/L	ND	20	20	17.2	18.8	86	94	40-140	9	33	
p-Isopropyltoluene	ug/L	ND	20	20	19.3	20.2	97	101	65-132	5	20	
sec-Butylbenzene	ug/L	ND	20	20	19.8	20.1	99	100	67-134	2	20	
Styrene	ug/L	ND	20	20	18.8	20.0	94	100	58-133	6	21	
tert-Butylbenzene	ug/L	ND	20	20	19.6	20.6	98	103	70-132	5	21	
Tetrachloroethene	ug/L	ND	20	20	20.7	21.3	104	107	66-139	3	20	
Toluene	ug/L	ND	20	20	19.5	20.2	98	101	51-147	3	32	
trans-1,2-Dichloroethene	ug/L	ND	20	20	21.4	22.3	107	111	73-142	4	20	
trans-1,3-Dichloropropene	ug/L	ND	20	20	18.9	19.8	94	99	68-126	5	20	
Trichloroethene	ug/L	ND	20	20	20.0	20.6	99	102	67-130	3	20	
Trichlorofluoromethane	ug/L	ND	20	20	21.7	22.8	109	114	63-150	5	21	
Vinyl chloride	ug/L	ND	20	20	17.1	18.6	85	93	47-159	8	20	
Xylene (Total)	ug/L	ND	60	60	59.2	62.4	99	104	49-145	5	31	
1,2-Dichloroethane-d4 (S)	%						105	106	80-120			
4-Bromofluorobenzene (S)	%						96	95	80-120			
Dibromofluoromethane (S)	%						103	108	80-120			
Toluene-d8 (S)	%						98	99	80-120			
Preservation pH		1.0			1.0	1.0				0		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 075006 Wingate Fractioning Pla
Pace Project No.: 60147780

QC Batch: OEXT/39063 Analysis Method: EPA 8270
QC Batch Method: EPA 3510 Analysis Description: 8270 Water MSSV
Associated Lab Samples: 60147558001, 60147558002, 60147558003, 60147558004

METHOD BLANK: 1211658 Matrix: Water
Associated Lab Samples: 60147558001, 60147558002, 60147558003, 60147558004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
2,4,6-Tribromophenol (S)	%	82	37-120	06/28/13 15:56	
2-Fluorobiphenyl (S)	%	79	15-149	06/28/13 15:56	
2-Fluorophenol (S)	%	45	16-120	06/28/13 15:56	
Nitrobenzene-d5 (S)	%	74	10-159	06/28/13 15:56	
Phenol-d6 (S)	%	28	12-120	06/28/13 15:56	
Terphenyl-d14 (S)	%	80	25-142	06/28/13 15:56	

LABORATORY CONTROL SAMPLE: 1211659

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4,6-Tribromophenol (S)	%			82	37-120	
2-Fluorobiphenyl (S)	%			76	15-149	
2-Fluorophenol (S)	%			44	16-120	
Nitrobenzene-d5 (S)	%			73	10-159	
Phenol-d6 (S)	%			29	12-120	
Terphenyl-d14 (S)	%			85	25-142	

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QUALITY CONTROL DATA

Project: 075006 Wingate Fractioning Pla
Pace Project No.: 60147780

QC Batch: OEXT/39111 Analysis Method: EPA 8270
QC Batch Method: EPA 3510 Analysis Description: 8270 Water MSSV
Associated Lab Samples: 60147780001, 60147780002, 60147780003, 60147780004

METHOD BLANK: 1213968 Matrix: Water
Associated Lab Samples: 60147780001, 60147780002, 60147780003, 60147780004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	10.0	07/02/13 10:11	
1,2-Dichlorobenzene	ug/L	ND	10.0	07/02/13 10:11	
1,3-Dichlorobenzene	ug/L	ND	10.0	07/02/13 10:11	
1,4-Dichlorobenzene	ug/L	ND	10.0	07/02/13 10:11	
2,4,5-Trichlorophenol	ug/L	ND	50.0	07/02/13 10:11	
2,4,6-Trichlorophenol	ug/L	ND	10.0	07/02/13 10:11	
2,4-Dichlorophenol	ug/L	ND	10.0	07/02/13 10:11	
2,4-Dimethylphenol	ug/L	ND	10.0	07/02/13 10:11	
2,4-Dinitrophenol	ug/L	ND	50.0	07/02/13 10:11	
2,4-Dinitrotoluene	ug/L	ND	10.0	07/02/13 10:11	
2,6-Dinitrotoluene	ug/L	ND	10.0	07/02/13 10:11	
2-Chloronaphthalene	ug/L	ND	10.0	07/02/13 10:11	
2-Chlorophenol	ug/L	ND	10.0	07/02/13 10:11	
2-Methylnaphthalene	ug/L	ND	10.0	07/02/13 10:11	
2-Methylphenol(o-Cresol)	ug/L	ND	10.0	07/02/13 10:11	
2-Nitroaniline	ug/L	ND	50.0	07/02/13 10:11	
2-Nitrophenol	ug/L	ND	10.0	07/02/13 10:11	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	10.0	07/02/13 10:11	
3,3'-Dichlorobenzidine	ug/L	ND	20.0	07/02/13 10:11	
3-Nitroaniline	ug/L	ND	50.0	07/02/13 10:11	
4,6-Dinitro-2-methylphenol	ug/L	ND	50.0	07/02/13 10:11	
4-Bromophenylphenyl ether	ug/L	ND	10.0	07/02/13 10:11	
4-Chloro-3-methylphenol	ug/L	ND	20.0	07/02/13 10:11	
4-Chloroaniline	ug/L	ND	20.0	07/02/13 10:11	
4-Chlorophenylphenyl ether	ug/L	ND	10.0	07/02/13 10:11	
4-Nitroaniline	ug/L	ND	50.0	07/02/13 10:11	
4-Nitrophenol	ug/L	ND	50.0	07/02/13 10:11	
Acenaphthene	ug/L	ND	10.0	07/02/13 10:11	
Acenaphthylene	ug/L	ND	10.0	07/02/13 10:11	
Anthracene	ug/L	ND	10.0	07/02/13 10:11	
Benzo(a)anthracene	ug/L	ND	10.0	07/02/13 10:11	
Benzo(a)pyrene	ug/L	ND	10.0	07/02/13 10:11	
Benzo(b)fluoranthene	ug/L	ND	10.0	07/02/13 10:11	
Benzo(g,h,i)perylene	ug/L	ND	10.0	07/02/13 10:11	
Benzo(k)fluoranthene	ug/L	ND	10.0	07/02/13 10:11	
Benzoic acid	ug/L	ND	50.0	07/02/13 10:11	
Benzyl alcohol	ug/L	ND	20.0	07/02/13 10:11	
bis(2-Chloroethoxy)methane	ug/L	ND	10.0	07/02/13 10:11	
bis(2-Chloroethyl) ether	ug/L	ND	10.0	07/02/13 10:11	
bis(2-Chloroisopropyl) ether	ug/L	ND	10.0	07/02/13 10:11	
bis(2-Ethylhexyl)phthalate	ug/L	ND	10.0	07/02/13 10:11	
Butylbenzylphthalate	ug/L	ND	10.0	07/02/13 10:11	
Carbazole	ug/L	ND	10.0	07/02/13 10:11	

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QUALITY CONTROL DATA

Project: 075006 Wingate Fractioning Pla
Pace Project No.: 60147780

METHOD BLANK: 1213968 Matrix: Water

Associated Lab Samples: 60147780001, 60147780002, 60147780003, 60147780004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chrysene	ug/L	ND	10.0	07/02/13 10:11	
Di-n-butylphthalate	ug/L	ND	10.0	07/02/13 10:11	
Di-n-octylphthalate	ug/L	ND	10.0	07/02/13 10:11	
Dibenz(a,h)anthracene	ug/L	ND	10.0	07/02/13 10:11	
Dibenzofuran	ug/L	ND	10.0	07/02/13 10:11	
Diethylphthalate	ug/L	ND	10.0	07/02/13 10:11	
Dimethylphthalate	ug/L	ND	10.0	07/02/13 10:11	
Fluoranthene	ug/L	ND	10.0	07/02/13 10:11	
Fluorene	ug/L	ND	10.0	07/02/13 10:11	
Hexachloro-1,3-butadiene	ug/L	ND	10.0	07/02/13 10:11	
Hexachlorobenzene	ug/L	ND	10.0	07/02/13 10:11	
Hexachlorocyclopentadiene	ug/L	ND	10.0	07/02/13 10:11	
Hexachloroethane	ug/L	ND	10.0	07/02/13 10:11	
Indeno(1,2,3-cd)pyrene	ug/L	ND	10.0	07/02/13 10:11	
Isophorone	ug/L	ND	10.0	07/02/13 10:11	
N-Nitroso-di-n-propylamine	ug/L	ND	10.0	07/02/13 10:11	
N-Nitrosodiphenylamine	ug/L	ND	10.0	07/02/13 10:11	
Naphthalene	ug/L	ND	10.0	07/02/13 10:11	
Nitrobenzene	ug/L	ND	10.0	07/02/13 10:11	
Pentachlorophenol	ug/L	ND	50.0	07/02/13 10:11	
Phenanthrene	ug/L	ND	10.0	07/02/13 10:11	
Phenol	ug/L	ND	10.0	07/02/13 10:11	
Pyrene	ug/L	ND	10.0	07/02/13 10:11	
Pyridine	ug/L	ND	10.0	07/02/13 10:11	
2,4,6-Tribromophenol (S)	%	88	37-120	07/02/13 10:11	
2-Fluorobiphenyl (S)	%	88	15-149	07/02/13 10:11	
2-Fluorophenol (S)	%	53	16-120	07/02/13 10:11	
Nitrobenzene-d5 (S)	%	86	10-159	07/02/13 10:11	
Phenol-d6 (S)	%	37	12-120	07/02/13 10:11	
Terphenyl-d14 (S)	%	100	25-142	07/02/13 10:11	

LABORATORY CONTROL SAMPLE: 1213969

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	50	36.3	73	45-120	
1,2-Dichlorobenzene	ug/L	50	36.8	74	43-120	
1,3-Dichlorobenzene	ug/L	50	37.1	74	42-120	
1,4-Dichlorobenzene	ug/L	50	37.3	75	42-120	
2,4,5-Trichlorophenol	ug/L	50	39.9J	80	52-120	
2,4,6-Trichlorophenol	ug/L	50	39.8	80	52-120	
2,4-Dichlorophenol	ug/L	50	38.3	77	50-120	
2,4-Dimethylphenol	ug/L	50	36.3	73	37-120	
2,4-Dinitrophenol	ug/L	50	29.9J	60	37-138	
2,4-Dinitrotoluene	ug/L	50	43.2	86	59-120	
2,6-Dinitrotoluene	ug/L	50	41.6	83	58-120	

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QUALITY CONTROL DATA

Project: 075006 Wingate Fractioning Pla
Pace Project No.: 60147780

LABORATORY CONTROL SAMPLE: 1213969

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Chloronaphthalene	ug/L	50	40.0	80	51-120	
2-Chlorophenol	ug/L	50	37.3	75	46-120	
2-Methylnaphthalene	ug/L	50	38.9	78	49-120	
2-Methylphenol(o-Cresol)	ug/L	50	35.7	71	38-120	
2-Nitroaniline	ug/L	50	43.4J	87	54-120	
2-Nitrophenol	ug/L	50	38.8	78	48-120	
3&4-Methylphenol(m&p Cresol)	ug/L	50	33.8	68	33-120	
3,3'-Dichlorobenzidine	ug/L	50	59.9	120	16-160	
3-Nitroaniline	ug/L	50	52.9	106	55-152	
4,6-Dinitro-2-methylphenol	ug/L	50	42.8J	86	50-122	
4-Bromophenylphenyl ether	ug/L	50	42.9	86	58-120	
4-Chloro-3-methylphenol	ug/L	50	40.3	81	52-120	
4-Chloroaniline	ug/L	50	65.2	130	27-160	
4-Chlorophenylphenyl ether	ug/L	50	40.6	81	57-120	
4-Nitroaniline	ug/L	50	44.9J	90	55-152	
4-Nitrophenol	ug/L	50	21.8J	44	10-120	
Acenaphthene	ug/L	50	40.7	81	54-120	
Acenaphthylene	ug/L	50	39.8	80	54-120	
Anthracene	ug/L	50	43.9	88	59-120	
Benzo(a)anthracene	ug/L	50	46.3	93	59-120	
Benzo(a)pyrene	ug/L	50	45.3	91	57-120	
Benzo(b)fluoranthene	ug/L	50	43.6	87	58-120	
Benzo(g,h,i)perylene	ug/L	50	45.3	91	59-120	
Benzo(k)fluoranthene	ug/L	50	47.5	95	59-120	
Benzoic acid	ug/L	50	ND	11	10-120	
Benzyl alcohol	ug/L	50	38.1	76	45-120	
bis(2-Chloroethoxy)methane	ug/L	50	40.2	80	53-120	
bis(2-Chloroethyl) ether	ug/L	50	39.5	79	50-120	
bis(2-Chloroisopropyl) ether	ug/L	50	43.2	86	47-120	
bis(2-Ethylhexyl)phthalate	ug/L	50	47.0	94	58-120	
Butylbenzylphthalate	ug/L	50	46.9	94	55-120	
Carbazole	ug/L	50	45.1	90	61-120	
Chrysene	ug/L	50	46.9	94	60-120	
Di-n-butylphthalate	ug/L	50	46.3	93	60-120	
Di-n-octylphthalate	ug/L	50	47.7	95	54-122	
Dibenz(a,h)anthracene	ug/L	50	45.1	90	59-120	
Dibenzofuran	ug/L	50	41.1	82	56-120	
Diethylphthalate	ug/L	50	42.6	85	58-120	
Dimethylphthalate	ug/L	50	42.7	85	58-120	
Fluoranthene	ug/L	50	44.4	89	59-120	
Fluorene	ug/L	50	40.8	82	57-120	
Hexachloro-1,3-butadiene	ug/L	50	36.0	72	42-120	
Hexachlorobenzene	ug/L	50	43.4	87	58-120	
Hexachlorocyclopentadiene	ug/L	100	42.5	43	29-120	
Hexachloroethane	ug/L	50	36.1	72	39-120	
Indeno(1,2,3-cd)pyrene	ug/L	50	45.6	91	58-120	
Isophorone	ug/L	50	41.9	84	52-120	
N-Nitroso-di-n-propylamine	ug/L	50	42.9	86	48-120	

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QUALITY CONTROL DATA

Project: 075006 Wingate Fractioning Pla
Pace Project No.: 60147780

LABORATORY CONTROL SAMPLE: 1213969

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
N-Nitrosodiphenylamine	ug/L	50	41.2	82	56-120	
Naphthalene	ug/L	50	37.4	75	49-120	
Nitrobenzene	ug/L	50	30.6	61	47-120	
Pentachlorophenol	ug/L	50	36.4J	73	45-120	
Phenanthrene	ug/L	50	43.8	88	60-120	
Phenol	ug/L	50	19.9	40	15-120	
Pyrene	ug/L	50	46.6	93	59-120	
Pyridine	ug/L	50	21.6	43	10-120	
2,4,6-Tribromophenol (S)	%			82	37-120	
2-Fluorobiphenyl (S)	%			82	15-149	
2-Fluorophenol (S)	%			53	16-120	
Nitrobenzene-d5 (S)	%			81	10-159	
Phenol-d6 (S)	%			40	12-120	
Terphenyl-d14 (S)	%			93	25-142	

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QUALITY CONTROL DATA

Project: 075006 Wingate Fractioning Pla
Pace Project No.: 60147780

QC Batch: WET/42199 Analysis Method: SM 2320B
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
Associated Lab Samples: 60147780001, 60147780002, 60147780003, 60147780004

METHOD BLANK: 1215720 Matrix: Water
Associated Lab Samples: 60147780001, 60147780002, 60147780003, 60147780004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	20.0	07/05/13 11:19	

LABORATORY CONTROL SAMPLE: 1215721

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	500	486	97	90-110	

SAMPLE DUPLICATE: 1215724

Parameter	Units	60148080001 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	94.0	95.6	2	10	H1

SAMPLE DUPLICATE: 1215725

Parameter	Units	60147780002 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Total as CaCO3	mg/L	439	455	3	10	

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QUALITY CONTROL DATA

Project: 075006 Wingate Fractioning Pla
Pace Project No.: 60147780

QC Batch: WET/42151 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 60147780001, 60147780002, 60147780003, 60147780004

METHOD BLANK: 1214259 Matrix: Water
Associated Lab Samples: 60147780001, 60147780002, 60147780003, 60147780004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	07/02/13 08:32	

LABORATORY CONTROL SAMPLE: 1214260

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	1000	1000	100	80-120	

SAMPLE DUPLICATE: 1214261

Parameter	Units	60147734001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	213	201	6	17	

SAMPLE DUPLICATE: 1214262

Parameter	Units	60147759002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	919	910	1	17	

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QUALITY CONTROL DATA

Project: 075006 Wingate Fractioning Pla
Pace Project No.: 60147780

QC Batch: WET/42144 Analysis Method: EPA 9040
QC Batch Method: EPA 9040 Analysis Description: 9040 pH
Associated Lab Samples: 60147780001, 60147780002, 60147780003, 60147780004

SAMPLE DUPLICATE: 1214094

Parameter	Units	60147678001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH	Std. Units	6.4	6.4	1	10	H6

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QUALITY CONTROL DATA

Project: 075006 Wingate Fractioning Pla
Pace Project No.: 60147780

QC Batch: WETA/25418 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 60147780001, 60147780002, 60147780003, 60147780004

METHOD BLANK: 1218028 Matrix: Water
Associated Lab Samples: 60147780002, 60147780003, 60147780004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	07/11/13 12:55	
Sulfate	mg/L	ND	1.0	07/11/13 12:55	

METHOD BLANK: 1218761 Matrix: Water
Associated Lab Samples: 60147780001, 60147780002, 60147780003, 60147780004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	07/12/13 09:01	
Sulfate	mg/L	ND	1.0	07/12/13 09:01	

LABORATORY CONTROL SAMPLE: 1218029

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.8	97	90-110	
Sulfate	mg/L	5	4.8	95	90-110	

LABORATORY CONTROL SAMPLE: 1218762

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	5	4.9	98	90-110	
Sulfate	mg/L	5	5.0	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1218030 1218031

Parameter	Units	60147780001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	927	1000	1000	1830	1810	90	89	64-118	1	12	
Sulfate	mg/L	1430	1000	1000	2450	2440	102	101	61-119	0	10	

MATRIX SPIKE SAMPLE: 1218032

Parameter	Units	60147851004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	946	500	1280	67	64-118	
Sulfate	mg/L	134	50	177	86	61-119	

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QUALITY CONTROL DATA

Project: 075006 Wingate Fractioning Pla
Pace Project No.: 60147780

QC Batch: WETA/25269
QC Batch Method: EPA 353.2
Analysis Method: EPA 353.2
Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 60147780001

METHOD BLANK: 1212101 Matrix: Water
Associated Lab Samples: 60147780001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	06/27/13 14:55	

LABORATORY CONTROL SAMPLE: 1212102

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1.6	1.7	107	85-115	

MATRIX SPIKE SAMPLE: 1212103

Parameter	Units	60147752001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	ND	1.6	1.7	107	85-115	

MATRIX SPIKE SAMPLE: 1212105

Parameter	Units	60147669010 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	9.2	16	25.1	100	85-115	

SAMPLE DUPLICATE: 1212104

Parameter	Units	60147670005 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	ND	ND		20	

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QUALITY CONTROL DATA

Project: 075006 Wingate Fractioning Pla
Pace Project No.: 60147780

QC Batch: WETA/25272 Analysis Method: EPA 353.2
QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.
Associated Lab Samples: 60147780002, 60147780003, 60147780004

METHOD BLANK: 1212392 Matrix: Water
Associated Lab Samples: 60147780002, 60147780003, 60147780004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Nitrate	mg/L	ND	0.10	06/28/13 10:14	

LABORATORY CONTROL SAMPLE: 1212393

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	1.6	1.7	106	85-115	

MATRIX SPIKE SAMPLE: 1212394

Parameter	Units	60147735001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	ND	1.6	2.1	128	85-115	M1

MATRIX SPIKE SAMPLE: 1212396

Parameter	Units	60147735003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Nitrate	mg/L	0.22	1.6	2.0	114	85-115	

SAMPLE DUPLICATE: 1212395

Parameter	Units	60147735004 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Nitrate	mg/L	ND	ND		20	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 075006 Wingate Fractioning Pla
Pace Project No.: 60147780

Sample: 75006-062613-CM-WMW3 **Lab ID: 60147780001** Collected: 06/26/13 08:35 Received: 06/27/13 08:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Total Uranium	ASTM D5174.97	**42.9 ± 0.758 (1.97)**	ug/L	07/19/13 13:34	7440-61-1	

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ANALYTICAL RESULTS

Project: 075006 Wingate Fractioning Pla
Pace Project No.: 60147780

Sample: 75006-062613-CM-WMW6 **Lab ID: 60147780002** Collected: 06/26/13 09:50 Received: 06/27/13 08:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Total Uranium	ASTM D5174.97	**9.76 ± 0.188 (1.97)**	ug/L	07/19/13 13:42	7440-61-1	

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ANALYTICAL RESULTS

Project: 075006 Wingate Fractioning Pla
Pace Project No.: 60147780

Sample: 75006-062613-CM-WMW8 **Lab ID: 60147780003** Collected: 06/26/13 11:40 Received: 06/27/13 08:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Total Uranium	ASTM D5174.97	**13.1 ± 0.241 (1.97)**	ug/L	07/19/13 13:45	7440-61-1	

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ANALYTICAL RESULTS

Project: 075006 Wingate Fractioning Pla
Pace Project No.: 60147780

Sample: 75006-062613-CM-WMW7 **Lab ID: 60147780004** Collected: 06/26/13 13:40 Received: 06/27/13 08:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Total Uranium	ASTM D5174.97	**25.3 ± 0.451 (1.97)**	ug/L	07/19/13 13:48	7440-61-1	

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ANALYTICAL RESULTS

Project: 075006 Wingate Fractioning Pla
Pace Project No.: 60147780

Sample: GW-075006-062413-CM-WMW-5 **Lab ID: 60147558001** Collected: 06/24/13 12:25 Received: 06/25/13 08:05 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Total Uranium	ASTM D5174.97	**10.6 ± 0.144 (0.197)**	ug/L	07/03/13 16:39	7440-61-1	

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ANALYTICAL RESULTS

Project: 075006 Wingate Fractioning Pla
Pace Project No.: 60147780

Sample: GW-075006-062413-CM-WMW-4 **Lab ID: 60147558002** Collected: 06/24/13 13:15 Received: 06/25/13 08:05 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Total Uranium	ASTM D5174.97	**2.55 ± 0.041 (0.197)**	ug/L	07/03/13 16:42	7440-61-1	

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ANALYTICAL RESULTS

Project: 075006 Wingate Fractioning Pla
Pace Project No.: 60147780

Sample: GW-075006-062413-CM-WMW-2 **Lab ID: 60147558003** Collected: 06/24/13 14:00 Received: 06/25/13 08:05 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Total Uranium	ASTM D5174.97	**24.5 ± 0.340 (0.197)**	ug/L	07/03/13 16:48	7440-61-1	

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ANALYTICAL RESULTS

Project: 075006 Wingate Fractioning Pla
Pace Project No.: 60147780

Sample: GW-075006-062413-CM-WMW-1 **Lab ID: 60147558004** Collected: 06/24/13 15:10 Received: 06/25/13 08:05 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC)	Units	Analyzed	CAS No.	Qual
Total Uranium	ASTM D5174.97	**47.9 ± 0.668 (0.197)**	ug/L	07/03/13 16:54	7440-61-1	

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QUALITY CONTROL DATA

Project: 075006 Wingate Fractioning Pla
Pace Project No.: 60147780

QC Batch: RADC/16304 Analysis Method: ASTM D5174.97
QC Batch Method: ASTM D5174.97 Analysis Description: D5174.97 Total Uranium KPA
Associated Lab Samples: 60147780001, 60147780002, 60147780003, 60147780004

METHOD BLANK: 602244 Matrix: Water
Associated Lab Samples: 60147780001, 60147780002, 60147780003, 60147780004

Parameter	Act ± Unc (MDC)	Units	Analyzed	Qualifiers
Total Uranium	0.006 ± 0.000 (0.197)	ug/L	07/11/13 15:26	

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QUALITY CONTROL DATA

Project: 075006 Wingate Fractioning Pla
Pace Project No.: 60147780

QC Batch: RADC/16245 Analysis Method: ASTM D5174.97
QC Batch Method: ASTM D5174.97 Analysis Description: D5174.97 Total Uranium KPA
Associated Lab Samples: 60147558001, 60147558002, 60147558003, 60147558004

METHOD BLANK: 599695 Matrix: Water
Associated Lab Samples: 60147558001, 60147558002, 60147558003, 60147558004

Parameter	Act ± Unc (MDC)	Units	Analyzed	Qualifiers
Total Uranium	0.061 ± 0.002 (0.197)	ug/L	07/01/13 17:10	

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QUALIFIERS

Project: 075006 Wingate Fractioning Pla
Pace Project No.: 60147780

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Act - Activity

Unc - Uncertainty

(MDC) - Minimum Detectable Concentration

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-K	Pace Analytical Services - Kansas City
PASI-PA	Pace Analytical Services - Greensburg

BATCH QUALIFIERS

Batch: OEXT/39063
[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
Batch: OEXT/39111
[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
Batch: MSV/54679
[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
Batch: MSV/54682
[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

1e	Combined was run in hold. Nitrite was run out of hold.
H1	Analysis conducted outside the EPA method holding time due to instrument failure.
H6	Analysis initiated outside of the 15 minute EPA recommended holding time.
L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

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QUALIFIERS

Project: 075006 Wingate Fractioning Pla
Pace Project No.: 60147780

ANALYTE QUALIFIERS

L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1	RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 075006 Wingate Fractioning Pla
Pace Project No.: 60147780

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60147558001	**GW-075006-062413-CM-WMW-5**	EPA 3010	MPRP/23230	EPA 6010	ICP/18311
60147558002	**GW-075006-062413-CM-WMW-4**	EPA 3010	MPRP/23230	EPA 6010	ICP/18311
60147558003	**GW-075006-062413-CM-WMW-2**	EPA 3010	MPRP/23230	EPA 6010	ICP/18311
60147558004	**GW-075006-062413-CM-WMW-1**	EPA 3010	MPRP/23230	EPA 6010	ICP/18311
60147780001	**75006-062613-CM-WMW3**	EPA 3010	MPRP/23273	EPA 6010	ICP/18340
60147780002	**75006-062613-CM-WMW6**	EPA 3010	MPRP/23273	EPA 6010	ICP/18340
60147780003	**75006-062613-CM-WMW8**	EPA 3010	MPRP/23273	EPA 6010	ICP/18340
60147780004	**75006-062613-CM-WMW7**	EPA 3010	MPRP/23273	EPA 6010	ICP/18340
60147558001	**GW-075006-062413-CM-WMW-5**	EPA 7470	MERP/7461	EPA 7470	MERC/7417
60147558002	**GW-075006-062413-CM-WMW-4**	EPA 7470	MERP/7461	EPA 7470	MERC/7417
60147558003	**GW-075006-062413-CM-WMW-2**	EPA 7470	MERP/7461	EPA 7470	MERC/7417
60147558004	**GW-075006-062413-CM-WMW-1**	EPA 7470	MERP/7461	EPA 7470	MERC/7417
60147780001	**75006-062613-CM-WMW3**	EPA 7470	MERP/7477	EPA 7470	MERC/7434
60147780002	**75006-062613-CM-WMW6**	EPA 7470	MERP/7477	EPA 7470	MERC/7434
60147780003	**75006-062613-CM-WMW8**	EPA 7470	MERP/7477	EPA 7470	MERC/7434
60147780004	**75006-062613-CM-WMW7**	EPA 7470	MERP/7477	EPA 7470	MERC/7434
60147558001	**GW-075006-062413-CM-WMW-5**	EPA 3510	OEXT/39063	EPA 8270	MSSV/12360
60147558002	**GW-075006-062413-CM-WMW-4**	EPA 3510	OEXT/39063	EPA 8270	MSSV/12360
60147558003	**GW-075006-062413-CM-WMW-2**	EPA 3510	OEXT/39063	EPA 8270	MSSV/12360
60147558004	**GW-075006-062413-CM-WMW-1**	EPA 3510	OEXT/39063	EPA 8270	MSSV/12360
60147780001	**75006-062613-CM-WMW3**	EPA 3510	OEXT/39111	EPA 8270	MSSV/12374
60147780002	**75006-062613-CM-WMW6**	EPA 3510	OEXT/39111	EPA 8270	MSSV/12374
60147780003	**75006-062613-CM-WMW8**	EPA 3510	OEXT/39111	EPA 8270	MSSV/12374
60147780004	**75006-062613-CM-WMW7**	EPA 3510	OEXT/39111	EPA 8270	MSSV/12374
60147558001	**GW-075006-062413-CM-WMW-5**	EPA 5030B/8260	MSV/54679		
60147558002	**GW-075006-062413-CM-WMW-4**	EPA 5030B/8260	MSV/54679		
60147558003	**GW-075006-062413-CM-WMW-2**	EPA 5030B/8260	MSV/54679		
60147558004	**GW-075006-062413-CM-WMW-1**	EPA 5030B/8260	MSV/54679		
60147558005	**GW-075006-062413-CM-DUP**	EPA 5030B/8260	MSV/54707		
60147558006	**TB-075006-062413-CM-001**	EPA 5030B/8260	MSV/54682		
60147780001	**75006-062613-CM-WMW3**	EPA 5030B/8260	MSV/54757		
60147780002	**75006-062613-CM-WMW6**	EPA 5030B/8260	MSV/54757		
60147780003	**75006-062613-CM-WMW8**	EPA 5030B/8260	MSV/54757		
60147780004	**75006-062613-CM-WMW7**	EPA 5030B/8260	MSV/54757		
60147780005	**75006-062613-CM-DUP**	EPA 5030B/8260	MSV/54757		
60147780006	**TB-75006-062613-001**	EPA 5030B/8260	MSV/54757		
60147558001	**GW-075006-062413-CM-WMW-5**	ASTM D5174.97	RADC/16245		
60147558002	**GW-075006-062413-CM-WMW-4**	ASTM D5174.97	RADC/16245		
60147558003	**GW-075006-062413-CM-WMW-2**	ASTM D5174.97	RADC/16245		
60147558004	**GW-075006-062413-CM-WMW-1**	ASTM D5174.97	RADC/16245		
60147780001	**75006-062613-CM-WMW3**	ASTM D5174.97	RADC/16304		
60147780002	**75006-062613-CM-WMW6**	ASTM D5174.97	RADC/16304		
60147780003	**75006-062613-CM-WMW8**	ASTM D5174.97	RADC/16304		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 075006 Wingate Fractioning Pla
Pace Project No.: 60147780

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60147780004	**75006-062613-CM-WMW7**	ASTM D5174.97	RADC/16304		
60147558001	**GW-075006-062413-CM-WMW-5**	SM 2320B	WET/42134		
60147558002	**GW-075006-062413-CM-WMW-4**	SM 2320B	WET/42134		
60147558003	**GW-075006-062413-CM-WMW-2**	SM 2320B	WET/42134		
60147558004	**GW-075006-062413-CM-WMW-1**	SM 2320B	WET/42134		
60147780001	**75006-062613-CM-WMW3**	SM 2320B	WET/42199		
60147780002	**75006-062613-CM-WMW6**	SM 2320B	WET/42199		
60147780003	**75006-062613-CM-WMW8**	SM 2320B	WET/42199		
60147780004	**75006-062613-CM-WMW7**	SM 2320B	WET/42199		
60147558001	**GW-075006-062413-CM-WMW-5**	SM 2540C	WET/42120		
60147558002	**GW-075006-062413-CM-WMW-4**	SM 2540C	WET/42120		
60147558003	**GW-075006-062413-CM-WMW-2**	SM 2540C	WET/42120		
60147558004	**GW-075006-062413-CM-WMW-1**	SM 2540C	WET/42120		
60147780001	**75006-062613-CM-WMW3**	SM 2540C	WET/42151		
60147780002	**75006-062613-CM-WMW6**	SM 2540C	WET/42151		
60147780003	**75006-062613-CM-WMW8**	SM 2540C	WET/42151		
60147780004	**75006-062613-CM-WMW7**	SM 2540C	WET/42151		
60147558001	**GW-075006-062413-CM-WMW-5**	EPA 9040	WET/42055		
60147558002	**GW-075006-062413-CM-WMW-4**	EPA 9040	WET/42055		
60147558003	**GW-075006-062413-CM-WMW-2**	EPA 9040	WET/42055		
60147558004	**GW-075006-062413-CM-WMW-1**	EPA 9040	WET/42055		
60147780001	**75006-062613-CM-WMW3**	EPA 9040	WET/42144		
60147780002	**75006-062613-CM-WMW6**	EPA 9040	WET/42144		
60147780003	**75006-062613-CM-WMW8**	EPA 9040	WET/42144		
60147780004	**75006-062613-CM-WMW7**	EPA 9040	WET/42144		
60147558001	**GW-075006-062413-CM-WMW-5**	EPA 300.0	WETA/25363		
60147558002	**GW-075006-062413-CM-WMW-4**	EPA 300.0	WETA/25363		
60147558003	**GW-075006-062413-CM-WMW-2**	EPA 300.0	WETA/25363		
60147558004	**GW-075006-062413-CM-WMW-1**	EPA 300.0	WETA/25363		
60147780001	**75006-062613-CM-WMW3**	EPA 300.0	WETA/25418		
60147780002	**75006-062613-CM-WMW6**	EPA 300.0	WETA/25418		
60147780003	**75006-062613-CM-WMW8**	EPA 300.0	WETA/25418		
60147780004	**75006-062613-CM-WMW7**	EPA 300.0	WETA/25418		
60147558001	**GW-075006-062413-CM-WMW-5**	EPA 353.2	WETA/25228		
60147558002	**GW-075006-062413-CM-WMW-4**	EPA 353.2	WETA/25228		
60147558003	**GW-075006-062413-CM-WMW-2**	EPA 353.2	WETA/25228		
60147558004	**GW-075006-062413-CM-WMW-1**	EPA 353.2	WETA/25228		
60147780001	**75006-062613-CM-WMW3**	EPA 353.2	WETA/25269		
60147780002	**75006-062613-CM-WMW6**	EPA 353.2	WETA/25272		
60147780003	**75006-062613-CM-WMW8**	EPA 353.2	WETA/25272		
60147780004	**75006-062613-CM-WMW7**	EPA 353.2	WETA/25272		

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Sample Condition Upon Receipt
ESI Tech Spec Client

WO#: 60147780

60147780

Optional
Proj Due Date:
Proj Name:

Client Name: CoP CBA NM

Courier: Fed Ex ☒ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other ☐

Tracking #: 8030 2807 4500 8022 4770 3496 Pace Shipping Label Used? Yes ☐ No ☒

Custody Seal on Cooler/Box Present: Yes ☐ No ☒ Seals intact: Yes ☐ No ☒

Packing Material: Bubble Wrap ☒ Bubble Bags ☐ Foam ☐ None ☐ Other ☐

Thermometer Used: T-112 / T-194 **Type of Ice:** Wet Blue None ☐ Samples received on ice, cooling process has begun
(circle one)

Cooler Temperature: 2.2, 3.0

Date and initials of person examining contents: JMS 6/27/13 1000

Temperature should be above freezing to 6°C

Chain of Custody present:	☒Yes ☐No ☐N/A	1.
Chain of Custody filled out:	☑Yes ☐No ☐N/A	2.
Chain of Custody relinquished:	☑Yes ☐No ☐N/A	3.
Sampler name & signature on COC:	☑Yes ☐No ☐N/A	4.
Samples arrived within holding time:	☒Yes ☐No ☐N/A	5.
Short Hold Time analyses (<72hr):	☒Yes ☐No ☐N/A	6. NO_3, pH
Rush Turn Around Time requested:	☐Yes ☒No ☐N/A	7.
Sufficient volume:	☒Yes ☐No ☐N/A	8.
Correct containers used:	☑Yes ☐No ☐N/A	
Pace containers used:	☑Yes ☐No ☐N/A	9.
Containers intact:	☑Yes ☐No ☐N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐Yes ☐No ☑N/A	11.
Filtered volume received for dissolved tests?	☐Yes ☐No ☑N/A	12.
Sample labels match COC:	☑Yes ☐No ☐N/A	
Includes date/time/ID/analyses Matrix: water		13.
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	added low HNO_3 to NMNB
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	14.
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	☑Yes ☐No	Initial when completed: JMS / Lot # of added preservative:
Trip Blank present:	☒Yes ☐No ☐N/A	
Pace Trip Blank lot # (if purchased): 050613-3		15.
Headspace in VOA vials (>6mm):	☐Yes ☑No ☐N/A	16.
Project sampled in USDA Regulated Area:	☐Yes ☐No ☒N/A	17. List State:

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: AMF Date: 6/27/13

Temp Log: Record start and finish times when unpacking cooler, if >20 min, recheck sample temps.	
Start:	Start:
End:	End:
Temp:	Temp:

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

Section A – **Required** Client Information:

- Company: COP CRA NM
- Address: 6121 Indian School #200, Albuquerque, NM 87110
- Email To: Keblanchard@craworld.com
- Phone: 505-884-0672 Fax:
- Requested Due Date/TAT: Standard

Section B – **Required** Project Information:

- Report To: Kelly Blanchard
- Copy To: Christine Mathews, Angela Bown
- Purchase Order No.:
- Project Name: Wingate Fractionating Plant
- Project Number: 075006

Section C – Invoice Information:

- Attention: COP ePayables
- Company Name:
- Address:
- Pace Quote Reference:
- Pace Project Manager: Alice Flanagan
- Pace Profile #: 5514,12 10928:1

REGULATORY AGENCY

- NPDES
- GROUND WATER [X]
- DRINKING WATER
- UST
- RCRA
- OTHER

SITE LOCATION: GA, IL, IN, MI, NC, OH, SC, WI, OTHER [X] NM

Filtered (Y/N)

Requested Analysis: 8260 VOCs, 8270 SVOCs, Dissolved Metals, Uranium, Sulfate/Cl/Nitrate, Alk/pH/TDS, BTEX ONLY; Residual Chlorine (Y/N)

Pace Project No./Lab I.D.: 6014 7780

Section D Required Client Information

SAMPLE ID
One Character per box. (A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

COLLECTED 6/27/13

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	8260 VOCs	8270 SVOCs	Dissolved Metals	Uranium	Sulfate/Cl/Nitrate	Alk/pH/TDS	BTEX ONLY	Residual Chlorine (Y/N)	Pace Project No./Lab I.D.
1	~~GW-075006-062613-~~																									
2	GW-075006-062613-CM-WMW3	WT	G	6·26·13	0835			001	9	X		X	X					X	X	X	X	X	X		1(BP3N)	3(DG9H) 2(AG1H) 1(BP1N) 2(BP3N)
3	GW-075006-062613-CM-WMW6	WT	G	6·26·13	0950			002	9	X		X	X					X	X	X	X	X	X			↓
4	GW-075006-062613-CM-WMW8	WT	G	6·26·13	1140			003	8	X		X	X					X	X	X	X	X	X			3(DG9H) 2(AG1H) 1(BP1N) 1(BP2U) 1(BP3N)
5	GW-075006-062613-CM-WMW7	WT	G	6·26·13				004	9	X		X	X					X	X	X	X	X	X		1(BP3N)	3(DG9H) 2(AG1H) 1(BP1N) 2(BP3N)
6	GW-075006-062613-CM-DUP	WT	G	6·26·13				005	3				X											X		3(DG9H)
7	TB-075006-062613-001	WT		6·26·13	1445			006	3				X											X		↓
8																										
9																										
10																										
11																										
12																										

Additional Comments:

* Please preserve 1L unpreserved from WMW-8 sample for uranium. Did not have preserved container

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
[signature]	6·26·13	1530	[signature]	6/27/13	840	2.2	Y/N	Y/N	Y/N
						3.0	Y/N	Y/N	Y/N
							Y/N	Y/N	Y/N
							Y/N	Y/N	Y/N

SAMPLE CONDITIONS

SAMPLER NAME AND SIGNATURE

- PRINT Name of SAMPLER: Christine Mathews
- SIGNATURE of SAMPLER: [signature]
- DATE Signed (MM/DD/YY): 6/26/13

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CHAIN-OF-CUSTODY / Analytical Request Document

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Page: of

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: COP CRA NM	Report To: Kelly Blanchard	Attention: COP ePayables
Address: 6121 Indian School #200 Albuquerque, NM 87110	Copy To: Christine Mathews, Angela Baun	Company Name:
Email To: KeBlanchard@craworld.com	Purchase Order No.:	Address:
Phone: 505-884-0672 Fax:	Project Name: Williams Fractionation Plant	Pace Quote Reference:
Requested Due Date/TAT: Standard	Project Number: 075006	Pace Project Manager: Alice Flanagan
		Pace Profile #: 5514, 12 J

REGULATORY AGENCY

☐ NPDES ☒ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER_____

SITE LOCATION: ☐ GA ☐ IL ☐ IN ☐ MI ☐ NC ☐ OH ☐ SC ☐ WI ☒ OTHER NM

Section D Required Client Information

SAMPLE ID
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(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
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WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Requested Analysis: 8260 VOCs; 8270 SVOCs; Dissolved Metals; Uranium; Sulfides; Nitrate; BTEX + TDS ONLY; Residual Chlorine (Y/N)	Pace Project No. / Lab I.D.
1	GW-075006-062613-MW3																		
2	075006-062613-CM-WMW3	WT	G	6.26.13	0835				9	X		X	X					X X X X X X	
3	075006-062613-CM-WMW6	WT	G	6.26.13	0950				9	X		X	X					X X X X X X	
4	075006-062613-CM-WMW8	WT	G	6.26.13	1140				8	X		X	X					X X X X X X	
5	075006-062613-CM-WMW7	WT	G	6.26.13	1340				9	X		X	X					X X X X X X	
6	075006-062613-CM-DUP	WT	G	6.26.13	1350				3				X					X	
7	TB-075006-062613-00	WT		6.26.13	1445				3				X					X	
8																			
9																			
10																			
11																			
12																			

GW-0
GW-0
GW-0
GW-0
GW-0

Additional Comments:

* Please preserve 1L unpreserved from WMW-8 sample for uranium. Did not have preserved container

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
[signature]	6-26-13	1530			

SAMPLE CONDITIONS

Temp In °C	Received on Ice Y/N	Custody Sealed Cooler Y/N	Samples Intact Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Christine Mathews

SIGNATURE of SAMPLER: [signature] DATE Signed (MM / DD / YY): 6/26/13

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