

GW - 54

MONITORING REPORTS

DATE:

2006 - 1995



Wingate Plant
P.O. Box 119
Rehoboth, NM 87322
phone 505.863.1045

Beverly J. Cox
Compliance Coordinator
505-863-1023; Fax 505-863-1047
beverly.j.cox@conocophillips.com

September 5, 2006

Mr. Wayne Price
Environmental Bureau
Energy, Minerals & Natural Resources Department
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

**Re: Wingate Fractionator Annual Ground Water Report
GW-054 Permit**

Dear Mr. Price:

Enclosed you will find a hard copy of the Wingate Fractionator Annual Ground Water Report as per GW-054 Approval Condition 18. An email from Kelly Henderson, Maxim Technologies, containing the report in electronic format will also be sent to you.

Should you have questions please do not hesitate to call me at 505-863-1023.

Sincerely,

A handwritten signature in cursive script that reads "Beverly J. Cox".

Beverly J. Cox

cc: Carol Bland
Houston Office
TN-05-5042

Ed Hasely
Room 466
30th Street
Farmington, NM



10601 Lomas. NE, Suite 106
Albuquerque, NM 87112
Office 505.237.8440
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September 5, 2006

Ms. Beverly Cox
ConocoPhillips
68 El Paso Circle
Gallup, New Mexico 87301

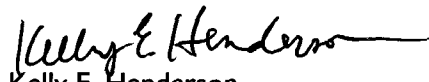
Subject: Delivery of 2006 Annual Groundwater Monitoring Report
Groundwater Discharge Plan No. GW-054
ConocoPhillips Wingate Fractionating Plant
Gallup, New Mexico

Dear Ms. Cox,

Maxim Technologies (Maxim) is pleased to deliver the enclosed Annual Groundwater Monitoring Report per the requirements of the Groundwater Discharge Plan GW-054.

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

Sincerely,



Kelly E. Henderson
Project Manager

Enclosures (2)

Cc: Wayne Price, New Mexico Oil Conservation Division
Carol Bland, ConocoPhillips (electronic only)

**ANNUAL GROUNDWATER
MONITORING REPORT
SAMPLING EVENT OF JUNE 2006**

**WINGATE FRACTIONATING PLANT
Gallup, New Mexico**

**IN COMPLIANCE WITH GROUNDWATER
DISCHARGE PLAN GW054**




ConocoPhillips

MAXIM
TECHNOLOGIES

A DIVISION OF TETRA TECH, INC.

**ANNUAL GROUNDWATER
MONITORING REPORT
SAMPLING EVENT OF JUNE 2006**

**WINGATE FRACTIONING PLANT
Gallup, New Mexico**

**IN COMPLIANCE WITH GROUNDWATER
DISCHARGE PLAN GW-054**

Prepared For:

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

Prepared By:

Maxim Technologies
10601 Lomas NE, Suite 106
Albuquerque, New Mexico 87112
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ConocoPhillips Work Order No.: 4506659939
Maxim Project No.: 6690023

September 5, 2006

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1.0 INTRODUCTION AND SITE HISTORY

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

Four monitoring wells were installed during June 2003. Three of these wells surround the evaporation ponds and one is located on the east side of the plant. Two of the wells surrounding the evaporation pond were installed above the groundwater table in order to determine if leakage from the ponds is occurring. MWR-1 was a re-drill of MW-1, which was damaged. To date there has been no indication of water in the two wells installed above the groundwater table.

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

In accordance with Groundwater Discharge Plan GW-054, Maxim conducted an annual groundwater sampling event on June 20, 2006. The results are presented in this report.

2.0 SITE DESCRIPTION

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

The site lies along the south side of an east west trending alluvial drainage formed by the south fork of the Puerco River. The site is approximately 6,590 feet above mean sea level (msl), 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 msl. To the north of the plant, a red sandstone escarpment rises 400 feet above the valley to an elevation of approximately 7,000 feet msl. 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, rising to approximately 8 feet bgs in well casing, suggesting confined aquifer conditions. The hydraulic gradient, calculated using groundwater elevation data from the June 2006 sampling event, varies across the site from 0.0094 ft/ft on the east side in and surrounding the plant to 0.006 ft/ft on the west side surrounding the ponds. Table 1 lists well completion information and groundwater elevations. During the June 2006 sampling event, the groundwater flow direction was predominant to the northwest. This is consistent with previous data. Groundwater potentiometric contours are presented in Figure 2.

There are currently thirteen monitoring wells on and surrounding the site. Figure 2 illustrates the monitoring well locations.

3.0 GROUNDWATER SAMPLING METHODOLOGY

Maxim performed groundwater-monitoring activities on June 20, 2006. Groundwater depths were measured using an electronic water level indicator and used to calculate the water volume in each well. An oil/water interface probe was used to measure groundwater depth in WMW-2 and check for the presence of free product. Before and after each use, the water level indicator and interface probe were cleaned with soap and water, then rinsed with methanol/de-ionized water solution, and de-ionized water. Graphs presenting groundwater elevations versus time for each monitoring well are presented in Appendix A. Water was purged from the wells until field parameters of pH, oxidation reduction potential (ORP), dissolved oxygen (DO), conductivity, and temperature stabilized and/or three well volumes of water were removed. Field parameters were monitored using a QED Hydrolab[®] instrumented flow-through cell. The pump and flow-through cell were decontaminated before each use by circulating Alconox[®] soap and de-ionized water solution through the pump followed by circulating a de-ionized water rinse. The purpose of the purge was to obtain a groundwater sample that would be representative of aquifer conditions rather than possible stagnant conditions in the well.

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

Following collection, the sample containers were immediately labeled, placed on ice, and chilled to approximately 4° C. Samples were submitted to Lancaster Laboratories in Lancaster, Pennsylvania for analyses of benzene, toluene, ethylbenzene, and total xylene (BTEX) by Environmental Protection Agency (EPA) Method 8260B; semi-volatile organics by EPA Method 8270; chloride, sulfate, and nitrate by EPA Method 300.0A; alkalinity by EPA Method 310.1; metals including mercury, arsenic, barium, calcium, cadmium, chromium, magnesium, selenium, silver, sodium, and lead by EPA Method 6010B; and total dissolved solids (TDS) by EPA Method 160.1, and pH by EPA Method 150.1. The samples collected from the evaporation pond area (MWR-1, MW-2, and MW-3, East Pond and surface water samples) were also analyzed for Biochemical Oxygen Demand, (BOD), Chemical Oxygen Demand (COD), and total coliform analyses under Environmental Protection Agency (EPA) procedures 405.1, 410.1, and Standard Method (SM) 19, 1995 9223B, respectively. Analytical results were compared to the New Mexico Water Quality Control Commission (NMWCC) (20.6.2.3103) Part A Human Health Standards and Part B Other Standards for Domestic Water Supply.

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

4.0 GROUNDWATER ANALYTICAL RESULTS

The June 2006 groundwater analytical results are summarized in Tables 2a and 2b. Selected analytical results versus time for each well are presented in Appendix A. The laboratory analytical report is presented in Appendix B.

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

MWS-1 and MWS-2 are the shallow vadose-zone wells installed to monitor possible evaporation pond leakage. These wells were installed at a depth of 15 feet and were screened from 5 to 15 feet. They were dry at the time they were constructed and were also dry at the time of the sampling fieldwork. Thus, no samples were collected from these wells. This indicates that the ponds are not leaking.

The samples from MWR-1, MW-2, and MW-3 contained no detectable BTEX or coliform. BOD and COD concentrations were within expected ranges. Analytical result concentrations from MWR-1, MW-2, and MW-3 did not exceed NMWCC Standards for Human Health.

The East Evaporation Pond sample had a COD result comparable to the 2004 and 2005 results. The sample from the East Evaporation Pond was below the laboratory detection limit for BOD, but at a detection limit similar to the 2004 and 2005 results. The East Evaporation Pond contained a concentration of total coliform and an elevated concentration of chloride at 13,000 milligrams per liter (mg/L). The East Evaporation Pond sample contained sulfate and TDS concentrations above the NMWQCC standards. The West Evaporation Pond was not sampled during June 2006 since it was nearly dry during the event. The West Evaporation Pond is used to catch overflow from the East Evaporation Pond; therefore, it is likely that the results would be comparable if a sample could have been obtained.

4.2 Wingate Facility and Surrounding Monitoring Wells

Monitoring wells WMW-1, WMW-3, WMW-4, WMW-5, WMW-6, WMW-7, and WMW-8, contained no detectable BTEX. The sample collected from WMW-2 contained 5,300 micrograms per liter ($\mu\text{g/L}$) benzene. This concentration is above the NMWQCC Standard for Human Health of 10 $\mu\text{g/L}$ for benzene. This benzene concentration is significantly less than the concentrations found in this well during the 2004 and 2005 sampling events of 28,000 $\mu\text{g/L}$ and 29,000 $\mu\text{g/L}$, respectively. Toluene, ethylbenzene, and xylenes were detected in WMW-2 at levels below the NMWQCC Standards for Human Health. The analytical results for toluene, ethylbenzene, and xylenes were lower than the 2005 results. These decreased concentrations are likely due to the placement of Oxygen Release Compound (ORC[®]) socks in the well on January 10, 2006. BTEX was not detected in WMW-4 or WMW-7, located downgradient of WMW-2, suggesting that the benzene impact is stable.

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

The samples collected from WMW-1, WMW-3, WMW-5, and WMW-7 contained sulfate and total dissolved solids (TDS) concentrations above the NMWQCC standards. The samples collected from WMW-2 and WMW-4 contained TDS concentrations above the NMWQCC standard. Even though these values exceed the standards for sulfate and/or TDS, the concentrations have remained relatively constant since the 2005 sampling event.

Tables

TABLES

Table 1. Wingate Groundwater Elevation (06/20/2006)

Well ID	Elevation (TOC)	Screened Interval (feet)	Total Depth (bgs)	Depth to Groundwater (feet below TOC)	Groundwater Elevation
MWR-1	6585.13	20 - 45	45	6.52	6578.61
MW-2	6585.91	20 - 45	45	4.77	6581.14
MW-3	6590.08	20 - 45	45	5.6	6584.48
WMW-1	6597.13	5 - 15	15	3.83	6593.3
WMW-2	6594.88	5 - 20	20	7.21	6587.67
WMW-3	6594.92	5 - 20	20	9.28	6585.64
WMW-4	6595.49	5 - 20	20	8.17	6587.32
WMW-5	6597.11	5 - 20	20	6.5	6590.61
WMW-6	6603.86	20-35	35	12.31	6591.55
WMW-7	6594.7	16-38	38	8.75	6585.95
WMW-8	6594.05	17-38	38	7.67	6586.38

Notes:

TOC - Top of Casing

bgs - below ground surface

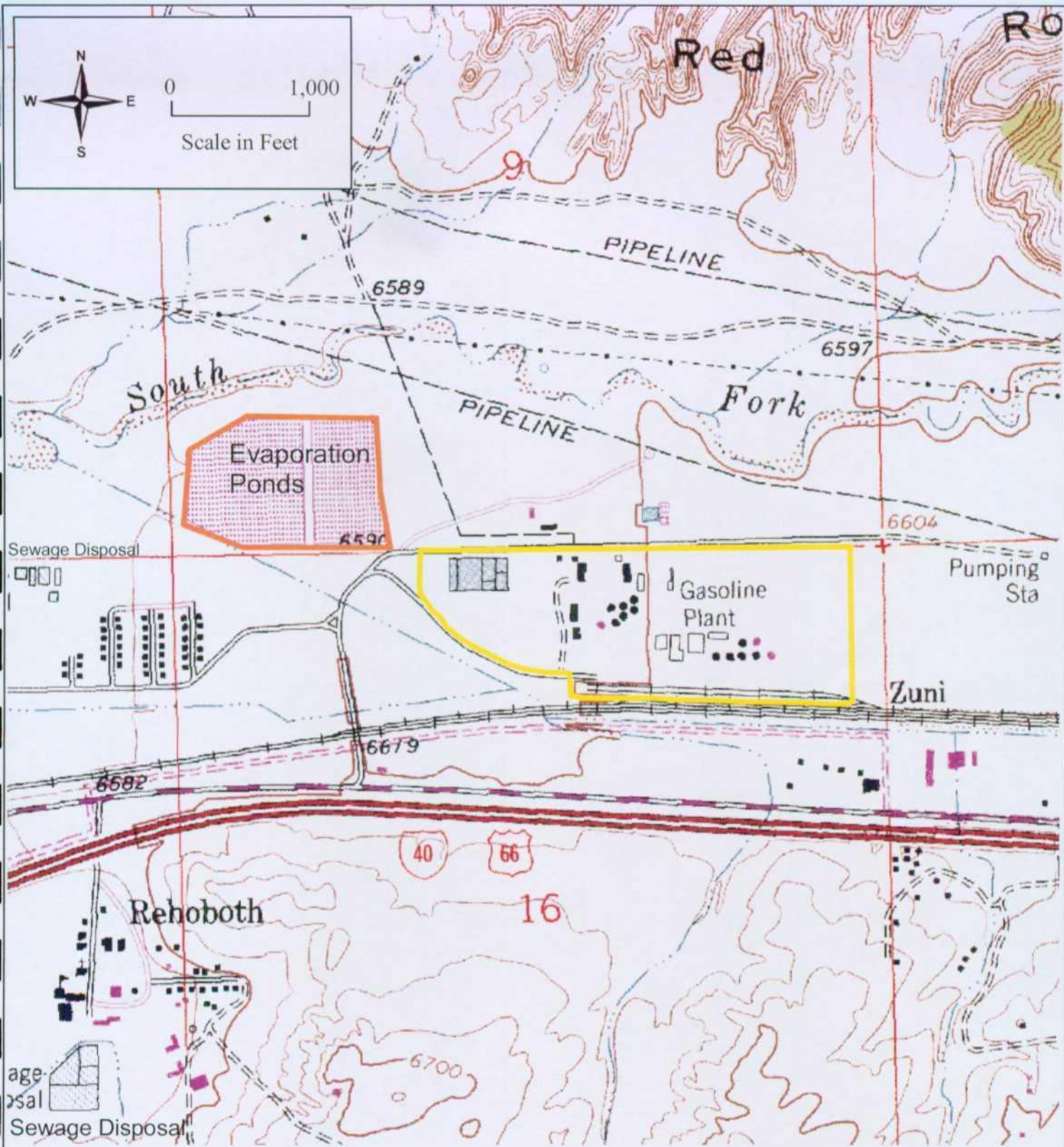
Wingate Fractionating Plant
Groundwater Analytical Results Summary
Table 2

Sample Location	Date Sampled	Wingate Fractionating Plant, Gallup, New Mexico ANALYSES FROM GROUNDWATER SAMPLING, MAY and JULY, 2003, SEPTEMBER 2004, JUNE 2005, and June 2006																							
		SW846 8160B Micrograms per Liter (mg/L)					SW846 6010B Milligrams per Liter (mg/L)										MCAWW 300.0A (mg/L)					SW846 8170 (ug/L)	EPA 150.1 (uM)	MCAWW 310.1 (mg/L)	MCAWW 160.1 (mg/L)
		Benzene	Toluene	Ethylbenzene	Xylenes	TPH-GRO	Mercury	Arsenic	Berium	Calcium	Cadmium	Chromium	Magnesium	Selenium	Silver	Sodium	Lead	Chloride	Nitrate	Sulfate	Naphthalene	pH	Alkalinity	TDS	
MWR-1	07/31/03	<0.5	<0.7	<0.8	<0.8	ND	<0.00016	0.0114	1.87	92.4	<0.00087	0.8532	46.1	0.0006	<0.0018	397	0.0562	154	<0.40	147	NA	7.9	725	1,340	
	09/24/04	<0.5	<0.7	<0.8	<0.8	NS	<0.00028	<0.0047	0.252	12.5	<0.00076	<0.0025	7.56	<0.0059	<0.0020	291	<0.0100	30.5	<0.40	27.0	<1	8.0	553	712	
	06/21/05	<0.5	<0.7	<0.8	<0.8	NS	<0.00062	<0.0093	0.191	10.2	<0.00097	<0.0048	6.02	<0.0094	<0.0020	278	<0.0084	30.5	<0.40	38.0	<1	7.9	611	775	
	06/21/06	<0.5	<0.7	<0.8	<0.8	NS	<0.00056	<0.01	0.221	11.1	<0.00091	<0.0023	6.61	<0.0094	<0.0016	317	<0.0069	24.3	0.26	43.6	<1	8.1	611	684	
MWS-1 dry		Dry Well Not Sampled																							
MWS-2 dry		Dry Well Not Sampled																							
MW-2	05/14/03	<0.1	<1.0	<1.0	<2.0	NS	NA	<0.01	0.21	14.7	<0.002	<0.005	7.9	NA	NA	418	<0.003	64.4	<0.5	102	<9.6	NA	770	1,140	
	09/24/04	<0.5	<0.7	<0.8	<0.8	ND	<0.00028	0.0131	0.126	6.30	<0.00076	<0.0025	2.96	<0.0059	<0.0020	321	<0.0100	29.6	<0.40	4.4	<0.9	8.3	718	860	
	06/21/05	<0.5	<0.7	<0.8	<0.8	NS	<0.00062	0.0196	0.141	6.45	<0.00097	<0.0048	3.14	<0.0094	<0.0020	310	<0.0084	38.9	<0.40	18.6	<1	8.2	708	878	
	06/21/06	<0.5	<0.7	<0.8	<0.8	NS	<0.00056	0.0212	0.141	7.16	<0.00091	<0.0023	3.57	<0.0094	<0.0016	384	<0.0069	38.6	<0.25	22.9	<1	8.2	712	908	
MW-3	05/14/03	<0.1	<1.0	<1.0	<2.0	NS	NA	<0.01	<0.2	28.7	<0.002	<0.005	13.5	NA	NA	149	<0.003	19.2	<0.5	15.5	<9.6	NA	428	542	
	09/24/04	<0.5	<0.7	<0.8	<0.8	NS	<0.00028	<0.0047	0.150	27.9	<0.00076	<0.0025	13.4	<0.0059	<0.0020	156	<0.0100	19.6	<0.40	14.6	<1	7.8	419	493	
	06/21/05	<0.5	<0.7	<0.8	<0.8	NS	<0.00062	0.0108	0.160	26.6	<0.00097	<0.0048	12.8	<0.0094	<0.0020	144	0.0084	20.6	<0.40	13.3	<1	7.6	415	488	
	06/21/06	<0.5	<0.7	<0.8	<0.8	NS	<0.00056	<0.010	0.16	27.4	<0.00091	<0.0023	13.3	<0.0094	<0.0016	161	<0.0069	19.5	<0.25	14.9	<1	7.7	394	507	
WMW-1	05/14/03	<0.1	<1.0	<1.0	<2.0	NS	NA	<0.01	<0.2	258	<0.002	<0.005	69.7	NA	NA	1,140	<0.003	648	<0.5	1,870	<9.6	NA	1050	5,090	
	09/24/04	<0.5	<0.7	<0.8	<0.8	NS	<0.00028	<0.0047	0.0256	236	<0.00076	0.0025	63.8	0.0059	0.002	1,370	<0.0100	627	<0.40	1,880	<1	7.8	1,030	5,150	
	06/20/05	<0.5	<0.7	<0.8	<0.8	NS	<0.00062	<0.0093	0.0177	224	<0.00097	<0.0048	61.1	<0.0094	<0.0020	1,370	<0.0084	614	<0.40	1,760	<1	7.0	1,060	5,140	
	06/21/06	<0.5	<0.7	<0.8	<0.8	NS	<0.00056	<0.01	0.0706	279	<0.00091	0.003	76.8	<0.0094	<0.0016	1,310	<0.0069	609	<0.25	1,840	<1	7.1	1,030	5,150	
WMW-2	05/14/03	29,000	<500	<500	<1,000	NS	NA	0.016	0.42	47.3	0.0081	0.0095	27.4	NA	NA	1,140	0.0180	628	0.6	8.2	24	NA	1,710	3,150	
	09/24/04	28,000	450	110	650	NS	<0.00028	<0.0047	0.421	57.2	0.0036	<0.0025	33.8	<0.0059	<0.0020	1,510	0.0100	936	<0.40	<1.5	21	7.6	2,110	4,230	
	06/21/05	29,000	350	110	570	NS	<0.00062	<0.0093	0.442	53.6	0.0047	<0.0048	32.3	<0.0094	<0.0020	1,450	<0.0084	962	<0.40	<1.5	17	7.5	2,090	3,800	
	duplicate	25,000	62	84	470	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
WMW-3	06/21/06	5,300	15	24	150	NS	<0.00056	<0.01	0.0841	4.04	<0.00091	<0.0023	190	<0.0094	<0.0016	1,050	<0.0069	730	<0.25	74	3	9.9	2,000	3,400	
	duplicate	5,300	15	24	150	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	05/14/03	<0.1	<1.0	<1.0	<2.0	NS	NA	0.014	0.62	186	<0.002	0.19	88.5	NA	NA	1,860	0.042	1,150	1.5	1,680	<9.5	NA	1,090	5,570	
	09/25/04	<0.5	<0.7	<0.8	<0.8	NS	<0.00028	0.0351	1.14	470	0.0012	0.005	216	<0.0059	<0.0020	1,810	0.250	985	<0.40	1,410	<10	7.5	1,700	6,030	
WMW-4	06/20/05	<0.5	<0.7	<0.8	<0.8	NS	<0.00062	<0.0093	0.210	112	<0.00097	0.0421	48.0	<0.0094	<0.0020	1,700	0.0112	1,030	<0.40	1,380	<1	7.5	1,230	5,590	
	06/21/06	<0.5	<0.7	<0.8	<0.8	NS	0.00012	<0.01	0.468	155	<0.00091	0.0996	73.8	<0.0094	<0.0016	1,850	0.0339	1,150	<0.25	1,580	<1	7.5	1,210	5,640	
	05/14/03	<0.1	<1.0	<1.0	<2.0	NS	NA	<0.01	0.28	37.3	<0.002	0.006	15.8	NA	NA	530	16.8	133	<0.5	240	<9.7	NA	783	3,070	
	07/30/03	<0.5	<0.7	<0.8	<0.8	S3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
WMW-5	09/23/04	<0.5	<0.7	<0.8	<0.8	NS	<0.00028	0.0077	0.0435	12.5	<0.00076	<0.0025	13.1	<0.0059	0.0020	553	<0.0100	149	<0.40	247	<1	7.8	788	1,550	
	06/20/05	<0.5	<0.7	<0.8	<0.8	NS	<0.00062	<0.0093	0.0449	11.7	<0.00097	<0.0048	12.5	<0.0094	<0.0020	529	<0.0084	152	<0.40	243	<1	7.8	764	1,470	
	06/21/06	<0.5	<0.7	<0.8	<0.8	NS	<0.00056	<0.01	0.0414	12	<0.00091	<0.0023	12.8	<0.0094	<0.0016	532	<0.0069	163	<0.25	266	<1	7.8	722	1,480	
	05/14/03	<0.1	<1.0	<1.0	<2.0	NS	NA	<0.01	<0.2	332	<0.002	<0.005	98	NA	NA	1,310	<0.003	598	<0.5	2,380	<9.5	NA	895	5,530	
WMW-6	07/30/03	<0.5	<0.7	<0.8	<0.8	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	09/23/04	<0.5	<0.7	<0.8	<0.8	NS	0.000044	<0.0047	0.0117	186	<0.00076	<0.0025	48.8	<0.0059	<0.0020	915	<0.0100	307	<0.40	1,330	<1	7.1	788	3,410	
	06/20/05	<0.5	<0.7	<0.8	<0.8	NS	<0.00062	<0.0093	0.0137	187	<0.00097	<0.0048	50.5	<0.0094	<0.0020	834	<0.0084	334	<0.40	1,490	<1	7.0	693	3,300	
	06/21/06	<0.5	<0.7	<0.8	<0.8	NS	<0.00056	<0.01	0.0076	144	<0.00091	<0.0023	38.7	<0.0094	<0.0016	730	<0.0069	224	<0.25	1,310	<1	7.1	680	3,380	
WMW-7	07/30/03	<0.5	<0.7	<0.8	<0.8	ND	<0.00016	<0.0049	0.224	48.3	<0.00087	0.0074	18.1	<0.0047	<0.0018	334	<0.0093	71.9	<0.40	393	NA	7.9	506	1,220	
	09/24/04	<0.5	<0.7	<0.8	<0.8	NS	<0.00028	<0.0047	0.0517	34.4	<0.00076	<0.0025	13.2	<0.0059	<0.0020	315	<0.0100	57.5	<0.40	285	<1	7.8	425	1,030	
	06/21/05	<0.5	<0.7	<0.8	<0.8	NS	<0.00062	<0.0093	0.0490	35.9	<0.00097	<0.0048	13.4	<0.0094	<0.0020	294	<0.0084	58.8	<0.40	290	<1	7.7	428	952	
	06/21/06	<0.5	<0.7	<0.8	<0.8	NS	<0.00056	<0.01	0.049	38.1	<0.00091	<0.0023	14.1	0.0094	<0.0016	300	<0.0069	58.9	<0.25	293	<1	7.7	488	966	
WMW-8	09/24/04	<0.5	<0.7	<0.8	<0.8	NS	<0.00028	<0.0047	0.179	35.5	<0.00076	0.0074	15.8	<0.0059	<0.0020	362	<0.0100	63.7	<0.40	309	<1	7.7	526	1,200	
	06/21/05	<0.5	<0.7	<0.8	<0.8	NS	<0.00062	<0.0093	0.0394	48.0	<0.00097	<0.0048	25.4	<0.0094	<0.0020	803	<0.0084	170	<0.40	1,120	<1	7.7	630	2,590	
	06/21/06	<0.5	<0.7	<0.8	<0.8	NS	<0.00056	<0.01	0.0315	42.2	<0.00091	<0.0023	22.2	<0.0094	<0.0016	776	<0.0069	234	<0.25	1,080	<1	7.6	589	2,360	
	09/24/04	<0.5	<0.7	<0.8	<0.8	NS	<0.00028	<0.0047	0.213	36.1	<0.00076	<0.0025	17.6	<0.0059	<0.0020	218	<0.0100	27.0	<0.40	130	<1	7.8	440	753	
West Pond	06/21/05	<0.5	<0.7	<0.8	<0.8	NS	<0.00062	<																	

1

Figures

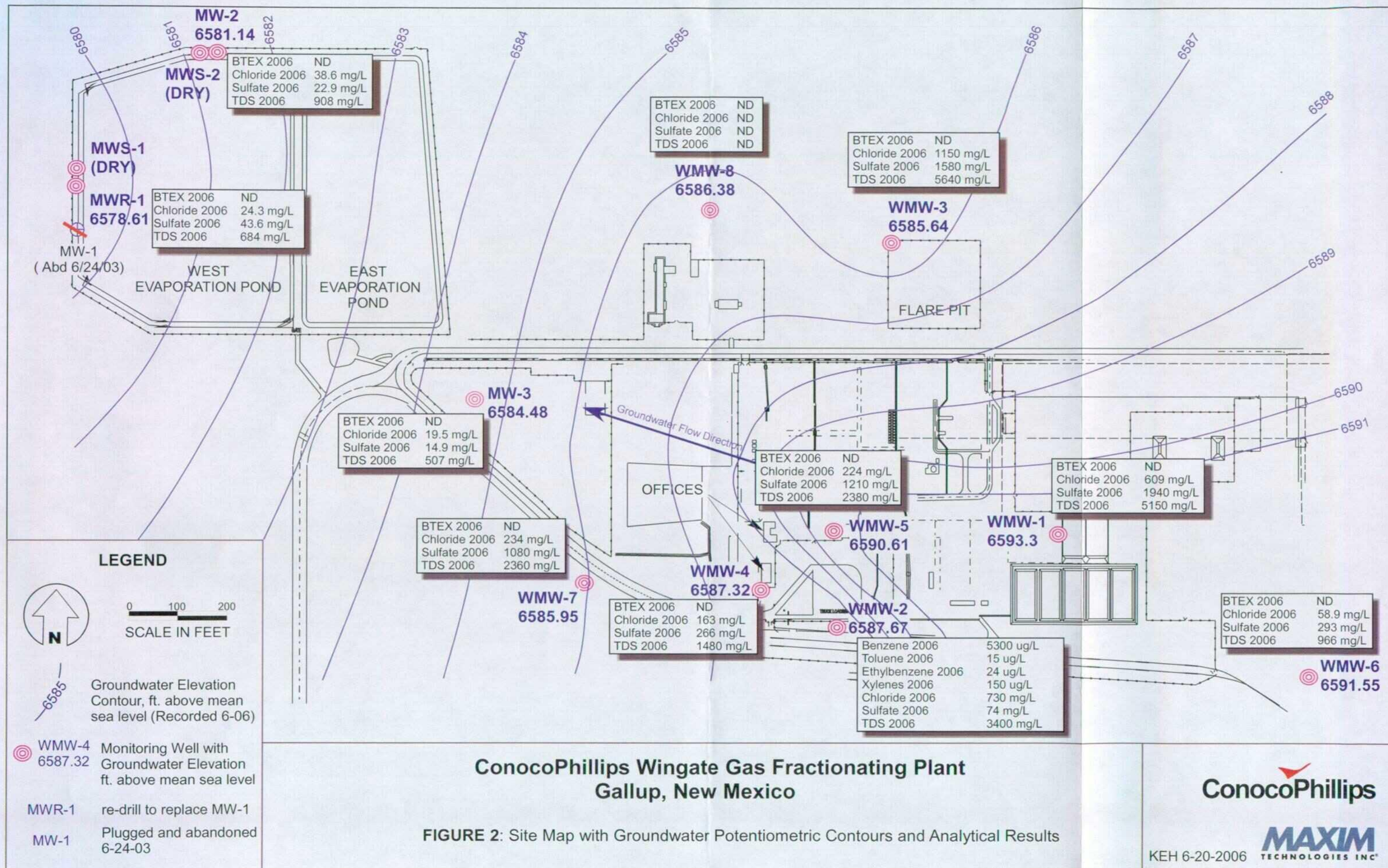
FIGURES



ConocoPhillips

MAXIM
 TECHNOLOGIES INC.

KEH 8-11-06



1

Appendix A

APPENDIX A

Time versus Analytical Concentration and Groundwater Elevation Graphs

Wingate Fractionating Plant

Groundwater Analytical Results Summary

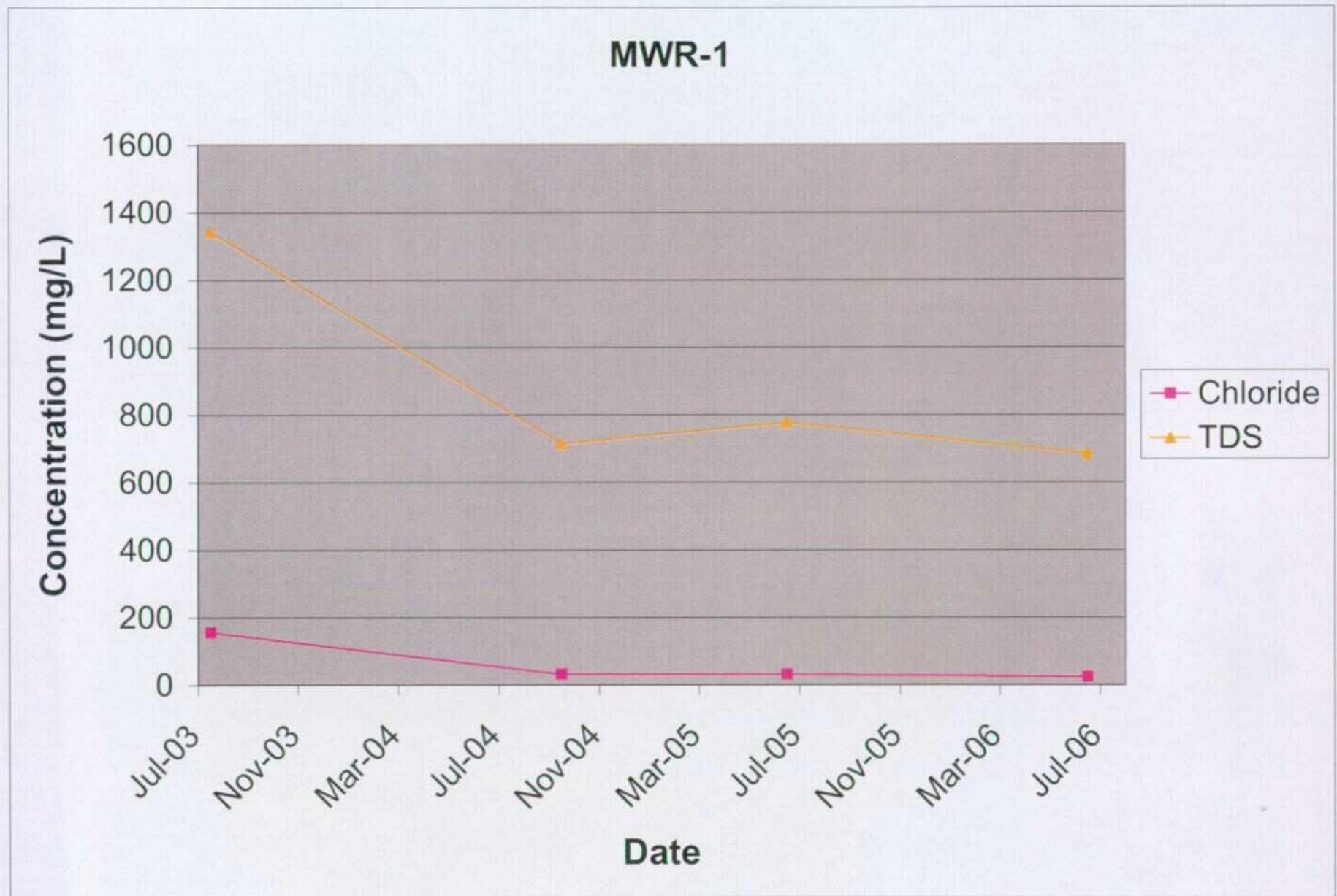
Table 2

Sample Location	Date Sampled	EPA 405.1 BOD	EPA 410.1 COD	Standard Method 19, 1995, 9223B Total Coliform
MWR-1	07/31/03	9.2 mg/L	32.1 mg/L	NS
	09/24/04	11.0 mg/L	20.6 mg/L	<1.0/100ml
	06/21/05	<3.5 mg/L	12.9 mg/L	<1.0/100ml
	06/21/06	<5.0mg/L	16.7mg/L	<1.0/100ml
MW-2	05/14/03	<4 mg/L	17.1 mg/L	NS
	09/24/04	<6.0 mg/L	26.7 mg/L	<1.0/100ml
	06/21/05	<2.5mg/L	32.4 mg/L	<1.0/100ml
	06/21/06	<5.8mg/L	28.3mg/L	<1.0/100ml
MW-3	05/14/03	<4 mg/L	ND	NS
	09/24/04	5.2 mg/L	<1.4 mg/L	<1.0/100ml
	06/21/05	<2.2 mg/L	7.4 mg/L	<1.0/100ml
	06/21/06	<2.0mg/L	6.8mg/L	<1.0/100ml
MWS-1	Dry Wells; Not Sampled			
MWS-2				
East Pond	09/23/04	18.9 mg/L	150 mg/L	<200.5/100ml
	06/21/05	8.7 mg/L	105 mg/L	>200.5/100ml
	06/21/06	<11.9mg/L	147mg/L	8.7/100ml
West Pond	09/23/04	62.5 mg/L	1210 mg/L	<1.0/100ml
	06/21/05	7.5 mg/L	775 mg/L	<1.0/100ml

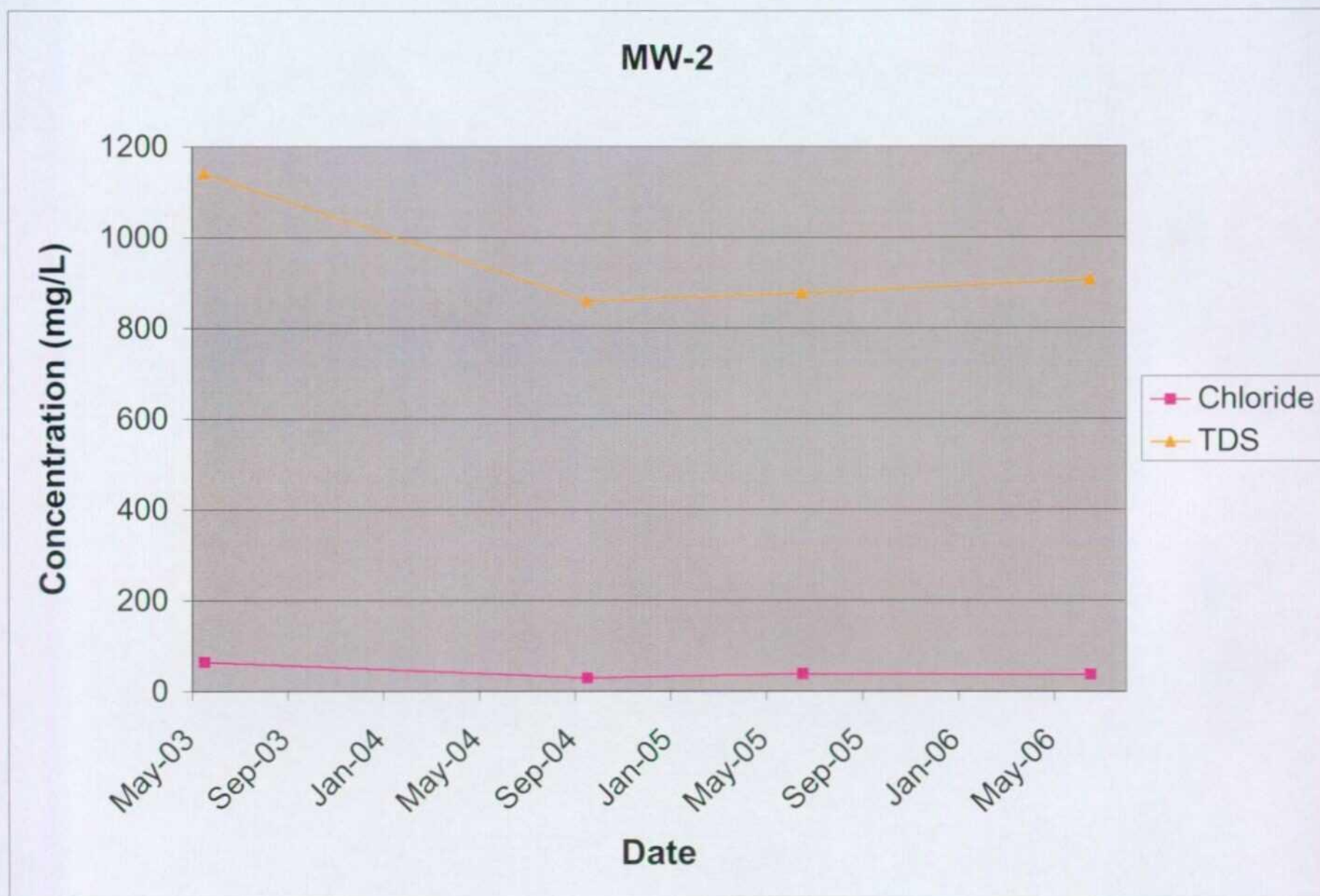
NOTES:

MW	Monitoring Well
MWS	Shallow
MWR	Redrill
ND	Not detected above laboratory detection limits
NS	Not Sampled
BOD	Biological Oxygen Demand
COD	Chemical Oxygen Demand

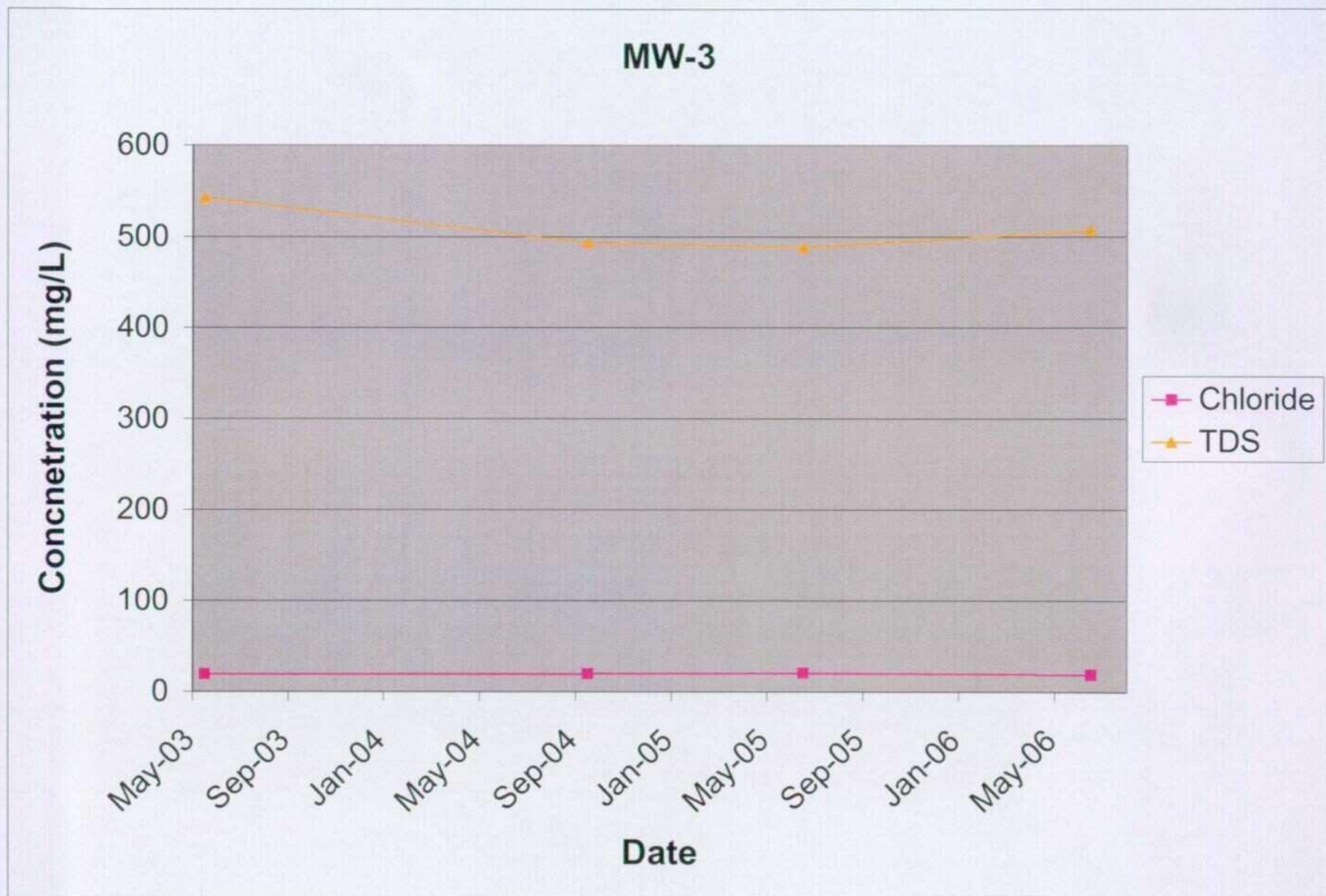
Wingate Fractionating Plant
Time Versus COC Concentration Graphs



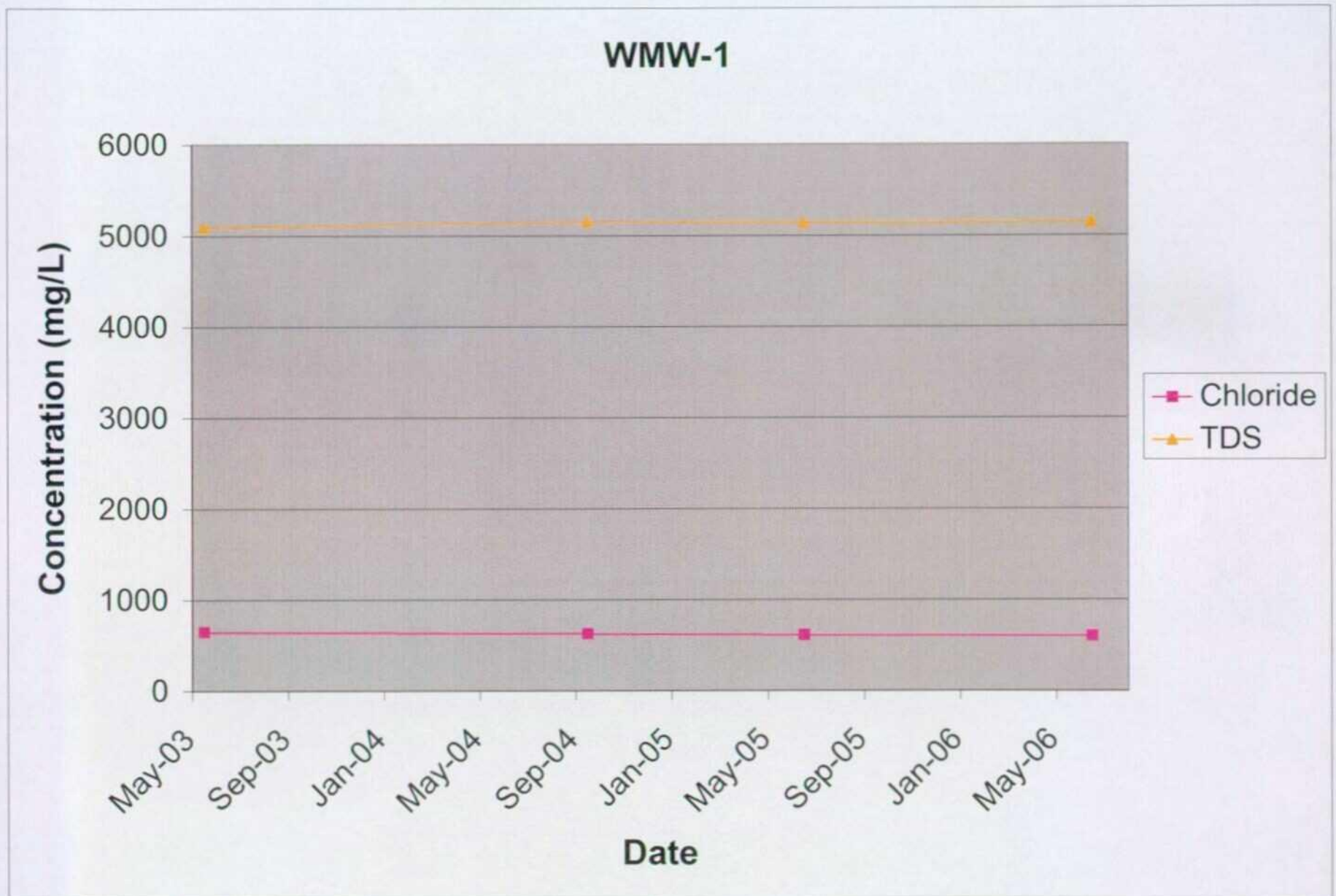
Wingate Fractionating Plant
Time Versus COC Concentration Graphs



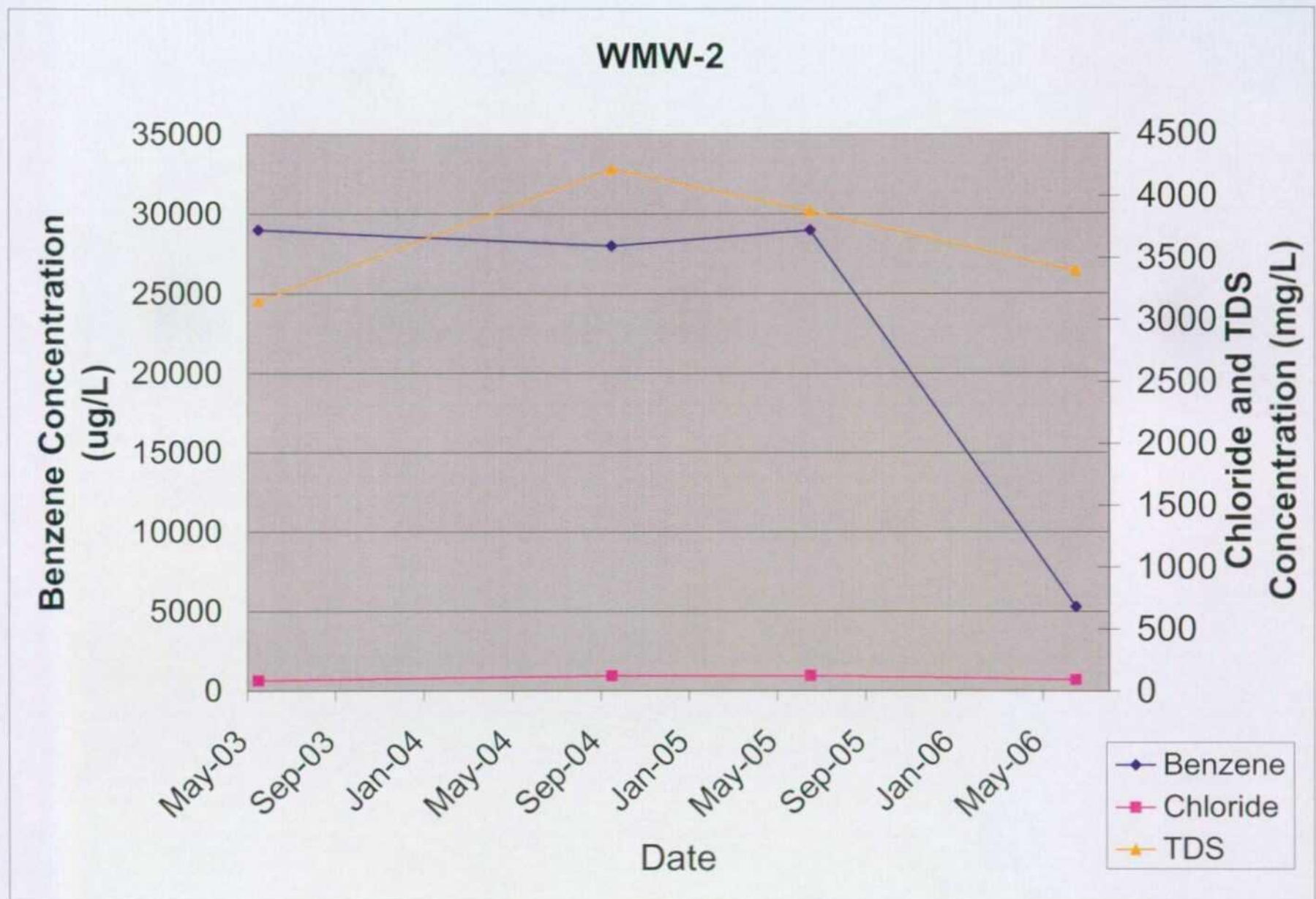
Wingate Fractionating Plant
Time Versus COC Concentration Graphs



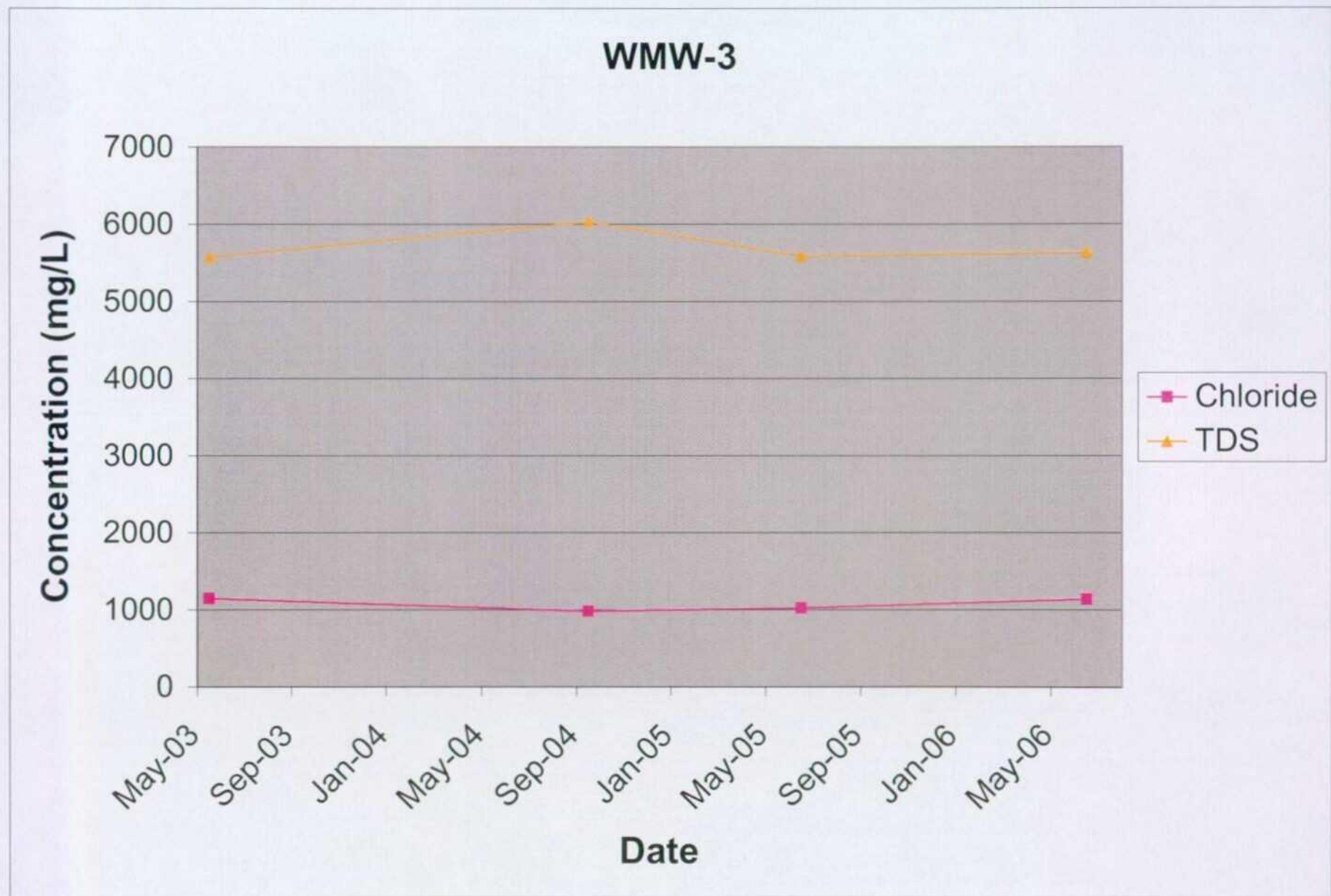
Wingate Fractionating Plant
Time Versus COC Concentration Graphs



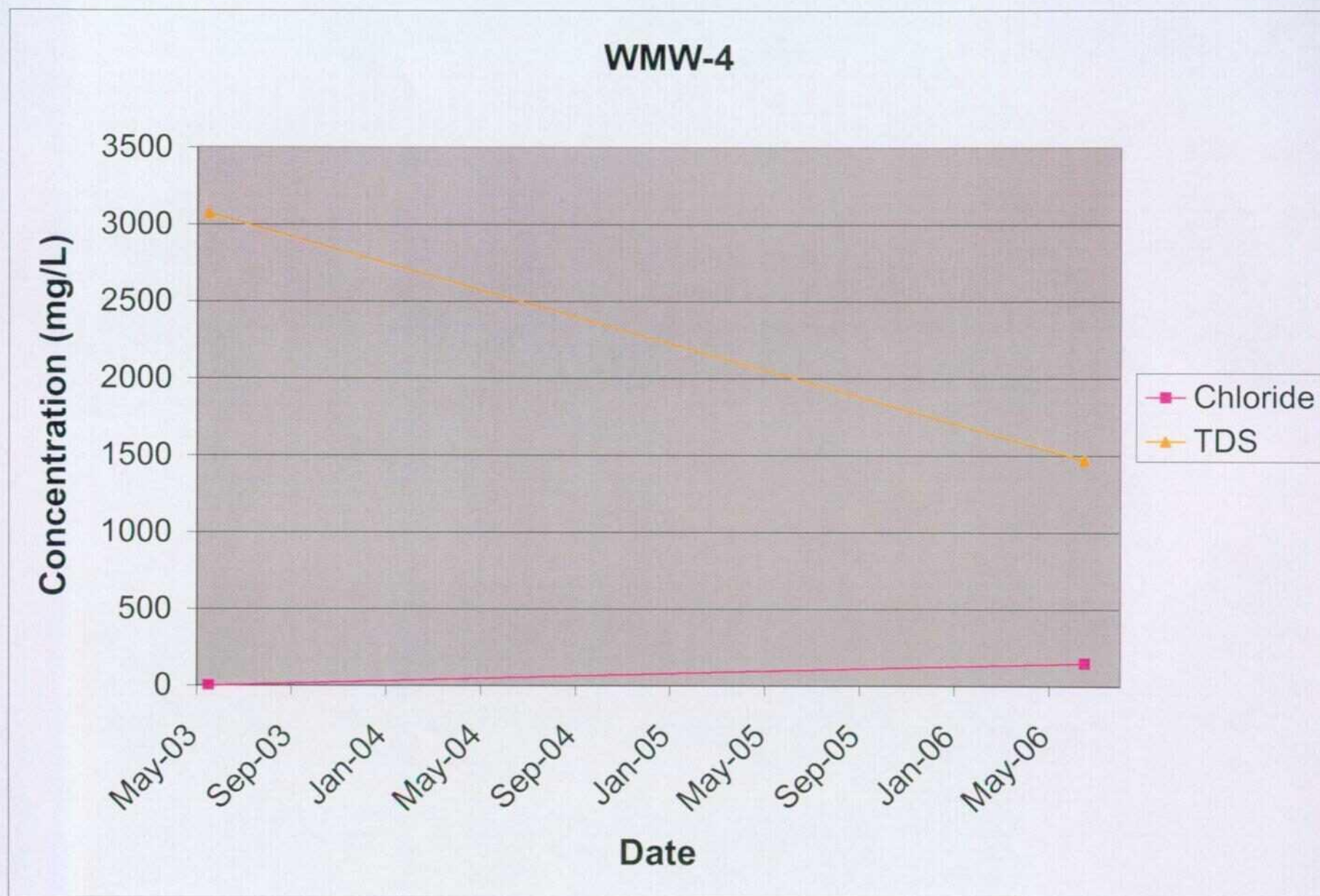
Wingate Fractionating Plant
Time Versus COC Concentration Graphs



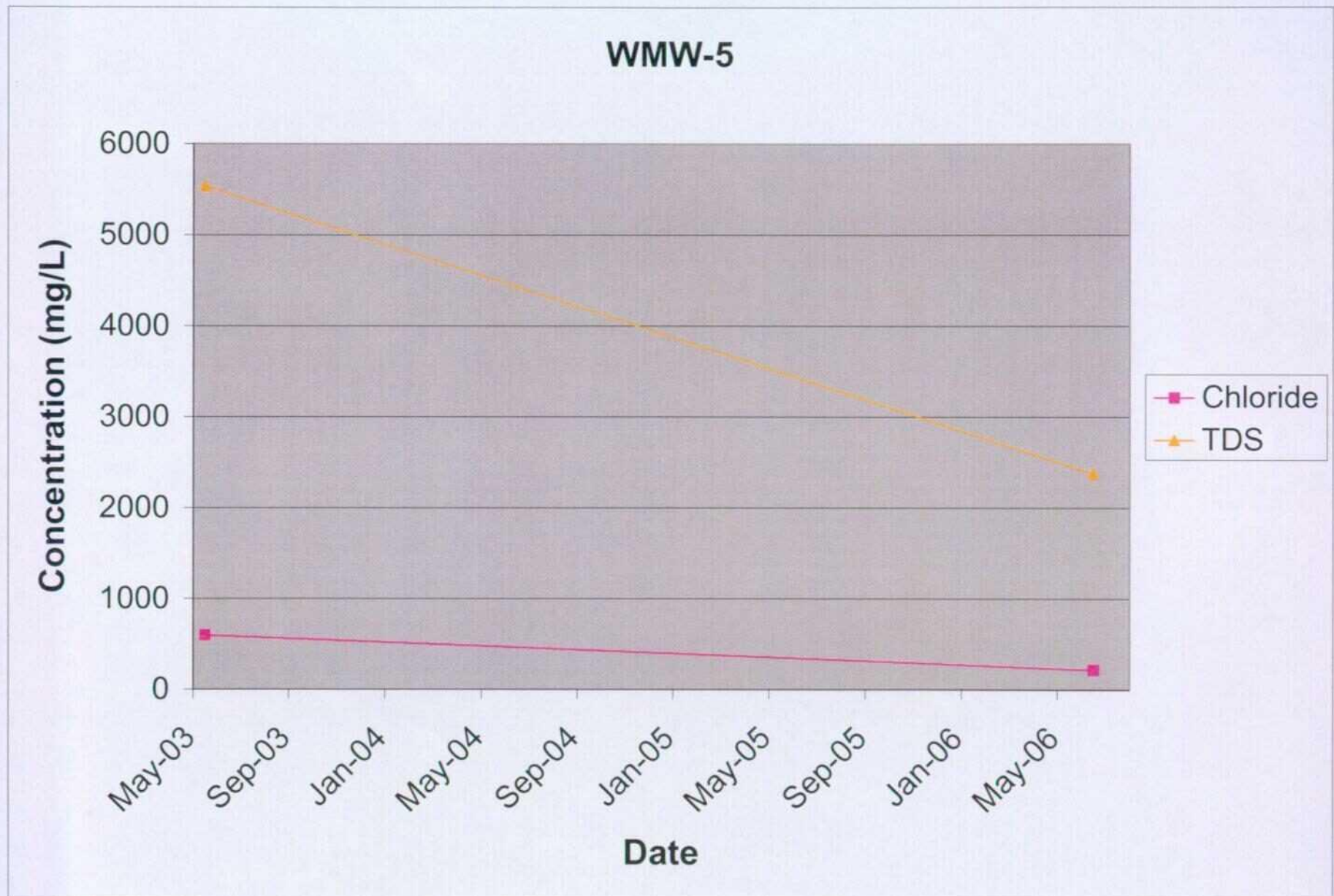
Wingate Fractionating Plant
Time Versus COC Concentration Graphs



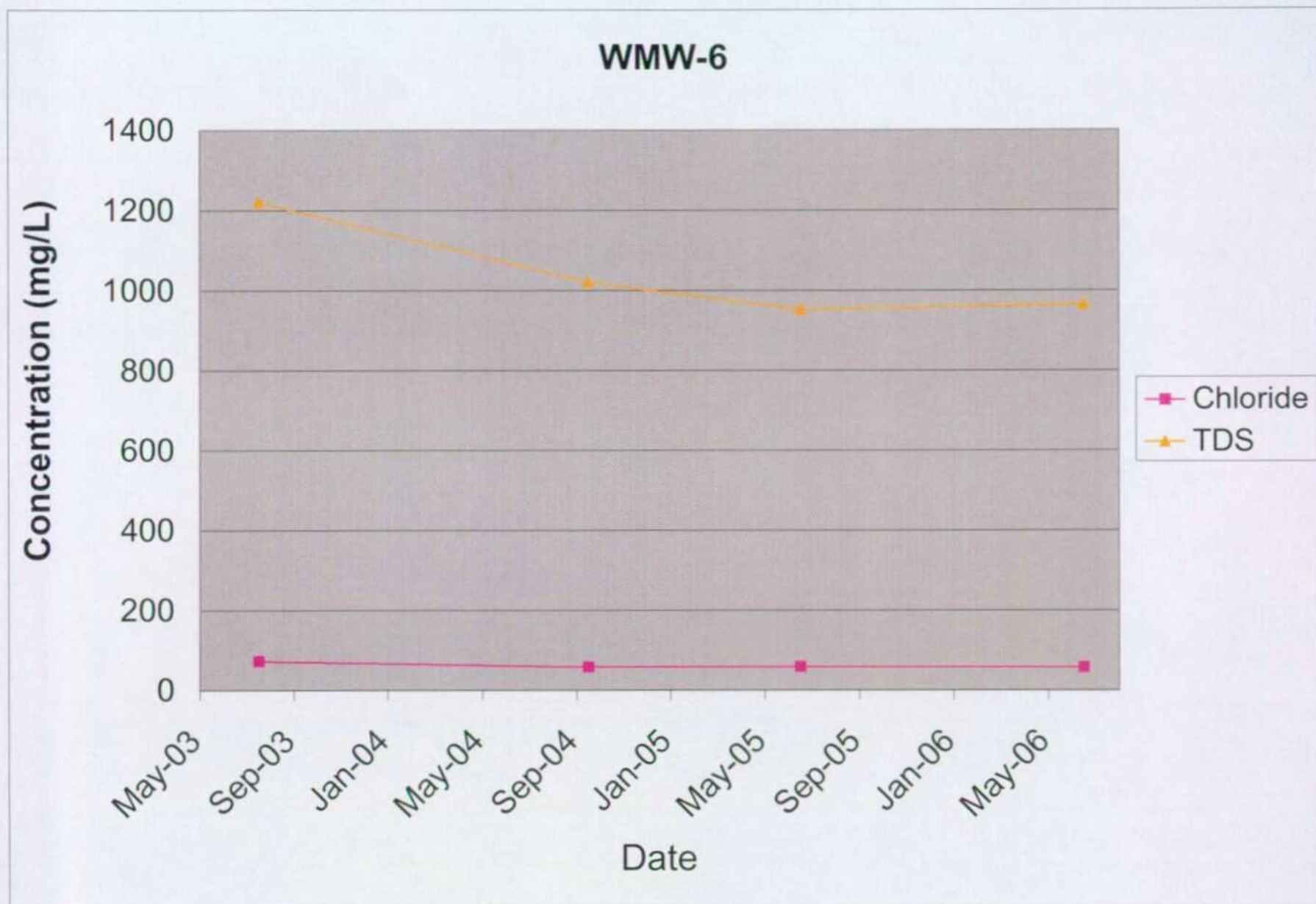
Wingate Fractionating Plant
Time Versus COC Concentration Graphs



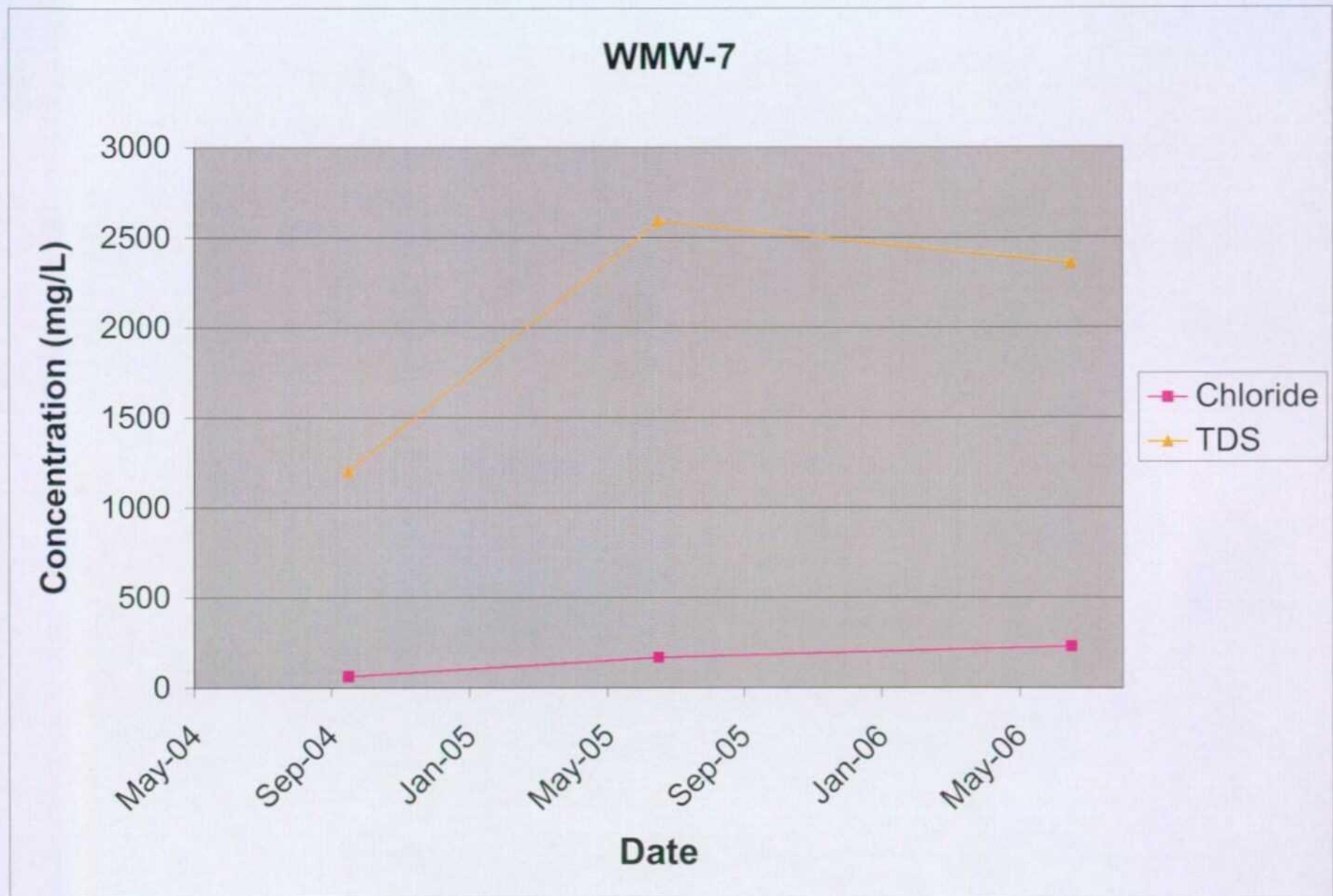
Wingate Fractionating Plant
Time Versus COC Concentration Graphs



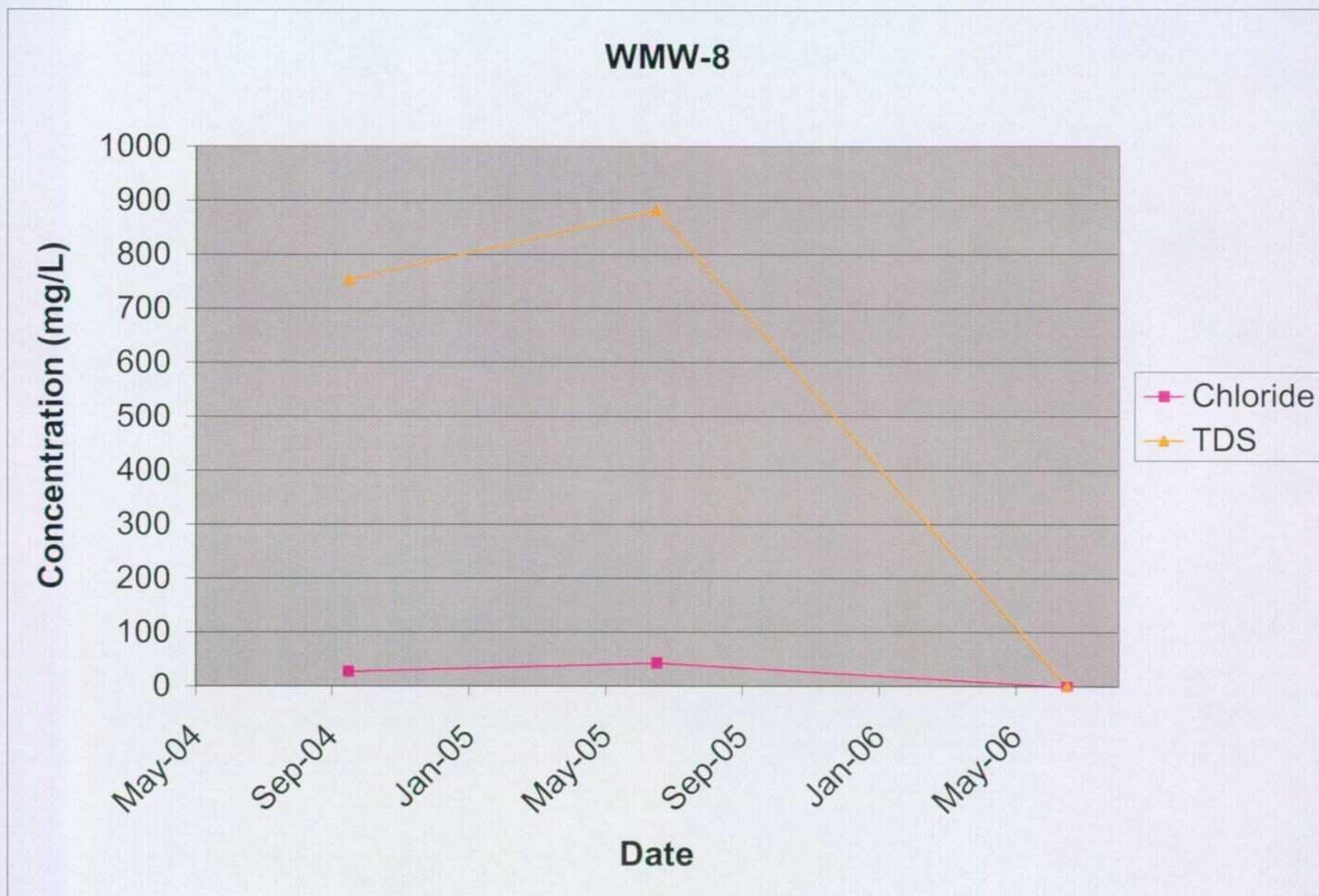
Wingate Fractionating Plant
Time Versus COC Concentration Graphs



Wingate Fractionating Plant
Time Versus COC Concentration Graphs



Wingate Fractionating Plant
Time Versus COC Concentration Graphs



Wingate Fractionating Plant Time Versus Groundwater Elevation Graphs

MWR-1 Groundwater Elevation Graph



MW-2 Groundwater Elevation Graph



MW-3 Groundwater Elevation Graph

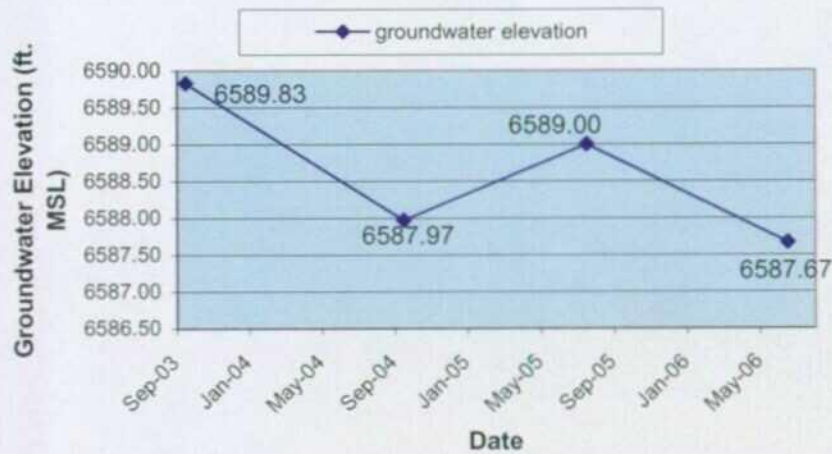


WMW-1 Groundwater Elevation Graph



Wingate Fractionating Plant Time Versus Groundwater Elevation Graphs

WMW-2 Groundwater Elevation Graph



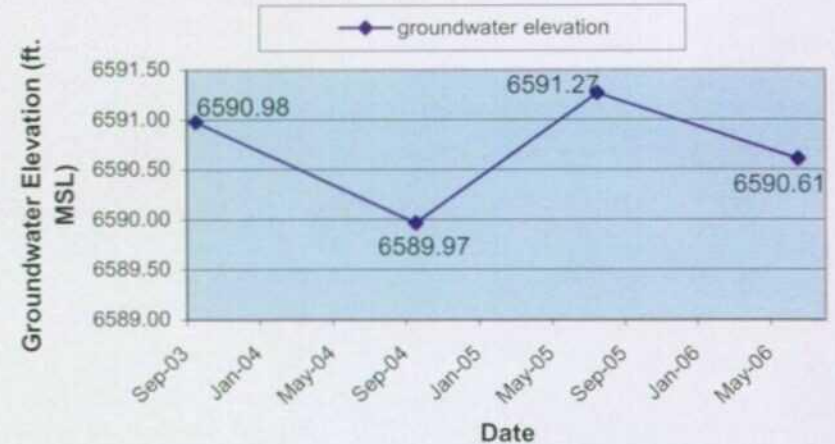
WMW-3 Groundwater Elevation Graph



WMW-4 Groundwater Elevation Graph



WMW-5 Groundwater Elevation Graph

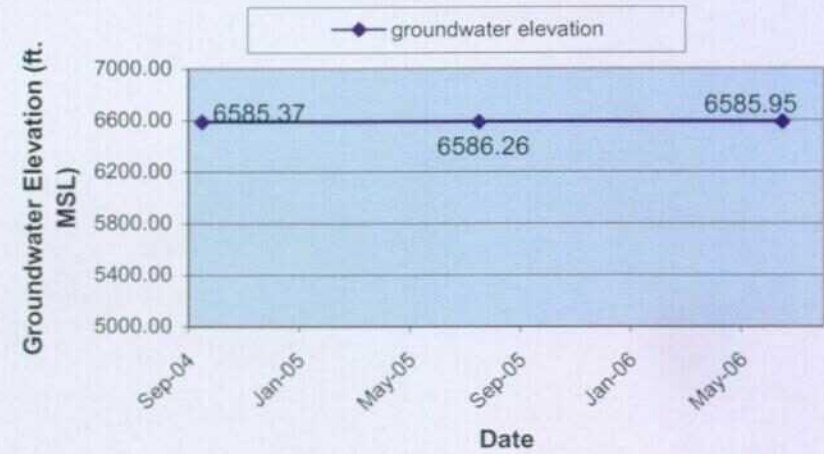


Wingate Fractionating Plant Time Versus Groundwater Elevation Graphs

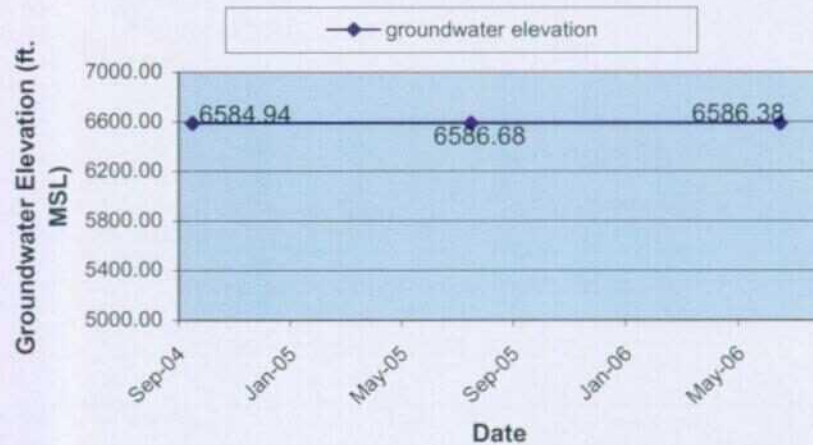
WMW-6 Groundwater Elevation Graph



WMW-7 Groundwater Elevation Graph



WMW-8 Groundwater Elevation Graph



1

Appendix B

APPENDIX B

Laboratory Analytical Reports and Chain-of-Custody



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2500 Fax 717-656-2681 • www.lancasterlabs.com

ANALYTICAL RESULTS

Prepared for:

ConocoPhillips
PO Box 2200
Bartlesville OK 74005

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 994274. Samples arrived at the laboratory on Wednesday, June 21, 2006. The PO# for this group is 4506659940 and the release number is KINGER.

Client Description

Pond 1(East Pond) Grab Water Sample
MW-2 Grab Water Sample
MWR-1 Grab Water Sample
MW-3 Grab Water Sample
WMW-8 Grab Water Sample

Lancaster Labs Number

4798040
4798041
4798042
4798043
4798044

ELECTRONIC Maxim Technologies
COPY TO

Attn: Kelly Henderson



Analysis Report

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Questions? Contact your Client Services Representative
Barbara A Weyandt at (717) 656-2300

Respectfully Submitted,

Earl R Custer

Earl R. Custer
Group Leader



Analysis Report

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Page 1 of 4

Lancaster Laboratories Sample No. WW 4798040

Pond 1(East Pond) Grab Water Sample
Site# 6051
Wingate Fractionation Plant-Gallup, NM

Collected: 06/20/2006 11:15 by KH

Account Number: 11288

Submitted: 06/21/2006 09:10
Reported: 07/07/2006 at 08:05
Discard: 08/07/2006

ConocoPhillips
PO Box 2200
Bartlesville OK 74005

EL-P1

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
00259	Mercury	7439-97-6	N.D.	0.000056	0.00020	mg/l	1
01750	Calcium	7440-70-2	1,400.	0.520	1.00	mg/l	5
01757	Magnesium	7439-95-4	889.	0.0675	0.500	mg/l	5
01767	Sodium	7440-23-5	9,640.	217.	500.	mg/l	500
07035	Arsenic	7440-38-2	0.0113	0.010	0.0200	mg/l	1
07036	Selenium	7782-49-2	N.D.	0.0094	0.0200	mg/l	1
07046	Barium	7440-39-3	0.117	0.00062	0.0050	mg/l	1
07049	Cadmium	7440-43-9	N.D.	0.00091	0.0050	mg/l	1
07051	Chromium	7440-47-3	N.D.	0.0023	0.0150	mg/l	1
07055	Lead	7439-92-1	N.D.	0.0069	0.0200	mg/l	1
07066	Silver	7440-22-4	N.D.	0.0016	0.0050	mg/l	1
08161	Tot Coli/E. coli (Quantitative)	n.a.	See Below			/100ml	n.a.
	Total Coliform	8.7	/100ml				
	E. coli	< 1.0	/100ml				
00200	pH	n.a.	10.4	0.010	0.010	Std. Units	1
00201	Alkalinity to pH 8.3	n.a.	58.1	0.46	2.0	mg/l as CaCO3	1
00202	Alkalinity to pH 4.5	n.a.	156.	0.46	2.0	mg/l as CaCO3	1
00212	Total Dissolved Solids	n.a.	34,800.	1,940.	6,000.	mg/l	10
00224	Chloride	16887-00-6	13,000.	1,000.	2,000.	mg/l	5000
00228	Sulfate	14808-79-8	9,180.	300.	1,000.	mg/l	1000
00235	Biochemical Oxygen Demand	n.a.	N.D.	11.9	11.9	mg/l	1
00368	Nitrate Nitrogen	14797-55-8	N.D.	0.25	0.50	mg/l	5
01553	Chemical Oxygen Demand	n.a.	147.	5.2	16.0	mg/l	2
04678	TCL SW846 Semivolatiles/Waters						
03871	4-Chloroaniline	106-47-8	N.D.	1.	5.	ug/l	1
03879	Dibenzofuran	132-64-9	N.D.	1.	5.	ug/l	1
03905	2-Methylnaphthalene	91-57-6	N.D.	1.	5.	ug/l	1
03907	2-Nitroaniline	88-74-4	N.D.	1.	5.	ug/l	1
03908	3-Nitroaniline	99-09-2	N.D.	1.	5.	ug/l	1
03909	4-Nitroaniline	100-01-6	N.D.	1.	5.	ug/l	1
03922	2,4,5-Trichlorophenol	95-95-4	N.D.	1.	5.	ug/l	1
03924	2-Chlorophenol	95-57-8	N.D.	1.	5.	ug/l	1
03925	Phenol	108-95-2	1.	1.	5.	ug/l	1
03926	2-Nitrophenol	88-75-5	N.D.	1.	5.	ug/l	1

*=This limit was used in the evaluation of the final result



Analysis Report

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Page 2 of 4

Lancaster Laboratories Sample No. WW 4798040

Pond 1(East Pond) Grab Water Sample
Site# 6051
Wingate Fractionation Plant-Gallup, NM

Collected:06/20/2006 11:15 by KH

Account Number: 11288

Submitted: 06/21/2006 09:10
Reported: 07/07/2006 at 08:05
Discard: 08/07/2006

ConocoPhillips
PO Box 2200
Bartlesville OK 74005

EL-P1

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
03927	2,4-Dimethylphenol	105-67-9	N.D.	3.	10.	ug/l	1
03928	2,4-Dichlorophenol	120-83-2	N.D.	1.	5.	ug/l	1
03929	4-Chloro-3-methylphenol	59-50-7	N.D.	1.	5.	ug/l	1
03930	2,4,6-Trichlorophenol	88-06-2	N.D.	1.	5.	ug/l	1
03931	2,4-Dinitrophenol	51-28-5	N.D.	19.	58.	ug/l	1
03932	4-Nitrophenol	100-02-7	N.D.	10.	29.	ug/l	1
03933	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5.	15.	ug/l	1
03934	Pentachlorophenol	87-86-5	N.D.	3.	15.	ug/l	1
03936	bis(2-Chloroethyl) ether	111-44-4	N.D.	1.	5.	ug/l	1
03937	1,3-Dichlorobenzene	541-73-1	N.D.	1.	5.	ug/l	1
03938	1,4-Dichlorobenzene	106-46-7	N.D.	1.	5.	ug/l	1
03939	1,2-Dichlorobenzene	95-50-1	N.D.	1.	5.	ug/l	1
03941	Hexachloroethane	67-72-1	N.D.	1.	5.	ug/l	1
03942	N-Nitroso-di-n-propylamine	621-64-7	N.D.	1.	5.	ug/l	1
03943	Nitrobenzene	98-95-3	N.D.	1.	5.	ug/l	1
03944	Isophorone	78-59-1	N.D.	1.	5.	ug/l	1
03945	bis(2-Chloroethoxy)methane	111-91-1	N.D.	1.	5.	ug/l	1
03946	1,2,4-Trichlorobenzene	120-82-1	N.D.	1.	5.	ug/l	1
03947	Naphthalene	91-20-3	N.D.	1.	5.	ug/l	1
03948	Hexachlorobutadiene	87-68-3	N.D.	1.	5.	ug/l	1
03949	Hexachlorocyclopentadiene	77-47-4	N.D.	5.	15.	ug/l	1
03950	2-Chloronaphthalene	91-58-7	N.D.	2.	5.	ug/l	1
03951	Acenaphthylene	208-96-8	N.D.	1.	5.	ug/l	1
03952	Dimethylphthalate	131-11-3	N.D.	2.	5.	ug/l	1
03953	2,6-Dinitrotoluene	606-20-2	N.D.	1.	5.	ug/l	1
03954	Acenaphthene	83-32-9	N.D.	1.	5.	ug/l	1
03955	2,4-Dinitrotoluene	121-14-2	N.D.	1.	5.	ug/l	1
03956	Fluorene	86-73-7	N.D.	1.	5.	ug/l	1
03957	4-Chlorophenyl-phenylether	7005-72-3	N.D.	2.	5.	ug/l	1
03958	Diethylphthalate	84-66-2	N.D.	2.	5.	ug/l	1
03960	N-Nitrosodiphenylamine	86-30-6	N.D.	2.	5.	ug/l	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
03961	4-Bromophenyl-phenylether	101-55-3	N.D.	1.	5.	ug/l	1
03962	Hexachlorobenzene	118-74-1	N.D.	1.	5.	ug/l	1
03963	Phenanthrene	85-01-8	N.D.	1.	5.	ug/l	1
03964	Anthracene	120-12-7	N.D.	1.	5.	ug/l	1
03965	Di-n-butylphthalate	84-74-2	N.D.	2.	5.	ug/l	1
03966	Fluoranthene	206-44-0	N.D.	1.	5.	ug/l	1
03967	Pyrene	129-00-0	N.D.	1.	5.	ug/l	1

*=This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. WW 4798040

Pond 1 (East Pond) Grab Water Sample
Site# 6051
Wingate Fractionation Plant-Gallup, NM

Collected: 06/20/2006 11:15 by KH

Account Number: 11288

Submitted: 06/21/2006 09:10
Reported: 07/07/2006 at 08:05
Discard: 08/07/2006

ConocoPhillips
PO Box 2200
Bartlesville OK 74005

EL-P1

CAT No.	Analysis Name	CAS Number	As Received Result	As Received	As Received	Units	Dilution Factor
				Method	Limit of		
				Detection	Quantitation		
				Limit*			
03969	Butylbenzylphthalate	85-68-7	N.D.	2.	5.	ug/l	1
03970	Benzo(a)anthracene	56-55-3	N.D.	1.	5.	ug/l	1
03971	Chrysene	218-01-9	N.D.	1.	5.	ug/l	1
03972	3,3'-Dichlorobenzidine	91-94-1	N.D.	2.	5.	ug/l	1
03973	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2.	5.	ug/l	1
03974	Di-n-octylphthalate	117-84-0	N.D.	2.	5.	ug/l	1
03975	Benzo(b)fluoranthene	205-99-2	N.D.	1.	5.	ug/l	1
03976	Benzo(k)fluoranthene	207-08-9	N.D.	1.	5.	ug/l	1
03977	Benzo(a)pyrene	50-32-8	N.D.	1.	5.	ug/l	1
03978	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	1.	5.	ug/l	1
03979	Dibenz(a,h)anthracene	53-70-3	N.D.	1.	5.	ug/l	1
03980	Benzo(g,h,i)perylene	191-24-2	N.D.	1.	5.	ug/l	1
04680	2-Methylphenol	95-48-7	N.D.	1.	5.	ug/l	1
04681	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	1.	5.	ug/l	1
04682	4-Methylphenol	106-44-5	N.D.	2.	5.	ug/l	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04684	Carbazole	86-74-8	N.D.	1.	5.	ug/l	1
02300	UST-Unleaded Waters by 8260B						
05401	Benzene	71-43-2	N.D.	0.5	5.	ug/l	1
05407	Toluene	108-88-3	N.D.	0.7	5.	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.8	5.	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.8	5.	ug/l	1

Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis	Analyst	Dilution Factor
				Date and Time		
00259	Mercury	SW-846 7470A	1	06/23/2006 15:18	Nelli S Markaryan	1
01750	Calcium	SW-846 6010B	1	07/06/2006 17:54	Amanda S Bitner	5
01757	Magnesium	SW-846 6010B	1	07/06/2006 17:54	Amanda S Bitner	5

*=This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. WW 4798040

Pond 1(East Pond) Grab Water Sample
Site# 6051
Wingate Fractionation Plant-Gallup, NM

Collected:06/20/2006 11:15 by KH

Account Number: 11288

Submitted: 06/21/2006 09:10
Reported: 07/07/2006 at 08:05
Discard: 08/07/2006

ConocoPhillips
PO Box 2200
Bartlesville OK 74005

EL-P1							
01767	Sodium	SW-846 6010B	1	07/06/2006 18:08	Amanda S Bitner	500	
07035	Arsenic	SW-846 6010B	1	07/04/2006 21:57	Eric L Eby	1	
07036	Selenium	SW-846 6010B	1	07/04/2006 21:57	Eric L Eby	1	
07046	Barium	SW-846 6010B	1	07/04/2006 21:57	Eric L Eby	1	
07049	Cadmium	SW-846 6010B	1	07/04/2006 21:57	Eric L Eby	1	
07051	Chromium	SW-846 6010B	1	07/04/2006 21:57	Eric L Eby	1	
07055	Lead	SW-846 6010B	1	07/04/2006 21:57	Eric L Eby	1	
07066	Silver	SW-846 6010B	1	07/04/2006 21:57	Eric L Eby	1	
08161	Tot Coli/E. coli (Quantitative)	SM20 9223 B	1	06/22/2006 14:20	Marlaina E Raines	n.a.	
00200	pH	EPA 150.1	1	06/21/2006 21:30	Luz M Groff	1	
00201	Alkalinity to pH 8.3	EPA 310.1	1	06/23/2006 07:00	Michelle L Lalli	1	
00202	Alkalinity to pH 4.5	EPA 310.1	1	06/23/2006 07:00	Michelle L Lalli	1	
00212	Total Dissolved Solids	EPA 160.1	1	06/22/2006 10:30	Susan E Hibner	10	
00224	Chloride	EPA 300.0	2	06/23/2006 06:39	Ashley M Heckman	5000	
00228	Sulfate	EPA 300.0	2	06/23/2006 06:25	Ashley M Heckman	1000	
00235	Biochemical Oxygen Demand	EPA 405.1	1	06/21/2006 13:11	Susan A Engle	1	
00368	Nitrate Nitrogen	EPA 300.0	1	06/21/2006 17:51	Ashley M Heckman	5	
01553	Chemical Oxygen Demand	EPA 410.2	1	06/28/2006 07:05	Susan A Engle	2	
04678	TCL SW846	SW-846 8270C	1	06/23/2006 12:36	Linda M Hartenstine	1	
02300	Semivolatiles/Waters UST-Unleaded Waters by 8260B	SW-846 8260B	1	06/26/2006 21:48	Parker D Lindstrom	1	
00813	BNA Water Extraction	SW-846 3510C	1	06/22/2006 05:00	David V Hershey Jr	1	
01163	GC/MS VOA Water Prep	SW-846 5030B	1	06/26/2006 21:48	Parker D Lindstrom	1	
01848	WW SW846 ICP Digest (total)	SW-846 3005A	1	06/23/2006 09:50	Megersa Deyessa	1	
05713	WW SW846 Hg Digest	SW-846 7470A	1	06/22/2006 20:15	Nelli S Markaryan	1	

*=This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. WW 4798041

MW-2 Grab Water Sample

Site# 6051

Wingate Fractionation Plant-Gallup, NM

Collected: 06/20/2006 12:00 by KH

Account Number: 11288

Submitted: 06/21/2006 09:10

ConocoPhillips

Reported: 07/07/2006 at 08:06

PO Box 2200

Discard: 08/07/2006

Bartlesville OK 74005

EL-M2

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
00259	Mercury	7439-97-6	N.D.	0.000056	0.00020	mg/l	1
01750	Calcium	7440-70-2	7.16	0.104	0.200	mg/l	1
01757	Magnesium	7439-95-4	3.57	0.0135	0.100	mg/l	1
01767	Sodium	7440-23-5	384.	10.8	25.0	mg/l	25
07035	Arsenic	7440-38-2	0.0212	0.010	0.0200	mg/l	1
07036	Selenium	7782-49-2	N.D.	0.0094	0.0200	mg/l	1
07046	Barium	7440-39-3	0.141	0.00062	0.0050	mg/l	1
07049	Cadmium	7440-43-9	N.D.	0.00091	0.0050	mg/l	1
07051	Chromium	7440-47-3	N.D.	0.0023	0.0150	mg/l	1
07055	Lead	7439-92-1	N.D.	0.0069	0.0200	mg/l	1
07066	Silver	7440-22-4	N.D.	0.0016	0.0050	mg/l	1
08161	Tot Coli/E. coli (Quantitray)	n.a.	See Below			/100ml	n.a.
	Total Coliform	< 1.0	/100ml				
	E. coli	< 1.0	/100ml				
00200	pH	n.a.	8.2	0.010	0.010	Std. Units	1
00201	Alkalinity to pH 8.3	n.a.	2.3	0.46	2.0	mg/l as CaCO3	1
00202	Alkalinity to pH 4.5	n.a.	712.	0.46	2.0	mg/l as CaCO3	1
00212	Total Dissolved Solids	n.a.	908.	38.8	120.	mg/l	1
00224	Chloride	16887-00-6	38.6	2.0	4.0	mg/l	10
00228	Sulfate	14808-79-8	22.9	1.5	5.0	mg/l	5
00235	Biochemical Oxygen Demand	n.a.	N.D.	5.8	5.8	mg/l	1
00368	Nitrate Nitrogen	14797-55-8	N.D.	0.25	0.50	mg/l	5
01553	Chemical Oxygen Demand	n.a.	28.3	2.6	8.0	mg/l	1
04678	TCL SW846 Semivolatiles/Waters						
03871	4-Chloroaniline	106-47-8	N.D.	1.	5.	ug/l	1
03879	Dibenzofuran	132-64-9	N.D.	1.	5.	ug/l	1
03905	2-Methylnaphthalene	91-57-6	N.D.	1.	5.	ug/l	1
03907	2-Nitroaniline	88-74-4	N.D.	1.	5.	ug/l	1
03908	3-Nitroaniline	99-09-2	N.D.	1.	5.	ug/l	1
03909	4-Nitroaniline	100-01-6	N.D.	1.	5.	ug/l	1
03922	2,4,5-Trichlorophenol	95-95-4	N.D.	1.	5.	ug/l	1
03924	2-Chlorophenol	95-57-8	N.D.	1.	5.	ug/l	1
03925	Phenol	108-95-2	N.D.	1.	5.	ug/l	1
03926	2-Nitrophenol	88-75-5	N.D.	1.	5.	ug/l	1

*=This limit was used in the evaluation of the final result



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Lancaster Laboratories Sample No. WW 4798041

MW-2 Grab Water Sample

Site# 6051

Wingate Fractionation Plant-Gallup, NM

Collected: 06/20/2006 12:00

by KH

Account Number: 11288

Submitted: 06/21/2006 09:10

Reported: 07/07/2006 at 08:06

Discard: 08/07/2006

ConocoPhillips

PO Box 2200

Bartlesville OK 74005

EL-M2

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
03927	2,4-Dimethylphenol	105-67-9	N.D.	3.	10.	ug/l	1
03928	2,4-Dichlorophenol	120-83-2	N.D.	1.	5.	ug/l	1
03929	4-Chloro-3-methylphenol	59-50-7	N.D.	1.	5.	ug/l	1
03930	2,4,6-Trichlorophenol	88-06-2	N.D.	1.	5.	ug/l	1
03931	2,4-Dinitrophenol	51-28-5	N.D.	19.	58.	ug/l	1
03932	4-Nitrophenol	100-02-7	N.D.	10.	29.	ug/l	1
03933	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5.	15.	ug/l	1
03934	Pentachlorophenol	87-86-5	N.D.	3.	15.	ug/l	1
03936	bis(2-Chloroethyl)ether	111-44-4	N.D.	1.	5.	ug/l	1
03937	1,3-Dichlorobenzene	541-73-1	N.D.	1.	5.	ug/l	1
03938	1,4-Dichlorobenzene	106-46-7	N.D.	1.	5.	ug/l	1
03939	1,2-Dichlorobenzene	95-50-1	N.D.	1.	5.	ug/l	1
03941	Hexachloroethane	67-72-1	N.D.	1.	5.	ug/l	1
03942	N-Nitroso-di-n-propylamine	621-64-7	N.D.	1.	5.	ug/l	1
03943	Nitrobenzene	98-95-3	N.D.	1.	5.	ug/l	1
03944	Isophorone	78-59-1	N.D.	1.	5.	ug/l	1
03945	bis(2-Chloroethoxy)methane	111-91-1	N.D.	1.	5.	ug/l	1
03946	1,2,4-Trichlorobenzene	120-82-1	N.D.	1.	5.	ug/l	1
03947	Naphthalene	91-20-3	N.D.	1.	5.	ug/l	1
03948	Hexachlorobutadiene	87-68-3	N.D.	1.	5.	ug/l	1
03949	Hexachlorocyclopentadiene	77-47-4	N.D.	5.	15.	ug/l	1
03950	2-Chloronaphthalene	91-58-7	N.D.	2.	5.	ug/l	1
03951	Acenaphthylene	208-96-8	N.D.	1.	5.	ug/l	1
03952	Dimethylphthalate	131-11-3	N.D.	2.	5.	ug/l	1
03953	2,6-Dinitrotoluene	606-20-2	N.D.	1.	5.	ug/l	1
03954	Acenaphthene	83-32-9	N.D.	1.	5.	ug/l	1
03955	2,4-Dinitrotoluene	121-14-2	N.D.	1.	5.	ug/l	1
03956	Fluorene	86-73-7	N.D.	1.	5.	ug/l	1
03957	4-Chlorophenyl-phenylether	7005-72-3	N.D.	2.	5.	ug/l	1
03958	Diethylphthalate	84-66-2	N.D.	2.	5.	ug/l	1
03960	N-Nitrosodiphenylamine	86-30-6	N.D.	2.	5.	ug/l	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
03961	4-Bromophenyl-phenylether	101-55-3	N.D.	1.	5.	ug/l	1
03962	Hexachlorobenzene	118-74-1	N.D.	1.	5.	ug/l	1
03963	Phenanthrene	85-01-8	N.D.	1.	5.	ug/l	1
03964	Anthracene	120-12-7	N.D.	1.	5.	ug/l	1
03965	Di-n-butylphthalate	84-74-2	N.D.	2.	5.	ug/l	1
03966	Fluoranthene	206-44-0	N.D.	1.	5.	ug/l	1
03967	Pyrene	129-00-0	N.D.	1.	5.	ug/l	1

*=This limit was used in the evaluation of the final result



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Lancaster Laboratories Sample No. WW 4798041

MW-2 Grab Water Sample

Site# 6051

Wingate Fractionation Plant-Gallup, NM

Collected: 06/20/2006 12:00

by KH

Account Number: 11288

Submitted: 06/21/2006 09:10

Reported: 07/07/2006 at 08:06

Discard: 08/07/2006

ConocoPhillips

PO Box 2200

Bartlesville OK 74005

EL-M2

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
03969	Butylbenzylphthalate	85-68-7	N.D.	2.	5.	ug/l	1
03970	Benzo(a)anthracene	56-55-3	N.D.	1.	5.	ug/l	1
03971	Chrysene	218-01-9	N.D.	1.	5.	ug/l	1
03972	3,3'-Dichlorobenzidine	91-94-1	N.D.	2.	5.	ug/l	1
03973	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2.	5.	ug/l	1
03974	Di-n-octylphthalate	117-84-0	N.D.	2.	5.	ug/l	1
03975	Benzo(b)fluoranthene	205-99-2	N.D.	1.	5.	ug/l	1
03976	Benzo(k)fluoranthene	207-08-9	N.D.	1.	5.	ug/l	1
03977	Benzo(a)pyrene	50-32-8	N.D.	1.	5.	ug/l	1
03978	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	1.	5.	ug/l	1
03979	Dibenz(a,h)anthracene	53-70-3	N.D.	1.	5.	ug/l	1
03980	Benzo(g,h,i)perylene	191-24-2	N.D.	1.	5.	ug/l	1
04680	2-Methylphenol	95-48-7	N.D.	1.	5.	ug/l	1
04681	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	1.	5.	ug/l	1
04682	4-Methylphenol	106-44-5	N.D.	2.	5.	ug/l	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04684	Carbazole	86-74-8	N.D.	1.	5.	ug/l	1
02300	UST-Unleaded Waters by 8260B						
05401	Benzene	71-43-2	N.D.	0.5	5.	ug/l	1
05407	Toluene	108-88-3	N.D.	0.7	5.	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.8	5.	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.8	5.	ug/l	1

Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00259	Mercury	SW-846 7470A	1	06/23/2006 15:25	Nelli S Markaryan	1
01750	Calcium	SW-846 6010B	1	07/04/2006 22:01	Eric L Eby	1
01757	Magnesium	SW-846 6010B	1	07/04/2006 22:01	Eric L Eby	1

*=This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. WW 4798041

MW-2 Grab Water Sample

Site# 6051

Wingate Fractionation Plant-Gallup, NM

Collected: 06/20/2006 12:00 by KH

Account Number: 11288

Submitted: 06/21/2006 09:10

ConocoPhillips

Reported: 07/07/2006 at 08:06

PO Box 2200

Discard: 08/07/2006

Bartlesville OK 74005

EL-M2

01767	Sodium	SW-846 6010B	1	07/06/2006 18:12	Amanda S Bitner	25
07035	Arsenic	SW-846 6010B	1	07/04/2006 22:01	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	07/04/2006 22:01	Eric L Eby	1
07046	Barium	SW-846 6010B	1	07/04/2006 22:01	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	07/04/2006 22:01	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	07/04/2006 22:01	Eric L Eby	1
07055	Lead	SW-846 6010B	1	07/04/2006 22:01	Eric L Eby	1
07066	Silver	SW-846 6010B	1	07/04/2006 22:01	Eric L Eby	1
08161	Tot Coli/E. coli (Quantitray)	SM20 9223 B	1	06/22/2006 14:20	Marlaina E Raines	n.a.
00200	pH	EPA 150.1	1	06/21/2006 21:30	Luz M Groff	1
00201	Alkalinity to pH 8.3	EPA 310.1	1	06/23/2006 07:00	Michelle L Lalli	1
00202	Alkalinity to pH 4.5	EPA 310.1	1	06/23/2006 07:00	Michelle L Lalli	1
00212	Total Dissolved Solids	EPA 160.1	1	06/22/2006 10:30	Susan E Hibner	1
00224	Chloride	EPA 300.0	1	06/27/2006 02:08	Ashley M Heckman	10
00228	Sulfate	EPA 300.0	1	06/21/2006 18:06	Ashley M Heckman	5
00235	Biochemical Oxygen Demand	EPA 405.1	1	06/21/2006 13:11	Susan A Engle	1
00368	Nitrate Nitrogen	EPA 300.0	1	06/21/2006 18:06	Ashley M Heckman	5
01553	Chemical Oxygen Demand	EPA 410.2	1	06/28/2006 07:05	Susan A Engle	1
04678	TCL SW346 Semivolatiles/Waters	SW-846 8270C	1	06/23/2006 12:58	Linda M Hartenstine	1
02300	UST-Unleaded Waters by 8260B	SW-846 8260B	1	06/26/2006 22:35	Parker D Lindstrom	1
00813	BNA Water Extraction	SW-846 3510C	1	06/22/2006 05:00	David V Hershey Jr	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	06/26/2006 22:35	Parker D Lindstrom	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	06/23/2006 09:50	Megersa Deyessa	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	06/22/2006 20:15	Nelli S Markaryan	1

*=This limit was used in the evaluation of the final result



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Lancaster Laboratories Sample No. WW 4798042

MWR-1 Grab Water Sample

Site# 6051

Wingate Fractionation Plant-Gallup, NM

Collected: 06/20/2006 13:00

by KH

Account Number: 11288

Submitted: 06/21/2006 09:10

Reported: 07/07/2006 at 08:06

Discard: 08/07/2006

ConocoPhillips

PO Box 2200

Bartlesville OK 74005

EL-R1

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
00259	Mercury	7439-97-6	N.D.	0.000056	0.00020	mg/l	1
01750	Calcium	7440-70-2	11.1	0.104	0.200	mg/l	1
01757	Magnesium	7439-95-4	6.61	0.0135	0.100	mg/l	1
01767	Sodium	7440-23-5	317.	8.66	20.0	mg/l	20
07035	Arsenic	7440-38-2	N.D.	0.010	0.0200	mg/l	1
07036	Selenium	7782-49-2	N.D.	0.0094	0.0200	mg/l	1
07046	Barium	7440-39-3	0.221	0.00062	0.0050	mg/l	1
07049	Cadmium	7440-43-9	N.D.	0.00091	0.0050	mg/l	1
07051	Chromium	7440-47-3	N.D.	0.0023	0.0150	mg/l	1
07055	Lead	7439-92-1	N.D.	0.0069	0.0200	mg/l	1
07066	Silver	7440-22-4	N.D.	0.0016	0.0050	mg/l	1
08161	Tot Coli/E. coli (Quantit-tray)	n.a.	See Below			/100ml	n.a.
	Total Coliform	< 1.0	/100ml				
	E. coli	< 1.0	/100ml				
00200	pH	n.a.	8.1	0.010	0.010	Std. Units	1
00201	Alkalinity to pH 8.3	n.a.	N.D.	0.46	2.0	mg/l as CaCO3	1
00202	Alkalinity to pH 4.5	n.a.	611.	0.46	2.0	mg/l as CaCO3	1
00212	Total Dissolved Solids	n.a.	684.	19.4	60.0	mg/l	1
00224	Chloride	16887-00-6	24.3	2.0	4.0	mg/l	10
00228	Sulfate	14808-79-8	43.6	1.5	5.0	mg/l	5
00235	Biochemical Oxygen Demand	n.a.	N.D.	5.0	5.0	mg/l	1
00368	Nitrate Nitrogen	14797-55-8	0.26	0.25	0.50	mg/l	5
01553	Chemical Oxygen Demand	n.a.	16.7	2.6	8.0	mg/l	1
04678	TCL SW846 Semivolatiles/Waters						
03871	4-Chloroaniline	106-47-8	N.D.	1.	5.	ug/l	1
03879	Dibenzofuran	132-64-9	N.D.	1.	5.	ug/l	1
03905	2-Methylnaphthalene	91-57-6	N.D.	1.	5.	ug/l	1
03907	2-Nitroaniline	88-74-4	N.D.	1.	5.	ug/l	1
03908	3-Nitroaniline	99-09-2	N.D.	1.	5.	ug/l	1
03909	4-Nitroaniline	100-01-6	N.D.	1.	5.	ug/l	1
03922	2,4,5-Trichlorophenol	95-95-4	N.D.	1.	5.	ug/l	1
03924	2-Chlorophenol	95-57-8	N.D.	1.	5.	ug/l	1
03925	Phenol	108-95-2	N.D.	1.	5.	ug/l	1
03926	2-Nitrophenol	88-75-5	N.D.	1.	5.	ug/l	1

*=This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. WW 4798042

MWR-1 Grab Water Sample

Site# 6051

Wingate Fractionation Plant-Gallup, NM

Collected: 06/20/2006 13:00

by KH

Account Number: 11288

Submitted: 06/21/2006 09:10

Reported: 07/07/2006 at 08:06

Discard: 08/07/2006

ConocoPhillips

PO Box 2200

Bartlesville OK 74005

EL-R1

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
03927	2,4-Dimethylphenol	105-67-9	N.D.	3.	10.	ug/l	1
03928	2,4-Dichlorophenol	120-83-2	N.D.	1.	5.	ug/l	1
03929	4-Chloro-3-methylphenol	59-50-7	N.D.	1.	5.	ug/l	1
03930	2,4,6-Trichlorophenol	88-06-2	N.D.	1.	5.	ug/l	1
03931	2,4-Dinitrophenol	51-28-5	N.D.	20.	60.	ug/l	1
03932	4-Nitrophenol	100-02-7	N.D.	10.	30.	ug/l	1
03933	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5.	15.	ug/l	1
03934	Pentachlorophenol	87-86-5	N.D.	3.	15.	ug/l	1
03936	bis(2-Chloroethyl) ether	111-44-4	N.D.	1.	5.	ug/l	1
03937	1,3-Dichlorobenzene	541-73-1	N.D.	1.	5.	ug/l	1
03938	1,4-Dichlorobenzene	106-46-7	N.D.	1.	5.	ug/l	1
03939	1,2-Dichlorobenzene	95-50-1	N.D.	1.	5.	ug/l	1
03941	Hexachloroethane	67-72-1	N.D.	1.	5.	ug/l	1
03942	N-Nitroso-di-n-propylamine	621-64-7	N.D.	1.	5.	ug/l	1
03943	Nitrobenzene	98-95-3	N.D.	1.	5.	ug/l	1
03944	Isophorone	78-59-1	N.D.	1.	5.	ug/l	1
03945	bis(2-Chloroethoxy)methane	111-91-1	N.D.	1.	5.	ug/l	1
03946	1,2,4-Trichlorobenzene	120-82-1	N.D.	1.	5.	ug/l	1
03947	Naphthalene	91-20-3	N.D.	1.	5.	ug/l	1
03948	Hexachlorobutadiene	87-68-3	N.D.	1.	5.	ug/l	1
03949	Hexachlorocyclopentadiene	77-47-4	N.D.	5.	15.	ug/l	1
03950	2-Chloronaphthalene	91-58-7	N.D.	2.	5.	ug/l	1
03951	Acenaphthylene	208-96-8	N.D.	1.	5.	ug/l	1
03952	Dimethylphthalate	131-11-3	N.D.	2.	5.	ug/l	1
03953	2,6-Dinitrotoluene	606-20-2	N.D.	1.	5.	ug/l	1
03954	Acenaphthene	83-32-9	N.D.	1.	5.	ug/l	1
03955	2,4-Dinitrotoluene	121-14-2	N.D.	1.	5.	ug/l	1
03956	Fluorene	86-73-7	N.D.	1.	5.	ug/l	1
03957	4-Chlorophenyl-phenylether	7005-72-3	N.D.	2.	5.	ug/l	1
03958	Diethylphthalate	84-66-2	N.D.	2.	5.	ug/l	1
03960	N-Nitrosodiphenylamine	86-30-6	N.D.	2.	5.	ug/l	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
03961	4-Bromophenyl-phenylether	101-55-3	N.D.	1.	5.	ug/l	1
03962	Hexachlorobenzene	118-74-1	N.D.	1.	5.	ug/l	1
03963	Phenanthrene	85-01-8	N.D.	1.	5.	ug/l	1
03964	Anthracene	120-12-7	N.D.	1.	5.	ug/l	1
03965	Di-n-butylphthalate	84-74-2	N.D.	2.	5.	ug/l	1
03966	Fluoranthene	206-44-0	N.D.	1.	5.	ug/l	1
03967	Pyrene	129-00-0	N.D.	1.	5.	ug/l	1

*=This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. WW 4798042

MWR-1 Grab Water Sample

Site# 6051

Wingate Fractionation Plant-Gallup, NM

Collected: 06/20/2006 13:00

by KH

Account Number: 11288

Submitted: 06/21/2006 09:10

Reported: 07/07/2006 at 08:06

Discard: 08/07/2006

ConocoPhillips

PO Box 2200

Bartlesville OK 74005

EL-R1

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
03969	Butylbenzylphthalate	85-68-7	N.D.	2.	5.	ug/l	1
03970	Benzo(a)anthracene	56-55-3	N.D.	1.	5.	ug/l	1
03971	Chrysene	218-01-9	N.D.	1.	5.	ug/l	1
03972	3,3'-Dichlorobenzidine	91-94-1	N.D.	2.	5.	ug/l	1
03973	bis(2-Ethylhexyl)phthalate	117-81-7	6.	2.	5.	ug/l	1
03974	Di-n-octylphthalate	117-84-0	N.D.	2.	5.	ug/l	1
03975	Benzo(b)fluoranthene	205-99-2	N.D.	1.	5.	ug/l	1
03976	Benzo(k)fluoranthene	207-08-9	N.D.	1.	5.	ug/l	1
03977	Benzo(a)pyrene	50-32-8	N.D.	1.	5.	ug/l	1
03978	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	1.	5.	ug/l	1
03979	Dibenz(a,h)anthracene	53-70-3	N.D.	1.	5.	ug/l	1
03980	Benzo(g,h,i)perylene	191-24-2	N.D.	1.	5.	ug/l	1
04680	2-Methylphenol	95-48-7	N.D.	1.	5.	ug/l	1
04681	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	1.	5.	ug/l	1
04682	4-Methylphenol	106-44-5	44.	2.	5.	ug/l	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04684	Carbazole	86-74-8	N.D.	1.	5.	ug/l	1
02300	UST-Unleaded Waters by 8260B						
05401	Benzene	71-43-2	N.D.	0.5	5.	ug/l	1
05407	Toluene	108-88-3	N.D.	0.7	5.	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.8	5.	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.8	5.	ug/l	1

Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00259	Mercury	SW-846 7470A	1	06/23/2006 15:27	Nelli S Markaryan	1
01750	Calcium	SW-846 6010B	1	07/04/2006 22:06	Eric L Eby	1
01757	Magnesium	SW-846 6010B	1	07/04/2006 22:06	Eric L Eby	1

*=This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. WW 4798042

MWR-1 Grab Water Sample

Site# 6051

Wingate Fractionation Plant-Gallup, NM

Collected: 06/20/2006 13:00 by KH

Account Number: 11288

Submitted: 06/21/2006 09:10

ConocoPhillips

Reported: 07/07/2006 at 08:06

PO Box 2200

Discard: 08/07/2006

Bartlesville OK 74005

EL-R1							
01767	Sodium	SW-846 6010B	1	07/06/2006 18:17	Amanda S Bitner	20	
07035	Arsenic	SW-846 6010B	1	07/04/2006 22:06	Eric L Eby	1	
07036	Selenium	SW-846 6010B	1	07/04/2006 22:06	Eric L Eby	1	
07046	Barium	SW-846 6010B	1	07/04/2006 22:06	Eric L Eby	1	
07049	Cadmium	SW-846 6010B	1	07/04/2006 22:06	Eric L Eby	1	
07051	Chromium	SW-846 6010B	1	07/04/2006 22:06	Eric L Eby	1	
07055	Lead	SW-846 6010B	1	07/04/2006 22:06	Eric L Eby	1	
07066	Silver	SW-846 6010B	1	07/04/2006 22:06	Eric L Eby	1	
08161	Tot Coli/E. coli (Quantitray)	SM20 9223 B	1	06/22/2006 14:20	Marlaina E Raines	n.a.	
00200	pH	EPA 150.1	1	06/21/2006 21:30	Luz M Groff	1	
00201	Alkalinity to pH 8.3	EPA 310.1	1	06/23/2006 07:00	Michelle L Lalli	1	
00202	Alkalinity to pH 4.5	EPA 310.1	1	06/23/2006 07:00	Michelle L Lalli	1	
00212	Total Dissolved Solids	EPA 160.1	1	06/22/2006 10:30	Susan E Hibner	1	
00224	Chloride	EPA 300.0	1	06/23/2006 06:54	Ashley M Heckman	10	
00228	Sulfate	EPA 300.0	1	06/21/2006 18:21	Ashley M Heckman	5	
00235	Biochemical Oxygen Demand	EPA 405.1	1	06/21/2006 13:11	Susan A Engle	1	
00368	Nitrate Nitrogen	EPA 300.0	1	06/21/2006 18:21	Ashley M Heckman	5	
01553	Chemical Oxygen Demand	EPA 410.2	1	06/28/2006 07:05	Susan A Engle	1	
04678	TCL SW846	SW-846 8270C	1	06/23/2006 16:08	Linda M Hartenstine	1	
02300	Semivclatiles/Waters UST-Unleaded Waters by 8260B	SW-846 8260B	1	06/26/2006 22:59	Parker D Lindstrom	1	
00813	BNA Water Extraction	SW-846 3510C	1	06/22/2006 05:00	David V Hershey Jr	1	
01163	GC/MS VOA Water Prep	SW-846 5030B	1	06/26/2006 22:59	Parker D Lindstrom	1	
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	06/23/2006 09:50	Megersa Deyessa	1	
05713	WW SW846 Hg Digest	SW-846 7470A	1	06/22/2006 20:15	Nelli S Markaryan	1	

*=This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. WW 4798043

MW-3 Grab Water Sample

Site# 6051

Wingate Fractionation Plant-Gallup, NM

Collected: 06/20/2006 14:15

by KH

Account Number: 11288

Submitted: 06/21/2006 09:10

Reported: 07/07/2006 at 08:06

Discard: 08/07/2006

ConocoPhillips

PO Box 2200

Bartlesville OK 74005

EL-M3

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
00259	Mercury	7439-97-6	N.D.	0.000056	0.00020	mg/l	1
01750	Calcium	7440-70-2	27.4	0.104	0.200	mg/l	1
01757	Magnesium	7439-95-4	13.3	0.0135	0.100	mg/l	1
01767	Sodium	7440-23-5	161.	4.33	10.0	mg/l	10
07035	Arsenic	7440-38-2	N.D.	0.010	0.0200	mg/l	1
07036	Selenium	7782-49-2	N.D.	0.0094	0.0200	mg/l	1
07046	Barium	7440-39-3	0.160	0.00062	0.0050	mg/l	1
07049	Cadmium	7440-43-9	N.D.	0.00091	0.0050	mg/l	1
07051	Chromium	7440-47-3	N.D.	0.0023	0.0150	mg/l	1
07055	Lead	7439-92-1	N.D.	0.0069	0.0200	mg/l	1
07066	Silver	7440-22-4	N.D.	0.0016	0.0050	mg/l	1
08161	Tot Coli/E. coli (Quantitray)	n.a.	See Below			/100ml	n.a.
	Total Coliform	< 1.0	/100ml				
	E. coli	< 1.0	/100ml				
00200	pH	n.a.	7.7	0.010	0.010	Std. Units	1
00201	Alkalinity to pH 8.3	n.a.	1.7	0.46	2.0	mg/l as CaCO3	1
00202	Alkalinity to pH 4.5	n.a.	394.	0.46	2.0	mg/l as CaCO3	1
00212	Total Dissolved Solids	n.a.	507.	9.7	30.0	mg/l	1
00224	Chloride	16887-00-6	19.5	1.0	2.0	mg/l	5
00228	Sulfate	14808-79-8	14.9	1.5	5.0	mg/l	5
00235	Biochemical Oxygen Demand	n.a.	N.D.	2.0	2.0	mg/l	1
00368	Nitrate Nitrogen	14797-55-8	N.D.	0.25	0.50	mg/l	5
01553	Chemical Oxygen Demand	n.a.	6.8	2.6	8.0	mg/l	1
04678	TCL SW846 Semivolatiles/Waters						
03871	4-Chloroaniline	106-47-8	N.D.	1.	5.	ug/l	1
03879	Dibenzofuran	132-64-9	N.D.	1.	5.	ug/l	1
03905	2-Methylnaphthalene	91-57-6	N.D.	1.	5.	ug/l	1
03907	2-Nitroaniline	88-74-4	N.D.	1.	5.	ug/l	1
03908	3-Nitroaniline	99-09-2	N.D.	1.	5.	ug/l	1
03909	4-Nitroaniline	100-01-6	N.D.	1.	5.	ug/l	1
03922	2,4,5-Trichlorophenol	95-95-4	N.D.	1.	5.	ug/l	1
03924	2-Chlorophenol	95-57-8	N.D.	1.	5.	ug/l	1
03925	Phenol	108-95-2	N.D.	1.	5.	ug/l	1
03926	2-Nitrophenol	88-75-5	N.D.	1.	5.	ug/l	1

*=This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. WW 4798043

MW-3 Grab Water Sample

Site# 6051

Wingate Fractionation Plant-Gallup, NM

Collected: 06/20/2006 14:15

by KH

Account Number: 11288

Submitted: 06/21/2006 09:10

Reported: 07/07/2006 at 08:06

Discard: 08/07/2006

ConocoPhillips

PO Box 2200

Bartlesville OK 74005

EL-M3

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
03927	2,4-Dimethylphenol	105-67-9	N.D.	3.	10.	ug/l	1
03928	2,4-Dichlorophenol	120-83-2	N.D.	1.	5.	ug/l	1
03929	4-Chloro-3-methylphenol	59-50-7	N.D.	1.	5.	ug/l	1
03930	2,4,6-Trichlorophenol	88-06-2	N.D.	1.	5.	ug/l	1
03931	2,4-Dinitrophenol	51-28-5	N.D.	20.	59.	ug/l	1
03932	4-Nitrophenol	100-02-7	N.D.	10.	29.	ug/l	1
03933	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5.	15.	ug/l	1
03934	Pentachlorophenol	87-86-5	N.D.	3.	15.	ug/l	1
03936	bis(2-Chloroethyl)ether	111-44-4	N.D.	1.	5.	ug/l	1
03937	1,3-Dichlorobenzene	541-73-1	N.D.	1.	5.	ug/l	1
03938	1,4-Dichlorobenzene	106-46-7	N.D.	1.	5.	ug/l	1
03939	1,2-Dichlorobenzene	95-50-1	N.D.	1.	5.	ug/l	1
03941	Hexachloroethane	67-72-1	N.D.	1.	5.	ug/l	1
03942	N-Nitroso-di-n-propylamine	621-64-7	N.D.	1.	5.	ug/l	1
03943	Nitrobenzene	98-95-3	N.D.	1.	5.	ug/l	1
03944	Isophorone	78-59-1	N.D.	1.	5.	ug/l	1
03945	bis(2-Chloroethoxy)methane	111-91-1	N.D.	1.	5.	ug/l	1
03946	1,2,4-Trichlorobenzene	120-82-1	N.D.	1.	5.	ug/l	1
03947	Naphthalene	91-20-3	N.D.	1.	5.	ug/l	1
03948	Hexachlorobutadiene	87-68-3	N.D.	1.	5.	ug/l	1
03949	Hexachlorocyclopentadiene	77-47-4	N.D.	5.	15.	ug/l	1
03950	2-Chloronaphthalene	91-58-7	N.D.	2.	5.	ug/l	1
03951	Acenaphthylene	208-96-8	N.D.	1.	5.	ug/l	1
03952	Dimethylphthalate	131-11-3	N.D.	2.	5.	ug/l	1
03953	2,6-Dinitrotoluene	606-20-2	N.D.	1.	5.	ug/l	1
03954	Acenaphthene	83-32-9	N.D.	1.	5.	ug/l	1
03955	2,4-Dinitrotoluene	121-14-2	N.D.	1.	5.	ug/l	1
03956	Fluorene	86-73-7	N.D.	1.	5.	ug/l	1
03957	4-Chlorophenyl-phenylether	7005-72-3	N.D.	2.	5.	ug/l	1
03958	Diethylphthalate	84-66-2	N.D.	2.	5.	ug/l	1
03960	N-Nitrosodiphenylamine	86-30-6	N.D.	2.	5.	ug/l	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
03961	4-Bromophenyl-phenylether	101-55-3	N.D.	1.	5.	ug/l	1
03962	Hexachlorobenzene	118-74-1	N.D.	1.	5.	ug/l	1
03963	Phenanthrene	85-01-8	N.D.	1.	5.	ug/l	1
03964	Anthracene	120-12-7	N.D.	1.	5.	ug/l	1
03965	Di-n-butylphthalate	84-74-2	N.D.	2.	5.	ug/l	1
03966	Fluoranthene	206-44-0	N.D.	1.	5.	ug/l	1
03967	Pyrene	129-00-0	N.D.	1.	5.	ug/l	1

*=This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. WW 4798043

MW-3 Grab Water Sample

Site# 6051

Wingate Fractionation Plant-Gallup, NM

Collected: 06/20/2006 14:15

by KH

Account Number: 11288

Submitted: 06/21/2006 09:10

Reported: 07/07/2006 at 08:06

Discard: 08/07/2006

ConocoPhillips

PO Box 2200

Bartlesville OK 74005

EL-M3

CAT No.	Analysis Name	CAS Number	As Received Result	As Received	As Received	Units	Dilution Factor
				Method	Limit of		
				Detection	Quantitation		
				Limit*			
03969	Butylbenzylphthalate	85-68-7	N.D.	2.	5.	ug/l	1
03970	Benzo(a)anthracene	56-55-3	N.D.	1.	5.	ug/l	1
03971	Chrysene	218-01-9	N.D.	1.	5.	ug/l	1
03972	3,3'-Dichlorobenzidine	91-94-1	N.D.	2.	5.	ug/l	1
03973	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2.	5.	ug/l	1
03974	Di-n-octylphthalate	117-84-0	N.D.	2.	5.	ug/l	1
03975	Benzo(b)fluoranthene	205-99-2	N.D.	1.	5.	ug/l	1
03976	Benzo(k)fluoranthene	207-08-9	N.D.	1.	5.	ug/l	1
03977	Benzo(a)pyrene	50-32-8	N.D.	1.	5.	ug/l	1
03978	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	1.	5.	ug/l	1
03979	Dibenz(a,h)anthracene	53-70-3	N.D.	1.	5.	ug/l	1
03980	Benzo(g,h,i)perylene	191-24-2	N.D.	1.	5.	ug/l	1
04680	2-Methylphenol	95-48-7	N.D.	1.	5.	ug/l	1
04681	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	1.	5.	ug/l	1
04682	4-Methylphenol	106-44-5	N.D.	2.	5.	ug/l	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04684	Carbazole	86-74-8	N.D.	1.	5.	ug/l	1
02300	UST-Unleaded Waters by 8260B						
05401	Benzene	71-43-2	N.D.	0.5	5.	ug/l	1
05407	Toluene	108-88-3	N.D.	0.7	5.	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.8	5.	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.8	5.	ug/l	1

Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis	Analyst	Dilution Factor
				Date and Time		
00259	Mercury	SW-846 7470A	1	06/23/2006 15:28	Nelli S Markaryan	1
01750	Calcium	SW-846 6010B	1	07/04/2006 22:11	Eric L Eby	1
01757	Magnesium	SW-846 6010B	1	07/04/2006 22:11	Eric L Eby	1

*=This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. WW 4798043

MW-3 Grab Water Sample

Site# 6051

Wingate Fractionation Plant-Gallup, NM

Collected: 06/20/2006 14:15 by KH

Account Number: 11288

Submitted: 06/21/2006 09:10

ConocoPhillips

Reported: 07/07/2006 at 08:06

PO Box 2200

Discard: 08/07/2006

Bartlesville OK 74005

EL-M3

01767	Sodium	SW-846 6010B	1	07/06/2006 18:22	Amanda S Bitner	10
07035	Arsenic	SW-846 6010B	1	07/04/2006 22:11	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	07/04/2006 22:11	Eric L Eby	1
07046	Barium	SW-846 6010B	1	07/04/2006 22:11	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	07/04/2006 22:11	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	07/04/2006 22:11	Eric L Eby	1
07055	Lead	SW-846 6010B	1	07/04/2006 22:11	Eric L Eby	1
07066	Silver	SW-846 6010B	1	07/04/2006 22:11	Eric L Eby	1
08161	Tot Coli/E. coli (Quantitative)	SM20 9223 B	1	06/22/2006 14:20	Marlaina E Raines	n.a.
00200	pH	EPA 150.1	1	06/21/2006 21:30	Luz M Groff	1
00201	Alkalinity to pH 8.3	EPA 310.1	1	06/23/2006 07:00	Michelle L Lalli	1
00202	Alkalinity to pH 4.5	EPA 310.1	1	06/23/2006 07:00	Michelle L Lalli	1
00212	Total Dissolved Solids	EPA 160.1	1	06/22/2006 10:30	Susan E Hibner	1
00224	Chloride	EPA 300.0	1	06/21/2006 19:06	Ashley M Heckman	5
00228	Sulfate	EPA 300.0	1	06/21/2006 19:06	Ashley M Heckman	5
00235	Biochemical Oxygen Demand	EPA 405.1	1	06/21/2006 13:11	Susan A Engle	1
00368	Nitrate Nitrogen	EPA 300.0	1	06/21/2006 19:06	Ashley M Heckman	5
01553	Chemical Oxygen Demand	EPA 410.2	1	06/28/2006 07:05	Susan A Engle	1
04678	TCL SW846 Semivolatiles/Waters	SW-846 8270C	1	06/23/2006 16:30	Linda M Hartenstine	1
02300	UST-Unleaded Waters by 8260B	SW-846 8260B	1	06/26/2006 23:22	Parker D Lindstrom	1
00813	BNA Water Extraction	SW-846 3510C	1	06/22/2006 05:00	David V Hershey Jr	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	06/26/2006 23:22	Parker D Lindstrom	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	06/23/2006 09:50	Megersa Deyessa	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	06/22/2006 20:15	Nelli S Markaryan	1

*=This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. WW 4798044

WMW-8 Grab Water Sample

Site# 6051

Wingate Fractionation Plant-Gallup, NM

Collected: 06/20/2006 14:35

by KH

Account Number: 11288

Submitted: 06/21/2006 09:10

Reported: 07/07/2006 at 08:06

Discard: 08/07/2006

ConocoPhillips

PO Box 2200

Bartlesville OK 74005

EL-M8

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
00259	Mercury	7439-97-6	N.D.	0.000056	0.00020	mg/l	1
01750	Calcium	7440-70-2	28.9	0.104	0.200	mg/l	1
01757	Magnesium	7439-95-4	14.8	0.0135	0.100	mg/l	1
01767	Sodium	7440-23-5	286.	8.66	20.0	mg/l	20
07035	Arsenic	7440-38-2	N.D.	0.010	0.0200	mg/l	1
07036	Selenium	7782-49-2	N.D.	0.0094	0.0200	mg/l	1
07046	Barium	7440-39-3	0.151	0.00062	0.0050	mg/l	1
07049	Cadmium	7440-43-9	N.D.	0.00091	0.0050	mg/l	1
07051	Chromium	7440-47-3	N.D.	0.0023	0.0150	mg/l	1
07055	Lead	7439-92-1	N.D.	0.0069	0.0200	mg/l	1
07066	Silver	7440-22-4	N.D.	0.0016	0.0050	mg/l	1
00201	Alkalinity to pH 8.3	n.a.	N.D.	0.46	2.0	mg/l as CaCO ₃	1
00202	Alkalinity to pH 4.5	n.a.	506.	0.46	2.0	mg/l as CaCO ₃	1
00368	Nitrate Nitrogen	14797-55-8	N.D.	0.25	0.50	mg/l	5
04678	TCL SW846 Semivolatiles/Waters						
03871	4-Chloroaniline	106-47-8	N.D.	1.	5.	ug/l	1
03879	Dibenzofuran	132-64-9	N.D.	1.	5.	ug/l	1
03905	2-Methylnaphthalene	91-57-6	N.D.	1.	5.	ug/l	1
03907	2-Nitroaniline	88-74-4	N.D.	1.	5.	ug/l	1
03908	3-Nitroaniline	99-09-2	N.D.	1.	5.	ug/l	1
03909	4-Nitroaniline	100-01-6	N.D.	1.	5.	ug/l	1
03922	2,4,5-Trichlorophenol	95-95-4	N.D.	1.	5.	ug/l	1
03924	2-Chlorophenol	95-57-8	N.D.	1.	5.	ug/l	1
03925	Phenol	108-95-2	N.D.	1.	5.	ug/l	1
03926	2-Nitrophenol	88-75-5	N.D.	1.	5.	ug/l	1
03927	2,4-Dimethylphenol	105-67-9	N.D.	3.	10.	ug/l	1
03928	2,4-Dichlorophenol	120-83-2	N.D.	1.	5.	ug/l	1
03929	4-Chloro-3-methylphenol	59-50-7	N.D.	1.	5.	ug/l	1
03930	2,4,6-Trichlorophenol	88-06-2	N.D.	1.	5.	ug/l	1
03931	2,4-Dinitrophenol	51-28-5	N.D.	20.	59.	ug/l	1
03932	4-Nitrophenol	100-02-7	N.D.	10.	30.	ug/l	1
03933	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5.	15.	ug/l	1
03934	Pentachlorophenol	87-86-5	N.D.	3.	15.	ug/l	1
03936	bis(2-Chloroethyl) ether	111-44-4	N.D.	1.	5.	ug/l	1
03937	1,3-Dichlorobenzene	541-73-1	N.D.	1.	5.	ug/l	1

*=This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. WW 4798044

WMW-8 Grab Water Sample

Site# 6051

Wingate Fractionation Plant-Gallup, NM

Collected: 06/20/2006 14:35

by KH

Account Number: 11288

Submitted: 06/21/2006 09:10

Reported: 07/07/2006 at 08:06

Discard: 08/07/2006

ConocoPhillips

PO Box 2200

Bartlesville OK 74005

EL-M8

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
03938	1,4-Dichlorobenzene	106-46-7	N.D.	1.	5.	ug/l	1
03939	1,2-Dichlorobenzene	95-50-1	N.D.	1.	5.	ug/l	1
03941	Hexachloroethane	67-72-1	N.D.	1.	5.	ug/l	1
03942	N-Nitroso-di-n-propylamine	621-64-7	N.D.	1.	5.	ug/l	1
03943	Nitrobenzene	98-95-3	N.D.	1.	5.	ug/l	1
03944	Isophorone	78-59-1	N.D.	1.	5.	ug/l	1
03945	bis(2-Chloroethoxy)methane	111-91-1	N.D.	1.	5.	ug/l	1
03946	1,2,4-Trichlorobenzene	120-82-1	N.D.	1.	5.	ug/l	1
03947	Naphthalene	91-20-3	N.D.	1.	5.	ug/l	1
03948	Hexachlorobutadiene	87-68-3	N.D.	1.	5.	ug/l	1
03949	Hexachlorocyclopentadiene	77-47-4	N.D.	5.	15.	ug/l	1
03950	2-Chloronaphthalene	91-58-7	N.D.	2.	5.	ug/l	1
03951	Acenaphthylene	208-96-8	N.D.	1.	5.	ug/l	1
03952	Dimethylphthalate	131-11-3	N.D.	2.	5.	ug/l	1
03953	2,6-Dinitrotoluene	606-20-2	N.D.	1.	5.	ug/l	1
03954	Acenaphthene	83-32-9	N.D.	1.	5.	ug/l	1
03955	2,4-Dinitrotoluene	121-14-2	N.D.	1.	5.	ug/l	1
03956	Fluorene	86-73-7	N.D.	1.	5.	ug/l	1
03957	4-Chlorophenyl-phenylether	7005-72-3	N.D.	2.	5.	ug/l	1
03958	Diethylphthalate	84-66-2	N.D.	2.	5.	ug/l	1
03960	N-Nitrosodiphenylamine	86-30-6	N.D.	2.	5.	ug/l	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
03961	4-Bromophenyl-phenylether	101-55-3	N.D.	1.	5.	ug/l	1
03962	Hexachlorobenzene	118-74-1	N.D.	1.	5.	ug/l	1
03963	Phenanthrene	85-01-8	N.D.	1.	5.	ug/l	1
03964	Anthracene	120-12-7	N.D.	1.	5.	ug/l	1
03965	Di-n-butylphthalate	84-74-2	N.D.	2.	5.	ug/l	1
03966	Fluoranthene	206-44-0	N.D.	1.	5.	ug/l	1
03967	Pyrene	129-00-0	N.D.	1.	5.	ug/l	1
03969	Butylbenzylphthalate	85-68-7	N.D.	2.	5.	ug/l	1
03970	Benzo(a)anthracene	56-55-3	N.D.	1.	5.	ug/l	1
03971	Chrysene	218-01-9	N.D.	1.	5.	ug/l	1
03972	3,3'-Dichlorobenzidine	91-94-1	N.D.	2.	5.	ug/l	1
03973	bis(2-Ethylhexyl)phthalate	117-81-7	2.	2.	5.	ug/l	1
03974	Di-n-octylphthalate	117-84-0	N.D.	2.	5.	ug/l	1
03975	Benzo(b)fluoranthene	205-99-2	N.D.	1.	5.	ug/l	1
03976	Benzo(k)fluoranthene	207-08-9	N.D.	1.	5.	ug/l	1
03977	Benzo(a)pyrene	50-32-8	N.D.	1.	5.	ug/l	1
03978	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	1.	5.	ug/l	1

*=This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. WW 4798044

WMW-8 Grab Water Sample

Site# 6051

Wingate Fractionation Plant-Gallup, NM

Collected: 06/20/2006 14:35 by KH

Account Number: 11288

Submitted: 06/21/2006 09:10

ConocoPhillips

Reported: 07/07/2006 at 08:06

PO Box 2200

Discard: 08/07/2006

Bartlesville OK 74005

EL-M8

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
03979	Dibenz(a,h)anthracene	53-70-3	N.D.	1.	5.	ug/l	1
03980	Benzo(g,h,i)perylene	191-24-2	N.D.	1.	5.	ug/l	1
04680	2-Methylphenol	95-48-7	N.D.	1.	5.	ug/l	1
04681	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	1.	5.	ug/l	1
04682	4-Methylphenol	106-44-5	N.D.	2.	5.	ug/l	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04684	Carbazole	86-74-8	N.D.	1.	5.	ug/l	1
02300	UST-Unleaded Waters by 8260B						
05401	Benzene	71-43-2	N.D.	0.5	5.	ug/l	1
05407	Toluene	108-88-3	N.D.	0.7	5.	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.8	5.	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.8	5.	ug/l	1

Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00259	Mercury	SW-846 7470A	1	06/23/2006 15:30	Nelli S Markaryan	1
01750	Calcium	SW-846 6010B	1	07/04/2006 22:15	Eric L Eby	1
01757	Magnesium	SW-846 6010B	1	07/04/2006 22:15	Eric L Eby	1
01767	Sodium	SW-846 6010B	1	07/06/2006 18:27	Amanda S Bitner	20
07035	Arsenic	SW-846 6010B	1	07/04/2006 22:15	Eric L Eby	1
07036	Selenium	SW-846 6010B	1	07/04/2006 22:15	Eric L Eby	1
07046	Barium	SW-846 6010B	1	07/04/2006 22:15	Eric L Eby	1
07049	Cadmium	SW-846 6010B	1	07/04/2006 22:15	Eric L Eby	1
07051	Chromium	SW-846 6010B	1	07/04/2006 22:15	Eric L Eby	1
07055	Lead	SW-846 6010B	1	07/04/2006 22:15	Eric L Eby	1
07066	Silver	SW-846 6010B	1	07/04/2006 22:15	Eric L Eby	1
00201	Alkalinity to pH 8.3	EPA 310.1	1	06/23/2006 07:00	Michelle L Lalli	1
00202	Alkalinity to pH 4.5	EPA 310.1	1	06/23/2006 07:00	Michelle L Lalli	1
00368	Nitrate Nitrogen	EPA 300.0	1	06/21/2006 19:21	Ashley M Heckman	5

*=This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. WW 4798044

WMW-8 Grab Water Sample

Site# 6051

Wingate Fractionation Plant-Gallup, NM

Collected: 05/20/2006 14:35 by KH

Account Number: 11288

Submitted: 06/21/2006 09:10

ConocoPhillips

Reported: 07/07/2006 at 08:06

PO Box 2200

Discard: 08/07/2006

Bartlesville OK 74005

EL-M8

04678	TCL SW846	SW-846 8270C	1	06/23/2006 16:52	Linda M Hartenstine	1
	Semivolatiles/Waters					
02300	UST-Unleaded Waters by	SW-846 8260B	1	06/26/2006 23:46	Parker D Lindstrom	1
	8260B					
00813	BNA Water Extraction	SW-846 3510C	1	06/22/2006 05:00	David V Hershey Jr	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	06/26/2006 23:46	Parker D Lindstrom	1
01848	WW SW846 ICP Digest (tot	SW-846 3005A	1	06/23/2006 09:50	Megersa Deyessa	1
	rec)					
05713	WW SW846 Hg Digest	SW-846 7470A	1	06/22/2006 20:15	Nelli S Markaryan	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: ConocoPhillips
Reported: 07/07/06 at 08:06 AM

Group Number: 994274

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 06172020001A	Sample number(s): 4798040-4798043				100		99-101		
pH									
Batch number: 06172023501A	Sample number(s): 4798040-4798043				100	94	85-115	5	8
Biochemical Oxygen Demand									
Batch number: 06172401101A	Sample number(s): 4798040-4798044								
Chloride	N.D.	0.20	0.40	mg/l	96		90-110		
Sulfate	N.D.	0.30	1.0	mg/l	97		89-110		
Nitrate Nitrogen	N.D.	0.050	0.10	mg/l	97		90-110		
Batch number: 06172WAE026	Sample number(s): 4798040-4798044								
4-Chloroaniline	N.D.	1.	5.	ug/l	79	85	39-116	8	30
Dibenzofuran	N.D.	1.	5.	ug/l	80	90	65-110	12	30
2-Methylnaphthalene	N.D.	1.	5.	ug/l	74	84	65-101	13	30
2-Nitroaniline	N.D.	1.	5.	ug/l	82	94	73-115	13	30
3-Nitroaniline	N.D.	1.	5.	ug/l	82	94	63-112	13	30
4-Nitroaniline	N.D.	1.	5.	ug/l	79	88	55-107	11	30
2,4,5-Trichlorophenol	N.D.	1.	5.	ug/l	89	90	70-115	1	30
2-Chlorophenol	N.D.	1.	5.	ug/l	90	93	63-112	3	30
Phenol	N.D.	1.	5.	ug/l	49	50	29-57	1	30
2-Nitrophenol	N.D.	1.	5.	ug/l	100	102	83-119	2	30
2,4-Dimethylphenol	N.D.	3.	10.	ug/l	79	88	60-107	10	30
2,4-Dichlorophenol	N.D.	1.	5.	ug/l	91	92	66-110	1	30
4-Chloro-3-methylphenol	N.D.	1.	5.	ug/l	89	95	74-113	6	30
2,4,6-Trichlorophenol	N.D.	1.	5.	ug/l	96	98	69-111	2	30
2,4-Dinitrophenol	N.D.	20.	60.	ug/l	84	85	44-130	0	30
4-Nitrophenol	N.D.	10.	30.	ug/l	36	38	14-77	3	30
4,6-Dinitro-2-methylphenol	N.D.	5.	15.	ug/l	89	92	56-130	3	30
Pentachlorophenol	N.D.	3.	15.	ug/l	77	85	48-108	11	30
bis(2-Chloroethyl) ether	N.D.	1.	5.	ug/l	76	86	57-110	12	30
1,3-Dichlorobenzene	N.D.	1.	5.	ug/l	73	84	52-106	14	30
1,4-Dichlorobenzene	N.D.	1.	5.	ug/l	74	84	54-103	13	30
1,2-Dichlorobenzene	N.D.	1.	5.	ug/l	74	84	58-100	13	30
Hexachloroethane	N.D.	1.	5.	ug/l	64	75	33-116	16	30
N-Nitroso-di-n-propylamine	N.D.	1.	5.	ug/l	77	87	56-109	12	30
Nitrobenzene	N.D.	1.	5.	ug/l	81	91	61-111	12	30
Isophorone	N.D.	1.	5.	ug/l	72	82	63-105	12	30
bis(2-Chloroethoxy) methane	N.D.	1.	5.	ug/l	86	96	69-119	11	30
1,2,4-Trichlorobenzene	N.D.	1.	5.	ug/l	76	86	62-106	12	30
Naphthalene	N.D.	1.	5.	ug/l	80	91	70-104	13	30
Hexachlorobutadiene	N.D.	1.	5.	ug/l	61	71	32-123	15	30
Hexachlorocyclopentadiene	N.D.	5.	15.	ug/l	64	74	32-152	14	30
2-Chloronaphthalene	N.D.	2.	5.	ug/l	69	77	56-100	11	30
Acenaphthylene	N.D.	1.	5.	ug/l	86	97	84-123	12	30
Dimethylphthalate	N.D.	2.	5.	ug/l	67	74	46-109	10	30
2,6-Dinitrotoluene	N.D.	1.	5.	ug/l	81	94	70-108	14	30

*- Outside of specification

**--This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.

Quality Control Summary

Client Name: ConocoPhillips
Reported: 07/07/06 at 08:06 AM

Group Number: 994274

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Acenaphthene	N.D.	1.	5.	ug/l	82	94	68-111	14	30
2,4-Dinitrotoluene	N.D.	1.	5.	ug/l	83	94	75-122	12	30
Fluorene	N.D.	1.	5.	ug/l	82	94	61-116	14	30
4-Chlorophenyl-phenylether	N.D.	2.	5.	ug/l	80	91	65-110	13	30
Diethylphthalate	N.D.	2.	5.	ug/l	76	87	61-110	13	30
N-Nitrosodiphenylamine	N.D.	2.	5.	ug/l	84	97	78-110	14	30
4-Bromophenyl-phenylether	N.D.	1.	5.	ug/l	83	94	67-110	12	30
Hexachlorobenzene	N.D.	1.	5.	ug/l	83	96	68-113	15	30
Phenanthrene	N.D.	1.	5.	ug/l	84	96	68-111	12	30
Anthracene	N.D.	1.	5.	ug/l	82	94	68-108	13	30
Di-n-butylphthalate	N.D.	2.	5.	ug/l	81	93	63-113	13	30
Fluoranthene	N.D.	1.	5.	ug/l	79	91	66-108	14	30
Pyrene	N.D.	1.	5.	ug/l	85	96	68-114	13	30
Butylbenzylphthalate	N.D.	2.	5.	ug/l	77	89	63-120	15	30
Benzo(a)anthracene	N.D.	1.	5.	ug/l	82	94	72-112	14	30
Chrysene	N.D.	1.	5.	ug/l	81	93	70-111	14	30
3,3'-Dichlorobenzidine	N.D.	2.	5.	ug/l	79	90	48-116	13	30
bis(2-Ethylhexyl)phthalate	N.D.	2.	5.	ug/l	80	93	62-126	15	30
Di-n-octylphthalate	N.D.	2.	5.	ug/l	83	94	58-118	13	30
Benzo(b)fluoranthene	N.D.	1.	5.	ug/l	80	99	67-117	21	30
Benzo(k)fluoranthene	N.D.	1.	5.	ug/l	88	92	67-120	5	30
Benzo(a)pyrene	N.D.	1.	5.	ug/l	84	97	68-121	14	30
Indeno(1,2,3-cd)pyrene	N.D.	1.	5.	ug/l	84	96	67-122	13	30
Dibenz(a,h)anthracene	N.D.	1.	5.	ug/l	90	101	71-129	11	30
Benzo(g,h,i)perylene	N.D.	1.	5.	ug/l	86	98	67-121	13	30
2-Methylphenol	N.D.	1.	5.	ug/l	78	81	56-105	4	30
2,2'-oxybis(1-Chloropropane)	N.D.	1.	5.	ug/l	92	109	68-133	18	30
4-Methylphenol	N.D.	2.	5.	ug/l	76	78	51-98	3	30
Carbazole	N.D.	1.	5.	ug/l	85	97	66-109	14	30
Batch number: 06173021201A	Sample number(s): 4798040-4798043								
Total Dissolved Solids	N.D.	9.7	30.0	mg/l	106		80-120		
Batch number: 061735713002	Sample number(s): 4798040-4798044								
Mercury	N.D.	0.00005	0.00020	mg/l	111		80-120		
Batch number: 06174020201A	Sample number(s): 4798040-4798044								
Alkalinity to pH 4.5					101		98-103		
Batch number: 061741848007	Sample number(s): 4798040-4798044								
Calcium	N.D.	0.104	0.200	mg/l	100		90-112		
Magnesium	N.D.	0.0135	0.100	mg/l	97		89-110		
Sodium	0.540	0.433	1.00	mg/l	106		80-120		
Arsenic	N.D.	0.010	0.0200	mg/l	104		80-120		
Selenium	N.D.	0.0094	0.0200	mg/l	101		80-120		
Barium	N.D.	0.00062	0.0050	mg/l	100		90-110		
Cadmium	N.D.	0.00091	0.0050	mg/l	100		90-112		
Chromium	N.D.	0.0023	0.0150	mg/l	101		90-110		
Lead	N.D.	0.0069	0.0200	mg/l	99		90-113		
Silver	N.D.	0.0016	0.0050	mg/l	101		90-118		
Batch number: 06179155301A	Sample number(s): 4798040-4798043								
Chemical Oxygen Demand					95		87-102		

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.

Quality Control Summary

Client Name: ConocoPhillips
Reported: 07/07/06 at 08:06 AM

Group Number: 994274

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCS %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: W061771AA	Sample number(s): 4798040-4798044								
Benzene	N.D.	0.5	5.	ug/l	93	94	85-117	1	30
Toluene	N.D.	0.7	5.	ug/l	89	91	85-115	2	30
Ethylbenzene	N.D.	0.8	5.	ug/l	90	91	82-119	1	30
Xylene (Total)	N.D.	0.8	5.	ug/l	93	94	83-113	1	30

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS	MSD	MS/MSD	RPD	BKG	DUP	DUP	Dup RPD
	%REC	%REC	Limits	RPD	MAX	Conc	Conc	Max
Batch number: 06172020001A pH	Sample number(s): 4798040-4798043 BKG: P798020							
						12.0	11.9	0
Batch number: 06172023501A Biochemical Oxygen Demand	119	124	67-144	4	9	1,280.	1,360.	6
Batch number: 06172401101A Chloride	102	99	90-110	1	20	158.	159.	1
Sulfate	99	96	90-110	3	20	2.8	2.8	0 (1)
Nitrate Nitrogen	96	96	90-110	0	20	0.45	0.45	0 (1)
Batch number: 06173021201A Total Dissolved Solids	103	104	60-140	0	5	2,060.	2,030.	2
Batch number: 061735713002 Mercury	108	100	80-120	8	20	N.D.	N.D.	-24 (1)
Batch number: 06174020201A Alkalinity to pH 8.3	Sample number(s): 4798040-4798044 UNSPK: P798046 BKG: P798046							
Alkalinity to pH 4.5	63*	64	64-130	1	2	N.D.	N.D.	0 (1)
						168.	172.	2
Batch number: 061741848007 Calcium	(2)	(2)	75-125	1	20	26.5	26.8	1
Magnesium	(2)	(2)	75-125	0	20	8.92	9.05	1
Sodium	(2)	(2)	75-125	1	20	25.3	25.3	0
Arsenic	108	107	75-125	1	20	N.D.	N.D.	99* (1)
Selenium	101	101	75-125	1	20	N.D.	N.D.	99* (1)
Barium	100	98	75-125	2	20	0.182	0.183	1
Cadmium	103	100	83-116	2	20	N.D.	N.D.	-450 (1)
Chromium	101	100	81-120	0	20	0.0056	0.0058	4 (1)
Lead	104	103	75-125	1	20	N.D.	N.D.	-500 (1)
Silver	101	101	75-125	0	20	N.D.	N.D.	32* (1)
Batch number: 06179155301A Chemical Oxygen Demand	106	102	60-129	4	5	147.	157.	7
Batch number: W061771AA Benzene	Sample number(s): 4798040-4798044 UNSPK: 4798040							
Toluene	98		83-128					
	95		83-127					

*-. Outside of specification

**-This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The background result was more than four times the spike added.



Analysis Report

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Quality Control Summary

Client Name: ConocoPhillips
Reported: 07/07/06 at 08:06 AM

Group Number: 994274

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

	MS	MSD	MS/MSD	RPD	BKG	DUP	DUP	Dup RPD
Analysis Name	%REC	%REC	Limits	RPD	MAX	Conc	Conc	Max
Ethylbenzene	93		82-129					
Xylene (Total)	96		82-130					

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: TCL SW846 Semivolatiles/Waters

Batch number: 06172WAE026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5
4798040	69	59	103	99
4798041	66	46	108	96
4798042	66	47	118	98
4798043	65	44	112	99
4798044	63	44	113	99
Blank	67	44	104	99
LCS	68	47	109	97
LCSD	67	47	111	98
Limits:	10-99	10-80	31-148	51-123

	2-Fluorobiphenyl	Terphenyl-d14
4798040	100	97
4798041	97	102
4798042	96	92
4798043	94	88
4798044	93	93
Blank	88	108
LCS	97	104
LCSD	98	105
Limits:	64-112	52-151

Analysis Name: UST-Unleaded Waters by 8260B

Batch number: W061771AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
4798040	105	96	87	90
4798041	108	96	88	91
4798042	107	94	87	90
4798043	108	97	86	90
4798044	108	97	87	91
Blank	105	97	88	90
LCS	104	95	89	96
LCSD	104	99	90	95
MS	107	98	90	95

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.



Analysis Report

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Quality Control Summary

Client Name: ConocoPhillips
Reported: 07/07/06 at 08:06 AM

Group Number: 994274

Surrogate Quality Control

Limits:	80-116	77-113	80-113	78-113
---------	--------	--------	--------	--------

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.

ConocoPhillips Analysis Request/Chain of Custody



001399

Acct. #: 11288 For Lancaster Laboratories use only
Group # 994274 Sample #: 4798040-44

Site #:				WNO #:				Matrix		Analyses Requested												Preservative Codes		Remarks													
Site Address:				ConocoPhillips PM:				Company Code:		Core Work Order#:		Total Lab Budget:		Consultant/Office:		Consultant Prj. Mgr:		Consultant Phone #:		Fax #:		Sampler		List total number of containers in the box under each analysis.		Preservative Codes		Remarks									
Sample Identification				Date Collected		Time Collected		Grab		Composite		Soil		Water		Oil		Air		Cd		Biog. Cl. Sed. Tox. PAHs		Metals		Total Carbon		BTEX		Semi-Vols		N: Nitrate		Alkalinity			
Pond 1 (East Pond)				6-20-06		11:15		✓				✓								X		X		X		X		X		X		X					
MW-2				6-20-06		12:00		✓				✓								X		X		X		X		X		X		X		X			
MWR-1				6-20-06		13:00		✓				✓								X		X		X		X		X		X		X		X			
MW-3				6-20-06		14:15		✓				✓								X		X		X		X		X		X		X		X			
WWW-8				6-20-06		14:35		✓				✓								X				X		X		X		X		X		X			

Turnaround Time Requested in Business Days (TAT) (please circle):				Relinquished by:		Date		Time		Received by:		Date		Time	
STD. TAT				V. Henderson		6/20/06		15:30							
24 hour															
5 day															
48 hour															
other															

Reporting Requirements (please circle)				Relinquished by:		Date		Time		Received by:		Date		Time	
NJ Reduced				V. Henderson		6/20/06		15:30							
NY ASP Cat. A															
Raw Data															
Diskette															
NY ASP Cat. B															
Full Type I															
Other															

Relinquished by Commercial Carrier:				Date		Time		Received by:		Date		Time	
UPS				6/20/06		15:30		V. Henderson		6/20/06		15:30	
FedEx													
Other													

Temperature Upon Receipt			
3.9°, 5.1°, 5.1°			

Lancaster Laboratories Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

N.D.	none detected	BMQL	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	MPN	Most Probable Number
IU	International Units	CP Units	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	NTU	nephelometric turbidity units
C	degrees Celsius	F	degrees Fahrenheit
Cal	(diet) calories	lb.	pound(s)
meq	milliequivalents	kg	kilogram(s)
g	gram(s)	mg	milligram(s)
ug	microgram(s)	l	liter(s)
ml	milliliter(s)	ul	microliter(s)
m3	cubic meter(s)	fib >5 um/ml	fibers greater than 5 microns in length per ml
<	less than – The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
ppm	parts per million – One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture.		

U.S. EPA data qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	B	Value is <CRDL, but ≥IDL
B	Analyte was also detected in the blank	E	Estimated due to interference
C	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike amount not within control limits
E	Concentration exceeds the calibration range of the instrument	S	Method of standard additions (MSA) used for calculation
J	Estimated value	U	Compound was not detected
N	Presumptive evidence of a compound (TICs only)	W	Post digestion spike out of control limits
P	Concentration difference between primary and confirmation columns >25%	*	Duplicate analysis not within control limits
U	Compound was not detected	+	Correlation coefficient for MSA <0.995
X,Y,Z	Defined in case narrative		

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Analysis Report

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ANALYTICAL RESULTS

Prepared for:

ConocoPhillips
PO Box 2200
Bartlesville OK 74005

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 994541. Samples arrived at the laboratory on Thursday, June 22, 2006. The PO# for this group is 4506659940 and the release number is KINGER.

<u>Client Description</u>	<u>Lancaster Labs Number</u>
WMW-7 Water Sample	4799280
WMW-6 Water Sample	4799281
WMW-3 Water Sample	4799282
WMW-1 Water Sample	4799283
WMW-4 Water Sample	4799284
WMW-5 Water Sample	4799285
WMW-2 Water Sample	4799286
Duplicate Water Sample	4799287
Trip Blank Water Sample	4799288

ELECTRONIC Maxim Technologies
COPY TO

Attn: Kelly Henderson



Analysis Report

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Questions? Contact your Client Services Representative
Barbara A Weyandt at (717) 656-2300

Respectfully Submitted,

Michele J. Smith

Michele J. Smith
Group Leader



Analysis Report

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Lancaster Laboratories Sample No. WW 4799280

WMW-7 Water Sample

Site# 6051

Wingate Fractionation Plant-Gallup, NM

Collected: 06/21/2006 08:25 by KH

Account Number: 11288

Submitted: 06/22/2006 08:55

Reported: 07/11/2006 at 09:30

Discard: 08/11/2006

ConocoPhillips

PO Box 2200

Bartlesville OK 74005

WMW07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
00259	Mercury	7439-97-6	N.D.	0.000056	0.00020	mg/l	1
01750	Calcium	7440-70-2	42.2	0.104	0.200	mg/l	1
01757	Magnesium	7439-95-4	22.2	0.0135	0.100	mg/l	1
01767	Sodium	7440-23-5	776.	21.7	50.0	mg/l	50
07035	Arsenic	7440-38-2	N.D.	0.010	0.0200	mg/l	1
07036	Selenium	7782-49-2	N.D.	0.0094	0.0200	mg/l	1
07046	Barium	7440-39-3	0.0315	0.00062	0.0050	mg/l	1
07049	Cadmium	7440-43-9	N.D.	0.00091	0.0050	mg/l	1
07051	Chromium	7440-47-3	N.D.	0.0023	0.0150	mg/l	1
07055	Lead	7439-92-1	N.D.	0.0069	0.0200	mg/l	1
07066	Silver	7440-22-4	N.D.	0.0016	0.0050	mg/l	1
00200	pH	n.a.	7.6	0.010	0.010	Std. Units	1
00201	Alkalinity to pH 8.3	n.a.	N.D.	0.46	2.0	mg/l as CaCO3	1
00202	Alkalinity to pH 4.5	n.a.	589.	0.46	2.0	mg/l as CaCO3	1
00212	Total Dissolved Solids	n.a.	2,360.	77.6	240.	mg/l	1
00224	Chloride	16887-00-6	234.	20.0	40.0	mg/l	100
00228	Sulfate	14808-79-8	1,080.	60.0	200.	mg/l	200
00368	Nitrate Nitrogen	14797-55-8	N.D.	0.25	0.50	mg/l	5
04678	TCL SW846 Semivolatiles/Waters						
03871	4-Chloroaniline	106-47-8	N.D.	1.	5.	ug/l	1
03879	Dibenzofuran	132-64-9	N.D.	1.	5.	ug/l	1
03905	2-Methylnaphthalene	91-57-6	N.D.	1.	5.	ug/l	1
03907	2-Nitroaniline	88-74-4	N.D.	1.	5.	ug/l	1
03908	3-Nitroaniline	99-09-2	N.D.	1.	5.	ug/l	1
03909	4-Nitroaniline	100-01-6	N.D.	1.	5.	ug/l	1
03922	2,4,5-Trichlorophenol	95-95-4	N.D.	1.	5.	ug/l	1
03924	2-Chlorophenol	95-57-8	N.D.	1.	5.	ug/l	1
03925	Phenol	108-95-2	N.D.	1.	5.	ug/l	1
03926	2-Nitrophenol	88-75-5	N.D.	1.	5.	ug/l	1
03927	2,4-Dimethylphenol	105-67-9	N.D.	3.	10.	ug/l	1
03928	2,4-Dichlorophenol	120-83-2	N.D.	1.	5.	ug/l	1
03929	4-Chloro-3-methylphenol	59-50-7	N.D.	1.	5.	ug/l	1
03930	2,4,6-Trichlorophenol	88-06-2	N.D.	1.	5.	ug/l	1
03931	2,4-Dinitrophenol	51-28-5	N.D.	20.	60.	ug/l	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories Sample No. WW 4799280

WMW-7 Water Sample

Site# 6051

Wingate Fractionation Plant-Gallup, NM

Collected: 06/21/2006 08:25

by KH

Account Number: 11288

Submitted: 06/22/2006 08:55

Reported: 07/11/2006 at 09:30

Discard: 08/11/2006

ConocoPhillips

PO Box 2200

Bartlesville OK 74005

WMW07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
03932	4-Nitrophenol	100-02-7	N.D.	10.	30.	ug/l	1
03933	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5.	15.	ug/l	1
03934	Pentachlorophenol	87-86-5	N.D.	3.	15.	ug/l	1
03936	bis(2-Chloroethyl) ether	111-44-4	N.D.	1.	5.	ug/l	1
03937	1,3-Dichlorobenzene	541-73-1	N.D.	1.	5.	ug/l	1
03938	1,4-Dichlorobenzene	106-46-7	N.D.	1.	5.	ug/l	1
03939	1,2-Dichlorobenzene	95-50-1	N.D.	1.	5.	ug/l	1
03941	Hexachloroethane	67-72-1	N.D.	1.	5.	ug/l	1
03942	N-Nitroso-di-n-propylamine	621-64-7	N.D.	1.	5.	ug/l	1
03943	Nitrobenzene	98-95-3	N.D.	1.	5.	ug/l	1
03944	Isophorone	78-59-1	N.D.	1.	5.	ug/l	1
03945	bis(2-Chloroethoxy) methane	111-91-1	N.D.	1.	5.	ug/l	1
03946	1,2,4-Trichlorobenzene	120-82-1	N.D.	1.	5.	ug/l	1
03947	Naphthalene	91-20-3	N.D.	1.	5.	ug/l	1
03948	Hexachlorobutadiene	87-68-3	N.D.	1.	5.	ug/l	1
03949	Hexachlorocyclopentadiene	77-47-4	N.D.	5.	15.	ug/l	1
03950	2-Chloronaphthalene	91-58-7	N.D.	2.	5.	ug/l	1
03951	Acenaphthylene	208-96-8	N.D.	1.	5.	ug/l	1
03952	Dimethylphthalate	131-11-3	N.D.	2.	5.	ug/l	1
03953	2,6-Dinitrotoluene	606-20-2	N.D.	1.	5.	ug/l	1
03954	Acenaphthene	83-32-9	N.D.	1.	5.	ug/l	1
03955	2,4-Dinitrotoluene	121-14-2	N.D.	1.	5.	ug/l	1
03956	Fluorene	86-73-7	N.D.	1.	5.	ug/l	1
03957	4-Chlorophenyl-phenylether	7005-72-3	N.D.	2.	5.	ug/l	1
03958	Diethylphthalate	84-66-2	N.D.	2.	5.	ug/l	1
03960	N-Nitrosodiphenylamine	86-30-6	N.D.	2.	5.	ug/l	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
03961	4-Bromophenyl-phenylether	101-55-3	N.D.	1.	5.	ug/l	1
03962	Hexachlorobenzene	118-74-1	N.D.	1.	5.	ug/l	1
03963	Phenanthrene	85-01-8	N.D.	1.	5.	ug/l	1
03964	Anthracene	120-12-7	N.D.	1.	5.	ug/l	1
03965	Di-n-butylphthalate	84-74-2	N.D.	2.	5.	ug/l	1
03966	Fluoranthene	206-44-0	N.D.	1.	5.	ug/l	1
03967	Pyrene	129-00-0	N.D.	1.	5.	ug/l	1
03969	Butylbenzylphthalate	85-68-7	N.D.	2.	5.	ug/l	1
03970	Benzo(a)anthracene	56-55-3	N.D.	1.	5.	ug/l	1
03971	Chrysene	218-01-9	N.D.	1.	5.	ug/l	1
03972	3,3'-Dichlorobenzidine	91-94-1	N.D.	2.	5.	ug/l	1
03973	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2.	5.	ug/l	1

* = This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. WW 4799280

WMW-7 Water Sample

Site# 6051

Wingate Fractionation Plant-Gallup, NM

Collected: 06/21/2006 08:25

by KH

Account Number: 11288

Submitted: 06/22/2006 08:55

Reported: 07/11/2006 at 09:30

Discard: 08/11/2006

ConocoPhillips

PO Box 2200

Bartlesville OK 74005

WMW07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
03974	Di-n-octylphthalate	117-84-0	N.D.	2.	5.	ug/l	1
03975	Benzo(b)fluoranthene	205-99-2	N.D.	1.	5.	ug/l	1
03976	Benzo(k)fluoranthene	207-08-9	N.D.	1.	5.	ug/l	1
03977	Benzo(a)pyrene	50-32-8	N.D.	1.	5.	ug/l	1
03978	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	1.	5.	ug/l	1
03979	Dibenz(a,h)anthracene	53-70-3	N.D.	1.	5.	ug/l	1
03980	Benzo(g,h,i)perylene	191-24-2	N.D.	1.	5.	ug/l	1
04680	2-Methylphenol	95-48-7	N.D.	1.	5.	ug/l	1
04681	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	1.	5.	ug/l	1
04682	4-Methylphenol	106-44-5	N.D.	2.	5.	ug/l	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04684	Carbazole	86-74-8	N.D.	1.	5.	ug/l	1
02300	UST-Unleaded Waters by 8260B						
05401	Benzene	71-43-2	N.D.	0.5	5.	ug/l	1
05407	Toluene	108-88-3	N.D.	0.7	5.	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.8	5.	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.8	5.	ug/l	1

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00259	Mercury	SW-846 7470A	1	06/27/2006 17:28	Nelli S Markaryan	1
01750	Calcium	SW-846 6010B	1	06/26/2006 01:55	Suzette L Lehman	1
01757	Magnesium	SW-846 6010B	1	06/26/2006 01:55	Suzette L Lehman	1
01767	Sodium	SW-846 6010B	1	06/27/2006 21:16	John P Hook	50
07035	Arsenic	SW-846 6010B	1	06/26/2006 01:55	Suzette L Lehman	1
07036	Selenium	SW-846 6010B	1	06/26/2006 01:55	Suzette L Lehman	1
07046	Barium	SW-846 6010B	1	06/26/2006 01:55	Suzette L Lehman	1
07049	Cadmium	SW-846 6010B	1	06/26/2006 01:55	Suzette L Lehman	1
07051	Chromium	SW-846 6010B	1	06/26/2006 01:55	Suzette L Lehman	1
07055	Lead	SW-846 6010B	1	06/26/2006 01:55	Suzette L Lehman	1
07066	Silver	SW-846 6010B	1	06/26/2006 01:55	Suzette L Lehman	1

*=This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. WW 4799280

WMW-7 Water Sample

Site# 6051

Wingate Fractionation Plant-Gallup, NM

Collected: 06/21/2006 08:25

by KH

Account Number: 11288

Submitted: 06/22/2006 08:55

Reported: 07/11/2006 at 09:30

Discard: 08/11/2006

ConocoPhillips

PO Box 2200

Bartlesville OK 74005

WMW07

00200	pH	EPA 150.1	1	06/22/2006 23:10	Luz M Groff	1
00201	Alkalinity to pH 8.3	EPA 310.1	1	06/28/2006 07:30	Michelle L Lalli	1
00202	Alkalinity to pH 4.5	EPA 310.1	1	06/28/2006 07:30	Michelle L Lalli	1
00212	Total Dissolved Solids	EPA 160.1	1	06/26/2006 09:38	Yolunder Y Bunch	1
00224	Chloride	EPA 300.0	2	06/23/2006 08:39	Ashley M Heckman	100
00228	Sulfate	EPA 300.0	1	06/24/2006 09:16	Ashley M Heckman	200
00368	Nitrate Nitrogen	EPA 300.0	1	06/23/2006 09:28	Ashley M Heckman	5
04678	TCL SW846	SW-846 8270C	1	06/27/2006 08:05	Mark A Clark	1
	Semivolatiles/Waters					
02300	UST-Unleaded Waters by 8260B	SW-846 8260B	1	06/26/2006 12:03	Seth J Good	1
00813	BNA Water Extraction	SW-846 3510C	1	06/24/2006 16:30	Emma L Eck	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	06/26/2006 12:03	Seth J Good	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	06/24/2006 18:43	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	06/26/2006 18:15	Nelli S Markaryan	1

*=This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. WW 4799281

WMW-6 Water Sample

Site# 6051

Wingate Fractionation Plant-Gallup, NM

Collected: 06/21/2006 09:00

by KH

Account Number: 11288

Submitted: 06/22/2006 08:55

Reported: 07/11/2006 at 09:30

Discard: 08/11/2006

ConocoPhillips

PO Box 2200

Bartlesville OK 74005

WMW06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
00259	Mercury	7439-97-6	N.D.	0.000056	0.00020	mg/l	1
01750	Calcium	7440-70-2	38.1	0.104	0.200	mg/l	1
01757	Magnesium	7439-95-4	14.1	0.0135	0.100	mg/l	1
01767	Sodium	7440-23-5	300.	4.33	10.0	mg/l	10
07035	Arsenic	7440-38-2	N.D.	0.010	0.0200	mg/l	1
07036	Selenium	7782-49-2	N.D.	0.0094	0.0200	mg/l	1
07046	Barium	7440-39-3	0.0490	0.00062	0.0050	mg/l	1
07049	Cadmium	7440-43-9	N.D.	0.00091	0.0050	mg/l	1
07051	Chromium	7440-47-3	N.D.	0.0023	0.0150	mg/l	1
07055	Lead	7439-92-1	N.D.	0.0069	0.0200	mg/l	1
07066	Silver	7440-22-4	N.D.	0.0016	0.0050	mg/l	1
00200	pH	n.a.	7.7	0.010	0.010	Std.	1
00201	Alkalinity to pH 8.3	n.a.	N.D.	0.46	2.0	Units mg/l as CaCO3	1
00202	Alkalinity to pH 4.5	n.a.	448.	0.46	2.0	mg/l as CaCO3	1
00212	Total Dissolved Solids	n.a.	966.	38.8	120.	mg/l	1
00224	Chloride	16887-00-6	58.9	10.0	20.0	mg/l	50
00228	Sulfate	14808-79-8	293.	15.0	50.0	mg/l	50
00368	Nitrate Nitrogen	14797-55-8	N.D.	0.25	0.50	mg/l	5
04678	TCL SW346 Semivolatiles/Waters						
03871	4-Chloroaniline	106-47-8	N.D.	1.	5.	ug/l	1
03879	Dibenzofuran	132-64-9	N.D.	1.	5.	ug/l	1
03905	2-Methylnaphthalene	91-57-6	N.D.	1.	5.	ug/l	1
03907	2-Nitroaniline	88-74-4	N.D.	1.	5.	ug/l	1
03908	3-Nitroaniline	99-09-2	N.D.	1.	5.	ug/l	1
03909	4-Nitroaniline	100-01-6	N.D.	1.	5.	ug/l	1
03922	2,4,5-Trichlorophenol	95-95-4	N.D.	1.	5.	ug/l	1
03924	2-Chlorophenol	95-57-8	N.D.	1.	5.	ug/l	1
03925	Phenol	108-95-2	N.D.	1.	5.	ug/l	1
03926	2-Nitrophenol	88-75-5	N.D.	1.	5.	ug/l	1
03927	2,4-Dimethylphenol	105-67-9	N.D.	3.	10.	ug/l	1
03928	2,4-Dichlorophenol	120-83-2	N.D.	1.	5.	ug/l	1
03929	4-Chloro-3-methylphenol	59-50-7	N.D.	1.	5.	ug/l	1
03930	2,4,6-Trichlorophenol	88-06-2	N.D.	1.	5.	ug/l	1
03931	2,4-Dinitrophenol	51-28-5	N.D.	20.	60.	ug/l	1

*=This limit was used in the evaluation of the final result



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Lancaster Laboratories Sample No. WW 4799281

WMW-6 Water Sample

Site# 6051

Wingate Fractionation Plant-Gallup, NM

Collected: 06/21/2006 09:00

by KH

Account Number: 11288

Submitted: 06/22/2006 08:55

Reported: 07/11/2006 at 09:30

Discard: 08/11/2006

ConocoPhillips

PO Box 2200

Bartlesville OK 74005

WMW06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
03932	4-Nitrophenol	100-02-7	N.D.	10.	30.	ug/l	1
03933	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5.	15.	ug/l	1
03934	Pentachlorophenol	87-86-5	N.D.	3.	15.	ug/l	1
03936	bis(2-Chloroethyl) ether	111-44-4	N.D.	1.	5.	ug/l	1
03937	1,3-Dichlorobenzene	541-73-1	N.D.	1.	5.	ug/l	1
03938	1,4-Dichlorobenzene	106-46-7	N.D.	1.	5.	ug/l	1
03939	1,2-Dichlorobenzene	95-50-1	N.D.	1.	5.	ug/l	1
03941	Hexachloroethane	67-72-1	N.D.	1.	5.	ug/l	1
03942	N-Nitroso-di-n-propylamine	621-64-7	N.D.	1.	5.	ug/l	1
03943	Nitrobenzene	98-95-3	N.D.	1.	5.	ug/l	1
03944	Isophorone	78-59-1	N.D.	1.	5.	ug/l	1
03945	bis(2-Chloroethoxy)methane	111-91-1	N.D.	1.	5.	ug/l	1
03946	1,2,4-Trichlorobenzene	120-82-1	N.D.	1.	5.	ug/l	1
03947	Naphthalene	91-20-3	N.D.	1.	5.	ug/l	1
03948	Hexachlorobutadiene	87-68-3	N.D.	1.	5.	ug/l	1
03949	Hexachlorocyclopentadiene	77-47-4	N.D.	5.	15.	ug/l	1
03950	2-Chloronaphthalene	91-58-7	N.D.	2.	5.	ug/l	1
03951	Acenaphthylene	208-96-8	N.D.	1.	5.	ug/l	1
03952	Dimethylphthalate	131-11-3	N.D.	2.	5.	ug/l	1
03953	2,6-Dinitrotoluene	606-20-2	N.D.	1.	5.	ug/l	1
03954	Acenaphthene	83-32-9	N.D.	1.	5.	ug/l	1
03955	2,4-Dinitrotoluene	121-14-2	N.D.	1.	5.	ug/l	1
03956	Fluorene	86-73-7	N.D.	1.	5.	ug/l	1
03957	4-Chlorophenyl-phenylether	7005-72-3	N.D.	2.	5.	ug/l	1
03958	Diethylphthalate	84-66-2	N.D.	2.	5.	ug/l	1
03960	N-Nitrosodiphenylamine	86-30-6	N.D.	2.	5.	ug/l	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
03961	4-Bromophenyl-phenylether	101-55-3	N.D.	1.	5.	ug/l	1
03962	Hexachlorobenzene	118-74-1	N.D.	1.	5.	ug/l	1
03963	Phenanthrene	85-01-8	N.D.	1.	5.	ug/l	1
03964	Anthracene	120-12-7	N.D.	1.	5.	ug/l	1
03965	Di-n-butylphthalate	84-74-2	N.D.	2.	5.	ug/l	1
03966	Fluoranthene	206-44-0	N.D.	1.	5.	ug/l	1
03967	Pyrene	129-00-0	N.D.	1.	5.	ug/l	1
03969	Butylbenzylphthalate	85-68-7	N.D.	2.	5.	ug/l	1
03970	Benzo(a)anthracene	56-55-3	N.D.	1.	5.	ug/l	1
03971	Chrysene	218-01-9	N.D.	1.	5.	ug/l	1
03972	3,3'-Dichlorobenzidine	91-94-1	N.D.	2.	5.	ug/l	1
03973	bis(2-Ethylhexyl)phthalate	117-81-7	19.	2.	5.	ug/l	1

*=This limit was used in the evaluation of the final result



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Lancaster Laboratories Sample No. WW 4799281

WMW-6 Water Sample

Site# 6051

Wingate Fractionation Plant-Gallup, NM

Collected: 06/21/2006 09:00

by KH

Account Number: 11288

Submitted: 06/22/2006 08:55

Reported: 07/11/2006 at 09:30

Discard: 08/11/2006

ConocoPhillips

PO Box 2200

Bartlesville OK 74005

WMW06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
03974	Di-n-octylphthalate	117-84-0	N.D.	2.	5.	ug/l	1
03975	Benzo(b)fluoranthene	205-99-2	N.D.	1.	5.	ug/l	1
03976	Benzo(k)fluoranthene	207-08-9	N.D.	1.	5.	ug/l	1
03977	Benzo(a)pyrene	50-32-8	N.D.	1.	5.	ug/l	1
03978	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	1.	5.	ug/l	1
03979	Dibenz(a,h)anthracene	53-70-3	N.D.	1.	5.	ug/l	1
03980	Benzo(g,h,i)perylene	191-24-2	N.D.	1.	5.	ug/l	1
04680	2-Methylphenol	95-48-7	N.D.	1.	5.	ug/l	1
04681	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	1.	5.	ug/l	1
04682	4-Methylphenol	106-44-5	N.D.	2.	5.	ug/l	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04684	Carbazole	86-74-8	N.D.	1.	5.	ug/l	1
02300	UST-Unleaded Waters by 8260B						
05401	Benzene	71-43-2	N.D.	0.5	5.	ug/l	1
05407	Toluene	108-88-3	N.D.	0.7	5.	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.8	5.	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.8	5.	ug/l	1

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00259	Mercury	SW-846 7470A	1	06/27/2006 17:30	Nelli S Markaryan	1
01750	Calcium	SW-846 6010B	1	06/26/2006 02:00	Suzette L Lehman	1
01757	Magnesium	SW-846 6010B	1	06/26/2006 02:00	Suzette L Lehman	1
01767	Sodium	SW-846 6010B	1	06/27/2006 21:20	John P Hook	10
07035	Arsenic	SW-846 6010B	1	06/26/2006 02:00	Suzette L Lehman	1
07036	Selenium	SW-846 6010B	1	06/26/2006 02:00	Suzette L Lehman	1
07046	Barium	SW-846 6010B	1	06/26/2006 02:00	Suzette L Lehman	1
07049	Cadmium	SW-846 6010B	1	06/26/2006 02:00	Suzette L Lehman	1
07051	Chromium	SW-846 6010B	1	06/26/2006 02:00	Suzette L Lehman	1
07055	Lead	SW-846 6010B	1	06/26/2006 02:00	Suzette L Lehman	1
07066	Silver	SW-846 6010B	1	06/26/2006 02:00	Suzette L Lehman	1

*=This limit was used in the evaluation of the final result



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Lancaster Laboratories Sample No. WW 4799281

WMW-6 Water Sample

Site# 6051

Wingate Fractionation Plant-Gallup, NM

Collected: 06/21/2006 09:00 by KH

Account Number: 11288

Submitted: 06/22/2006 08:55

ConocoPhillips

Reported: 07/11/2006 at 09:30

PO Box 2200

Discard: 08/11/2006

Bartlesville OK 74005

WMW06

00200	pH	EPA 150.1	1	06/22/2006 23:10	Luz M Groff	1
00201	Alkalinity to pH 8.3	EPA 310.1	1	06/28/2006 07:30	Michelle L Lalli	1
00202	Alkalinity to pH 4.5	EPA 310.1	1	06/28/2006 07:30	Michelle L Lalli	1
00212	Total Dissolved Solids	EPA 160.1	1	06/26/2006 09:38	Yolunder Y Bunch	1
00224	Chloride	EPA 300.0	1	06/24/2006 10:01	Ashley M Heckman	50
00228	Sulfate	EPA 300.0	1	06/24/2006 10:01	Ashley M Heckman	50
00368	Nitrate Nitrogen	EPA 300.0	1	06/23/2006 09:43	Ashley M Heckman	5
04678	TCL SW846	SW-846 8270C	1	06/27/2006 08:27	Mark A Clark	1
	Semivolatiles/Waters					
02300	UST-Unleaded Waters by 8260B	SW-846 8260B	1	06/26/2006 12:26	Seth J Good	1
00813	BNA Water Extraction	SW-846 3510C	1	06/24/2006 16:30	Emma L Eck	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	06/26/2006 12:26	Seth J Good	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	06/24/2006 18:43	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	06/26/2006 18:15	Nelli S Markaryan	1

*=This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. WW 4799282

WMW-3 Water Sample

Site# 6051

Wingate Fractionation Plant-Gallup, NM

Collected: 06/21/2006 09:45

by KH

Account Number: 11288

Submitted: 06/22/2006 08:55

Reported: 07/11/2006 at 09:31

Discard: 08/11/2006

ConocoPhillips

PO Box 2200

Bartlesville OK 74005

WMW03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
00259	Mercury	7439-97-6	0.00012 J	0.000056	0.00020	mg/l	1
01750	Calcium	7440-70-2	155.	0.104	0.200	mg/l	1
01757	Magnesium	7439-95-4	73.8	0.0135	0.100	mg/l	1
01767	Sodium	7440-23-5	1,850.	43.3	100.	mg/l	100
07035	Arsenic	7440-38-2	N.D.	0.010	0.0200	mg/l	1
07036	Selenium	7782-49-2	N.D.	0.0094	0.0200	mg/l	1
07046	Barium	7440-39-3	0.468	0.00062	0.0050	mg/l	1
07049	Cadmium	7440-43-9	N.D.	0.00091	0.0050	mg/l	1
07051	Chromium	7440-47-3	0.0996	0.0023	0.0150	mg/l	1
07055	Lead	7439-92-1	0.0339	0.0069	0.0200	mg/l	1
07066	Silver	7440-22-4	N.D.	0.0016	0.0050	mg/l	1
00200	pH	n.a.	7.5	0.010	0.010	Std.	1
00201	Alkalinity to pH 8.3	n.a.	N.D.	0.46	2.0	Units mg/l as CaCO ₃	1
00202	Alkalinity to pH 4.5	n.a.	1,210.	0.46	2.0	mg/l as CaCO ₃	1
00212	Total Dissolved Solids	n.a.	5,640.	194.	600.	mg/l	1
00224	Chloride	16887-00-6	1,150.	100.	200.	mg/l	500
00228	Sulfate	14808-79-8	1,580.	150.	500.	mg/l	500
00368	Nitrate Nitrogen	14797-55-8	N.D.	0.25	0.50	mg/l	5
04678	TCL SW846 Semivolatiles/Waters						
03871	4-Chloroaniline	106-47-8	N.D.	1.	5.	ug/l	1
03879	Dibenzofuran	132-64-9	N.D.	1.	5.	ug/l	1
03905	2-Methylnaphthalene	91-57-6	N.D.	1.	5.	ug/l	1
03907	2-Nitroaniline	88-74-4	N.D.	1.	5.	ug/l	1
03908	3-Nitroaniline	99-09-2	N.D.	1.	5.	ug/l	1
03909	4-Nitroaniline	100-01-6	N.D.	1.	5.	ug/l	1
03922	2,4,5-Trichlorophenol	95-95-4	N.D.	1.	5.	ug/l	1
03924	2-Chlorophenol	95-57-8	N.D.	1.	5.	ug/l	1
03925	Phenol	108-95-2	N.D.	1.	5.	ug/l	1
03926	2-Nitrophenol	88-75-5	N.D.	1.	5.	ug/l	1
03927	2,4-Dimethylphenol	105-67-9	N.D.	3.	10.	ug/l	1
03928	2,4-Dichlorophenol	120-83-2	N.D.	1.	5.	ug/l	1
03929	4-Chloro-3-methylphenol	59-50-7	N.D.	1.	5.	ug/l	1
03930	2,4,6-Trichlorophenol	88-06-2	N.D.	1.	5.	ug/l	1
03931	2,4-Dinitrophenol	51-28-5	N.D.	21.	62.	ug/l	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories Sample No. WW 4799282

WMW-3 Water Sample

Site# 6051

Wingate Fractionation Plant-Gallup, NM

Collected: 06/21/2006 09:45

by KH

Account Number: 11288

Submitted: 06/22/2006 08:55

Reported: 07/11/2006 at 09:31

Discard: 08/11/2006

ConocoPhillips

PO Box 2200

Bartlesville OK 74005

WMW03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
03932	4-Nitrophenol	100-02-7	N.D.	10.	31.	ug/l	1
03933	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5.	16.	ug/l	1
03934	Pentachlorophenol	87-86-5	N.D.	3.	16.	ug/l	1
03936	bis(2-Chloroethyl)ether	111-44-4	N.D.	1.	5.	ug/l	1
03937	1,3-Dichlorobenzene	541-73-1	N.D.	1.	5.	ug/l	1
03938	1,4-Dichlorobenzene	106-46-7	N.D.	1.	5.	ug/l	1
03939	1,2-Dichlorobenzene	95-50-1	N.D.	1.	5.	ug/l	1
03941	Hexachloroethane	67-72-1	N.D.	1.	5.	ug/l	1
03942	N-Nitroso-di-n-propylamine	621-64-7	N.D.	1.	5.	ug/l	1
03943	Nitrobenzene	98-95-3	N.D.	1.	5.	ug/l	1
03944	Isophorone	78-59-1	N.D.	1.	5.	ug/l	1
03945	bis(2-Chloroethoxy)methane	111-91-1	N.D.	1.	5.	ug/l	1
03946	1,2,4-Trichlorobenzene	120-82-1	N.D.	1.	5.	ug/l	1
03947	Naphthalene	91-20-3	N.D.	1.	5.	ug/l	1
03948	Hexachlorobutadiene	87-68-3	N.D.	1.	5.	ug/l	1
03949	Hexachlorocyclopentadiene	77-47-4	N.D.	5.	16.	ug/l	1
03950	2-Chloronaphthalene	91-58-7	N.D.	2.	5.	ug/l	1
03951	Acenaphthylene	208-96-8	N.D.	1.	5.	ug/l	1
03952	Dimethylphthalate	131-11-3	N.D.	2.	5.	ug/l	1
03953	2,6-Dinitrotoluene	606-20-2	N.D.	1.	5.	ug/l	1
03954	Acenaphthene	83-32-9	N.D.	1.	5.	ug/l	1
03955	2,4-Dinitrotoluene	121-14-2	N.D.	1.	5.	ug/l	1
03956	Fluorene	86-73-7	N.D.	1.	5.	ug/l	1
03957	4-Chlorophenyl-phenylether	7005-72-3	N.D.	2.	5.	ug/l	1
03958	Diethylphthalate	84-66-2	N.D.	2.	5.	ug/l	1
03960	N-Nitrosodiphenylamine	86-30-6	N.D.	2.	5.	ug/l	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
03961	4-Bromophenyl-phenylether	101-55-3	N.D.	1.	5.	ug/l	1
03962	Hexachlorobenzene	118-74-1	N.D.	1.	5.	ug/l	1
03963	Phenanthrene	85-01-8	N.D.	1.	5.	ug/l	1
03964	Anthracene	120-12-7	N.D.	1.	5.	ug/l	1
03965	Di-n-butylphthalate	84-74-2	N.D.	2.	5.	ug/l	1
03966	Fluoranthene	206-44-0	N.D.	1.	5.	ug/l	1
03967	Pyrene	129-00-0	N.D.	1.	5.	ug/l	1
03969	Butylbenzylphthalate	85-68-7	N.D.	2.	5.	ug/l	1
03970	Benzo(a)anthracene	56-55-3	N.D.	1.	5.	ug/l	1
03971	Chrysene	218-01-9	N.D.	1.	5.	ug/l	1
03972	3,3'-Dichlorobenzidine	91-94-1	N.D.	2.	5.	ug/l	1
03973	bis(2-Ethylhexyl)phthalate	117-81-7	9.	2.	5.	ug/l	1

*—This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. WW 4799282

WMW-3 Water Sample

Site# 6051

Wingate Fractionation Plant-Gallup, NM

Collected: 06/21/2006 09:45

by KH

Account Number: 11288

Submitted: 06/22/2006 08:55

Reported: 07/11/2006 at 09:31

Discard: 08/11/2006

ConocoPhillips

PO Box 2200

Bartlesville OK 74005

WMW03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received	As Received	Units	Dilution Factor
				Method Detection Limit*	Limit of Quantitation		
03974	Di-n-octylphthalate	117-84-0	N.D.	2.	5.	ug/l	1
03975	Benzo(o)fluoranthene	205-99-2	N.D.	1.	5.	ug/l	1
03976	Benzo(k)fluoranthene	207-08-9	N.D.	1.	5.	ug/l	1
03977	Benzo(a)pyrene	50-32-8	N.D.	1.	5.	ug/l	1
03978	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	1.	5.	ug/l	1
03979	Dibenz(a,h)anthracene	53-70-3	N.D.	1.	5.	ug/l	1
03980	Benzo(g,h,i)perylene	191-24-2	N.D.	1.	5.	ug/l	1
04680	2-Methylphenol	95-48-7	N.D.	1.	5.	ug/l	1
04681	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	1.	5.	ug/l	1
04682	4-Methylphenol	106-44-5	N.D.	2.	5.	ug/l	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04684	Carbazole	86-74-8	N.D.	1.	5.	ug/l	1
	Due to insufficient sample, the reporting limits for the GC/MS semivolatiles compounds were raised.						
02300	UST-Unleaded Waters by 8260B						
05401	Benzene	71-43-2	N.D.	0.5	5.	ug/l	1
05407	Toluene	108-88-3	N.D.	0.7	5.	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.8	5.	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.8	5.	ug/l	1

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis	Analyst	Dilution Factor
				Date and Time		
00259	Mercury	SW-846 7470A	1	06/27/2006 17:31	Nelli S Markaryan	1
01750	Calcium	SW-846 6010B	1	07/03/2006 09:03	Choon Y Tian	1
01757	Magnesium	SW-846 6010B	1	07/03/2006 09:03	Choon Y Tian	1
01767	Sodium	SW-846 6010B	1	07/04/2006 22:02	Suzette L Lehman	100
07035	Arsenic	SW-846 6010B	1	07/03/2006 09:03	Choon Y Tian	1
07036	Selenium	SW-846 6010B	1	07/03/2006 09:03	Choon Y Tian	1
07046	Barium	SW-846 6010B	1	07/03/2006 09:03	Choon Y Tian	1
07049	Cadmium	SW-846 6010B	1	07/03/2006 09:03	Choon Y Tian	1
07051	Chromium	SW-846 6010B	1	07/03/2006 09:03	Choon Y Tian	1

*=This limit was used in the evaluation of the final result



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Lancaster Laboratories Sample No. WW 4799282

WMW-3 Water Sample

Site# 6051

Wingate Fractionation Plant-Gallup, NM

Collected: 06/21/2006 09:45 by KH

Account Number: 11288

Submitted: 06/22/2006 08:55

ConocoPhillips

Reported: 07/11/2006 at 09:31

PO Box 2200

Discard: 08/11/2006

Bartlesville OK 74005

WMW03

07055	Lead	SW-846 6010B	1	07/03/2006 09:03	Choon Y Tian	1
07066	Silver	SW-846 6010B	1	07/03/2006 09:03	Choon Y Tian	1
00200	pH	EPA 150.1	1	06/22/2006 23:10	Luz M Groff	1
00201	Alkalinity to pH 8.3	EPA 310.1	1	06/28/2006 07:30	Michelle L Lalli	1
00202	Alkalinity to pH 4.5	EPA 310.1	1	06/28/2006 07:30	Michelle L Lalli	1
00212	Total Dissolved Solids	EPA 160.1	1	06/26/2006 09:38	Yolunder Y Bunch	1
00224	Chloride	EPA 300.0	1	06/24/2006 10:16	Ashley M Heckman	500
00228	Sulfate	EPA 300.0	1	06/24/2006 10:16	Ashley M Heckman	500
00368	Nitrate Nitrogen	EPA 300.0	1	06/23/2006 09:58	Ashley M Heckman	5
04678	TCL SW846	SW-846 8270C	1	06/27/2006 08:49	Mark A Clark	1
	Semivolatiles/Waters					
02300	UST-Unleaded Waters by 8260B	SW-846 8260B	1	06/26/2006 12:49	Seth J Good	1
00813	BNA Water Extraction	SW-846 3510C	1	06/24/2006 16:30	Emma L Eck	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	06/26/2006 12:49	Seth J Good	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	06/26/2006 00:20	Helen L Schaeffer	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	06/26/2006 18:15	Nelli S Markaryan	1

*=This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. WW 4799283

WMW-1 Water Sample

Site# 6051

Wingate Fractionation Plant-Gallup, NM

Collected: 06/21/2006 10:55

by KH

Account Number: 11288

Submitted: 06/22/2006 08:55

Reported: 07/11/2006 at 09:31

Discard: 08/11/2006

ConocoPhillips

PO Box 2200

Bartlesville OK 74005

WMW01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
00259	Mercury	7439-97-6	N.D.	0.000056	0.00020	mg/l	1
01750	Calcium	7440-70-2	279.	0.104	0.200	mg/l	1
01757	Magnesium	7439-95-4	76.8	0.0135	0.100	mg/l	1
01767	Sodium	7440-23-5	1,310.	21.7	50.0	mg/l	50
07035	Arsenic	7440-38-2	N.D.	0.010	0.0200	mg/l	1
07036	Selenium	7782-49-2	N.D.	0.0094	0.0200	mg/l	1
07046	Barium	7440-39-3	0.0706	0.00062	0.0050	mg/l	1
07049	Cadmium	7440-43-9	N.D.	0.00091	0.0050	mg/l	1
07051	Chromium	7440-47-3	0.0030 J	0.0023	0.0150	mg/l	1
07055	Lead	7439-92-1	N.D.	0.0069	0.0200	mg/l	1
07066	Silver	7440-22-4	N.D.	0.0016	0.0050	mg/l	1
00200	pH	n.a.	7.1	0.010	0.010	Std.	1
00201	Alkalinity to pH 8.3	n.a.	N.D.	0.46	2.0	Units mg/l as CaCO ₃	1
00202	Alkalinity to pH 4.5	n.a.	1,030.	0.46	2.0	mg/l as CaCO ₃	1
00212	Total Dissolved Solids	n.a.	5,150.	194.	600.	mg/l	1
00224	Chloride	16887-00-6	609.	40.0	80.0	mg/l	200
00228	Sulfate	14808-79-8	1,940.	60.0	200.	mg/l	200
00368	Nitrate Nitrogen	14797-55-8	N.D.	0.25	0.50	mg/l	5
04678	TCL SW846 Semivolatiles/Waters						
03871	4-Chloroaniline	106-47-8	N.D.	1.	5.	ug/l	1
03879	Dibenzofuran	132-64-9	N.D.	1.	5.	ug/l	1
03905	2-Methylnaphthalene	91-57-6	N.D.	1.	5.	ug/l	1
03907	2-Nitroaniline	88-74-4	N.D.	1.	5.	ug/l	1
03908	3-Nitroaniline	99-09-2	N.D.	1.	5.	ug/l	1
03909	4-Nitroaniline	100-01-6	N.D.	1.	5.	ug/l	1
03922	2,4,5-Trichlorophenol	95-95-4	N.D.	1.	5.	ug/l	1
03924	2-Chlorophenol	95-57-8	N.D.	1.	5.	ug/l	1
03925	Phenol	108-95-2	N.D.	1.	5.	ug/l	1
03926	2-Nitrophenol	88-75-5	N.D.	1.	5.	ug/l	1
03927	2,4-Dimethylphenol	105-67-9	N.D.	3.	10.	ug/l	1
03928	2,4-Dichlorophenol	120-83-2	N.D.	1.	5.	ug/l	1
03929	4-Chloro-3-methylphenol	59-50-7	N.D.	1.	5.	ug/l	1
03930	2,4,6-Trichlorophenol	88-06-2	N.D.	1.	5.	ug/l	1
03931	2,4-Dinitrophenol	51-28-5	N.D.	20.	60.	ug/l	1

*=This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. WW 4799283

WMW-1 Water Sample

Site# 6051

Wingate Fractionation Plant-Gallup, NM

Collected: 06/21/2006 10:55 by KH

Account Number: 11288

Submitted: 06/22/2006 08:55

Reported: 07/11/2006 at 09:31

Discard: 08/11/2006

ConocoPhillips

PO Box 2200

Bartlesville OK 74005

WMW01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
03932	4-Nitrophenol	100-02-7	N.D.	10.	30.	ug/l	1
03933	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5.	15.	ug/l	1
03934	Pentachlorophenol	87-86-5	N.D.	3.	15.	ug/l	1
03936	bis(2-Chloroethyl)ether	111-44-4	N.D.	1.	5.	ug/l	1
03937	1,3-Dichlorobenzene	541-73-1	N.D.	1.	5.	ug/l	1
03938	1,4-Dichlorobenzene	106-46-7	N.D.	1.	5.	ug/l	1
03939	1,2-Dichlorobenzene	95-50-1	N.D.	1.	5.	ug/l	1
03941	Hexachloroethane	67-72-1	N.D.	1.	5.	ug/l	1
03942	N-Nitroso-di-n-propylamine	621-64-7	N.D.	1.	5.	ug/l	1
03943	Nitrobenzene	98-95-3	N.D.	1.	5.	ug/l	1
03944	Isophorone	78-59-1	N.D.	1.	5.	ug/l	1
03945	bis(2-Chloroethoxy)methane	111-91-1	N.D.	1.	5.	ug/l	1
03946	1,2,4-Trichlorobenzene	120-82-1	N.D.	1.	5.	ug/l	1
03947	Naphthalene	91-20-3	N.D.	1.	5.	ug/l	1
03948	Hexachlorobutadiene	87-68-3	N.D.	1.	5.	ug/l	1
03949	Hexachlorocyclopentadiene	77-47-4	N.D.	5.	15.	ug/l	1
03950	2-Chloronaphthalene	91-58-7	N.D.	2.	5.	ug/l	1
03951	Acenaphthylene	208-96-8	N.D.	1.	5.	ug/l	1
03952	Dimethylphthalate	131-11-3	N.D.	2.	5.	ug/l	1
03953	2,6-Dinitrotoluene	606-20-2	N.D.	1.	5.	ug/l	1
03954	Acenaphthene	83-32-9	N.D.	1.	5.	ug/l	1
03955	2,4-Dinitrotoluene	121-14-2	N.D.	1.	5.	ug/l	1
03956	Fluorene	86-73-7	N.D.	1.	5.	ug/l	1
03957	4-Chlorophenyl-phenylether	7005-72-3	N.D.	2.	5.	ug/l	1
03958	Diethylphthalate	84-66-2	N.D.	2.	5.	ug/l	1
03960	N-Nitrosodiphenylamine	86-30-6	N.D.	2.	5.	ug/l	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
03961	4-Bromophenyl-phenylether	101-55-3	N.D.	1.	5.	ug/l	1
03962	Hexachlorobenzene	118-74-1	N.D.	1.	5.	ug/l	1
03963	Phenanthrene	85-01-8	N.D.	1.	5.	ug/l	1
03964	Anthracene	120-12-7	N.D.	1.	5.	ug/l	1
03965	Di-n-butylphthalate	84-74-2	N.D.	2.	5.	ug/l	1
03966	Fluoranthene	206-44-0	N.D.	1.	5.	ug/l	1
03967	Pyrene	129-00-0	N.D.	1.	5.	ug/l	1
03969	Butylbenzylphthalate	85-68-7	N.D.	2.	5.	ug/l	1
03970	Benzo(a)anthracene	56-55-3	N.D.	1.	5.	ug/l	1
03971	Chrysene	218-01-9	N.D.	1.	5.	ug/l	1
03972	3,3'-Dichlorobenzidine	91-94-1	N.D.	2.	5.	ug/l	1
03973	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2.	5.	ug/l	1

*=This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. WW 4799283

WMW-1 Water Sample

Site# 6051

Wingate Fractionation Plant-Gallup, NM

Collected: 06/21/2006 10:55

by KH

Account Number: 11288

Submitted: 06/22/2006 08:55

Reported: 07/11/2006 at 09:31

Discard: 08/11/2006

ConocoPhillips

PO Box 2200

Bartlesville OK 74005

WMW01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
03974	Di-n-octylphthalate	117-84-0	N.D.	2.	5.	ug/l	1
03975	Benzo(b)fluoranthene	205-99-2	N.D.	1.	5.	ug/l	1
03976	Benzo(k)fluoranthene	207-08-9	N.D.	1.	5.	ug/l	1
03977	Benzo(a)pyrene	50-32-8	N.D.	1.	5.	ug/l	1
03978	Indenc(1,2,3-cd)pyrene	193-39-5	N.D.	1.	5.	ug/l	1
03979	Dibenz(a,h)anthracene	53-70-3	N.D.	1.	5.	ug/l	1
03980	Benzo(g,h,i)perylene	191-24-2	N.D.	1.	5.	ug/l	1
04680	2-Methylphenol	95-48-7	N.D.	1.	5.	ug/l	1
04681	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	1.	5.	ug/l	1
04682	4-Methylphenol	106-44-5	N.D.	2.	5.	ug/l	1
04684	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.					ug/l	1
04684	Carbazole	86-74-8	N.D.	1.	5.	ug/l	1
02300	UST-Unleaded Waters by 8260B						
05401	Benzene	71-43-2	N.D.	0.5	5.	ug/l	1
05407	Toluene	108-88-3	N.D.	0.7	5.	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.8	5.	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.8	5.	ug/l	1

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00259	Mercury	SW-846 7470A	1	06/27/2006 17:33	Nelli S Markaryan	1
01750	Calcium	SW-846 6010B	1	07/03/2006 09:25	Choon Y Tian	1
01757	Magnesium	SW-846 6010B	1	07/03/2006 09:25	Choon Y Tian	1
01767	Sodium	SW-846 6010B	1	07/04/2006 22:23	Suzette L Lehman	50
07035	Arsenic	SW-846 6010B	1	07/03/2006 09:25	Choon Y Tian	1
07036	Selenium	SW-846 6010B	1	07/03/2006 09:25	Choon Y Tian	1
07046	Barium	SW-846 6010B	1	07/03/2006 09:25	Choon Y Tian	1
07049	Cadmium	SW-846 6010B	1	07/03/2006 09:25	Choon Y Tian	1
07051	Chromium	SW-846 6010B	1	07/03/2006 09:25	Choon Y Tian	1
07055	Lead	SW-846 6010B	1	07/03/2006 09:25	Choon Y Tian	1
07066	Silver	SW-846 6010B	1	07/03/2006 09:25	Choon Y Tian	1

*=This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. WW 4799283

WMW-1 Water Sample

Site# 6051

Wingate Fractionation Plant-Gallup, NM

Collected: 06/21/2006 10:55 by KH

Account Number: 11288

Submitted: 06/22/2006 08:55

ConocoPhillips

Reported: 07/11/2006 at 09:31

PO Box 2200

Discard: 08/11/2006

Bartlesville OK 74005

WMW01

00200	pH	EPA 150.1	1	06/22/2006 23:10	Luz M Groff	1
00201	Alkalinity to pH 8.3	EPA 310.1	1	06/28/2006 07:30	Michelle L Lalli	1
00202	Alkalinity to pH 4.5	EPA 310.1	1	06/28/2006 07:30	Michelle L Lalli	1
00212	Total Dissolved Solids	EPA 160.1	1	06/26/2006 09:38	Yolunder Y Bunch	1
00224	Chloride	EPA 300.0	1	06/24/2006 10:31	Ashley M Heckman	200
00228	Sulfate	EPA 300.0	1	06/24/2006 10:31	Ashley M Heckman	200
00368	Nitrate Nitrogen	EPA 300.0	1	06/23/2006 10:13	Ashley M Heckman	5
04678	TCL SW846	SW-846 8270C	1	06/27/2006 09:11	Mark A Clark	1
	Semivolatiles/Waters					
02300	UST-Unleaded Waters by 8260B	SW-846 8260B	1	06/26/2006 13:13	Seth J Good	1
00813	BNA Water Extraction	SW-846 3510C	1	06/24/2006 16:30	Emma L Eck	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	06/26/2006 13:13	Seth J Good	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	06/26/2006 00:20	Helen L Schaeffer	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	06/26/2006 18:15	Nelli S Markaryan	1

*=This limit was used in the evaluation of the final result



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Lancaster Laboratories Sample No. WW 4799284

WMW-4 Water Sample

Site# 6051

Wingate Fractionation Plant-Gallup, NM

Collected: 06/21/2006 11:15 by KH

Account Number: 11288

Submitted: 06/22/2006 08:55

Reported: 07/11/2006 at 09:31

Discard: 08/11/2006

ConocoPhillips

PO Box 2200

Bartlesville OK 74005

WMW04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
00259	Mercury	7439-97-6	N.D.	0.000056	0.00020	mg/l	1
01750	Calcium	7440-70-2	12.0	0.104	0.200	mg/l	1
01757	Magnesium	7439-95-4	12.8	0.0135	0.100	mg/l	1
01767	Sodium	7440-23-5	532.	10.8	25.0	mg/l	25
07035	Arsenic	7440-38-2	N.D.	0.010	0.0200	mg/l	1
07036	Selenium	7782-49-2	N.D.	0.0094	0.0200	mg/l	1
07046	Barium	7440-39-3	0.0414	0.00062	0.0050	mg/l	1
07049	Cadmium	7440-43-9	N.D.	0.00091	0.0050	mg/l	1
07051	Chromium	7440-47-3	N.D.	0.0023	0.0150	mg/l	1
07055	Lead	7439-92-1	N.D.	0.0069	0.0200	mg/l	1
07066	Silver	7440-22-4	N.D.	0.0016	0.0050	mg/l	1
00200	pH	n.a.	7.8	0.010	0.010	Std.	1
00201	Alkalinity to pH 8.3	n.a.	0.85 J	0.46	2.0	Units as CaCO3	1
00202	Alkalinity to pH 4.5	n.a.	722.	0.46	2.0	Units as CaCO3	1
00212	Total Dissolved Solids	n.a.	1,480.	38.8	120.	mg/l	1
00224	Chloride	16887-00-6	163.	20.0	40.0	mg/l	100
00228	Sulfate	14808-79-8	266.	30.0	100.	mg/l	100
00368	Nitrate Nitrogen	14797-55-8	N.D.	0.25	0.50	mg/l	5
04678	TCL SW846 Semivolatiles/Waters						
03871	4-Chloroaniline	106-47-8	N.D.	1.	5.	ug/l	1
03879	Dibenzofuran	132-64-9	N.D.	1.	5.	ug/l	1
03905	2-Methylnaphthalene	91-57-6	N.D.	1.	5.	ug/l	1
03907	2-Nitroaniline	88-74-4	N.D.	1.	5.	ug/l	1
03908	3-Nitroaniline	99-09-2	N.D.	1.	5.	ug/l	1
03909	4-Nitroaniline	100-01-6	N.D.	1.	5.	ug/l	1
03922	2,4,5-Trichlorophenol	95-95-4	N.D.	1.	5.	ug/l	1
03924	2-Chlorophenol	95-57-8	N.D.	1.	5.	ug/l	1
03925	Phenol	108-95-2	N.D.	1.	5.	ug/l	1
03926	2-Nitrophenol	88-75-5	N.D.	1.	5.	ug/l	1
03927	2,4-Dimethylphenol	105-67-9	N.D.	3.	10.	ug/l	1
03928	2,4-Dichlorophenol	120-83-2	N.D.	1.	5.	ug/l	1
03929	4-Chloro-3-methylphenol	59-50-7	N.D.	1.	5.	ug/l	1
03930	2,4,6-Trichlorophenol	88-06-2	N.D.	1.	5.	ug/l	1
03931	2,4-Dinitrophenol	51-28-5	N.D.	19.	58.	ug/l	1

*=This limit was used in the evaluation of the final result



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Lancaster Laboratories Sample No. WW 4799284

WMW-4 Water Sample

Site# 6051

Wingate Fractionation Plant-Gallup, NM

Collected: 06/21/2006 11:15

by KH

Account Number: 11288

Submitted: 06/22/2006 08:55

Reported: 07/11/2006 at 09:31

Discard: 08/11/2006

ConocoPhillips

PO Box 2200

Bartlesville OK 74005

WMW04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
03932	4-Nitrophenol	100-02-7	N.D.	10.	29.	ug/l	1
03933	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5.	14.	ug/l	1
03934	Pentachlorophenol	87-86-5	N.D.	3.	14.	ug/l	1
03936	bis(2-Chloroethyl) ether	111-44-4	N.D.	1.	5.	ug/l	1
03937	1,3-Dichlorobenzene	541-73-1	N.D.	1.	5.	ug/l	1
03938	1,4-Dichlorobenzene	106-46-7	N.D.	1.	5.	ug/l	1
03939	1,2-Dichlorobenzene	95-50-1	N.D.	1.	5.	ug/l	1
03941	Hexachloroethane	67-72-1	N.D.	1.	5.	ug/l	1
03942	N-Nitroso-di-n-propylamine	621-64-7	N.D.	1.	5.	ug/l	1
03943	Nitrobenzene	98-95-3	N.D.	1.	5.	ug/l	1
03944	Isophorone	78-59-1	N.D.	1.	5.	ug/l	1
03945	bis(2-Chloroethoxy)methane	111-91-1	N.D.	1.	5.	ug/l	1
03946	1,2,4-Trichlorobenzene	120-82-1	N.D.	1.	5.	ug/l	1
03947	Naphthalene	91-20-3	N.D.	1.	5.	ug/l	1
03948	Hexachlorobutadiene	87-68-3	N.D.	1.	5.	ug/l	1
03949	Hexachlorocyclopentadiene	77-47-4	N.D.	5.	14.	ug/l	1
03950	2-Chloronaphthalene	91-58-7	N.D.	2.	5.	ug/l	1
03951	Acenaphthylene	208-96-8	N.D.	1.	5.	ug/l	1
03952	Dimethylphthalate	131-11-3	N.D.	2.	5.	ug/l	1
03953	2,6-Dinitrotoluene	606-20-2	N.D.	1.	5.	ug/l	1
03954	Acenaphthene	83-32-9	N.D.	1.	5.	ug/l	1
03955	2,4-Dinitrotoluene	121-14-2	N.D.	1.	5.	ug/l	1
03956	Fluorene	86-73-7	N.D.	1.	5.	ug/l	1
03957	4-Chlorophenyl-phenylether	7005-72-3	N.D.	2.	5.	ug/l	1
03958	Diethylphthalate	84-66-2	N.D.	2.	5.	ug/l	1
03960	N-Nitrosodiphenylamine	86-30-6	N.D.	2.	5.	ug/l	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
03961	4-Bromophenyl-phenylether	101-55-3	N.D.	1.	5.	ug/l	1
03962	Hexachlorobenzene	118-74-1	N.D.	1.	5.	ug/l	1
03963	Phenanthrene	85-01-8	N.D.	1.	5.	ug/l	1
03964	Anthracene	120-12-7	N.D.	1.	5.	ug/l	1
03965	Di-n-butylphthalate	84-74-2	N.D.	2.	5.	ug/l	1
03966	Fluoranthene	206-44-0	N.D.	1.	5.	ug/l	1
03967	Pyrene	129-00-0	N.D.	1.	5.	ug/l	1
03969	Butylbenzylphthalate	85-68-7	N.D.	2.	5.	ug/l	1
03970	Benzo(a)anthracene	56-55-3	N.D.	1.	5.	ug/l	1
03971	Chrysene	218-01-9	N.D.	1.	5.	ug/l	1
03972	3,3'-Dichlorobenzidine	91-94-1	N.D.	2.	5.	ug/l	1
03973	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2.	5.	ug/l	1

*=This limit was used in the evaluation of the final result



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Lancaster Laboratories Sample No. WW 4799284

WMW-4 Water Sample

Site# 6051

Wingate Fractionation Plant-Gallup, NM

Collected: 06/21/2006 11:15

by KH

Account Number: 11288

Submitted: 06/22/2006 08:55

Reported: 07/11/2006 at 09:31

Discard: 08/11/2006

ConocoPhillips

PO Box 2200

Bartlesville OK 74005

WMW04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
03974	Di-n-octylphthalate	117-84-0	N.D.	2.	5.	ug/l	1
03975	Benzo(b)fluoranthene	205-99-2	N.D.	1.	5.	ug/l	1
03976	Benzo(k)fluoranthene	207-08-9	N.D.	1.	5.	ug/l	1
03977	Benzo(a)pyrene	50-32-8	N.D.	1.	5.	ug/l	1
03978	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	1.	5.	ug/l	1
03979	Dibenz(a,h)anthracene	53-70-3	N.D.	1.	5.	ug/l	1
03980	Benzo(g,h,i)perylene	191-24-2	N.D.	1.	5.	ug/l	1
04680	2-Methylphenol	95-48-7	N.D.	1.	5.	ug/l	1
04681	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	1.	5.	ug/l	1
04682	4-Methylphenol	106-44-5	N.D.	2.	5.	ug/l	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04684	Carbazole	86-74-8	N.D.	1.	5.	ug/l	1
02300	UST-Unleaded Waters by 8260B						
05401	Benzene	71-43-2	N.D.	0.5	5.	ug/l	1
05407	Toluene	108-88-3	N.D.	0.7	5.	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.8	5.	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.8	5.	ug/l	1

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis Trial#	Date and Time	Analyst	Dilution Factor
00259	Mercury	SW-846 7470A	1	06/27/2006 17:34	Nelli S Markaryan	1
01750	Calcium	SW-846 6010B	1	07/03/2006 09:29	Choor. Y Tian	1
01757	Magnesium	SW-846 6010B	1	07/03/2006 09:29	Choor. Y Tian	1
01767	Sodium	SW-846 6010B	1	07/04/2006 22:27	Suzette L Lehman	25
07035	Arsenic	SW-846 6010B	1	07/03/2006 09:29	Choor. Y Tian	1
07036	Selenium	SW-846 6010B	1	07/03/2006 09:29	Choor. Y Tian	1
07046	Barium	SW-846 6010B	1	07/03/2006 09:29	Choor. Y Tian	1
07049	Cadmium	SW-846 6010B	1	07/03/2006 09:29	Choor. Y Tian	1
07051	Chromium	SW-846 6010B	1	07/03/2006 09:29	Choor. Y Tian	1
07055	Lead	SW-846 6010B	1	07/03/2006 09:29	Choor. Y Tian	1
07066	Silver	SW-846 6010B	1	07/03/2006 09:29	Choor. Y Tian	1

*=This limit was used in the evaluation of the final result



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Lancaster Laboratories Sample No. WW 4799284

WMW-4 Water Sample

Site# 6051

Wingate Fractionation Plant-Gallup, NM

Collected: 06/21/2006 11:15 by KH

Account Number: 11288

Submitted: 06/22/2006 08:55

ConocoPhillips

Reported: 07/11/2006 at 09:31

PO Box 2200

Discard: 08/11/2006

Bartlesville OK 74005

WMW04

00200	pH	EPA 150.1	1	06/22/2006 23:10	Luz M Groff	1
00201	Alkalinity to pH 8.3	EPA 310.1	1	06/28/2006 07:30	Michelle L Lalli	1
00202	Alkalinity to pH 4.5	EPA 310.1	1	06/28/2006 07:30	Michelle L Lalli	1
00212	Total Dissolved Solids	EPA 160.1	1	06/26/2006 09:38	Yolunder Y Bunch	1
00224	Chloride	EPA 300.0	1	06/24/2006 10:46	Ashley M Heckman	100
00228	Sulfate	EPA 300.0	1	06/24/2006 10:46	Ashley M Heckman	100
00368	Nitrate Nitrogen	EPA 300.0	1	06/23/2006 10:28	Ashley M Heckman	5
04678	TCL SW846	SW-846 8270C	1	06/27/2006 09:32	Mark A Clark	1
	Semivolatiles/Waters					
02300	UST-Unleaded Waters by 8260B	SW-846 8260B	1	06/26/2006 13:37	Seth J Good	1
00813	BNA Water Extraction	SW-846 3510C	1	06/24/2006 16:30	Emma L Eck	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	06/26/2006 13:37	Seth J Good	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	06/26/2006 00:20	Helen L Schaeffer	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	06/26/2006 18:15	Nelli S Markaryan	1

*=This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. WW 4799285

WMW-5 Water Sample

Site# 6051

Wingate Fractionation Plant-Gallup, NM

Collected: 06/21/2006 10:30

by KH

Account Number: 11288

Submitted: 06/22/2006 08:55

Reported: 07/11/2006 at 09:31

Discard: 08/11/2006

ConocoPhillips

PO Box 2200

Bartlesville OK 74005

WMW05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
00259	Mercury	7439-97-6	N.D.	0.000056	0.00020	mg/l	1
01750	Calcium	7440-70-2	144.	0.104	0.200	mg/l	1
01757	Magnesium	7439-95-4	38.7	0.0135	0.100	mg/l	1
01767	Sodium	7440-23-5	730.	10.8	25.0	mg/l	25
07035	Arsenic	7440-38-2	N.D.	0.010	0.0200	mg/l	1
07036	Selenium	7782-49-2	N.D.	0.0094	0.0200	mg/l	1
07046	Barium	7440-39-3	0.0076	0.00062	0.0050	mg/l	1
07049	Cadmium	7440-43-9	N.D.	0.00091	0.0050	mg/l	1
07051	Chromium	7440-47-3	N.D.	0.0023	0.0150	mg/l	1
07055	Lead	7439-92-1	N.D.	0.0069	0.0200	mg/l	1
07066	Silver	7440-22-4	N.D.	0.0016	0.0050	mg/l	1
00200	pH	n.a.	7.1	0.010	0.010	Std.	1
00201	Alkalinity to pH 8.3	n.a.	N.D.	0.46	2.0	Units mg/l as CaCO3	1
00202	Alkalinity to pH 4.5	n.a.	680.	0.46	2.0	mg/l as CaCO3	1
00212	Total Dissolved Solids	n.a.	2,380.	77.6	240.	mg/l	1
00224	Chloride	16887-00-6	224.	40.0	80.0	mg/l	200
00228	Sulfate	14808-79-8	1,210.	60.0	200.	mg/l	200
00368	Nitrate Nitrogen	14797-55-8	N.D.	0.25	0.50	mg/l	5
04678	TCL SW846 Semivolatiles/Waters						
03871	4-Chloroaniline	106-47-8	N.D.	1.	5.	ug/l	1
03879	Dibenzofuran	132-64-9	N.D.	1.	5.	ug/l	1
03905	2-Methylnaphthalene	91-57-6	N.D.	1.	5.	ug/l	1
03907	2-Nitroaniline	88-74-4	N.D.	1.	5.	ug/l	1
03908	3-Nitroaniline	99-09-2	N.D.	1.	5.	ug/l	1
03909	4-Nitroaniline	100-01-6	N.D.	1.	5.	ug/l	1
03922	2,4,5-Trichlorophenol	95-95-4	N.D.	1.	5.	ug/l	1
03924	2-Chlorophenol	95-57-8	N.D.	1.	5.	ug/l	1
03925	Phenol	108-95-2	N.D.	1.	5.	ug/l	1
03926	2-Nitrophenol	88-75-5	N.D.	1.	5.	ug/l	1
03927	2,4-Dimethylphenol	105-67-9	N.D.	3.	10.	ug/l	1
03928	2,4-Dichlorophenol	120-83-2	N.D.	1.	5.	ug/l	1
03929	4-Chloro-3-methylphenol	59-50-7	N.D.	1.	5.	ug/l	1
03930	2,4,6-Trichlorophenol	88-06-2	N.D.	1.	5.	ug/l	1
03931	2,4-Dinitrophenol	51-28-5	N.D.	20.	59.	ug/l	1

*=This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. WW 4799285

WMW-5 Water Sample

Site# 6051

Wingate Fractionation Plant-Gallup, NM

Collected: 06/21/2006 10:30

by KH

Account Number: 11288

Submitted: 06/22/2006 08:55

Reported: 07/11/2006 at 09:31

Discard: 08/11/2006

ConocoPhillips

PO Box 2200

Bartlesville OK 74005

WMW05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
03932	4-Nitrophenol	100-02-7	N.D.	10.	29.	ug/l	1
03933	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5.	15.	ug/l	1
03934	Pentachlorophenol	87-86-5	N.D.	3.	15.	ug/l	1
03936	bis(2-Chloroethyl)ether	111-44-4	N.D.	1.	5.	ug/l	1
03937	1,3-Dichlorobenzene	541-73-1	N.D.	1.	5.	ug/l	1
03938	1,4-Dichlorobenzene	106-46-7	N.D.	1.	5.	ug/l	1
03939	1,2-Dichlorobenzene	95-50-1	N.D.	1.	5.	ug/l	1
03941	Hexachloroethane	67-72-1	N.D.	1.	5.	ug/l	1
03942	N-Nitroso-di-n-propylamine	621-64-7	N.D.	1.	5.	ug/l	1
03943	Nitrobenzene	98-95-3	N.D.	1.	5.	ug/l	1
03944	Isophorone	78-59-1	N.D.	1.	5.	ug/l	1
03945	bis(2-Chloroethoxy)methane	111-91-1	N.D.	1.	5.	ug/l	1
03946	1,2,4-Trichlorobenzene	120-82-1	N.D.	1.	5.	ug/l	1
03947	Naphthalene	91-20-3	N.D.	1.	5.	ug/l	1
03948	Hexachlorobutadiene	87-68-3	N.D.	1.	5.	ug/l	1
03949	Hexachlorocyclopentadiene	77-47-4	N.D.	5.	15.	ug/l	1
03950	2-Chloronaphthalene	91-58-7	N.D.	2.	5.	ug/l	1
03951	Acenaphthylene	208-96-8	N.D.	1.	5.	ug/l	1
03952	Dimethylphthalate	131-11-3	N.D.	2.	5.	ug/l	1
03953	2,6-Dinitrotoluene	606-20-2	N.D.	1.	5.	ug/l	1
03954	Acenaphthene	83-32-9	N.D.	1.	5.	ug/l	1
03955	2,4-Dinitrotoluene	121-14-2	N.D.	1.	5.	ug/l	1
03956	Fluorene	86-73-7	N.D.	1.	5.	ug/l	1
03957	4-Chlorophenyl-phenylether	7005-72-3	N.D.	2.	5.	ug/l	1
03958	Diethylphthalate	84-66-2	N.D.	2.	5.	ug/l	1
03960	N-Nitrosodiphenylamine	86-30-6	N.D.	2.	5.	ug/l	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
03961	4-Bromophenyl-phenylether	101-55-3	N.D.	1.	5.	ug/l	1
03962	Hexachlorobenzene	118-74-1	N.D.	1.	5.	ug/l	1
03963	Phenanthrene	85-01-8	N.D.	1.	5.	ug/l	1
03964	Anthracene	120-12-7	N.D.	1.	5.	ug/l	1
03965	Di-n-butylphthalate	84-74-2	N.D.	2.	5.	ug/l	1
03966	Fluoranthene	206-44-0	N.D.	1.	5.	ug/l	1
03967	Pyrene	129-00-0	N.D.	1.	5.	ug/l	1
03969	Butylbenzylphthalate	85-68-7	N.D.	2.	5.	ug/l	1
03970	Benzo(a)anthracene	56-55-3	N.D.	1.	5.	ug/l	1
03971	Chrysene	218-01-9	N.D.	1.	5.	ug/l	1
03972	3,3'-Dichlorobenzidine	91-94-1	N.D.	2.	5.	ug/l	1
03973	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2.	5.	ug/l	1

*=This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. WW 4799285

WMW-5 Water Sample

Site# 6051

Wingate Fractionation Plant-Gallup, NM

Collected: 06/21/2006 10:30

by KH

Account Number: 11288

Submitted: 06/22/2006 08:55

Reported: 07/11/2006 at 09:31

Discard: 08/11/2006

ConocoPhillips

PO Box 2200

Bartlesville OK 74005

WMW05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
03974	Di-n-octylphthalate	117-84-0	N.D.	2.	5.	ug/l	1
03975	Benzo(b)fluoranthene	205-99-2	N.D.	1.	5.	ug/l	1
03976	Benzo(k)fluoranthene	207-08-9	N.D.	1.	5.	ug/l	1
03977	Benzo(a)pyrene	50-32-8	N.D.	1.	5.	ug/l	1
03978	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	1.	5.	ug/l	1
03979	Dibenz(a,h)anthracene	53-70-3	N.D.	1.	5.	ug/l	1
03980	Benzo(g,h,i)perylene	191-24-2	N.D.	1.	5.	ug/l	1
04680	2-Methylphenol	95-48-7	N.D.	1.	5.	ug/l	1
04681	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	1.	5.	ug/l	1
04682	4-Methylphenol	106-44-5	N.D.	2.	5.	ug/l	1
	3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.						
04684	Carbazole	86-74-8	N.D.	1.	5.	ug/l	1
02300	UST-Unleaded Waters by 8260B						
05401	Benzene	71-43-2	N.D.	0.5	5.	ug/l	1
05407	Toluene	108-88-3	N.D.	0.7	5.	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.8	5.	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.8	5.	ug/l	1

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00259	Mercury	SW-846 7470A	1	06/27/2006 17:35	Nelli S Markaryan	1
01750	Calcium	SW-846 6010B	1	07/03/2006 09:40	Choon Y Tian	1
01757	Magnesium	SW-846 6010B	1	07/03/2006 09:40	Choon Y Tian	1
01767	Sodium	SW-846 6010B	1	07/04/2006 22:30	Suzette L Lehman	25
07035	Arsenic	SW-846 6010B	1	07/03/2006 09:40	Choon Y Tian	1
07036	Selenium	SW-846 6010B	1	07/03/2006 09:40	Choon Y Tian	1
07046	Barium	SW-846 6010B	1	07/03/2006 09:40	Choon Y Tian	1
07049	Cadmium	SW-846 6010B	1	07/03/2006 09:40	Choon Y Tian	1
07051	Chromium	SW-846 6010B	1	07/03/2006 09:40	Choon Y Tian	1
07055	Lead	SW-846 6010B	1	07/03/2006 09:40	Choon Y Tian	1
07066	Silver	SW-846 6010B	1	07/03/2006 09:40	Choon Y Tian	1

*=This limit was used in the evaluation of the final result



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Lancaster Laboratories Sample No. WW 4799285

WMW-5 Water Sample

Site# 6051

Wingate Fractionation Plant-Gallup, NM

Collected: 06/21/2006 10:30 by KH

Account Number: 11288

Submitted: 06/22/2006 08:55

ConocoPhillips

Reported: 07/11/2006 at 09:31

PO Box 2200

Discard: 08/11/2006

Bartlesville OK 74005

WMW05

00200	pH	EPA 150.1	1	06/22/2006 23:10	Luz M Groff	1
00201	Alkalinity to pH 8.3	EPA 310.1	1	06/28/2006 07:30	Michelle L Lalli	1
00202	Alkalinity to pH 4.5	EPA 310.1	1	06/28/2006 07:30	Michelle L Lalli	1
00212	Total Dissolved Solids	EPA 160.1	1	06/26/2006 09:38	Yolunder Y Bunch	1
00224	Chloride	EPA 300.0	1	06/24/2006 11:00	Ashley M Heckman	200
00228	Sulfate	EPA 300.0	1	06/24/2006 11:00	Ashley M Heckman	200
00368	Nitrate Nitrogen	EPA 300.0	1	06/23/2006 10:43	Ashley M Heckman	5
04678	TCL SW846	SW-846 8270C	1	06/27/2006 09:54	Mark A Clark	1
	Semivolatiles/Waters					
02300	UST-Unleaded Waters by 8260B	SW-846 8260B	1	06/26/2006 14:00	Seth J Good	1
00813	BNA Water Extraction	SW-846 3510C	1	06/24/2006 16:30	Emma L Eck	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	06/26/2006 14:00	Seth J Good	1
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	06/26/2006 00:20	Helen L Schaeffer	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	06/26/2006 18:15	Nelli S Markaryan	1

*=This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. WW 4799286

WMW-2 Water Sample

Site# 6051

Wingate Fractionation Plant-Gallup, NM

Collected: 06/21/2006 12:00

by KH

Account Number: 11288

Submitted: 06/22/2006 08:55

Reported: 07/11/2006 at 09:31

Discard: 08/11/2006

ConocoPhillips

PO Box 2200

Bartlesville OK 74005

WMW02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
00259	Mercury	7439-97-6	N.D.	0.000056	0.00020	mg/l	1
01750	Calcium	7440-70-2	4.04	0.104	0.200	mg/l	1
01757	Magnesium	7439-95-4	190.	0.0135	0.100	mg/l	1
01767	Sodium	7440-23-5	1,050.	21.7	50.0	mg/l	50
07035	Arsenic	7440-38-2	N.D.	0.010	0.0200	mg/l	1
07036	Selenium	7782-49-2	N.D.	0.0094	0.0200	mg/l	1
07046	Barium	7440-39-3	0.0841	0.00062	0.0050	mg/l	1
07049	Cadmium	7440-43-9	N.D.	0.00091	0.0050	mg/l	1
07051	Chromium	7440-47-3	N.D.	0.0023	0.0150	mg/l	1
07055	Lead	7439-92-1	N.D.	0.0069	0.0200	mg/l	1
07066	Silver	7440-22-4	N.D.	0.0016	0.0050	mg/l	1
00200	pH	n.a.	9.9	0.010	0.010	Std.	1
00201	Alkalinity to pH 8.3	n.a.	584.	0.46	2.0	Units mg/l as CaCO3	1
00202	Alkalinity to pH 4.5	n.a.	2,000.	0.46	2.0	mg/l as CaCO3	1
00212	Total Dissolved Solids	n.a.	3,400.	77.6	240.	mg/l	1
00224	Chloride	16887-00-6	730.	40.0	80.0	mg/l	200
00228	Sulfate	14808-79-8	74.0	1.5	5.0	mg/l	5
00368	Nitrate Nitrogen	14797-55-8	N.D.	0.25	0.50	mg/l	5
04678	TCL SW846 Semivolatiles/Waters						
03871	4-Chloroaniline	106-47-8	N.D.	1.	5.	ug/l	1
03879	Dibenzofuran	132-64-9	N.D.	1.	5.	ug/l	1
03905	2-Methylnaphthalene	91-57-6	2. J	1.	5.	ug/l	1
03907	2-Nitroaniline	88-74-4	N.D.	1.	5.	ug/l	1
03908	3-Nitroaniline	99-09-2	N.D.	1.	5.	ug/l	1
03909	4-Nitroaniline	100-01-6	N.D.	1.	5.	ug/l	1
03922	2,4,5-Trichlorophenol	95-95-4	N.D.	1.	5.	ug/l	1
03924	2-Chlorophenol	95-57-8	N.D.	1.	5.	ug/l	1
03925	Phenol	108-95-2	9.	1.	5.	ug/l	1
03926	2-Nitrophenol	88-75-5	N.D.	1.	5.	ug/l	1
03927	2,4-Dimethylphenol	105-67-9	4. J	3.	10.	ug/l	1
03928	2,4-Dichlorophenol	120-83-2	N.D.	1.	5.	ug/l	1
03929	4-Chloro-3-methylphenol	59-50-7	N.D.	1.	5.	ug/l	1
03930	2,4,6-Trichlorophenol	88-06-2	N.D.	1.	5.	ug/l	1
03931	2,4-Dinitrophenol	51-28-5	N.D.	19.	57.	ug/l	1

*=This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. WW 4799286

WMW-2 Water Sample

Site# 6051

Wingate Fractionation Plant-Gallup, NM

Collected: 06/21/2006 12:00

by KH

Account Number: 11288

Submitted: 06/22/2006 08:55

Reported: 07/11/2006 at 09:31

Discard: 08/11/2006

ConocoPhillips

PO Box 2200

Bartlesville OK 74005

WMW02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
03932	4-Nitrophenol	100-02-7	N.D.	10.	29.	ug/l	1
03933	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5.	14.	ug/l	1
03934	Pentachlorophenol	87-86-5	N.D.	3.	14.	ug/l	1
03936	bis(2-Chloroethyl)ether	111-44-4	N.D.	1.	5.	ug/l	1
03937	1,3-Dichlorobenzene	541-73-1	N.D.	1.	5.	ug/l	1
03938	1,4-Dichlorobenzene	106-46-7	N.D.	1.	5.	ug/l	1
03939	1,2-Dichlorobenzene	95-50-1	N.D.	1.	5.	ug/l	1
03941	Hexachloroethane	67-72-1	N.D.	1.	5.	ug/l	1
03942	N-Nitroso-di-n-propylamine	621-64-7	N.D.	1.	5.	ug/l	1
03943	Nitrobenzene	98-95-3	N.D.	1.	5.	ug/l	1
03944	Isophorone	78-59-1	N.D.	1.	5.	ug/l	1
03945	bis(2-Chloroethoxy)methane	111-91-1	N.D.	1.	5.	ug/l	1
03946	1,2,4-Trichlorobenzene	120-82-1	N.D.	1.	5.	ug/l	1
03947	Naphthalene	91-20-3	3. J	1.	5.	ug/l	1
03948	Hexachlorobutadiene	87-68-3	N.D.	1.	5.	ug/l	1
03949	Hexachlorocyclopentadiene	77-47-4	N.D.	5.	14.	ug/l	1
03950	2-Chloronaphthalene	91-58-7	N.D.	2.	5.	ug/l	1
03951	Acenaphthylene	208-96-8	N.D.	1.	5.	ug/l	1
03952	Dimethylphthalate	131-11-3	N.D.	2.	5.	ug/l	1
03953	2,6-Dinitrotoluene	606-20-2	N.D.	1.	5.	ug/l	1
03954	Acenaphthene	83-32-9	N.D.	1.	5.	ug/l	1
03955	2,4-Dinitrotoluene	121-14-2	N.D.	1.	5.	ug/l	1
03956	Fluorene	86-73-7	N.D.	1.	5.	ug/l	1
03957	4-Chlorophenyl-phenylether	7005-72-3	N.D.	2.	5.	ug/l	1
03958	Diethylphthalate	84-66-2	N.D.	2.	5.	ug/l	1
03960	N-Nitrosodiphenylamine	86-30-6	N.D.	2.	5.	ug/l	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
03961	4-Bromophenyl-phenylether	101-55-3	N.D.	1.	5.	ug/l	1
03962	Hexachlorobenzene	118-74-1	N.D.	1.	5.	ug/l	1
03963	Phenanthrene	85-01-8	N.D.	1.	5.	ug/l	1
03964	Anthracene	120-12-7	N.D.	1.	5.	ug/l	1
03965	Di-n-butylphthalate	84-74-2	N.D.	2.	5.	ug/l	1
03966	Fluoranthene	206-44-0	N.D.	1.	5.	ug/l	1
03967	Pyrene	129-00-0	N.D.	1.	5.	ug/l	1
03969	Butylbenzylphthalate	85-68-7	N.D.	2.	5.	ug/l	1
03970	Benzo(a)anthracene	56-55-3	N.D.	1.	5.	ug/l	1
03971	Chrysene	218-01-9	N.D.	1.	5.	ug/l	1
03972	3,3'-Dichlorobenzidine	91-94-1	N.D.	2.	5.	ug/l	1
03973	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2.	5.	ug/l	1

*=This limit was used in the evaluation of the final result



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Lancaster Laboratories Sample No. WW 4799286

WMW-2 Water Sample

Site# 6051

Wingate Fractionation Plant-Gallup, NM

Collected: 06/21/2006 12:00

by KH

Account Number: 11288

Submitted: 06/22/2006 08:55

Reported: 07/11/2006 at 09:31

Discard: 08/11/2006

ConocoPhillips

PO Box 2200

Bartlesville OK 74005

WMW02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
03974	Di-n-octylphthalate	117-84-0	N.D.	2.	5.	ug/l	1
03975	Benzo(b)fluoranthene	205-99-2	N.D.	1.	5.	ug/l	1
03976	Benzo(k)fluoranthene	207-08-9	N.D.	1.	5.	ug/l	1
03977	Benzo(a)pyrene	50-32-8	N.D.	1.	5.	ug/l	1
03978	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	1.	5.	ug/l	1
03979	Dibenz(a,h)anthracene	53-70-3	N.D.	1.	5.	ug/l	1
03980	Benzo(g,h,i)perylene	191-24-2	N.D.	1.	5.	ug/l	1
04680	2-Methylphenol	95-48-7	N.D.	1.	5.	ug/l	1
04681	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	1.	5.	ug/l	1
04682	4-Methylphenol	106-44-5	5. J	2.	5.	ug/l	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04684	Carbazole	86-74-8	N.D.	1.	5.	ug/l	1
02300	UST-Unleaded Waters by 8260B						
05401	Benzene	71-43-2	5,300.	25.	250.	ug/l	50
05407	Toluene	108-88-3	15. J	4.	25.	ug/l	5
05415	Ethylbenzene	100-41-4	24. J	4.	25.	ug/l	5
06310	Xylene (Total)	1330-20-7	150.	4.	25.	ug/l	5

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis Trial#	Date and Time	Analyst	Dilution Factor
00259	Mercury	SW-846 7470A	1	06/27/2006 17:36	Nelli S Markaryan	1
01750	Calcium	SW-846 6010B	1	07/03/2006 09:44	Choon Y Tian	1
01757	Magnesium	SW-846 6010B	1	07/03/2006 09:44	Choon Y Tian	1
01767	Sodium	SW-846 6010B	1	07/04/2006 22:34	Suzette L Lehman	50
07035	Arsenic	SW-846 6010B	1	07/03/2006 09:44	Choon Y Tian	1
07036	Selenium	SW-846 6010B	1	07/03/2006 09:44	Choon Y Tian	1
07046	Barium	SW-846 6010B	1	07/03/2006 09:44	Choon Y Tian	1
07049	Cadmium	SW-846 6010B	1	07/03/2006 09:44	Choon Y Tian	1
07051	Chromium	SW-846 6010B	1	07/03/2006 09:44	Choon Y Tian	1
07055	Lead	SW-846 6010B	1	07/03/2006 09:44	Choon Y Tian	1
07066	Silver	SW-846 6010B	1	07/03/2006 09:44	Choon Y Tian	1

*=This limit was used in the evaluation of the final result



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Lancaster Laboratories Sample No. WW 4799286

WMW-2 Water Sample

Site# 6051

Wingate Fractionation Plant-Gallup, NM

Collected: 06/21/2006 12:00

by KH

Account Number: 11288

Submitted: 06/22/2006 08:55

Reported: 07/11/2006 at 09:31

Discard: 08/11/2006

ConocoPhillips

PO Box 2200

Bartlesville OK 74005

WMW02

00200	pH	EPA 150.1	1	06/22/2006 23:10	Luz M Groff	1
00201	Alkalinity to pH 8.3	EPA 310.1	1	06/28/2006 07:30	Michelle L Lalli	1
00202	Alkalinity to pH 4.5	EPA 310.1	1	06/28/2006 07:30	Michelle L Lalli	1
00212	Total Dissolved Solids	EPA 160.1	1	06/26/2006 09:38	Yolunder Y Bunch	1
00224	Chloride	EPA 300.0	1	06/24/2006 11:45	Ashley M Heckman	200
00228	Sulfate	EPA 300.0	1	06/23/2006 10:57	Ashley M Heckman	5
00368	Nitrate Nitrogen	EPA 300.0	1	06/23/2006 10:57	Ashley M Heckman	5
04678	TCL SW846	SW-846 8270C	1	06/27/2006 10:15	Mark A Clark	1
	Semivolatiles/Waters					
02300	UST-Unleaded Waters by 8260B	SW-846 8260B	1	06/26/2006 14:24	Seth J Good	5
02300	UST-Unleaded Waters by 8260B	SW-846 8260B	1	06/26/2006 14:47	Seth J Good	50
00813	BNA Water Extraction	SW-846 3510C	1	06/24/2006 16:30	Emma L Eck	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	06/26/2006 14:24	Seth J Good	5
01163	GC/MS VOA Water Prep	SW-846 5030B	2	06/26/2006 14:47	Seth J Good	50
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	06/26/2006 00:20	Helen L Schaeffer	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	06/26/2006 18:15	Nelli S Markaryan	1

*=This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. WW 4799287

Duplicate Water Sample

Site# 6051

Wingate Fractionation Plant-Gallup, NM

Collected: 06/21/2006 12:30

by KH

Account Number: 11288

Submitted: 06/22/2006 08:55

Reported: 07/11/2006 at 09:31

Discard: 08/11/2006

ConocoPhillips

PO Box 2200

Bartlesville OK 74005

WMWDP

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
02300	UST-Unleaded Waters by 8260B						
05401	Benzene	71-43-2	5,700.	25.	250.	ug/l	50
05407	Toluene	108-88-3	15. J	4.	25.	ug/l	5
05415	Ethylbenzene	100-41-4	25. J	4.	25.	ug/l	5
06310	Xylene (Total)	1330-20-7	160.	4.	25.	ug/l	5

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
02300	UST-Unleaded Waters by 8260B	SW-846 8260B	1	06/26/2006 15:10	Seth J Good	5
02300	UST-Unleaded Waters by 8260B	SW-846 8260B	1	06/26/2006 15:34	Seth J Good	50
01163	GC/MS VOA Water Prep	SW-846 5030B	1	06/26/2006 15:10	Seth J Good	5
01163	GC/MS VOA Water Prep	SW-846 5030B	2	06/26/2006 15:34	Seth J Good	50

*=This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. WW 4799288

Trip Blank Water Sample
Site# 6051
Wingate Fractionation Plant-Gallup, NM

Collected: 06/21/2006 14:00

Account Number: 11288

Submitted: 06/22/2006 08:55
Reported: 07/11/2006 at 09:31
Discard: 08/11/2006

ConocoPhillips
PO Box 2200
Bartlesville OK 74005

WMWTB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
02300	UST-Unleaded Waters by 8260B						
05401	Benzene	71-43-2	N.D.	0.5	5.	ug/l	1
05407	Toluene	108-88-3	N.D.	0.7	5.	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.8	5.	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.8	5.	ug/l	1

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
02300	UST-Unleaded Waters by 8260B	SW-846 8260B	1	06/26/2006 20:41	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	06/26/2006 20:41	Jason M Long	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: ConocoPhillips
Reported: 07/11/06 at 09:31 AM

Group Number: 994541

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 06173020002A pH	Sample number(s): 4799280-4799286				100		99-101		
Batch number: 06173559201B Chloride	N.D.	0.20	0.40	mg/l	99		90-110		
Sulfate	N.D.	0.30	1.0	mg/l	108		89-110		
Nitrate Nitrogen	N.D.	0.050	0.10	mg/l	97		90-110		
Batch number: 06174WAC026	Sample number(s): 4799280-4799286								
4-Chloroaniline	N.D.	1.	5.	ug/l	72	73	39-116	2	30
Dibenzofuran	N.D.	1.	5.	ug/l	90	87	65-110	3	30
2-Methylnaphthalene	N.D.	1.	5.	ug/l	84	85	65-101	2	30
2-Nitroaniline	N.D.	1.	5.	ug/l	92	89	73-115	3	30
3-Nitroaniline	N.D.	1.	5.	ug/l	87	86	63-112	1	30
4-Nitroaniline	N.D.	1.	5.	ug/l	74	71	55-107	4	30
2,4,5-Trichlorophenol	N.D.	1.	5.	ug/l	85	82	70-115	4	30
2-Chlorophenol	N.D.	1.	5.	ug/l	93	89	63-112	4	30
Phenol	N.D.	1.	5.	ug/l	46	45	29-57	2	30
2-Nitrophenol	N.D.	1.	5.	ug/l	105	105	83-119	0	30
2,4-Dimethylphenol	N.D.	3.	10.	ug/l	83	85	60-107	2	30
2,4-Dichlorophenol	N.D.	1.	5.	ug/l	90	90	66-110	0	30
4-Chloro-3-methylphenol	N.D.	1.	5.	ug/l	87	88	74-113	1	30
2,4,6-Trichlorophenol	N.D.	1.	5.	ug/l	95	93	69-111	2	30
2,4-Dinitrophenol	N.D.	20.	60.	ug/l	89	85	44-130	4	30
4-Nitrophenol	N.D.	10.	30.	ug/l	33	33	14-77	1	30
4,6-Dinitro-2-methylphenol	N.D.	5.	15.	ug/l	96	99	56-130	3	30
Pentachlorophenol	N.D.	3.	15.	ug/l	76	77	48-108	2	30
bis(2-Chloroethyl) ether	N.D.	1.	5.	ug/l	84	82	57-110	3	30
1,3-Dichlorobenzene	N.D.	1.	5.	ug/l	89	86	52-106	4	30
1,4-Dichlorobenzene	N.D.	1.	5.	ug/l	91	87	54-103	4	30
1,2-Dichlorobenzene	N.D.	1.	5.	ug/l	87	84	58-100	3	30
Hexachloroethane	N.D.	1.	5.	ug/l	89	85	33-116	4	30
N-Nitroso-di-n-propylamine	N.D.	1.	5.	ug/l	83	81	56-109	2	30
Nitrobenzene	N.D.	1.	5.	ug/l	83	83	61-111	1	30
Isophorone	N.D.	1.	5.	ug/l	75	76	63-105	1	30
bis(2-Chloroethoxy)methane	N.D.	1.	5.	ug/l	95	95	69-119	0	30
1,2,4-Trichlorobenzene	N.D.	1.	5.	ug/l	88	89	62-106	1	30
Naphthalene	N.D.	1.	5.	ug/l	91	92	70-104	1	30
Hexachlorobutadiene	N.D.	1.	5.	ug/l	89	90	32-123	1	30
Hexachlorocyclopentadiene	N.D.	5.	15.	ug/l	87	81	32-152	7	30
2-Chloronaphthalene	N.D.	2.	5.	ug/l	81	79	56-100	3	30
Acenaphthylene	N.D.	1.	5.	ug/l	96	93	84-123	3	30
Dimethylphthalate	N.D.	2.	5.	ug/l	90	85	46-109	5	30
2,6-Dinitrotoluene	N.D.	1.	5.	ug/l	89	90	70-108	0	30
Acenaphthene	N.D.	1.	5.	ug/l	94	91	68-111	3	30
2,4-Dinitrotoluene	N.D.	1.	5.	ug/l	93	88	75-122	6	30
Fluorene	N.D.	1.	5.	ug/l	91	88	61-116	4	30

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.

Quality Control Summary

Client Name: ConocoPhillips
Reported: 07/11/06 at 09:31 AM

Group Number: 994541

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
4-Chlorophenyl-phenylether	N.D.	2.	5.	ug/l	89	86	65-110	3	30
Diethylphthalate	N.D.	2.	5.	ug/l	90	86	61-110	4	30
N-Nitrosodiphenylamine	N.D.	2.	5.	ug/l	94	95	78-110	1	30
4-Bromophenyl-phenylether	N.D.	1.	5.	ug/l	94	95	67-110	1	30
Hexachlorobenzene	N.D.	1.	5.	ug/l	93	94	68-113	1	30
Phenanthrene	N.D.	1.	5.	ug/l	95	94	68-111	0	30
Anthracene	N.D.	1.	5.	ug/l	92	94	68-108	2	30
Di-n-butylphthalate	N.D.	2.	5.	ug/l	96	96	63-113	1	30
Fluoranthene	N.D.	1.	5.	ug/l	86	87	66-108	1	30
Pyrene	N.D.	1.	5.	ug/l	100	100	68-114	0	30
Butylbenzylphthalate	N.D.	2.	5.	ug/l	99	101	63-120	3	30
Benzo(a)anthracene	N.D.	1.	5.	ug/l	95	97	72-112	2	30
Chrysene	N.D.	1.	5.	ug/l	96	98	70-111	2	30
3,3'-Dichlorobenzidine	N.D.	2.	5.	ug/l	91	94	48-116	3	30
bis(2-Ethylhexyl)phthalate	N.D.	2.	5.	ug/l	102	105	62-126	3	30
Di-n-octylphthalate	N.D.	2.	5.	ug/l	96	95	58-118	1	30
Benzo(b)fluoranthene	N.D.	1.	5.	ug/l	87	94	67-117	7	30
Benzo(k)fluoranthene	N.D.	1.	5.	ug/l	89	80	67-120	10	30
Benzo(a)pyrene	N.D.	1.	5.	ug/l	88	87	68-121	1	30
Indeno(1,2,3-cd)pyrene	N.D.	1.	5.	ug/l	93	92	67-122	1	30
Dibenz(a,h)anthracene	N.D.	1.	5.	ug/l	99	97	71-129	2	30
Benzo(g,h,i)perylene	N.D.	1.	5.	ug/l	94	94	67-121	0	30
2-Methylphenol	N.D.	1.	5.	ug/l	81	79	56-105	2	30
2,2'-oxybis(1-Chloropropane)	N.D.	1.	5.	ug/l	101	97	68-133	4	30
4-Methylphenol	N.D.	2.	5.	ug/l	88	85	51-98	4	30
Carbazole	N.D.	1.	5.	ug/l	94	94	66-109	0	30

Batch number: 061751848002	Sample number(s): 4799280-4799281			
Calcium	N.D.	0.104	0.200	mg/l
Magnesium	N.D.	0.0135	0.100	mg/l
Sodium	N.D.	0.433	1.00	mg/l
Arsenic	N.D.	0.010	0.0200	mg/l
Selenium	N.D.	0.0094	0.0200	mg/l
Barium	N.D.	0.00062	0.0050	mg/l
Cadmium	N.D.	0.00091	0.0050	mg/l
Chromium	N.D.	0.0023	0.0150	mg/l
Lead	N.D.	0.0069	0.0200	mg/l
Silver	N.D.	0.0016	0.0050	mg/l

Batch number: 06177021201A	Sample number(s): 4799280-4799286			
Total Dissolved Solids	N.D.	9.7	30.0	mg/l

Batch number: 061771848001	Sample number(s): 4799282-4799286			
Calcium	N.D.	0.104	0.200	mg/l
Magnesium	0.0204 J	0.0135	0.100	mg/l
Sodium	N.D.	0.433	1.00	mg/l
Arsenic	N.D.	0.010	0.0200	mg/l
Selenium	N.D.	0.0094	0.0200	mg/l
Barium	N.D.	0.00062	0.0050	mg/l
Cadmium	N.D.	0.00091	0.0050	mg/l
Chromium	N.D.	0.0023	0.0150	mg/l
Lead	N.D.	0.0069	0.0200	mg/l
Silver	N.D.	0.0016	0.0050	mg/l

Batch number: 061775713002	Sample number(s): 4799280-4799286			
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*- Outside of specification

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- (2) The background result was more than four times the spike added.



Analysis Report

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Page 3 of 5

Quality Control Summary

Client Name: ConocoPhillips
Reported: 07/11/06 at 09:31 AM

Group Number: 994541

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Mercury	N.D.	0.00005	0.00020	mg/l	110		80-120		
		6							
Batch number: 06179020201A	Sample number(s): 4799280-4799286				100		98-103		
Alkalinity to pH 4.5									
Batch number: T061771AA	Sample number(s): 4799280-4799287								
Benzene	N.D.	0.5	5.	ug/l	99	101	85-117	3	30
Toluene	N.D.	0.7	5.	ug/l	86	89	85-115	4	30
Ethylbenzene	N.D.	0.8	5.	ug/l	83	86	82-119	3	30
Xylene (Total)	N.D.	0.8	5.	ug/l	85	88	83-113	3	30
Batch number: T061772AA	Sample number(s): 4799288								
Benzene	N.D.	0.5	5.	ug/l	106		85-117		
Toluene	N.D.	0.7	5.	ug/l	95		85-115		
Ethylbenzene	N.D.	0.8	5.	ug/l	91		82-119		
Xylene (Total)	N.D.	0.8	5.	ug/l	91		83-113		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>BKG MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 06173020002A	Sample number(s): 4799280-4799286				BKG: 4799280				
pH					7.6	7.6	0		1
Batch number: 06173559201B	Sample number(s): 4799280-4799286				UNSPK: 4799280	BKG: 4799280			
Chloride	95		90-110		167.	147.	12* (1)		3
Sulfate	97		90-110		1,080.	999.	8* (1)		3
Nitrate Nitrogen	98		90-110		N.D.	N.D.	200* (1)		2
Batch number: 061751848002	Sample number(s): 4799280-4799281				UNSPK: P799086	BKG: P799086			
Calcium	(2)	(2)	75-125	1	20	48.1	47.6	1	20
Magnesium	(2)	(2)	75-125	9	20	1,390.	1,360.	2	20
Sodium	(2)	(2)	75-125	8	20	60.9	59.5	2	20
Arsenic	104	101	75-125	3	20	N.D.	N.D.	1190* (1)	20
Selenium	107	107	75-125	0	20	N.D.	N.D.	64* (1)	20
Barium	86	82	75-125	5	20	0.0483	0.0478	1	20
Cadmium	93	92	83-116	1	20	0.0111	0.0112	0 (1)	20
Chromium	97	95	81-120	1	20	N.D.	N.D.	0 (1)	20
Lead	98	95	75-125	2	20	0.0288	0.0279	3 (1)	20
Silver	100	99	75-125	1	20	N.D.	N.D.	-61 (1)	20
Batch number: 06177021201A	Sample number(s): 4799280-4799286				UNSPK: P799084	BKG: 4799282			
Total Dissolved Solids	103	96	60-140	2	5	5,640.	5,500.	3	5
Batch number: 061771848001	Sample number(s): 4799282-4799286				UNSPK: 4799282	BKG: 4799282			
Calcium	(2)	(2)	75-125	5	20	155.	165.	6	20
Magnesium	(2)	(2)	75-125	4	20	73.8	79.1	7	20
Sodium	(2)	(2)	75-125	6	20	1,850.	1,780.	4	20

*- Outside of specification

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(2) The background result was more than four times the spike added.

Quality Control Summary

Client Name: ConocoPhillips
Reported: 07/11/06 at 09:31 AM

Group Number: 994541

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS	MSD	MS/MSD	RPD	BKG	DUP	DUP	Dup RPD
	%REC	%REC	Limits	RPD	MAX	Conc	Conc	Max
Arsenic	111	109	75-125	1	20	N.D.	N.D.	63* (1)
Selenium	98	93	75-125	6	20	N.D.	N.D.	41* (1)
Barium	110	106	75-125	3	20	0.468	0.496	6
Cadmium	100	97	83-116	3	20	N.D.	N.D.	-22 (1)
Chromium	119	115	81-120	3	20	0.0996	0.109	9
Lead	105	104	75-125	1	20	0.0339	0.0328	4 (1)
Silver	105	103	75-125	2	20	N.D.	N.D.	83* (1)
Batch number: 061775713002	Sample number(s): 4799280-4799286 UNSPK: P798209 BKG: P798209							
Mercury	118	114	80-120	3	20	N.D.	N.D.	-83 (1)
Batch number: 06179020201A	Sample number(s): 4799280-4799286 UNSPK: P799840 BKG: P799840							
Alkalinity to pH 8.3						N.D.	N.D.	0 (1)
Alkalinity to pH 4.5	95	94	64-130	0	2	120.	128.	7*
Batch number: T061771AA	Sample number(s): 4799280-4799287 UNSPK: P797970							
Benzene	113		83-128					
Toluene	102		83-127					
Ethylbenzene	96		82-129					
Xylene (Total)	99		82-130					
Batch number: T061772AA	Sample number(s): 4799288 UNSPK: P797196							
Benzene	120	115	83-128	4	30			
Toluene	106	105	83-127	1	30			
Ethylbenzene	99	99	82-129	1	30			
Xylene (Total)	99	98	82-130	1	30			

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: TCL SW846 Semivolatiles/Waters
Batch number: 06174WAC026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5
4799280	65	51	91	84
4799281	62	46	90	79
4799282	66	53	87	80
4799283	70	55	93	84
4799284	66	50	89	85
4799285	69	51	96	86
4799286	62	48	94	84
Blank	65	39	92	82
LCS	70	43	96	85
LCSD	68	43	92	88
Limits:	10-99	10-80	31-148	51-123

*- Outside of specification

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Quality Control Summary

Client Name: ConocoPhillips
Reported: 07/11/06 at 09:31 AM

Group Number: 994541

Surrogate Quality Control

	2-Fluorobiphenyl	Terphenyl-d14
4799280	95	108
4799281	91	109
4799282	91	100
4799283	94	111
4799284	91	107
4799285	97	111
4799286	92	105
Blank	94	105
LCS	98	105
LCSD	97	110

Limits: 64-112 52-151

Analysis Name: UST-Unleaded Waters by 8260B

Batch number: T061771AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
4799280	93	81	83	89
4799281	94	83	83	87
4799282	95	84	82	87
4799283	94	83	83	86
4799284	93	83	83	90
4799285	95	82	84	89
4799286	91	82	83	91
4799287	90	82	82	87
Blank	91	83	83	86
LCS	90	87	84	89
LCSD	88	84	82	89
MS	89	82	86	92

Limits: 80-116 77-113 80-113 78-113

Analysis Name: UST-Unleaded Waters by 8260B

Batch number: T061772AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
4799288	90	83	83	87
Blank	93	84	83	87
LCS	89	84	84	90
MS	92	87	83	89
MSD	91	85	85	91

Limits: 80-116 77-113 80-113 78-113

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

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- (2) The background result was more than four times the spike added.

ConocoPhillips Analysis Request/Chain of Custody



001398

Acct. #: 11288 For Lancaster Laboratories use only
Group # 994341 Sample #: 4199280-88

SCR#: 29825

Site Information				Matrix		Analyses Requested												Preservative Codes				
Site #	WNO #	Site Address	ConocoPhillips PM	Company Code	Core Work Order #	Total Lab Budget	Consultant/Office	Consultant Prj. Mgr.	Consultant Phone #	Fax #	Sampler	Grab	Composite	Soil	Water	Oil	Air	Matrix	Preservation Codes	Preservative Codes	Remarks	
06051	PO# 4506659940	15 El Paso Drive, Gallup NM Wingate	Paul Taylor		00001019603	55345	Maxon Technologies / ABC	Kelly Henderson	505 0975-2563	231-856	Kelly Henderson, Angie Conlon								06051			
WMW-7	6-21-06	8:25	X			X			X	X	X	X	X	X	X	X	X					
WMW-6	6-21-06	9:00	X			X			X	X	X	X	X	X	X	X	X					
WMW-3	6-21-06	9:45	X			X			X	X	X	X	X	X	X	X	X					
WMW-1	6-21-06	10:55	X			X			X	X	X	X	X	X	X	X	X					
WMW-4	6-21-06	11:15	X			X			X	X	X	X	X	X	X	X	X					
WMW-5	6-21-06	10:30	X			X			X	X	X	X	X	X	X	X	X					
WMW-2	6-21-06	12:00	X			X			X	X	X	X	X	X	X	X	X					
Duplicate	6-21-06	12:30	X			X			X	X	X	X	X	X	X	X	X					
Trip Blank	6-21-06	14:00	X			X			X	X	X	X	X	X	X	X	X					
Turnaround Time Requested in Business Days (TAT) (please circle):												Relinquished by:		Date	Time	Received by:		Date	Time			
STD-TAT 5 day 48 hour												Carla Conlon		6-13-06	11:35	Kelly Henderson		6-21-06	14:00			
24 hour other												Relinquished by:		Date	Time	Received by:		Date	Time			
												Kelly Henderson		6-21-06	15:00							
Reporting Requirements (please circle)												Relinquished by:		Date	Time	Received by:		Date	Time			
NJ Reduced NY ASP Cat. A Raw Data Diskette																						
NY ASP Cat. B Full Type I Other												Relinquished by:		Date	Time	Received by:		Date	Time			
																Kelly Henderson		6-21-06	15:00			
Relinquished by Commercial Carrier:												UPS		FedEx	Other	Temperature Upon Receipt		2.1°-5.3°c				

Lancaster Laboratories Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

N.D.	none detected	BMQL	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	MPN	Most Probable Number
IU	International Units	CP Units	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	NTU	nephelometric turbidity units
C	degrees Celsius	F	degrees Fahrenheit
Cal	(diet) calories	lb.	pound(s)
meq	milliequivalents	kg	kilogram(s)
g	gram(s)	mg	milligram(s)
ug	microgram(s)	l	liter(s)
ml	milliliter(s)	ul	microliter(s)
m3	cubic meter(s)	fib >5 um/ml	fibers greater than 5 microns in length per ml
<	less than – The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
ppm	parts per million – One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture.		

U.S. EPA data qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	B	Value is <CRDL, but ≥IDL
B	Analyte was also detected in the blank	E	Estimated due to interference
C	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike amount not within control limits
E	Concentration exceeds the calibration range of the instrument	S	Method of standard additions (MSA) used for calculation
J	Estimated value	U	Compound was not detected
N	Presumptive evidence of a compound (TICs only)	W	Post digestion spike out of control limits
P	Concentration difference between primary and confirmation columns >25%	*	Duplicate analysis not within control limits
U	Compound was not detected	+	Correlation coefficient for MSA <0.995
X,Y,Z	Defined in case narrative		

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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**ANNUAL REPORT
WELL INSTALLATION AND
GROUNDWATER MONITORING
SAMPLING EVENT OF SEPTEMBER 2004**

**WINGATE FRACTIONING PLANT
Gallup, New Mexico**

**IN COMPLIANCE WITH GROUNDWATER
DISCHARGE PLAN GW-054**

Prepared For:



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ConocoPhillips Work Order No.: 6051MAX001
Maxim Project No.: 4690019

November 19, 2004

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1.0 INTRODUCTION AND SITE HISTORY

The Wingate Fractionating Plant is located in portions of Sections 9, 10, 15, 16, and 17, Township 15 North, Range 17 West, NMPM, McKinley County, New Mexico. Figure 1 is a site location map. A Groundwater Discharge Plan for the Wingate Plant was first approved by the New Mexico Oil Conservation Division (OCD) on August 17, 1992. ConocoPhillips submitted a Plan renewal application to OCD dated April 18, 2002, with attachments and addendums dated June 6 and October 28, 2002.

Maxim Technologies, Inc. (Maxim) has been retained by ConocoPhillips to prepare documents in response to OCD direction and to conduct field investigations, as needed, to comply with OCD requirements. In a letter dated April 18, 2003 from OCD to ConocoPhillips, OCD requested plans for investigations of portions of the Wingate site, specifically, the railroad rack vadose zone and groundwater contamination area, and the flare pit groundwater contamination area. The plans in questions would be partially based on analytical data collected over a period of years, with the most recent data for some of the areas being up to five years old. Maxim performed groundwater-monitoring activities on May 15, July 30, and July 31, 2003.

Four monitoring wells were installed during June 2003. Three of these wells surround the evaporation ponds and one is located on the east side of the plant. Two of the wells surrounding the evaporation pond were installed above the groundwater table in order to determine if leakage from the ponds is occurring. To date there has been no indication of water in these wells. Information for the June 2003 investigation was submitted to the OCD during September 2003 in a report titled *Groundwater Monitoring Report Sampling Event of May and June 2003*. MWR-1 was a re-drill of MW-1, which was damaged.

Following the May and June 2003 investigation, Maxim submitted a document titled *Response to Draft #2 Attachment to the Groundwater Discharge Plan GW-054 Approval, Dated January 7, 2004, Amended Discharge Plan Approval Conditions*, to the New Mexico Oil Conservation Division (OCD) on February 5, 2004.

In a letter dated March 24, 2004, OCD approved the groundwater discharge plan GW-054 with amended conditions contained in an attachment to the plan. The work by Maxim recorded in this report was conducted in compliance with the amended conditions.

During the week of September 20, 2004 Maxim returned to the site in order to fulfill requirements of the discharge plan amended conditions. These requirements included the following:

- Installation of a monitoring well downgradient of WMW-3,
- Installation of a monitoring well west of WMW-2,
- Annual sampling of all groundwater monitoring wells,
- Composite annual sampling of the evaporation ponds, and
- Preparation of an Annual Report.

This report presents the results of the September 2004 investigation.

2.0 SITE DESCRIPTION

The site consists of a gas fractionating plant with associated pipelines and storage tanks. The site is surrounded by a chain-link fence, and the office is located on the south end of the site. Two evaporation ponds, which are utilized and maintained by ConocoPhillips, are located west of the site, and are surrounded by a chain link fence. A site map is provided as Figure 2.

The site lies along the south side of an east west trending alluvial drainage formed by the south fork of the Puerco River. The site is approximately 6,590 feet above mean sea level, 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. To the north of the plant, a red sandstone escarpment rises 400 feet above the valley to an elevation of approximately 7,000 feet. The escarpment is comprised of Triassic/ Jurassic-age sandstone and siltstone deposits of the Entrada and Wingate sandstones.

There are currently thirteen monitoring wells on and surrounding the site, eight original wells, four that were installed in June 2003, including a replacement well for MW-1, and two (WMW-7 and WMW-8) that were installed in September 2004 at the request of OCD. MW-1 was abandoned due to a broken screen, and replaced with MWR-1, which is located adjacent to the abandoned well. MWS-1 and MWS-2 were installed adjacent to MWR-1 and MW-2 on the west and north edge of the West Evaporation Pond. They are two shallow wells placed to detect potential leakage of the evaporation ponds. WMW-6 was placed on the east side of the site, up gradient of the other wells. The June 2003 installation of this well was in response to chloride found in WMW-1, WMW-2, WMW-3, and WMW-5, detected in May 2003 groundwater sampling. WMW-7 was installed west and downgradient of WMW-2. WMW-8 was installed on El Paso Natural Gas property west of and downgradient of WMW-3. The location is also

downgradient of the center of the facility. Figure 2 illustrates the monitoring well locations.

3.0 WELL INSTALLATION

Monitoring wells MWW-7 and WMW-8 were installed during September, 2004. The borings were logged by the Maxim field geologist. According to these lithologic descriptions, the soil is composed of clay and silty clay to depths up to 20 feet below ground surface (bgs). Underlying the clay and silt is fine-grained, loose clayey sand. The boring/well completion logs are included in Appendix A.

Groundwater was encountered at approximately 26 feet bgs in WMW-7 and approximately 17 feet bgs in WMW-8, and rose to approximately 9 feet bgs, suggesting confined aquifer conditions. Similar conditions were observed during drilling of other wells on the site. According to groundwater elevation data collected in September 2004, groundwater beneath the site flows northwest and occurs in loose sand that lies under a layer of clay. Groundwater elevation data for the site is provided in Table 1. A groundwater elevation map was constructed using the September 23 and 24, 2004 groundwater elevation data and is included as Figure 2.

WMW-7 and WMW-8 were completed using 4-inch PVC screen and riser. The screen was pre-packed with sand before installation in order to address the problem with flowing sands encountered due to the confined aquifer conditions. WMW-7 was installed with 22 feet of 0.010-inch slotted screen, including two 1-foot solid PVC connectors. WMW-8 was installed with 21 feet of 0.010-inch slotted screen including one 1-foot solid PVC connector. Sand was placed around the pre-packed screen to two feet above the top of screen and a 3 to 4 foot bentonite seal was placed above the sand. Bentonite and cement grout was placed above the bentonite seal to the top of the boring. Casings were cut to approximately 2 feet above ground surface, capped with locking expandable-gasket caps, and covered with locking steel protectors. DePauli Engineering located in Gallup, New Mexico surveyed the wells for location and elevation from the top of PVC casing on October 5, 2004.

4.0 GROUNDWATER SAMPLING METHODOLOGY

Maxim performed groundwater-monitoring activities on September 23 and 24, 2004. Groundwater depths were measured using an electronic water level indicator and used to calculate the water volume in each well. Before and after each use, the water level indicator was cleaned with soap and water,

then rinsed with isopropyl alcohol and de-ionized water. Graphs presenting groundwater elevations versus time for each monitoring well are located in Appendix B. Since WMW-7 and WMW-8 have one groundwater elevation measurement graphs could not be compiled. Water was purged from the well until field parameters of pH, conductivity, total dissolved solids, and temperature stabilized and/or three well volumes of water were removed. The pump was decontaminated before and after each use by circulating alcanox and de-ionized water solution through the pump followed by circulating a de-ionized water rinse. The purpose of the purge was to obtain a groundwater sample that would be representative of aquifer conditions rather than possible stagnant conditions in the well. Field parameters of pH, temperature, conductivity, and total dissolved solids were measured during purging using a Hanna portable groundwater parameter meter. Purge water was discharged on the ground surface, with the exception of purge water from WMW-2 which is known to contain elevated levels of benzene. This water was pumped into a 55-gallon drum for storage and disposal by ConocoPhillips.

Groundwater samples were collected from the monitoring wells by lowering vinyl tubing attached to a purge pump gently into the water column. Groundwater was pumped into laboratory prepared sample containers. Disposable nitrile gloves were worn by sampling personnel and were changed at each well location. The purge pump and tubing was decontaminated following each well sampling by circulating alcanox and de-ionized water solution through the pump followed by circulating a de-ionized water rinse. WMW-2, the well known to contain elevated benzene concentrations, was sampled last.

Following collection, the sample containers were immediately labeled, placed on ice, and chilled to approximately 4° C. Samples were submitted to Lancaster Laboratories in Lancaster, Pennsylvania for analyses of benzene, toluene, ethylbenzene, and total xylene (BTEX) by Environmental Protection Agency (EPA) Method 8260B; semi-volatile organics by EPA Method 8270; chloride, sulfate, and nitrate by EPA Method 300.0A; alkalinity by EPA Method 310.1; metals including mercury, arsenic, barium, calcium, cadmium, chromium, magnesium, selenium, silver, sodium, and lead by EPA Method 6010B; and total dissolved solids (TDS) by EPA Method 160.1. The samples collected from the evaporation pond area (MWR-1, MW-2, and MW-3, and East Pond and West Pond surface water samples) were also analyzed for Biochemical Oxygen Demand, (BOD), Chemical Oxygen Demand (COD), and fecal coliform analyses under Environmental Protection Agency (EPA) procedures 405.1, 410.1, and SM 9222D, respectively. Sample analytical results were compared to the New Mexico Water Quality Control Commission (NMWCC) (20.6.2.3103) Part A Human Health Standards and Part B Other Standards for Domestic Water Supply.

5.0 GROUNDWATER ANALYTICAL RESULTS

The September 2004 groundwater analytical results are shown in Table 2. Analytical results for constituents of concern (COCs) versus time for each well are presented in Appendix B. Since only one data point exists for WMW-7 and WMW-8 graphs could not be constructed. The laboratory analytical report is presented in Appendix C.

5.1 Evaporation Pond Perimeter Monitoring Wells

MWS-1 and MWS-2 are the shallow vadose-zone wells installed to monitor possible evaporation pond leakage. These wells were dry at the time they were constructed and were also dry at the time of the sampling fieldwork. Thus, no samples were collected from these wells. This indicates that the ponds are not leaking.

The samples from MWR-1, MW-2, and MW-3 contained no detectable BTEX, and no fecal coliform. BOD and COD concentrations were within expected ranges. The samples from MWR-1, MW-2, and MW-3 did not contain COC concentrations above NMWCC standards for human health.

Both the East and West Evaporation Ponds contained concentrations of BOD and COD. The East Evaporation Pond also contained concentrations of total coliform.

5.2 Wingate Facility and Surrounding Monitoring Wells

Monitoring WMW-1, WMW-3, WMW-4, WMW-5, WMW-6, WMW-7, and WMW-8, contained no detectable BTEX. The sample collected from WMW-2 contained 28,000 micrograms per liter ($\mu\text{g/L}$) benzene and 650 $\mu\text{g/L}$ xylenes. These concentrations are above the New Mexico Water Quality Control Commission (NMWQCC) Standards for Human Health of 10 $\mu\text{g/L}$ and 620 $\mu\text{g/L}$, respectively. This benzene concentration is slightly lower than the concentration found in the groundwater sample collected during the 2003 sampling event. BTEX was not detected in WMW-4 or WMW-7, located downgradient of WMW-2, indicating that the benzene impact is stable.

The samples collected from WMW-1, WMW-2, WMW-3, and WMW-5 contained chloride concentrations above the NMWQCC standard of 250 mg/L. All chloride concentrations have decreased since the 2003 sampling event with the exception of WMW-2, which has increased. The sample from WMW-3 contained lead, barium, and chromium concentrations, which exceed the NMWQCC

standards. The samples from the West and East Evaporation Ponds contained elevated concentrations of chloride at 90,300 mg/L and 19,600 mg/L, respectively.

The samples from WMW-1, WMW-3, WMW-4, WMW-5, WMW-7, and the East and West Evaporation Ponds contained sulfate and TDS concentrations above the NMWQCC standards. All values have decreased since the 2003 sampling event except in WMW-1. WMW-2 and WMW-6 contained TDS concentrations above the NMWQCC standards. The TDS concentration in WMW-2 has increased since the 2003 sampling event. The sample collected from the West Evaporation Pond was non-detect for nitrate; however, the MDL was greater than the NMWQCC standard. This MDL was high due to the elevated concentrations of chloride and sulfate in the West Pond sample.

FIGURES

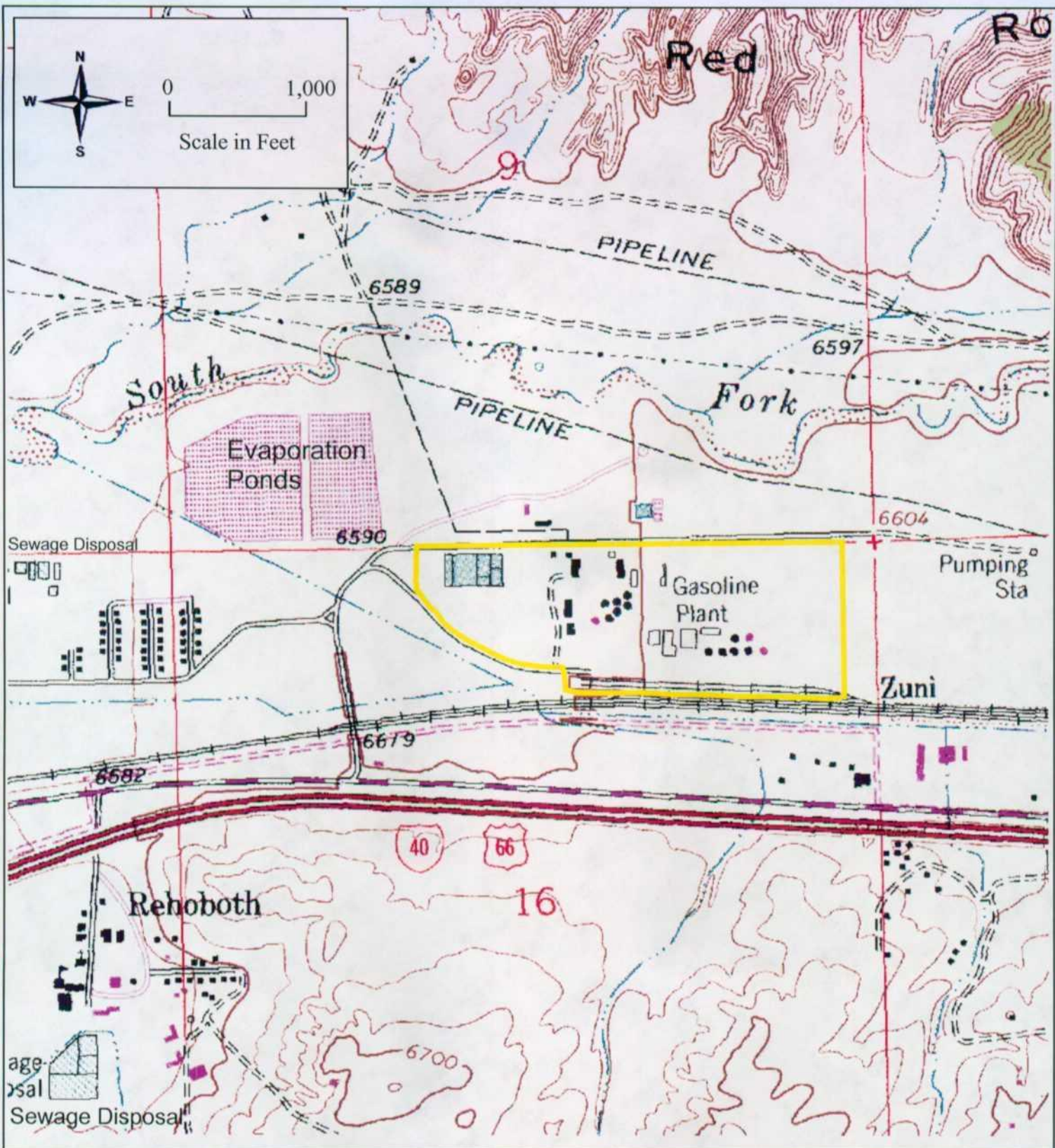
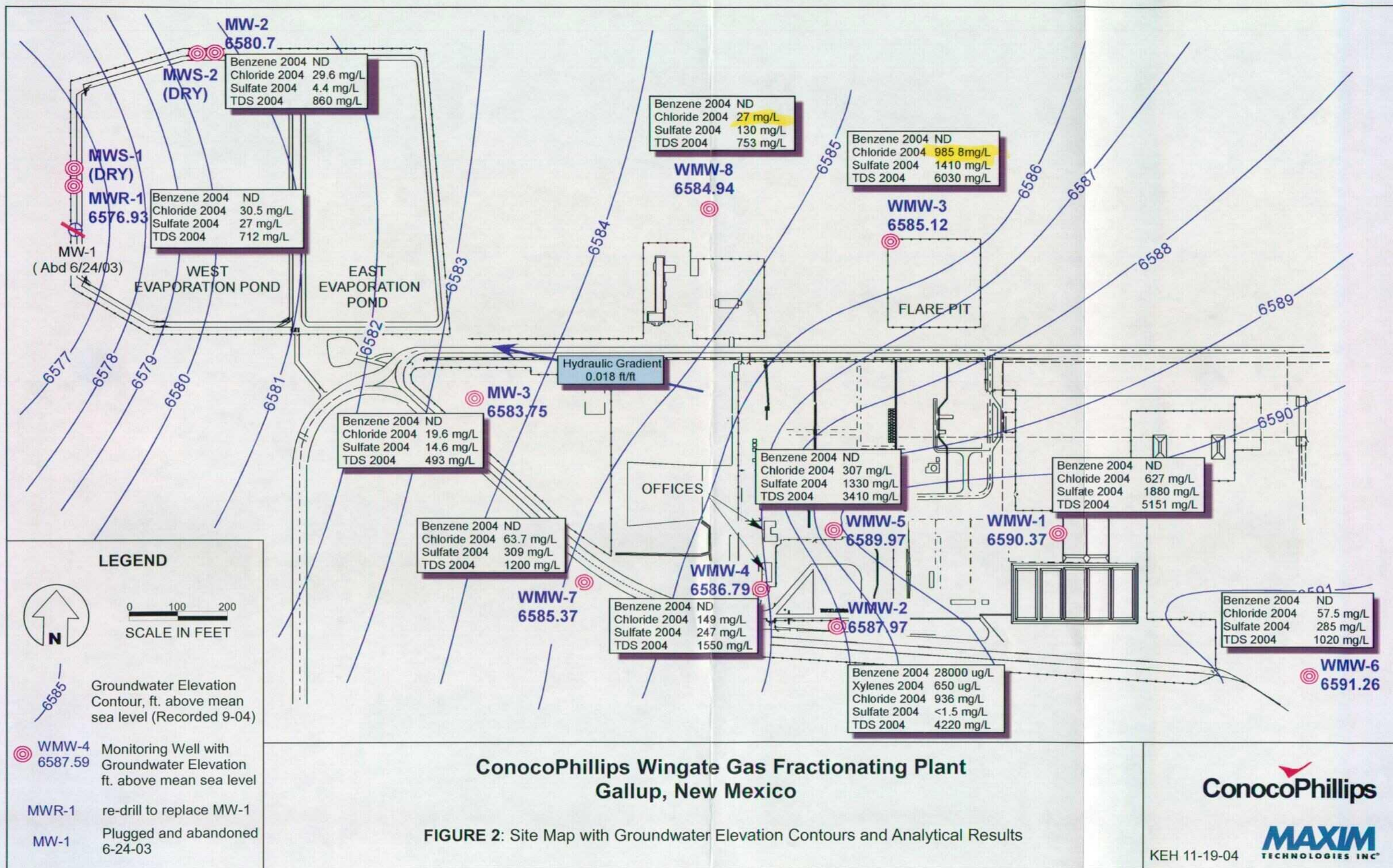


Figure 1: Site Location Map

CONOCOPHILLIPS WINGATE GAS FRACTIONATING PLANT GALLUP, NEW MEXICO

Approximate Boundary of the Wingate Plant



TABLES

Table 1. Wingate Groundwater Elevation (9/22-24/04)

Well ID	Elevation (TOC)	Screened Interval (feet)	Total Depth (bgs)	Depth to Groundwater (feet below TOC)	Groundwater Elevation
MWR-1	6585.13	20 - 45	45	8.2	6576.93
MW-2	6585.91	20 - 45	45	5.21	6580.7
MW-3	6590.08	20 - 45	45	6.33	6583.75
WMW-1	6597.13	5 - 15	15	6.76	6590.37
WMW-2	6594.88	5 - 20	20	6.91	6587.97
WMW-3	6594.92	5 - 20	20	9.8	6585.12
WMW-4	6595.49	5 - 20	20	8.70	6586.79
WMW-5	6597.11	5 - 20	20	7.14	6589.97
WMW-6	6603.86	20-35	35	12.6	6591.26
WMW-7	6594.7	16-38	38	9.33	6585.37
WMW-8	6594.05	17-38	38	9.11	6584.94

Notes:

TOC - Top of Casing

bgs - below ground surface

Wingate Fractionating Plant
Groundwater Analytical Results Summary
Table 2

Sample Location	Date Sampled	Wingate Fractionating Plant, Gallup, New Mexico ANALYSES FROM GW SAMPLING, MAY and JULY, 2003 and SEPTEMBER 2004																					
		SW846 8260B Micrograms per Liter (ug/L)					SW846 6010B Milligrams per Liter (mg/L)										MCAWW 300.0A (mg/L)			EPA 150.1 (units)	MCAWW 310.1 (mg/L)	MCAWW 160.1 (mg/L)	
		Benzene	Toluene	Ethylbenzene	Xylenes	TPH-GRO	Mercury	Arsenic	Barium	Calcium	Cadmium	Chromium	Magnesium	Selenium	Silver	Sodium	Lead	Chloride	Nitrate	Sulfate	pH	Alkalinity	TDS
MWR-1	07/31/03	<0.5	<0.7	<0.8	<0.8	ND	<0.00016	0.0114	1.87	92.4	<0.00087	0.0522	46.1	0.0086	<0.0018	397	0.0562	154	<0.40	147	7.9	725	1340
	09/24/04	<0.5	<0.7	<0.8	<0.8	NS	<0.00028	<0.0047	0.252	12.5	<0.00076	<0.0025	7.56	<0.0059	<0.0020	291	<0.0100	30.5	<0.40	27.0	8.0	553	712
MWS-1 dry		Dry Well; Not Sampled																					
MWS-2 dry		Dry Well; Not Sampled																					
MW-2	05/14/03	<0.1	<1.0	<1.0	<2.0	NS	NA	<0.01	0.21	14.7	<0.002	<0.005	7.9	NA	NA	418	<0.003	64.4	<0.5	102	NA	770	1140
	09/24/04	<0.5	<0.7	<0.8	<0.8	ND	<0.000028	0.0131	0.126	6.30	<0.00076	<0.0025	2.96	<0.0059	<0.0020	321	<0.0100	29.6	<0.40	4.4	8.3	718	860
MW-3	05/14/03	<0.1	<1.0	<1.0	<2.0	NS	NA	<0.01	<0.2	28.7	<0.002	<0.005	13.5	NA	NA	149	<0.003	19.2	<0.5	15.5	NA	428	542
	09/24/04	<0.5	<0.7	<0.8	<0.8	NS	<0.00028	<0.0047	0.150	27.9	<0.00076	<0.0025	13.4	<0.0059	<0.0020	156	<0.0100	19.6	<0.40	14.6	7.8	419	493
WMW-1	05/14/03	<0.1	<1.0	<1.0	<2.0	NS	NA	<0.01	<0.2	258	<0.002	<0.005	69.7	NA	NA	1140	<0.003	648	<0.5	1870	NA	1050	5090
	09/24/04	<0.5	<0.7	<0.8	<0.8	NS	<0.000028	<0.0047	0.0256	236	<0.00076	0.0025	63.8	0.0059	0.002	1370	<0.0100	627	<0.40	1880	7.8	1030	5150
WMW-2	05/14/03	29000	<500	<500	<1000	NS	NA	0.016	0.42	47.3	0.0081	0.0095	27.4	NA	NA	1140	0.0180	628	0.6	8.2	NA	1710	3150
	09/24/04	28000	450	110	650	NS	<0.000028	<0.0047	0.421	57.2	0.0036	<0.0025	33.8	<0.0059	<0.0020	1510	0.0100	936	<0.40	<1.5	7.6	2110	4220
WMW-3	05/14/03	<0.1	<1.0	<1.0	<2.0	NS	NA	0.014	0.62	186	<0.002	0.19	88.5	NA	NA	1860	0.042	1150	1.5	1680	NA	1090	5570
	09/25/04	<0.5	<0.7	<0.8	<0.8	NS	<0.00028	0.0351	1.14	470	0.0012	0.905	216	<0.0059	<0.0020	1810	0.250	985	<0.40	1410	7.5	1700	6030
WMW-4	05/14/03	<0.1	<1.0	<1.0	<2.0	NS	NA	<0.01	0.28	37.3	<0.002	0.006	16.8	NA	NA	550	16.8	133	<0.5	240	NA	783	3070
	07/30/03	<0.5	<0.7	<0.8	<0.8	53	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/23/04	<0.5	<0.7	<0.8	<0.8	NS	<0.000028	0.0077	0.0435	12.5	<0.00076	<0.0025	13.1	<0.0059	0.0020	553	<0.0100	149	<0.40	247	7.8	788	1550
WMW-5	05/14/03	<0.1	<1.0	<1.0	<2.0	NS	NA	<0.01	<0.2	332	<0.002	<0.005	98	NA	NA	1310	<0.003	598	<0.5	2380	NA	895	5530
	07/30/03	<0.5	<0.7	<0.8	<0.8	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	09/23/04	<0.5	<0.7	<0.8	<0.8	NS	0.000044	<0.0047	0.0117	186	<0.00076	<0.0025	48.8	<0.0059	<0.0020	915	<0.0100	307	<0.40	1330	7.1	788	3410
WMW-6	07/30/03	<0.5	<0.7	<0.8	<0.8	ND	<0.00016	<0.0049	0.224	48.3	<0.00087	0.0074	18.1	<0.0047	<0.0018	334	<0.0093	71.9	<0.40	393	7.9	506	1220
	09/24/04	<0.5	<0.7	<0.8	<0.8	ND	<0.000028	<0.0047	0.0517	34.4	<0.00076	<0.0025	13.2	<0.0059	<0.0020	315	<0.0100	57.5	<0.40	285	7.8	425	1020
WMW-7	09/24/04	<0.5	<0.7	<0.8	<0.8	NS	<0.000028	<0.0047	0.179	35.5	<0.00076	0.0074	15.8	<0.0059	<0.0020	362	<0.0100	63.7	<0.40	309	7.7	526	1200
WMW-8	09/24/04	<0.5	<0.7	<0.8	<0.8	NS	<0.000028	<0.0047	0.213	36.1	<0.00076	<0.0025	17.6	<0.0059	<0.0020	218	<0.0100	27.0	<0.40	130	7.8	440	753
West Pond	09/23/04	<10	<14	<16	<16	NS	<0.000028	0.0362	0.0858	698	<0.00076	0.0051	8830	0.0199	<0.0020	57,900	<0.0100	90,300	<80	29,500	8.5	469	209,000
East Pond	09/23/04	<3	<4	<4	<4	NS	<0.000028	<0.0047	0.0730	1080	<0.00076	0.0029	625	0.0061	<0.0020	12,400	<0.0100	19,600	<0.40	6,690	9.8	148	46,200
NMWQCC Groundwater Standards for Human Health or Domestic Water Supply		10	750	750	620	NE	0.002	0.1	1.0	NE	0.01	0.05	NE	NE	0.05	NE	0.05	250	44*	600		NE	1000

NOTES:
MW Monitoring Well MWS = Shallow MWR = Redrill
SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates
MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions
NMWQCC New Mexico Water Quality Control Commission
NA Not Analyzed
ND Not detected above laboratory detection limits
NE Not established by NMWQCC
NS Not Sampled
* Converted from 10 mg/L to 44 mg/L for Nitrate as NO3

Sample Location	Date Sampled	EPA 405.1 BOD	EPA 410.1 COD	SM 9222D Fecal Coliform	Standard Method 19, 1995, 9223B Total Coliform
MWR-1	07/31/03	9.2 mg/L	32.1 mg/L	ND	NS
	09/24/04	11.0 mg/L	20.6 mg/L	NS	<1.0/100ml
MW-2	05/14/03	<4 mg/L	17.1 mg/L	ND	NS
	09/24/04	<6.0	26.7 mg/L	NS	<1.0/100ml
MW-3	05/14/03	<4 mg/L	ND	ND	NS
	09/24/04	5.2 mg/L	<1.4 mg/L	NS	<1.0/100ml
MWS-1		Dry Wells; Not Sampled			
MWS-2		Dry Wells; Not Sampled			
East Pond	09/23/04	18.9 mg/L	150 mg/L	NS	<200.5/100ml
West Pond	09/23/04	62.5 mg/L	1210 mg/L	NS	<1.0/100ml

APPENDIX A

Boring and Well Completion Logs

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

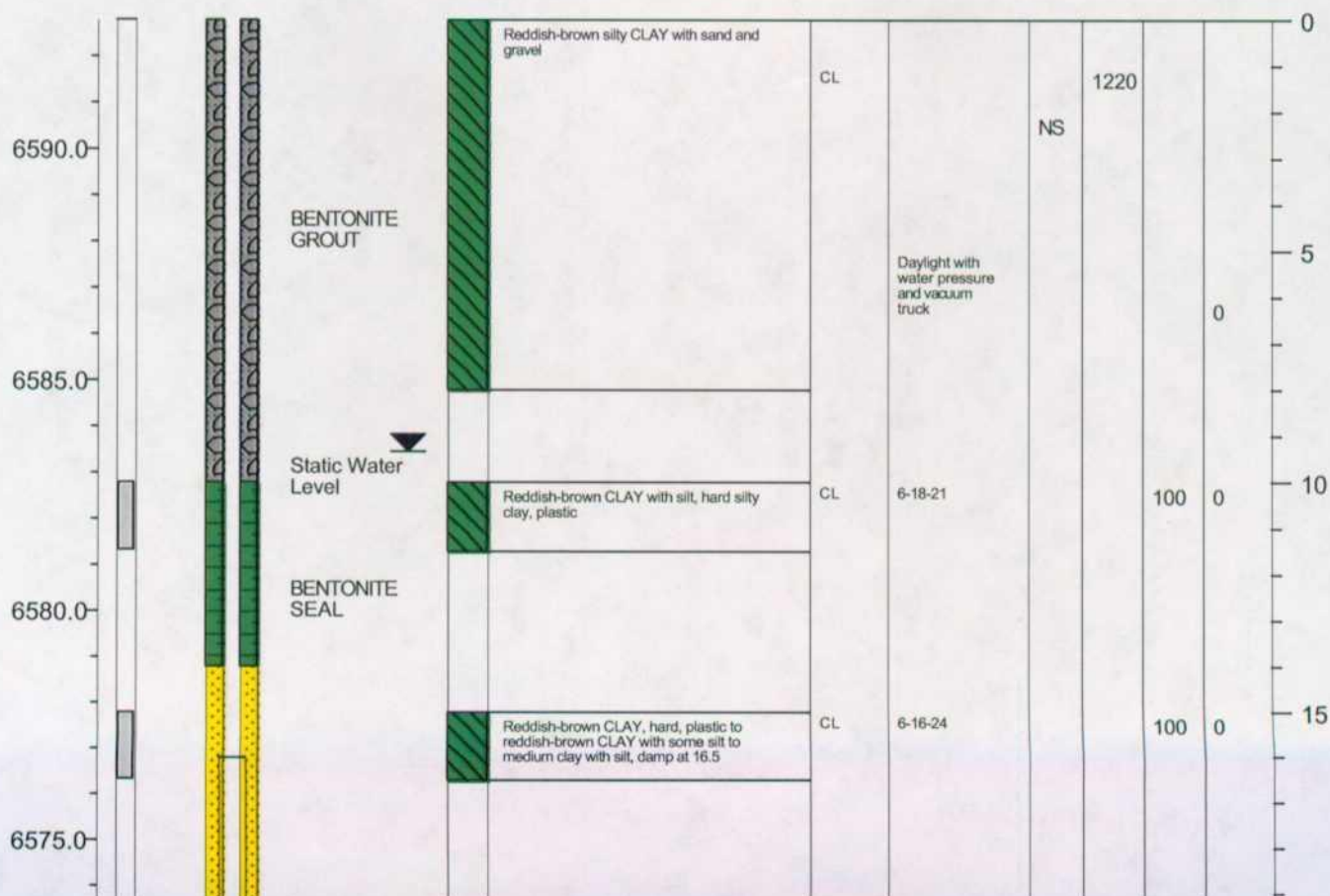
MONITORING WELL NO. WMW-7
 FIELD LOGGED BY: Angela Conlan
 ELEVATION: GROUND SURFACE (msl): Not Recorded (ft)
 GROUNDWATER (below TOC): 9.33 feet bgs (ft)
 DRILL TYPE: Hollow Stem Auger
CME 75
 BORE HOLE DIAMETER: 8.0 (in)

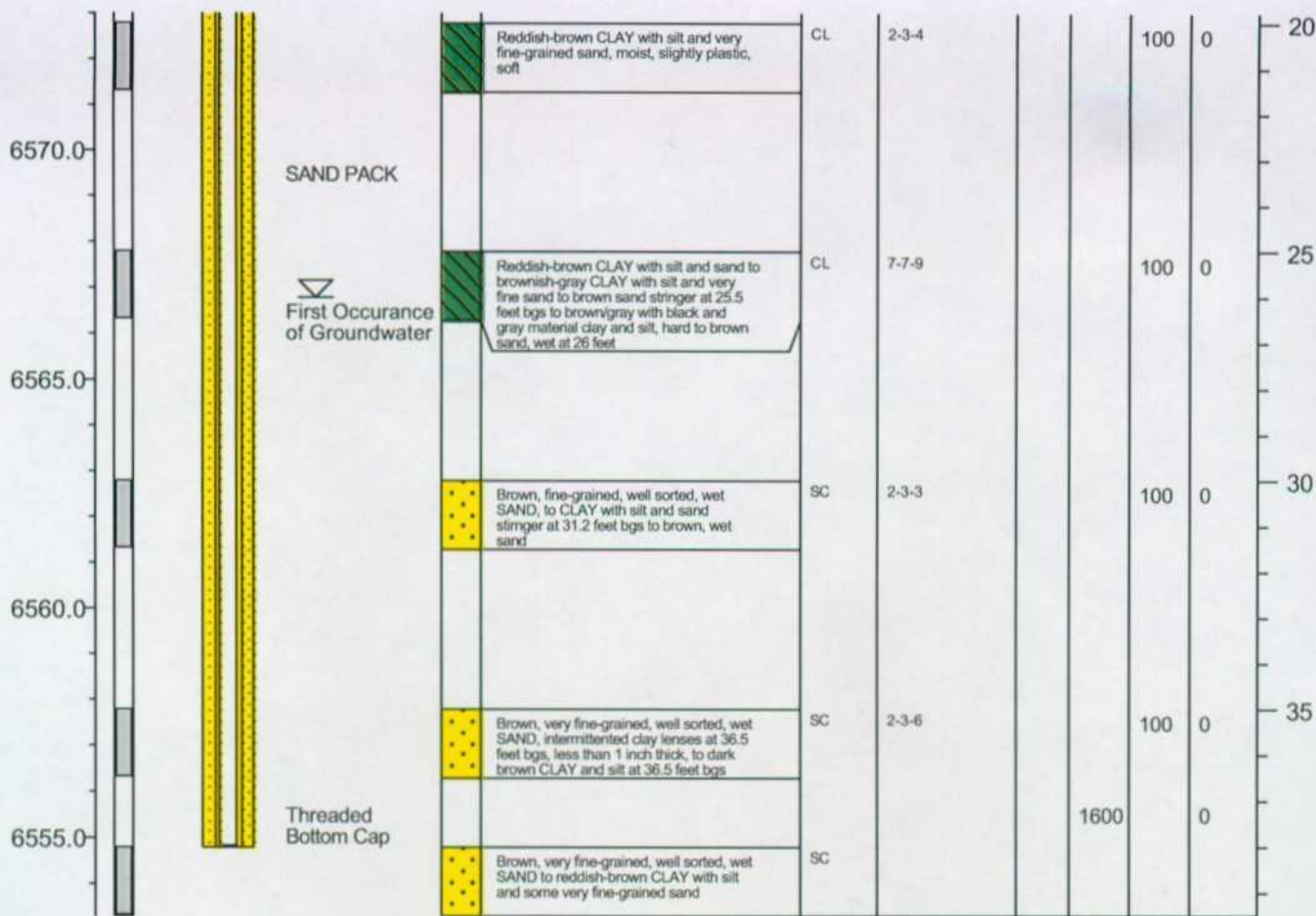
WELL COMPLETION INFORMATION

Measuring Point Description: Top of Casing
 Measuring Point Elevation (feet): 6594.70
 Static Water Level (feet): 9.33
 First Occurance of Groundwater (feet): 26
 Well Development: Water Extraction Until Visibly Free of Sediment
 Well Cap: Locking Metal Above Ground Well Protector

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

ELEVATION (msl) - ft	SAMPLE INTERVAL/ID #	COMPLETION DIAGRAM	CLASSIFICATION AND DESCRIPTION	USCS SYMBOL	BLOW COUNT	ANALYTICAL	TIME	% RECOVERY	PID RESULT (ppm)	DEPTH (bgs) - ft
-------------------------	-------------------------	-----------------------	-----------------------------------	-------------	------------	------------	------	------------	------------------	---------------------





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

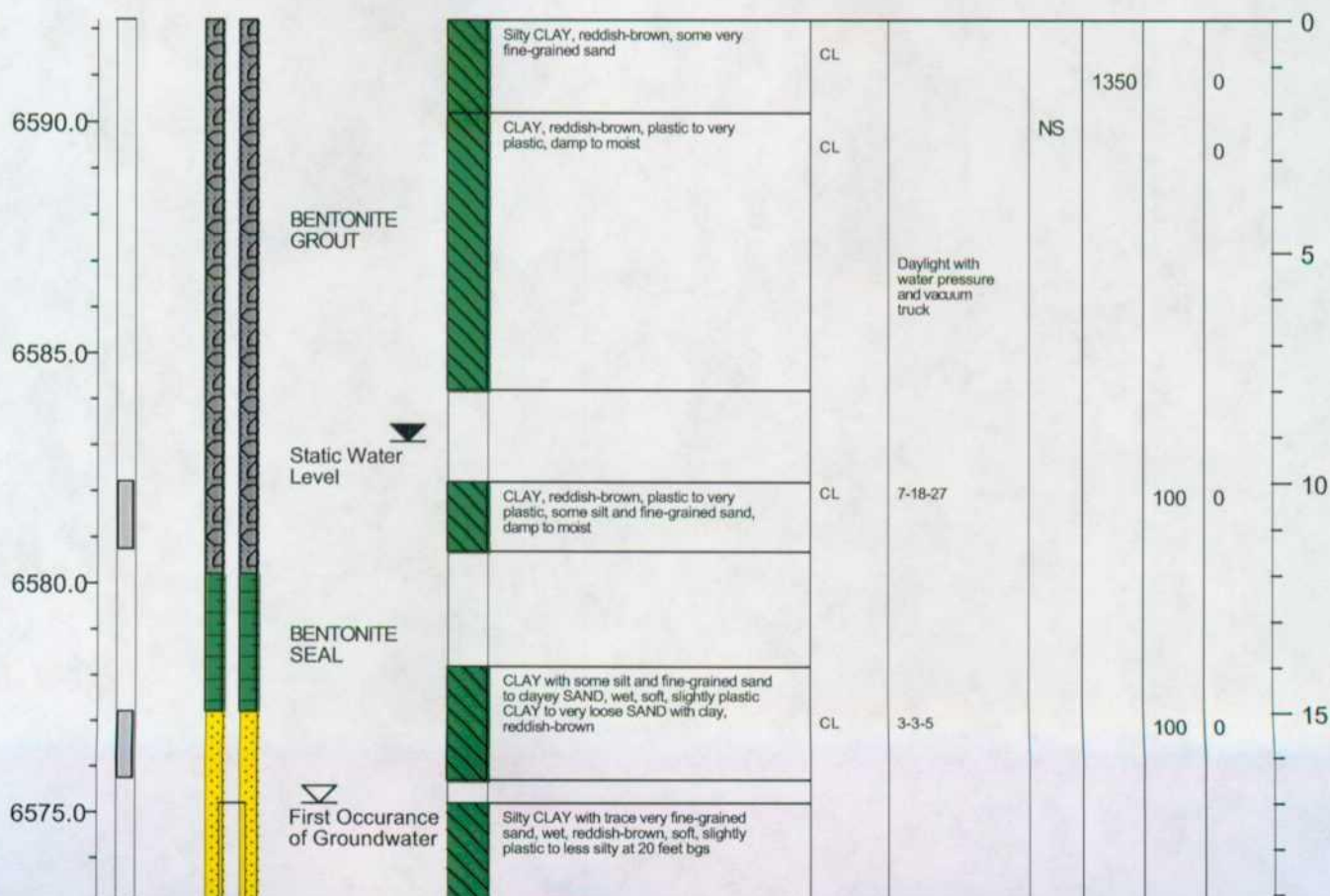
MONITORING WELL NO. WMW-8
 FIELD LOGGED BY: Angela Conlan
 ELEVATION: GROUND SURFACE (msl): Not Recorded (ft)
 GROUNDWATER (below TOC): 9.11 feet bgs (ft)
 DRILL TYPE: Hollow Stem Auger
CME 75
 BORE HOLE DIAMETER: 8.0 (in)

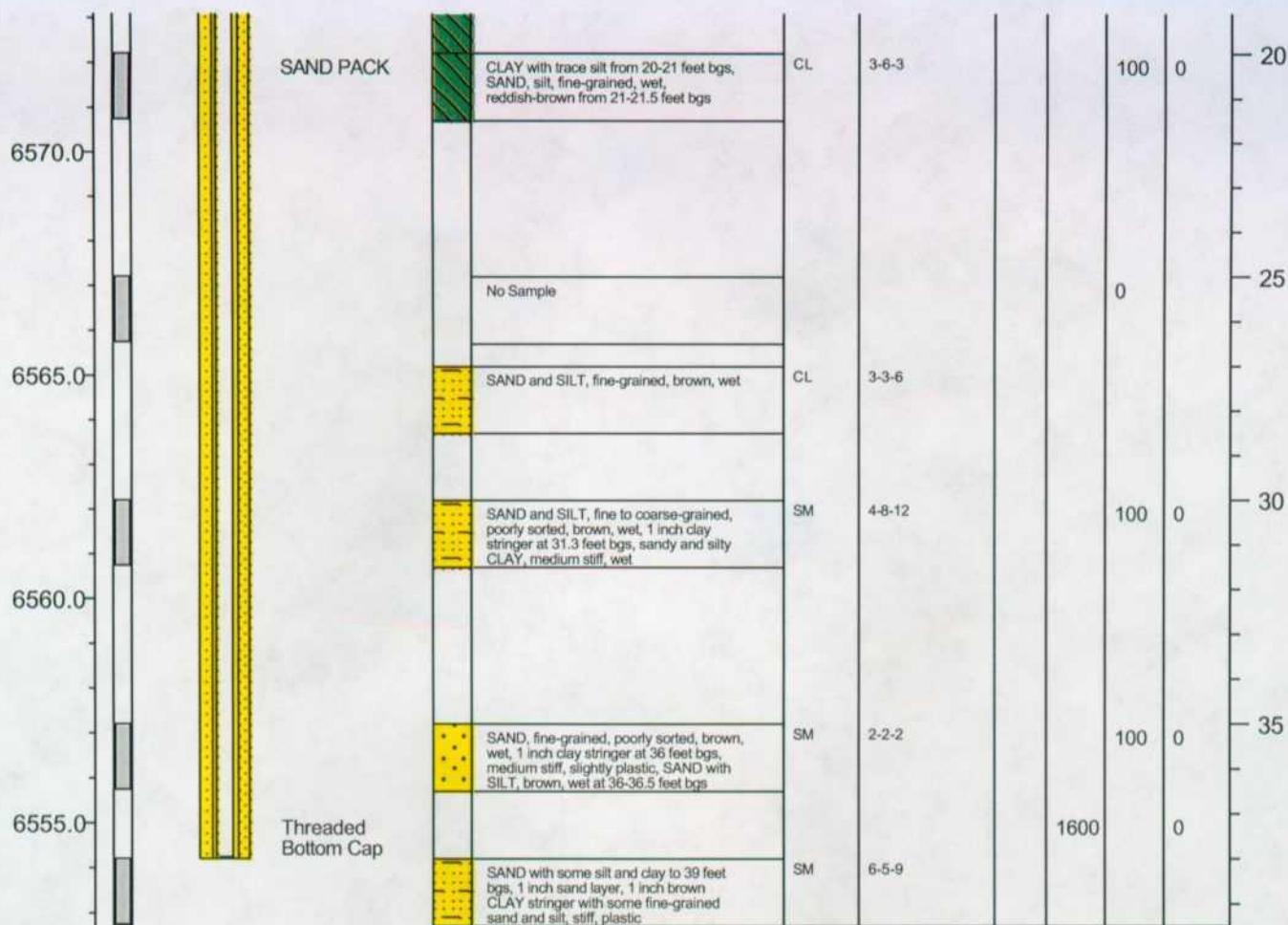
WELL COMPLETION INFORMATION

Measuring Point Description: Top of Casing
 Measuring Point Elevation (feet): 6594.05
 Static Water Level (feet): 9.11
 First Occurance of Groundwater (feet): 17
 Well Development: Water Extraction Until Visibly Free of Sediment
 Well Cap: Locking Metal Above Ground Well Protector

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

ELEVATION (msl) - ft	SAMPLE INTERVAL/ID #	COMPLETION DIAGRAM	CLASSIFICATION AND DESCRIPTION	USCS SYMBOL	BLOW COUNT	ANALYTICAL	TIME	% RECOVERY	PID RESULT (ppm)	DEPTH (bgs) - ft
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Boring Terminated at 38' bgs

Split Spoon Sample

4690019



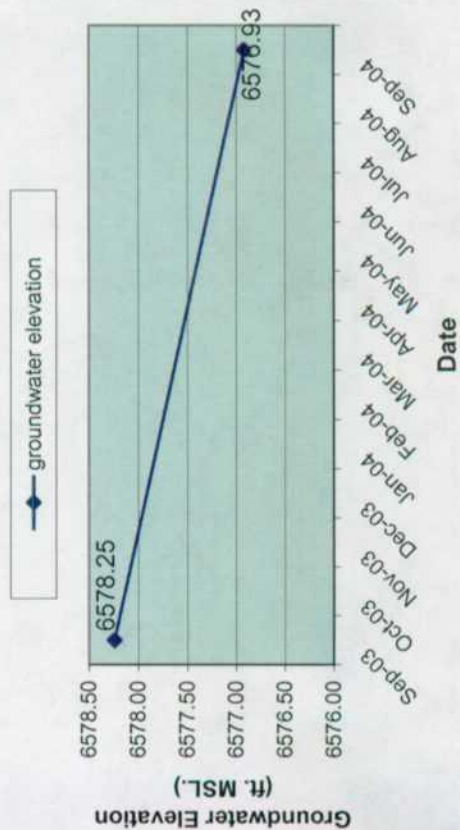
EXPLORATORY BORING LOG WMW-8

APPENDIX B

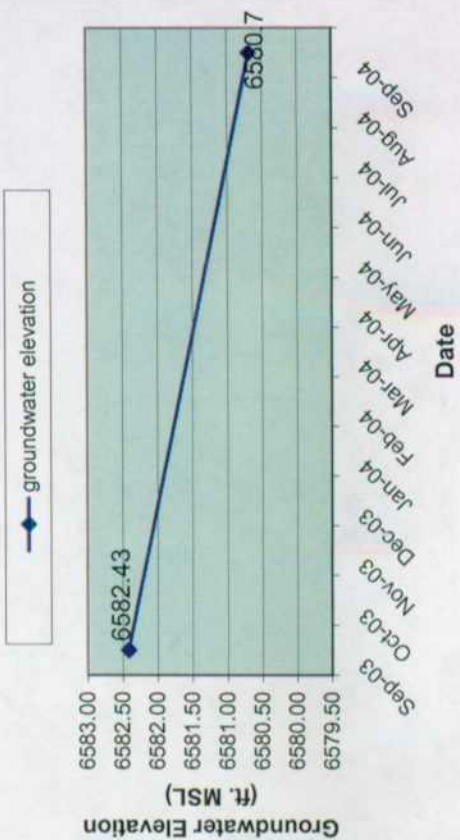
Time versus COC Concentration and Groundwater Elevation Graphs

Wingate Fractionating Plant Time Versus Groundwater Elevation Graphs

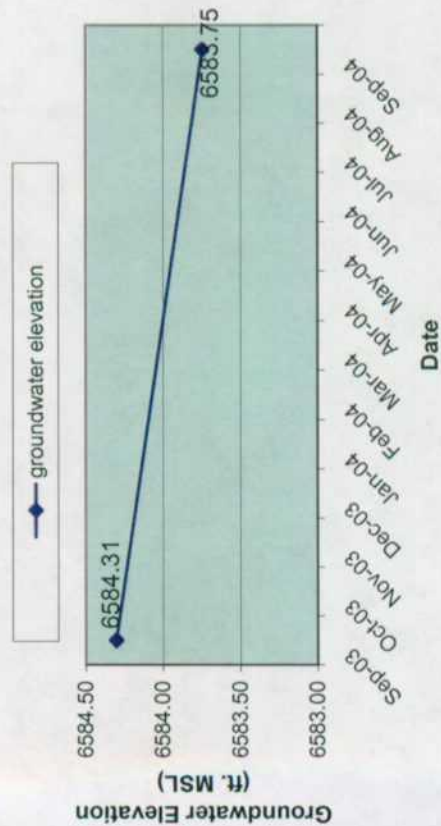
WMR-1 Groundwater Elevation Graph



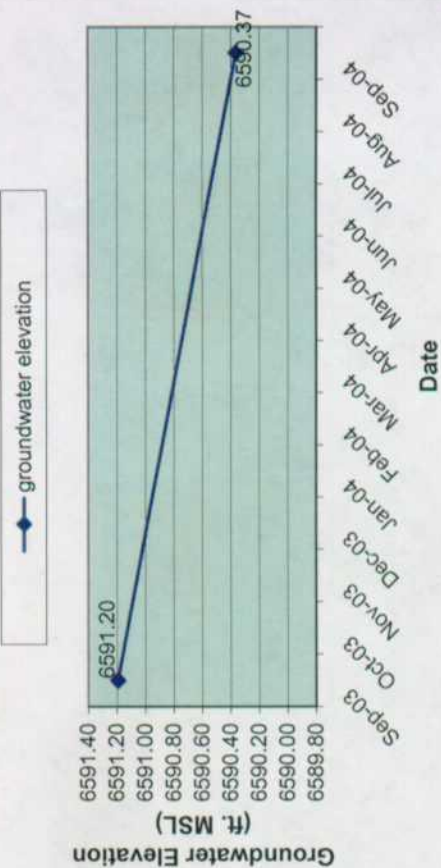
MW-2 Groundwater Elevation Graph



MW-3 Groundwater Elevation Graph

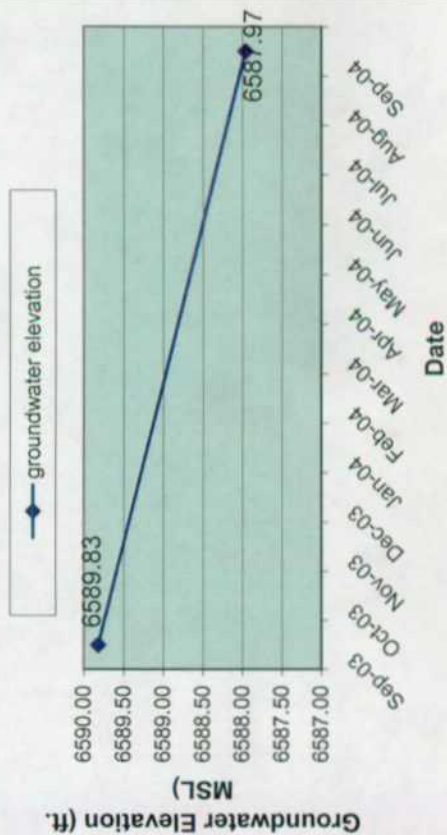


WMW-1 Groundwater Elevation Graph

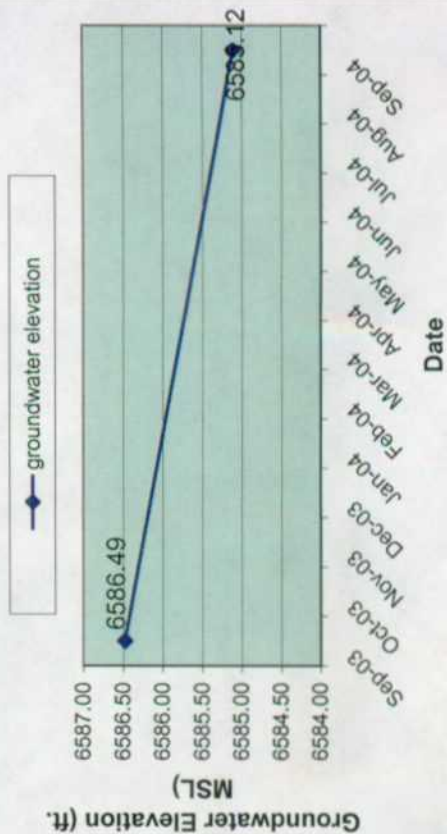


Wingate Fractionating Plant Time Versus Groundwater Elevation Graphs

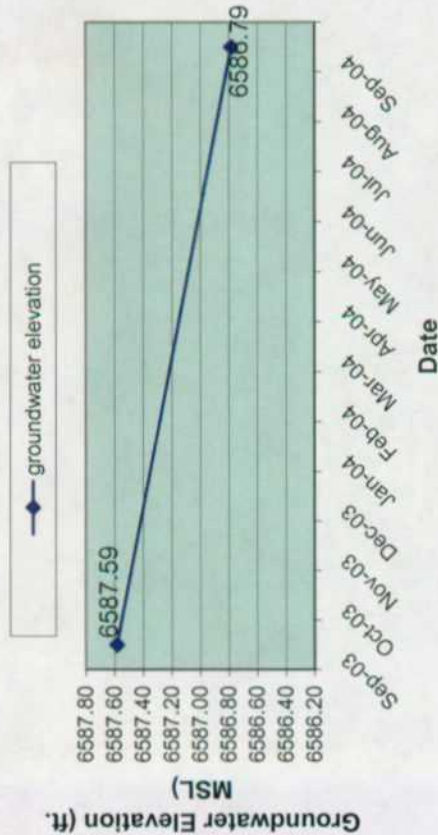
WMW-2 Groundwater Elevation Graph



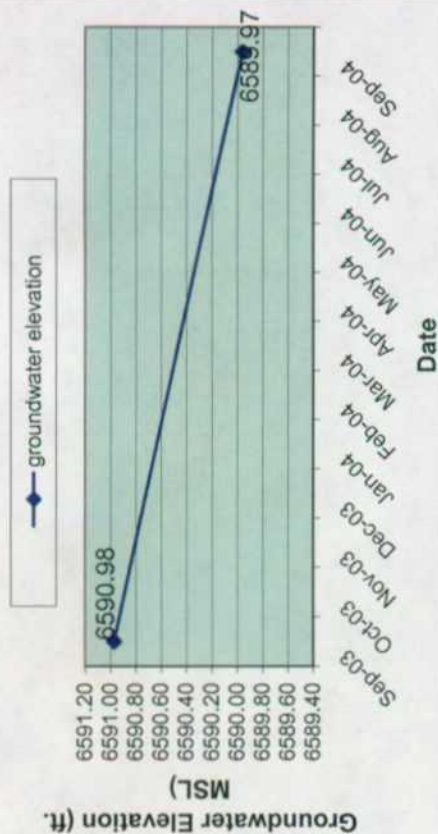
WMW-3 Groundwater Elevation Graph



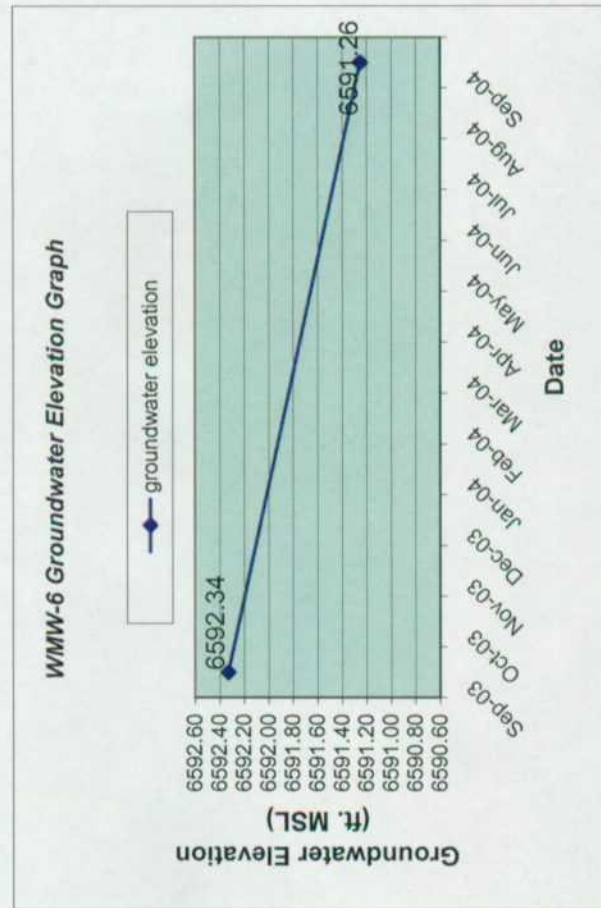
WMW-4 Groundwater Elevation Graph



WMW-5 Groundwater Elevation Graph

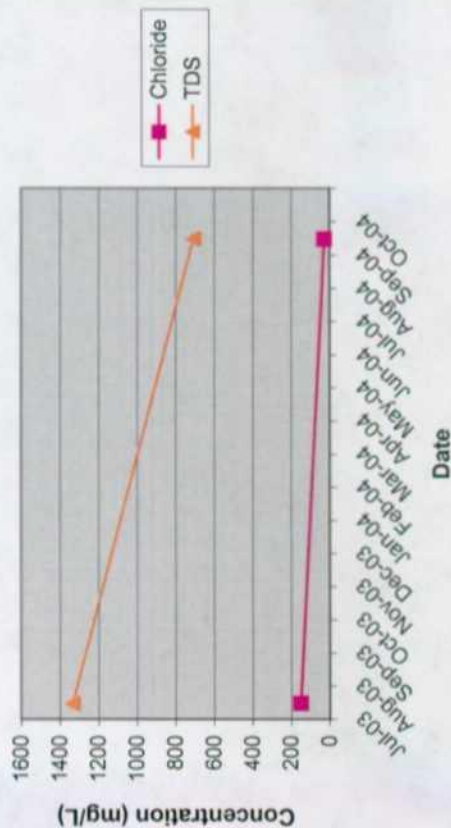


Wingate Fractionating Plant Time Versus Groundwater Elevation Graphs

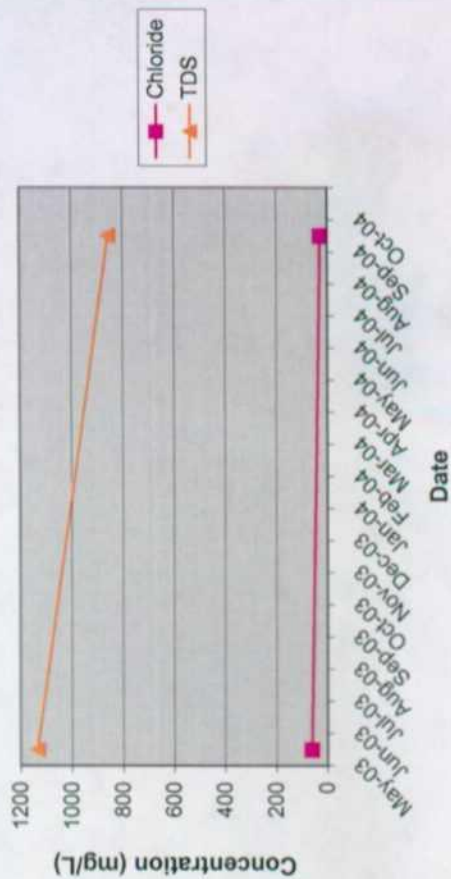


Wingate Fractionating Plant Time Versus COC Concentration Graphs

MWR-1



MW-2



MW-3

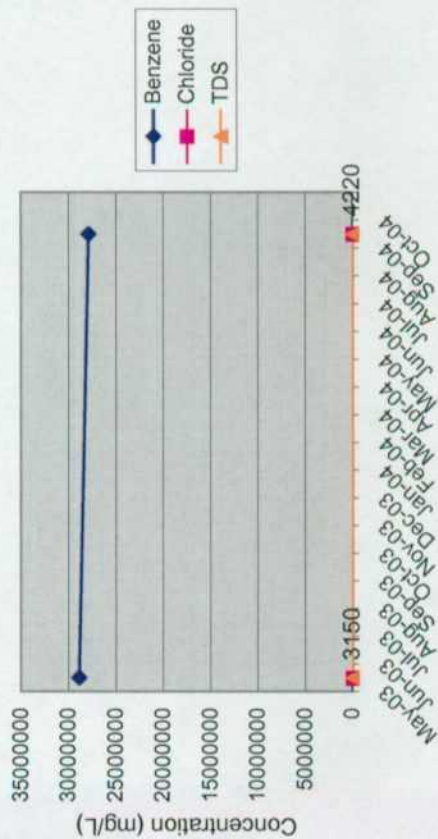


WMW-1



Wingate Fractionating Plant Time Versus COC Concentration Graphs

WMW-2



WMW-3



WMW-4

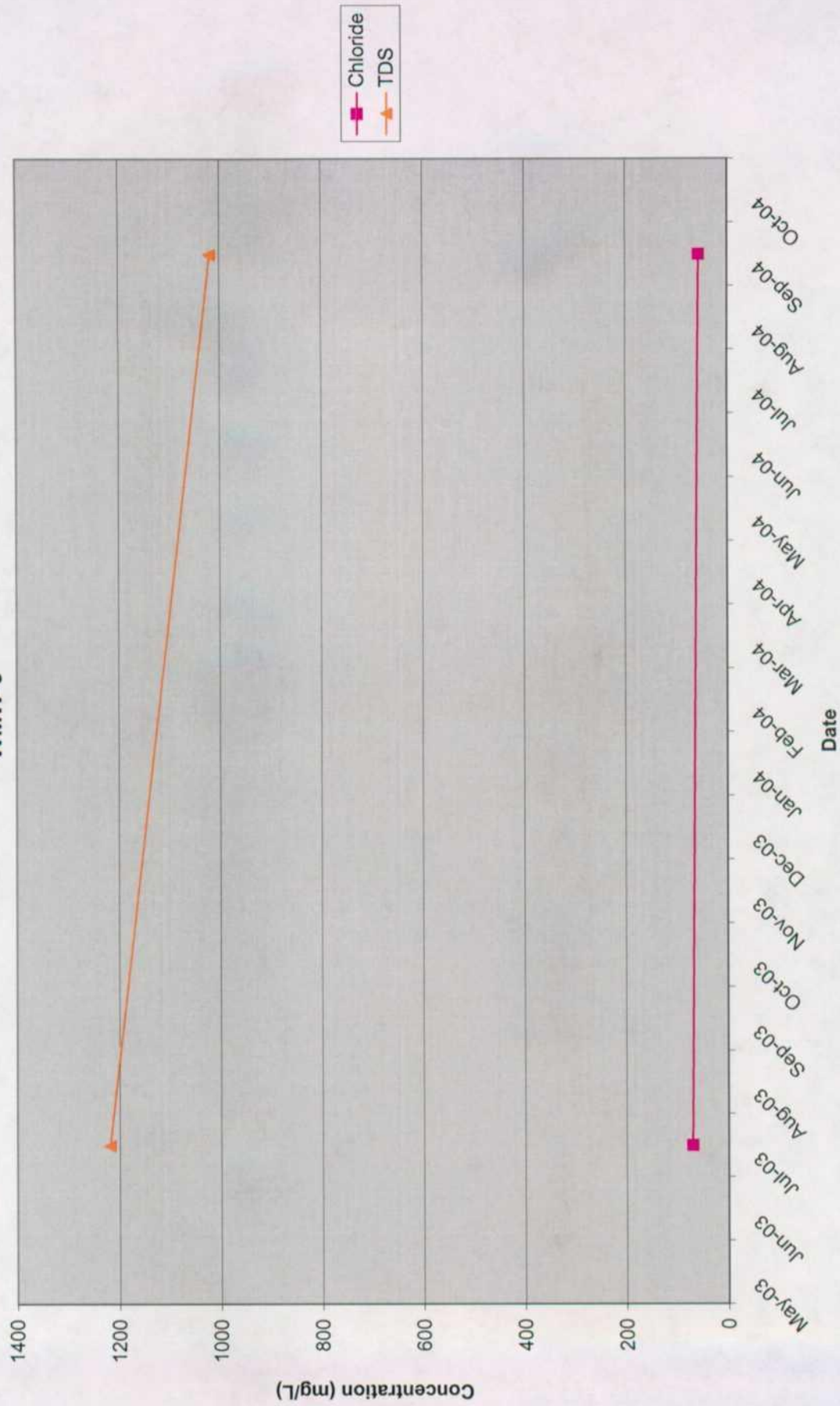


WMW-5



Wingate Fractionating Plant Time Versus COC Concentration Graphs

WMW-6



APPENDIX C

Laboratory Analytical Reports and Chain-of-Custody



Analysis Report

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

ANALYTICAL RESULTS

Prepared for:

ConocoPhillips
P.O. Box 2197
Houston TX 77252

832-379-6415

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 913661. Samples arrived at the laboratory on Saturday, September 25, 2004. The PO# for this group is 6051MAX001 and the release number is NEAL GOATES.

<u>Client Description</u>	<u>Lancaster Labs Number</u>
WMW-1 Water Sample	4361311
WMW-6 Water Sample	4361312
MW-2 Water Sample	4361313
MWR-1 Water Sample	4361314
MW-3 Water Sample	4361315
WMW-8 Water Sample	4361316
WMW-3 Water Sample	4361317
WMW-7 Water Sample	4361318
WMW-2 Water Sample	4361319
Trip Blank Water Sample	4361320

ELECTRONIC Maxim Technologies
COPY TO
1 COPY TO Maxim Technologies

Attn: Kelly Henderson

Attn: Robert Sengebush



Analysis Report

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Questions? Contact your Client Services Representative
Barbara A Weyandt at (717) 656-2300.

Respectfully Submitted,

A handwritten signature in cursive script that reads "Michele A. Jarosick".

Michele A. Jarosick
Senior Chemist, Coordinator



Analysis Report

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Page 1 of 4

Lancaster Laboratories Sample No. WW 4361311

WMW-1 Water Sample

Site# 6051

Wingate Fractionation Plant-Gallup, NM

Collected: 09/24/2004 11:15 by KH

Account Number: 11288

Submitted: 09/25/2004 09:30

Reported: 10/27/2004 at 08:01

Discard: 11/27/2004

ConocoPhillips

P.O. Box 2197

Houston TX 77252

WMW-1

CAT No.	Analysis Name	CAS Number	As Received Result	As Received	As Received	Units	Dilution Factor
				Method Detection Limit*	Limit of Quantitation		
00259	Mercury	7439-97-6	N.D.	0.000028	0.00020	mg/l	1
01750	Calcium	7440-70-2	236.	0.0479	0.200	mg/l	1
01757	Magnesium	7439-95-4	63.8	0.0193	0.100	mg/l	1
01767	Sodium	7440-23-5	1,370.	46.2	100.	mg/l	100
07035	Arsenic	7440-38-2	N.D.	0.0047	0.0100	mg/l	1
07036	Selenium	7782-49-2	N.D.	0.0059	0.0100	mg/l	1
07046	Barium	7440-39-3	0.0256	0.00045	0.0050	mg/l	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	mg/l	1
07051	Chromium	7440-47-3	N.D.	0.0025	0.0050	mg/l	1
07055	Lead	7439-92-1	N.D.	0.0100	0.0200	mg/l	1
07066	Silver	7440-22-4	N.D.	0.0020	0.0050	mg/l	1
00200	pH	n.a.	7.8	0.010	0.010	Std.	1
00201	Alkalinity to pH 8.3	n.a.	N.D.	0.41	2.0	Units mg/l as CaCO ₃	1
00202	Alkalinity to pH 4.5	n.a.	1,030.	0.41	2.0	mg/l as CaCO ₃	1
00212	Total Dissolved Solids	n.a.	5,150.	194.	600.	mg/l	1
00224	Chloride	16887-00-6	627.	60.0	80.0	mg/l	200
00228	Sulfate	14808-79-8	1,880.	60.0	200.	mg/l	200
00368	Nitrate Nitrogen	14797-55-8	N.D.	0.40	0.50	mg/l	5
04678	TCL SW846 Semivolatiles/Waters						
03871	4-Chloroaniline	106-47-8	N.D.	1.	10.	ug/l	1
03905	2-Methylnaphthalene	91-57-6	N.D.	1.	10.	ug/l	1
03907	2-Nitroaniline	88-74-4	N.D.	1.	10.	ug/l	1
03922	2,4,5-Trichlorophenol	95-95-4	N.D.	1.	10.	ug/l	1
03924	2-Chlorophenol	95-57-8	N.D.	1.	10.	ug/l	1
03925	Phenol	108-95-2	N.D.	1.	10.	ug/l	1
03926	2-Nitrophenol	88-75-5	N.D.	1.	10.	ug/l	1
03927	2,4-Dimethylphenol	105-67-9	N.D.	1.	10.	ug/l	1
03928	2,4-Dichlorophenol	120-83-2	N.D.	1.	10.	ug/l	1
03929	4-Chloro-3-methylphenol	59-50-7	N.D.	1.	10.	ug/l	1
03930	2,4,6-Trichlorophenol	88-06-2	N.D.	1.	10.	ug/l	1
03936	bis(2-Chloroethyl) ether	111-44-4	N.D.	1.	10.	ug/l	1
03937	1,3-Dichlorobenzene	541-73-1	N.D.	1.	10.	ug/l	1
03938	1,4-Dichlorobenzene	106-46-7	N.D.	1.	10.	ug/l	1
03939	1,2-Dichlorobenzene	95-50-1	N.D.	1.	10.	ug/l	1

*=This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. WW 4361311

WMW-1 Water Sample

Site# 6051

Wingate Fractionation Plant-Gallup, NM

Collected: 09/24/2004 11:15 by KH

Account Number: 11288

Submitted: 09/25/2004 09:30

Reported: 10/27/2004 at 08:01

Discard: 11/27/2004

ConocoPhillips

P.O. Box 2197

Houston TX 77252

WMW-1

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
03941	Hexachloroethane	67-72-1	N.D.	1.	10.	ug/l	1
03942	N-Nitroso-di-n-propylamine	621-64-7	N.D.	1.	10.	ug/l	1
03943	Nitrobenzene	98-95-3	N.D.	1.	10.	ug/l	1
03944	Isophorone	78-59-1	N.D.	1.	10.	ug/l	1
03945	bis(2-Chloroethoxy)methane	111-91-1	N.D.	1.	10.	ug/l	1
03946	1,2,4-Trichlorobenzene	120-82-1	N.D.	1.	10.	ug/l	1
03947	Naphthalene	91-20-3	N.D.	1.	10.	ug/l	1
03948	Hexachlorobutadiene	87-68-3	N.D.	1.	10.	ug/l	1
03949	Hexachlorocyclopentadiene	77-47-4	N.D.	5.	25.	ug/l	1
03950	2-Chloronaphthalene	91-58-7	N.D.	1.	10.	ug/l	1
03951	Acenaphthylene	208-96-8	N.D.	1.	10.	ug/l	1
03952	Dimethylphthalate	131-11-3	N.D.	2.	10.	ug/l	1
04680	2-Methylphenol	95-48-7	N.D.	1.	10.	ug/l	1
04681	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	1.	10.	ug/l	1
04682	4-Methylphenol	106-44-5	N.D.	2.	10.	ug/l	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04679	TCL SW846 Semivolatiles/Waters						
03879	Dibenzofuran	132-64-9	N.D.	1.	10.	ug/l	1
03908	3-Nitroaniline	99-09-2	N.D.	1.	10.	ug/l	1
03909	4-Nitroaniline	100-01-6	N.D.	1.	10.	ug/l	1
03931	2,4-Dinitrophenol	51-28-5	N.D.	20.	61.	ug/l	1
03932	4-Nitrophenol	100-02-7	N.D.	10.	51.	ug/l	1
03933	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5.	25.	ug/l	1
03934	Pentachlorophenol	87-86-5	N.D.	3.	25.	ug/l	1
03953	2,6-Dinitrotoluene	606-20-2	N.D.	1.	10.	ug/l	1
03954	Acenaphthene	83-32-9	N.D.	1.	10.	ug/l	1
03955	2,4-Dinitrotoluene	121-14-2	N.D.	1.	10.	ug/l	1
03956	Fluorene	86-73-7	N.D.	1.	10.	ug/l	1
03957	4-Chlorophenyl-phenylether	7005-72-3	N.D.	1.	10.	ug/l	1
03958	Diethylphthalate	84-66-2	N.D.	2.	10.	ug/l	1
03960	N-Nitrosodiphenylamine	86-30-6	N.D.	2.	10.	ug/l	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
03961	4-Bromophenyl-phenylether	101-55-3	N.D.	1.	10.	ug/l	1
03962	Hexachlorobenzene	118-74-1	N.D.	1.	10.	ug/l	1
03963	Phenanthrene	85-01-8	N.D.	1.	10.	ug/l	1
03964	Anthracene	120-12-7	N.D.	1.	10.	ug/l	1

*=This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. WW 4361311

WMW-1 Water Sample

Site# 6051

Wingate Fractionation Plant-Gallup, NM

Collected: 09/24/2004 11:15 by KH

Account Number: 11288

Submitted: 09/25/2004 09:30

Reported: 10/27/2004 at 08:01

Discard: 11/27/2004

ConocoPhillips

P.O. Box 2197

Houston TX 77252

WMW-1

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
03965	Di-n-butylphthalate	84-74-2	N.D.	2.	10.	ug/l	1
03966	Fluoranthene	206-44-0	N.D.	1.	10.	ug/l	1
03967	Pyrene	129-00-0	N.D.	1.	10.	ug/l	1
03969	Butylbenzylphthalate	85-68-7	N.D.	2.	10.	ug/l	1
03970	Benzo(a)anthracene	56-55-3	N.D.	1.	10.	ug/l	1
03971	Chrysene	218-01-9	N.D.	1.	10.	ug/l	1
03972	3,3'-Dichlorobenzidine	91-94-1	N.D.	1.	10.	ug/l	1
03973	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2.	10.	ug/l	1
03974	Di-n-octylphthalate	117-84-0	N.D.	2.	10.	ug/l	1
03975	Benzo(b)fluoranthene	205-99-2	N.D.	1.	10.	ug/l	1
03976	Benzo(k)fluoranthene	207-08-9	N.D.	1.	10.	ug/l	1
03977	Benzo(a)pyrene	50-32-8	N.D.	1.	10.	ug/l	1
03978	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	1.	10.	ug/l	1
03979	Dibenz(a,h)anthracene	53-70-3	N.D.	1.	10.	ug/l	1
03980	Benzo(g,h,i)perylene	191-24-2	N.D.	1.	10.	ug/l	1
04684	Carbazole	86-74-8	N.D.	1.	10.	ug/l	1
02300	UST-Unleaded Waters by 8260B						
05401	Benzene	71-43-2	N.D.	0.5	5.	ug/l	1
05407	Toluene	108-88-3	N.D.	0.7	5.	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.8	5.	ug/l	1
05310	Xylene (Total)	1330-20-7	N.D.	0.8	5.	ug/l	1

Trip blank vials were not received by the laboratory for this sample group.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00259	Mercury	SW-846 7470A	1	09/29/2004 13:02	Damary Valentin	1
01750	Calcium	SW-846 6010B	1	10/16/2004 08:07	Damary Valentin	1
01757	Magnesium	SW-846 6010B	1	10/16/2004 08:07	Damary Valentin	1
01767	Sodium	SW-846 6010B	1	10/27/2004 00:04	Donna R Sackett	100
07035	Arsenic	SW-846 6010B	1	10/18/2004 20:33	John P Hook	1
07036	Selenium	SW-846 6010B	1	10/18/2004 20:33	John P Hook	1
07046	Barium	SW-846 6010B	1	10/16/2004 08:07	Damary Valentin	1
07049	Cadmium	SW-846 6010B	1	10/16/2004 08:07	Damary Valentin	1
07051	Chromium	SW-846 6010B	1	10/16/2004 08:07	Damary Valentin	1
07055	Lead	SW-846 6010B	1	10/16/2004 08:07	Damary Valentin	1

*=This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. WW 4361311

WMW-1 Water Sample

Site# 6051

Wingate Fractionation Plant-Gallup, NM

Collected: 09/24/2004 11:15 by KH

Account Number: 11288

Submitted: 09/25/2004 09:30

Reported: 10/27/2004 at 08:01

Discard: 11/27/2004

ConocoPhillips

P.O. Box 2197

Houston TX 77252

WMW-1							
07066	Silver	SW-846 6010B	1	10/16/2004 08:07	Damary Valentin	1	
00200	pH	EPA 150.1	1	09/25/2004 23:05	Nicole R Rohrer	1	
00201	Alkalinity to pH 8.3	EPA 310.1	1	09/29/2004 06:36	Susan A Engle	1	
00202	Alkalinity to pH 4.5	EPA 310.1	1	09/29/2004 06:36	Susan A Engle	1	
00212	Total Dissolved Solids	EPA 160.1	1	09/28/2004 14:18	Anne L Kuenzli	1	
00224	Chloride	EPA 300.0	1	09/28/2004 13:52	Shannon L Phillips	200	
00228	Sulfate	EPA 300.0	1	09/28/2004 13:52	Shannon L Phillips	200	
00368	Nitrate Nitrogen	EPA 300.0	1	09/25/2004 11:41	Kyle W Eckenroad	5	
04678	TCL SW846	SW-846 8270C	1	09/29/2004 17:37	Timothy J Trees	1	
	Semivolatiles/Waters						
04679	TCL SW846	SW-846 8270C	1	09/29/2004 17:37	Timothy J Trees	1	
	Semivolatiles/Waters						
02300	UST-Unleaded Waters by 8260B	SW-846 8260B	1	10/05/2004 04:44	Lauren C Marzario	1	
00813	BNA Water Extraction	SW-846 3510C	1	09/29/2004 07:15	Danette S Blystone	1	
01163	GC/MS VOA Water Prep	SW-846 5030B	1	10/05/2004 04:44	Lauren C Marzario	n.a.	
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	09/29/2004 08:00	Suzette L Lehman	1	
05713	WW SW846 Hg Digest	SW-846 7470A	1	09/29/2004 04:30	Deborah A Krady	1	

*=This limit was used in the evaluation of the final result



Analysis Report

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Page 1 of 4

Lancaster Laboratories Sample No. WW 4361312

WMW-6 Water Sample

Site# 6051

Wingate Fractionation Plant-Gallup, NM

Collected: 09/24/2004 10:05 by KH

Account Number: 11288

Submitted: 09/25/2004 09:30

Reported: 10/27/2004 at 08:02

Discard: 11/27/2004

ConocoPhillips

P.O. Box 2197

Houston TX 77252

WMW-6

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
00259	Mercury	7439-97-6	N.D.	0.000028	0.00020	mg/l	1
01750	Calcium	7440-70-2	34.4	0.0479	0.200	mg/l	1
01757	Magnesium	7439-95-4	13.2	0.0193	0.100	mg/l	1
01767	Sodium	7440-23-5	315.	4.62	10.0	mg/l	10
07035	Arsenic	7440-38-2	N.D.	0.0047	0.0100	mg/l	1
07036	Selenium	7782-49-2	N.D.	0.0059	0.0100	mg/l	1
07046	Barium	7440-39-3	0.0517	0.00045	0.0050	mg/l	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	mg/l	1
07051	Chromium	7440-47-3	N.D.	0.0025	0.0050	mg/l	1
07055	Lead	7439-92-1	N.D.	0.0100	0.0200	mg/l	1
07066	Silver	7440-22-4	N.D.	0.0020	0.0050	mg/l	1
00200	pH	n.a.	7.8	0.010	0.010	Std. Units	1
00201	Alkalinity to pH 8.3	n.a.	N.D.	0.41	2.0	mg/l as CaCO ₃	1
00202	Alkalinity to pH 4.5	n.a.	425.	0.41	2.0	mg/l as CaCO ₃	1
00212	Total Dissolved Solids	n.a.	1,020.	38.8	120.	mg/l	1
00224	Chloride	16887-00-6	57.5	7.5	10.0	mg/l	25
00228	Sulfate	14808-79-8	285.	7.5	25.0	mg/l	25
00368	Nitrate Nitrogen	14797-55-8	N.D.	0.40	0.50	mg/l	5
04678	TCL SW846 Semivolatiles/Waters						
03871	4-Chloroaniline	106-47-8	N.D.	1.	10.	ug/l	1
03905	2-Methylnaphthalene	91-57-6	N.D.	1.	10.	ug/l	1
03907	2-Nitroaniline	88-74-4	N.D.	1.	10.	ug/l	1
03922	2,4,5-Trichlorophenol	95-95-4	N.D.	1.	10.	ug/l	1
03924	2-Chlorophenol	95-57-8	N.D.	1.	10.	ug/l	1
03925	Phenol	108-95-2	N.D.	1.	10.	ug/l	1
03926	2-Nitrophenol	88-75-5	N.D.	1.	10.	ug/l	1
03927	2,4-Dimethylphenol	105-67-9	N.D.	1.	10.	ug/l	1
03928	2,4-Dichlorophenol	120-83-2	N.D.	1.	10.	ug/l	1
03929	4-Chloro-3-methylphenol	59-50-7	N.D.	1.	10.	ug/l	1
03930	2,4,6-Trichlorophenol	88-06-2	N.D.	1.	10.	ug/l	1
03936	bis(2-Chloroethyl) ether	111-44-4	N.D.	1.	10.	ug/l	1
03937	1,3-Dichlorobenzene	541-73-1	N.D.	1.	10.	ug/l	1
03938	1,4-Dichlorobenzene	106-46-7	N.D.	1.	10.	ug/l	1
03939	1,2-Dichlorobenzene	95-50-1	N.D.	1.	10.	ug/l	1

*=This limit was used in the evaluation of the final result



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Lancaster Laboratories Sample No. WW 4361312

WMW-6 Water Sample

Site# 6051

Wingate Fractionation Plant-Gallup, NM

Collected: 09/24/2004 10:05 by KH

Account Number: 11288

Submitted: 09/25/2004 09:30

Reported: 10/27/2004 at 08:02

Discard: 11/27/2004

ConocoPhillips

P.O. Box 2197

Houston TX 77252

WMW-6

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
03941	Hexachloroethane	67-72-1	N.D.	1.	10.	ug/l	1
03942	N-Nitroso-di-n-propylamine	621-64-7	N.D.	1.	10.	ug/l	1
03943	Nitrobenzene	98-95-3	N.D.	1.	10.	ug/l	1
03944	Isophorone	78-59-1	N.D.	1.	10.	ug/l	1
03945	bis(2-Chloroethoxy)methane	111-91-1	N.D.	1.	10.	ug/l	1
03946	1,2,4-Trichlorobenzene	120-82-1	N.D.	1.	10.	ug/l	1
03947	Naphthalene	91-20-3	N.D.	1.	10.	ug/l	1
03948	Hexachlorobutadiene	87-68-3	N.D.	1.	10.	ug/l	1
03949	Hexachlorocyclopentadiene	77-47-4	N.D.	5.	24.	ug/l	1
03950	2-Chloronaphthalene	91-58-7	N.D.	1.	10.	ug/l	1
03951	Acenaphthylene	208-96-8	N.D.	1.	10.	ug/l	1
03952	Dimethylphthalate	131-11-3	N.D.	2.	10.	ug/l	1
04680	2-Methylphenol	95-48-7	N.D.	1.	10.	ug/l	1
04681	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	1.	10.	ug/l	1
04682	4-Methylphenol	106-44-5	N.D.	2.	10.	ug/l	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04679	TCL SW846 Semivolatiles/Waters						
03879	Dibenzofuran	132-64-9	N.D.	1.	10.	ug/l	1
03908	3-Nitroaniline	99-09-2	N.D.	1.	10.	ug/l	1
03909	4-Nitroaniline	100-01-6	N.D.	1.	10.	ug/l	1
03931	2,4-Dinitrophenol	51-28-5	N.D.	19.	58.	ug/l	1
03932	4-Nitrophenol	100-02-7	N.D.	10.	49.	ug/l	1
03933	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5.	24.	ug/l	1
03934	Pentachlorophenol	87-86-5	N.D.	3.	24.	ug/l	1
03953	2,6-Dinitrotoluene	606-20-2	N.D.	1.	10.	ug/l	1
03954	Acenaphthene	83-32-9	N.D.	1.	10.	ug/l	1
03955	2,4-Dinitrotoluene	121-14-2	N.D.	1.	10.	ug/l	1
03956	Fluorene	86-73-7	N.D.	1.	10.	ug/l	1
03957	4-Chlorophenyl-phenylether	7005-72-3	N.D.	1.	10.	ug/l	1
03958	Diethylphthalate	84-66-2	N.D.	2.	10.	ug/l	1
03960	N-Nitrosodiphenylamine	86-30-6	N.D.	2.	10.	ug/l	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
03961	4-Bromophenyl-phenylether	101-55-3	N.D.	1.	10.	ug/l	1
03962	Hexachlorobenzene	118-74-1	N.D.	1.	10.	ug/l	1
03963	Phenanthrene	85-01-8	N.D.	1.	10.	ug/l	1
03964	Anthracene	120-12-7	N.D.	1.	10.	ug/l	1

*=This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. WW 4361312

WMW-6 Water Sample

Site# 6051

Wingate Fractionation Plant-Gallup, NM

Collected: 09/24/2004 10:05

by KH

Account Number: 11288

Submitted: 09/25/2004 09:30

Reported: 10/27/2004 at 08:02

Discard: 11/27/2004

ConocoPhillips

P.O. Box 2197

Houston TX 77252

WMW-6

CAT No.	Analysis Name	CAS Number	As Received Result	As Received	As Received	Units	Dilution Factor
				Method Detection Limit*	Limit of Quantitation		
03965	Di-n-butylphthalate	84-74-2	N.D.	2.	10.	ug/l	1
03966	Fluoranthene	206-44-0	N.D.	1.	10.	ug/l	1
03967	Pyrene	129-00-0	N.D.	1.	10.	ug/l	1
03969	Butylbenzylphthalate	85-68-7	N.D.	2.	10.	ug/l	1
03970	Benzo(a)anthracene	56-55-3	N.D.	1.	10.	ug/l	1
03971	Chrysene	218-01-9	N.D.	1.	10.	ug/l	1
03972	3,3'-Dichlorobenzidine	91-94-1	N.D.	1.	10.	ug/l	1
03973	bis(2-Ethylhexyl)phthalate	117-81-7	5.	2.	10.	ug/l	1
03974	Di-n-octylphthalate	117-84-0	N.D.	2.	10.	ug/l	1
03975	Benzo(b)fluoranthene	205-99-2	N.D.	1.	10.	ug/l	1
03976	Benzo(k)fluoranthene	207-08-9	N.D.	1.	10.	ug/l	1
03977	Benzo(a)pyrene	50-32-8	N.D.	1.	10.	ug/l	1
03978	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	1.	10.	ug/l	1
03979	Dibenz(a,h)anthracene	53-70-3	N.D.	1.	10.	ug/l	1
03980	Benzo(g,h,i)perylene	191-24-2	N.D.	1.	10.	ug/l	1
04684	Carbazole	86-74-8	N.D.	1.	10.	ug/l	1
02300 UST-Unleaded Waters by 8260B							
05401	Benzene	71-43-2	N.D.	0.5	5.	ug/l	1
05407	Toluene	108-88-3	N.D.	0.7	5.	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.8	5.	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.8	5.	ug/l	1

Trip blank vials were not received by the laboratory for this sample group.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
00259	Mercury	SW-846 7470A	1	09/29/2004 13:04	Damary Valentin	1
01750	Calcium	SW-846 6010B	1	10/16/2004 09:02	Damary Valentin	1
01757	Magnesium	SW-846 6010B	1	10/16/2004 09:02	Damary Valentin	1
01767	Sodium	SW-846 6010B	2	10/27/2004 00:07	Donna R Sackett	10
07035	Arsenic	SW-846 6010B	1	10/19/2004 08:03	Heidi L Ortenzi	1
07036	Selenium	SW-846 6010B	1	10/19/2004 08:03	Heidi L Ortenzi	1
07046	Barium	SW-846 6010B	1	10/16/2004 09:02	Damary Valentin	1
07049	Cadmium	SW-846 6010B	1	10/16/2004 09:02	Damary Valentin	1
07051	Chromium	SW-846 6010B	1	10/16/2004 09:02	Damary Valentin	1
07055	Lead	SW-846 6010B	1	10/16/2004 09:02	Damary Valentin	1

*=This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. WW 4361313

MW-2 Water Sample

Site# 6051

Wingate Fractionation Plant-Gallup, NM

Collected: 09/24/2004 12:40 by KH

Account Number: 11288

Submitted: 09/25/2004 09:30

Reported: 10/27/2004 at 08:02

Discard: 11/27/2004

ConocoPhillips

P.O. Box 2197

Houston TX 77252

MW002

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
00259	Mercury	7439-97-6	N.D.	0.000028	0.00020	mg/l	1
01750	Calcium	7440-70-2	6.30	0.0479	0.200	mg/l	1
01757	Magnesium	7439-95-4	2.96	0.0193	0.100	mg/l	1
01767	Sodium	7440-23-5	321.	4.62	10.0	mg/l	10
07035	Arsenic	7440-38-2	0.0131	0.0047	0.0100	mg/l	1
07036	Selenium	7782-49-2	N.D.	0.0059	0.0100	mg/l	2
07046	Barium	7440-39-3	0.126	0.00045	0.0050	mg/l	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	mg/l	1
07051	Chromium	7440-47-3	N.D.	0.0025	0.0050	mg/l	1
07055	Lead	7439-92-1	N.D.	0.0100	0.0200	mg/l	1
07066	Silver	7440-22-4	N.D.	0.0020	0.0050	mg/l	1
00200	pH	n.a.	8.3	0.010	0.010	Std. Units	1
00201	Alkalinity to pH 8.3	n.a.	2.9	0.41	2.0	mg/l as CaCO ₃	1
00202	Alkalinity to pH 4.5	n.a.	718.	0.41	2.0	mg/l as CaCO ₃	1
00212	Total Dissolved Solids	n.a.	860.	19.4	60.0	mg/l	1
00224	Chloride	16887-00-6	29.6	1.5	2.0	mg/l	5
00228	Sulfate	14808-79-8	4.4	1.5	5.0	mg/l	5
00235	Biochemical Oxygen Demand	n.a.	N.D.	6.0	6.0	mg/l	1
00368	Nitrate Nitrogen	14797-55-8	N.D.	0.40	0.50	mg/l	5
01553	Chemical Oxygen Demand	n.a.	26.7	2.1	8.0	mg/l	1
08161	Tot Coli/E. coli (Quantitray)	n.a.	See Below			/100ml	n.a.
	Total Coliform	< 1.0	/100ml				
	E. coli	< 1.0	/100ml				
04678	TCL SW846 Semivolatiles/Waters						
03871	4-Chloroaniline	106-47-8	N.D.	0.9	9.	ug/l	1
03905	2-Methylnaphthalene	91-57-6	N.D.	0.9	9.	ug/l	1
03907	2-Nitroaniline	88-74-4	N.D.	0.9	9.	ug/l	1
03922	2,4,5-Trichlorophenol	95-95-4	N.D.	0.9	9.	ug/l	1
03924	2-Chlorophenol	95-57-8	N.D.	0.9	9.	ug/l	1
03925	Phenol	108-95-2	N.D.	0.9	9.	ug/l	1
03926	2-Nitrophenol	88-75-5	N.D.	0.9	9.	ug/l	1
03927	2,4-Dimethylphenol	105-67-9	N.D.	0.9	9.	ug/l	1
03928	2,4-Dichlorophenol	120-83-2	N.D.	0.9	9.	ug/l	1
03929	4-Chloro-3-methylphenol	59-50-7	N.D.	0.9	9.	ug/l	1

*=This limit was used in the evaluation of the final result



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Lancaster Laboratories Sample No. WW 4361313

MW-2 Water Sample

Site# 6051

Wingate Fractionation Plant-Gallup, NM

Collected: 09/24/2004 12:40 by KH

Account Number: 11288

Submitted: 09/25/2004 09:30

ConocoPhillips

Reported: 10/27/2004 at 08:02

P.O. Box 2197

Discard: 11/27/2004

Houston TX 77252

MW002

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
03930	2,4,6-Trichlorophenol	88-06-2	N.D.	0.9	9.	ug/l	1
03936	bis(2-Chloroethyl)ether	111-44-4	N.D.	0.9	9.	ug/l	1
03937	1,3-Dichlorobenzene	541-73-1	N.D.	0.9	9.	ug/l	1
03938	1,4-Dichlorobenzene	106-46-7	N.D.	0.9	9.	ug/l	1
03939	1,2-Dichlorobenzene	95-50-1	N.D.	0.9	9.	ug/l	1
03941	Hexachloroethane	67-72-1	N.D.	0.9	9.	ug/l	1
03942	N-Nitroso-di-n-propylamine	621-64-7	N.D.	0.9	9.	ug/l	1
03943	Nitrobenzene	98-95-3	N.D.	0.9	9.	ug/l	1
03944	Isophorone	78-59-1	N.D.	0.9	9.	ug/l	1
03945	bis(2-Chloroethoxy)methane	111-91-1	N.D.	0.9	9.	ug/l	1
03946	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.9	9.	ug/l	1
03947	Naphthalene	91-20-3	N.D.	0.9	9.	ug/l	1
03948	Hexachlorobutadiene	87-68-3	N.D.	0.9	9.	ug/l	1
03949	Hexachlorocyclopentadiene	77-47-4	N.D.	5.	24.	ug/l	1
03950	2-Chloronaphthalene	91-58-7	N.D.	0.9	9.	ug/l	1
03951	Acenaphthylene	208-96-8	N.D.	0.9	9.	ug/l	1
03952	Dimethylphthalate	131-11-3	N.D.	2.	9.	ug/l	1
04680	2-Methylphenol	95-48-7	N.D.	0.9	9.	ug/l	1
04681	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	0.9	9.	ug/l	1
04682	4-Methylphenol	106-44-5	N.D.	2.	9.	ug/l	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04679	TCL SW846 Semivolatiles/Waters						
03879	Dibenzofuran	132-64-9	N.D.	0.9	9.	ug/l	1
03908	3-Nitroaniline	99-09-2	N.D.	0.9	9.	ug/l	1
03909	4-Nitroaniline	100-01-6	N.D.	0.9	9.	ug/l	1
03931	2,4-Dinitrophenol	51-28-5	N.D.	19.	57.	ug/l	1
03932	4-Nitrophenol	100-02-7	N.D.	9.	47.	ug/l	1
03933	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5.	24.	ug/l	1
03934	Pentachlorophenol	87-86-5	N.D.	3.	24.	ug/l	1
03953	2,6-Dinitrotoluene	606-20-2	N.D.	0.9	9.	ug/l	1
03954	Acenaphthene	83-32-9	N.D.	0.9	9.	ug/l	1
03955	2,4-Dinitrotoluene	121-14-2	N.D.	0.9	9.	ug/l	1
03956	Fluorene	86-73-7	N.D.	0.9	9.	ug/l	1
03957	4-Chlorophenyl-phenylether	7005-72-3	N.D.	0.9	9.	ug/l	1
03958	Diethylphthalate	84-66-2	N.D.	2.	9.	ug/l	1
03960	N-Nitrosodiphenylamine	86-30-6	N.D.	2.	9.	ug/l	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine.							

*=This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. WW 4361313

MW-2 Water Sample

Site# 6051

Wingate Fractionation Plant-Gallup, NM

Collected: 09/24/2004 12:40 by KH

Account Number: 11288

Submitted: 09/25/2004 09:30

ConocoPhillips

Reported: 10/27/2004 at 08:02

P.O. Box 2197

Discard: 11/27/2004

Houston TX 77252

MW002

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
03961	4-Bromophenyl-phenylether	101-55-3	N.D.	0.9	9.	ug/l	1
03962	Hexachlorobenzene	118-74-1	N.D.	0.9	9.	ug/l	1
03963	Phenanthrene	85-01-8	N.D.	0.9	9.	ug/l	1
03964	Anthracene	120-12-7	N.D.	0.9	9.	ug/l	1
03965	Di-n-butylphthalate	84-74-2	N.D.	2.	9.	ug/l	1
03966	Fluoranthene	206-44-0	N.D.	0.9	9.	ug/l	1
03967	Pyrene	129-00-0	N.D.	0.9	9.	ug/l	1
03969	Butylbenzylphthalate	85-68-7	N.D.	2.	9.	ug/l	1
03970	Benzo(a)anthracene	56-55-3	N.D.	0.9	9.	ug/l	1
03971	Chrysene	218-01-9	N.D.	0.9	9.	ug/l	1
03972	3,3'-Dichlorobenzidine	91-94-1	N.D.	0.9	9.	ug/l	1
03973	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2.	9.	ug/l	1
03974	Di-n-octylphthalate	117-84-0	N.D.	2.	9.	ug/l	1
03975	Benzo(b)fluoranthene	205-99-2	N.D.	0.9	9.	ug/l	1
03976	Benzo(k)fluoranthene	207-08-9	N.D.	0.9	9.	ug/l	1
03977	Benzo(a)pyrene	50-32-8	N.D.	0.9	9.	ug/l	1
03978	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.9	9.	ug/l	1
03979	Dibenz(a,h)anthracene	53-70-3	N.D.	0.9	9.	ug/l	1
03980	Benzo(g,h,i)perylene	191-24-2	N.D.	0.9	9.	ug/l	1
04684	Carbazole	86-74-8	N.D.	0.9	9.	ug/l	1
02300	UST-Unleaded Waters by 8260B						
05401	Benzene	71-43-2	N.D.	0.5	5.	ug/l	1
05407	Toluene	108-88-3	N.D.	0.7	5.	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.8	5.	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.8	5.	ug/l	1

Trip blank vials were not received by the laboratory for this sample group.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis		Analyst	Dilution Factor
				Date	Time		
00259	Mercury	SW-846 7470A	1	09/29/2004	13:06	Damary Valentin	1
01750	Calcium	SW-846 6010B	1	10/16/2004	09:07	Damary Valentin	1
01757	Magnesium	SW-846 6010B	1	10/16/2004	09:07	Damary Valentin	1
01767	Sodium	SW-846 6010B	2	10/27/2004	00:10	Donna R Sackett	10

*=This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. WW 4361313

MW-2 Water Sample

Site# 6051

Wingate Fractionation Plant-Gallup, NM

Collected: 09/24/2004 12:40 by KH

Account Number: 11288

Submitted: 09/25/2004 09:30

ConocoPhillips

Reported: 10/27/2004 at 08:02

P.O. Box 2197

Discard: 11/27/2004

Houston TX 77252

MW002

07C35	Arsenic	SW-846 6010B	1	10/19/2004 08:06	Heidi L Ortenzi	1
07C36	Selenium	SW-846 6010B	1	10/19/2004 08:06	Heidi L Ortenzi	1
07C46	Barium	SW-846 6010B	1	10/16/2004 09:07	Damary Valentin	1
07C49	Cadmium	SW-846 6010B	1	10/16/2004 09:07	Damary Valentin	1
07051	Chromium	SW-846 6010B	1	10/16/2004 09:07	Damary Valentin	1
07055	Lead	SW-846 6010B	1	10/16/2004 09:07	Damary Valentin	1
07066	Silver	SW-846 6010B	1	10/16/2004 09:07	Damary Valentin	1
00200	pH	EPA 150.1	1	09/25/2004 23:05	Nicole R Rohrer	1
00201	Alkalinity to pH 8.3	EPA 310.1	1	09/30/2004 08:12	Susan A Engle	1
00202	Alkalinity to pH 4.5	EPA 310.1	1	09/30/2004 08:12	Susan A Engle	1
00212	Total Dissolved Solids	EPA 160.1	1	09/28/2004 14:18	Anne L Kuenzli	1
00224	Chloride	EPA 300.0	1	09/25/2004 12:11	Kyle W Eckenroad	5
00228	Sulfate	EPA 300.0	1	09/25/2004 12:11	Kyle W Eckenroad	5
00235	Biochemical Oxygen Demand	EPA 405.1	1	09/25/2004 21:58	Nicole R Rohrer	1
00368	Nitrate Nitrogen	EPA 300.0	1	09/25/2004 12:11	Kyle W Eckenroad	5
01553	Chemical Oxygen Demand	EPA 410.2	1	09/27/2004 07:15	Susan A Engle	1
08161	Tot Coli/E. coli (Quantitative)	Stand Meth 19, 1995, 9223B	1	09/26/2004 16:25	Christopher C Smith	n.a.
04678	TCL SW846 Semivolatiles/Waters	SW-846 8270C	1	09/29/2004 18:18	Timothy J Trees	1
04679	TCL SW846 Semivolatiles/Waters	SW-846 8270C	1	09/29/2004 18:18	Timothy J Trees	1
02300	UST-Unleaded Waters by 8260B	SW-846 8260B	1	10/05/2004 16:47	Shawn J Rice	1
00813	BNA Water Extraction	SW-846 3510C	1	09/29/2004 07:15	Danette S Blystone	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	10/05/2004 16:47	Shawn J Rice	n.a.
01848	WW SW846 ICP Digest (total)	SW-846 3005A	1	09/29/2004 08:00	Suzette L Lehman	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	09/29/2004 04:30	Deborah A Krady	1

*=This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. WW 4361314

MWR-1 Water Sample

Site# 6051

Wingate Fractionation Plant-Gallup, NM

Collected: 09/24/2004 13:05 by KH

Account Number: 11288

Submitted: 09/25/2004 09:30

Reported: 10/27/2004 at 08:02

Discard: 11/27/2004

ConocoPhillips

P.O. Box 2197

Houston TX 77252

MWR01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received	As Received	Units	Dilution Factor
				Method	Limit of		
				Detection Limit*	Quantitation		
00259	Mercury	7439-97-6	N.D.	0.000028	0.00020	mg/l	1
01750	Calcium	7440-70-2	12.5	0.0479	0.200	mg/l	1
01757	Magnesium	7439-95-4	7.56	0.0193	0.100	mg/l	1
01767	Sodium	7440-23-5	291.	4.62	10.0	mg/l	10
07035	Arsenic	7440-38-2	N.D.	0.0047	0.0100	mg/l	1
07036	Selenium	7782-49-2	N.D.	0.0059	0.0100	mg/l	1
07046	Barium	7440-39-3	0.252	0.00045	0.0050	mg/l	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	mg/l	1
07051	Chromium	7440-47-3	N.D.	0.0025	0.0050	mg/l	1
07055	Lead	7439-92-1	N.D.	0.0100	0.0200	mg/l	1
07066	Silver	7440-22-4	N.D.	0.0020	0.0050	mg/l	1
00200	pH	n.a.	8.0	0.010	0.010	Std.	1
						Units	
00201	Alkalinity to pH 8.3	n.a.	N.D.	0.41	2.0	mg/l	1
						as	
						CaCO3	
00202	Alkalinity to pH 4.5	n.a.	553.	0.41	2.0	mg/l	1
						as	
						CaCO3	
00212	Total Dissolved Solids	n.a.	712.	19.4	60.0	mg/l	1
00224	Chloride	16887-00-6	30.5	3.0	4.0	mg/l	10
00228	Sulfate	14808-79-8	27.0	1.5	5.0	mg/l	5
00235	Biochemical Oxygen Demand	n.a.	11.0	0.80	3.0	mg/l	1
00368	Nitrate Nitrogen	14797-55-8	N.D.	0.40	0.50	mg/l	5
01553	Chemical Oxygen Demand	n.a.	20.6	2.1	8.0	mg/l	1
08161	Tot Coli/E. coli (Quantitray)	n.a.	See Below			/100ml	n.a.
	Total Coliform	< 1.0	/100ml				
	E. coli	< 1.0	/100ml				
04678	TCL SW846 Semivolatiles/Waters						
03871	4-Chloroaniline	106-47-8	N.D.	1.	10.	ug/l	1
03905	2-Methylnaphthalene	91-57-6	N.D.	1.	10.	ug/l	1
03907	2-Nitroaniline	88-74-4	N.D.	1.	10.	ug/l	1
03922	2,4,5-Trichlorophenol	95-95-4	N.D.	1.	10.	ug/l	1
03924	2-Chlorophenol	95-57-8	N.D.	1.	10.	ug/l	1
03925	Phenol	108-95-2	N.D.	1.	10.	ug/l	1
03926	2-Nitrophenol	88-75-5	N.D.	1.	10.	ug/l	1
03927	2,4-Dimethylphenol	105-67-9	N.D.	1.	10.	ug/l	1
03928	2,4-Dichlorophenol	120-83-2	N.D.	1.	10.	ug/l	1
03929	4-Chloro-3-methylphenol	59-50-7	N.D.	1.	10.	ug/l	1

*=This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. WW 4361314

MWR-1 Water Sample

Site# 6051

Wingate Fractionation Plant-Gallup, NM

Collected: 09/24/2004 13:05

by KH

Account Number: 11288

Submitted: 09/25/2004 09:30

Reported: 10/27/2004 at 08:02

Discard: 11/27/2004

ConocoPhillips

P.O. Box 2197

Houston TX 77252

MWR01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
03930	2,4,6-Trichlorophenol	88-06-2	N.D.	1.	10.	ug/l	1
03936	bis(2-Chloroethyl) ether	111-44-4	N.D.	1.	10.	ug/l	1
03937	1,3-Dichlorobenzene	541-73-1	N.D.	1.	10.	ug/l	1
03938	1,4-Dichlorobenzene	106-46-7	N.D.	1.	10.	ug/l	1
03939	1,2-Dichlorobenzene	95-50-1	N.D.	1.	10.	ug/l	1
03941	Hexachloroethane	67-72-1	N.D.	1.	10.	ug/l	1
03942	N-Nitroso-di-n-propylamine	621-64-7	N.D.	1.	10.	ug/l	1
03943	Nitrobenzene	98-95-3	N.D.	1.	10.	ug/l	1
03944	Isophorone	78-59-1	N.D.	1.	10.	ug/l	1
03945	bis(2-Chloroethoxy)methane	111-91-1	N.D.	1.	10.	ug/l	1
03946	1,2,4-Trichlorobenzene	120-82-1	N.D.	1.	10.	ug/l	1
03947	Naphthalene	91-20-3	N.D.	1.	10.	ug/l	1
03948	Hexachlorobutadiene	87-68-3	N.D.	1.	10.	ug/l	1
03949	Hexachlorocyclopentadiene	77-47-4	N.D.	5.	24.	ug/l	1
03950	2-Chloronaphthalene	91-58-7	N.D.	1.	10.	ug/l	1
03951	Acenaphthylene	208-96-8	N.D.	1.	10.	ug/l	1
03952	Dimethylphthalate	131-11-3	N.D.	2.	10.	ug/l	1
04680	2-Methylphenol	95-48-7	N.D.	1.	10.	ug/l	1
04681	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	1.	10.	ug/l	1
04682	4-Methylphenol	106-44-5	12.	2.	10.	ug/l	1

3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.

04679 TCL SW846
Semivolatiles/Waters

03879	Dibenzofuran	132-64-9	N.D.	1.	10.	ug/l	1
03908	3-Nitroaniline	99-09-2	N.D.	1.	10.	ug/l	1
03909	4-Nitroaniline	100-01-6	N.D.	1.	10.	ug/l	1
03931	2,4-Dinitrophenol	51-28-5	N.D.	19.	58.	ug/l	1
03932	4-Nitrophenol	100-02-7	N.D.	10.	48.	ug/l	1
03933	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5.	24.	ug/l	1
03934	Pentachlorophenol	87-86-5	N.D.	3.	24.	ug/l	1
03953	2,6-Dinitrotoluene	606-20-2	N.D.	1.	10.	ug/l	1
03954	Acenaphthene	83-32-9	N.D.	1.	10.	ug/l	1
03955	2,4-Dinitrotoluene	121-14-2	N.D.	1.	10.	ug/l	1
03956	Fluorene	86-73-7	N.D.	1.	10.	ug/l	1
03957	4-Chlorophenyl-phenylether	7005-72-3	N.D.	1.	10.	ug/l	1
03958	Diethylphthalate	84-66-2	N.D.	2.	10.	ug/l	1
03960	N-Nitrosodiphenylamine	86-30-6	N.D.	2.	10.	ug/l	1

N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine.

*=This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. WW 4361314

MWR-1 Water Sample

Site# 6051

Wingate Fractionation Plant-Gallup, NM

Collected: 09/24/2004 13:05 by KH

Account Number: 11288

Submitted: 09/25/2004 09:30

ConocoPhillips

Reported: 10/27/2004 at 08:02

P.O. Box 2197

Discard: 11/27/2004

Houston TX 77252

MWR01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
03961	4-Bromophenyl-phenylether	101-55-3	N.D.	1.	10.	ug/l	1
03962	Hexachlorobenzene	118-74-1	N.D.	1.	10.	ug/l	1
03963	Phenanthrene	85-01-8	N.D.	1.	10.	ug/l	1
03964	Anthracene	120-12-7	N.D.	1.	10.	ug/l	1
03965	Di-n-butylphthalate	84-74-2	N.D.	2.	10.	ug/l	1
03966	Fluoranthene	206-44-0	N.D.	1.	10.	ug/l	1
03967	Pyrene	129-00-0	N.D.	1.	10.	ug/l	1
03969	Butylbenzylphthalate	85-68-7	N.D.	2.	10.	ug/l	1
03970	Benzo(a)anthracene	56-55-3	N.D.	1.	10.	ug/l	1
03971	Chrysene	218-01-9	N.D.	1.	10.	ug/l	1
03972	3,3'-Dichlorobenzidine	91-94-1	N.D.	1.	10.	ug/l	1
03973	bis(2-Ethylhexyl)phthalate	117-81-7	3.	2.	10.	ug/l	1
03974	Di-n-octylphthalate	117-84-0	N.D.	2.	10.	ug/l	1
03975	Benzo(b)fluoranthene	205-99-2	N.D.	1.	10.	ug/l	1
03976	Benzo(k)fluoranthene	207-08-9	N.D.	1.	10.	ug/l	1
03977	Benzo(a)pyrene	50-32-8	N.D.	1.	10.	ug/l	1
03978	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	1.	10.	ug/l	1
03979	Dibenz(a,h)anthracene	53-70-3	N.D.	1.	10.	ug/l	1
03980	Benzo(g,h,i)perylene	191-24-2	N.D.	1.	10.	ug/l	1
04684	Carbazole	86-74-8	N.D.	1.	10.	ug/l	1
02300	UST-Unleaded Waters by 8260B						
05401	Benzene	71-43-2	N.D.	0.5	5.	ug/l	1
05407	Toluene	108-88-3	N.D.	0.7	5.	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.8	5.	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.8	5.	ug/l	1

Trip blank vials were not received by the laboratory for this sample group.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis		Analyst	Dilution Factor
				Date and Time			
00259	Mercury	SW-846 7470A	1	09/29/2004 13:07		Damary Valentin	1
01750	Calcium	SW-846 6010B	1	10/16/2004 09:12		Damary Valentin	1
01757	Magnesium	SW-846 6010B	1	10/16/2004 09:12		Damary Valentin	1
01767	Sodium	SW-846 6010B	2	10/26/2004 23:45		Donna R Sackett	10

*=This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. WW 4361314

MWR-1 Water Sample

Site# 6051

Wingate Fractionation Plant-Gallup, NM

Collected: 09/24/2004 13:05 by KH

Account Number: 11288

Submitted: 09/25/2004 09:30

ConocoPhillips

Reported: 10/27/2004 at 08:02

P.O. Box 2197

Discard: 11/27/2004

Houston TX 77252

MWR01							
07035	Arsenic	SW-846 6010B	1	10/19/2004 08:09	Heidi L Ortenzi	1	
07036	Selenium	SW-846 6010B	1	10/19/2004 08:09	Heidi L Ortenzi	1	
07046	Barium	SW-846 6010B	1	10/16/2004 09:12	Damary Valentin	1	
07049	Cadmium	SW-846 6010B	1	10/16/2004 09:12	Damary Valentin	1	
07051	Chromium	SW-846 6010B	1	10/16/2004 09:12	Damary Valentin	1	
07055	Lead	SW-846 6010B	1	10/16/2004 09:12	Damary Valentin	1	
07066	Silver	SW-846 6010B	1	10/16/2004 09:12	Damary Valentin	1	
00200	pH	EPA 150.1	1	09/25/2004 23:05	Nicole R Rohrer	1	
00201	Alkalinity to pH 8.3	EPA 310.1	1	09/30/2004 08:12	Susan A Engle	1	
00202	Alkalinity to pH 4.5	EPA 310.1	1	09/30/2004 08:12	Susan A Engle	1	
00212	Total Dissolved Solids	EPA 160.1	1	09/28/2004 14:18	Anne L Kuenzli	1	
00224	Chloride	EPA 300.0	1	09/28/2004 14:07	Shannon L Phillips	10	
00228	Sulfate	EPA 300.0	1	09/25/2004 12:56	Kyle W Eckenroad	5	
00235	Biochemical Oxygen Demand	EPA 405.1	1	09/25/2004 21:58	Nicole R Rohrer	1	
00369	Nitrate Nitrogen	EPA 300.0	1	09/25/2004 12:56	Kyle W Eckenroad	5	
01553	Chemical Oxygen Demand	EPA 410.2	1	09/27/2004 07:15	Susan A Engle	1	
08161	Tot Coli/E. coli (Quantitative)	Stand Meth 19, 1995, 9223B	1	09/26/2004 16:25	Christopher C Smith	n.a.	
04678	TCL SW846 Semivolatiles/Waters	SW-846 8270C	1	09/29/2004 18:38	Timothy J Trees	1	
04679	TCL SW846 Semivolatiles/Waters	SW-846 8270C	1	09/29/2004 18:38	Timothy J Trees	1	
02300	UST-Unleaded Waters by 8260B	SW-846 8260B	1	10/05/2004 17:08	Shawn J Rice	1	
00813	BNA Water Extraction	SW-846 3510C	1	09/29/2004 07:15	Danette S Blystone	1	
01163	GC/MS VOA Water Prep	SW-846 5030B	1	10/05/2004 17:08	Shawn J Rice	n.a.	
01848	WW SW846 ICP Digest (total)	SW-846 3005A	1	09/29/2004 08:00	Suzette L Lehman	1	
05713	WW SW846 Hg Digest	SW-846 7470A	1	09/29/2004 04:30	Deborah A Krady	1	

*=This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. WW 4361315

MW-3 Water Sample

Site# 6051

Wingate Fractionation Plant-Gallup, NM

Collected: 09/24/2004 12:05 by KH

Account Number: 11288

Submitted: 09/25/2004 09:30

Reported: 10/27/2004 at 08:02

Discard: 11/27/2004

ConocoPhillips

P.O. Box 2197

Houston TX 77252

MW-3-

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Limit of	Units	Dilution Factor
				Detection Limit*	Quantitation		
00259	Mercury	7439-97-6	N.D.	0.000028	0.00020	mg/l	1
01750	Calcium	7440-70-2	27.9	0.0479	0.200	mg/l	1
01757	Magnesium	7439-95-4	13.4	0.0193	0.100	mg/l	1
01767	Sodium	7440-23-5	156.	2.31	5.00	mg/l	5
07035	Arsenic	7440-38-2	N.D.	0.0047	0.0100	mg/l	1
07036	Selenium	7782-49-2	N.D.	0.0059	0.0100	mg/l	1
07046	Barium	7440-39-3	0.150	0.00045	0.0050	mg/l	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	mg/l	1
07051	Chromium	7440-47-3	N.D.	0.0025	0.0050	mg/l	1
07055	Lead	7439-92-1	N.D.	0.0100	0.0200	mg/l	1
07066	Silver	7440-22-4	N.D.	0.0020	0.0050	mg/l	1
00200	pH	n.a.	7.8	0.010	0.010	Std.	1
00201	Alkalinity to pH 8.3	n.a.	N.D.	0.41	2.0	Units mg/l as CaCO3	1
00202	Alkalinity to pH 4.5	n.a.	419.	0.41	2.0	mg/l as CaCO3	1
00212	Total Dissolved Solids	n.a.	493.	9.7	30.0	mg/l	1
00224	Chloride	16887-00-6	19.6	1.5	2.0	mg/l	5
00228	Sulfate	14808-79-8	14.6	1.5	5.0	mg/l	5
00235	Biochemical Oxygen Demand	n.a.	N.D.	1.4	1.4	mg/l	1
00368	Nitrate Nitrogen	14797-55-8	N.D.	0.40	0.50	mg/l	5
01553	Chemical Oxygen Demand	n.a.	5.2	2.1	8.0	mg/l	1
08161	Tot Coli/E. coli (Quantitative)	n.a.	See Below			/100ml	n.a.
	Total Coliform	< 1.0	/100ml				
	E. coli	< 1.0	/100ml				
04678	TCL SW846 Semivolatiles/Waters						
03871	4-Chloroaniline	106-47-8	N.D.	1.	10.	ug/l	1
03905	2-Methylnaphthalene	91-57-6	N.D.	1.	10.	ug/l	1
03907	2-Nitroaniline	88-74-4	N.D.	1.	10.	ug/l	1
03922	2,4,5-Trichlorophenol	95-95-4	N.D.	1.	10.	ug/l	1
03924	2-Chlorophenol	95-57-8	N.D.	1.	10.	ug/l	1
03925	Phenol	108-95-2	N.D.	1.	10.	ug/l	1
03926	2-Nitrophenol	88-75-5	N.D.	1.	10.	ug/l	1
03927	2,4-Dimethylphenol	105-67-9	N.D.	1.	10.	ug/l	1
03928	2,4-Dichlorophenol	120-83-2	N.D.	1.	10.	ug/l	1
03929	4-Chloro-3-methylphenol	59-50-7	N.D.	1.	10.	ug/l	1

*=This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. WW 4361315

MW-3 Water Sample

Site# 6051

Wingate Fractionation Plant-Gallup, NM

Collected: 09/24/2004 12:05 by KH

Account Number: 11288

Submitted: 09/25/2004 09:30

ConocoPhillips

Reported: 10/27/2004 at 08:02

P.O. Box 2197

Discard: 11/27/2004

Houston TX 77252

MW-3-

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
03930	2,4,6-Trichlorophenol	88-06-2	N.D.	1.	10.	ug/l	1
03936	bis(2-Chloroethyl)ether	111-44-4	N.D.	1.	10.	ug/l	1
03937	1,3-Dichlorobenzene	541-73-1	N.D.	1.	10.	ug/l	1
03938	1,4-Dichlorobenzene	106-46-7	N.D.	1.	10.	ug/l	1
03939	1,2-Dichlorobenzene	95-50-1	N.D.	1.	10.	ug/l	1
03941	Hexachloroethane	67-72-1	N.D.	1.	10.	ug/l	1
03942	N-Nitroso-di-n-propylamine	621-64-7	N.D.	1.	10.	ug/l	1
03943	Nitrobenzene	98-95-3	N.D.	1.	10.	ug/l	1
03944	Isophorone	78-59-1	N.D.	1.	10.	ug/l	1
03945	bis(2-Chloroethoxy)methane	111-91-1	N.D.	1.	10.	ug/l	1
03946	1,2,4-Trichlorobenzene	120-82-1	N.D.	1.	10.	ug/l	1
03947	Naphthalene	91-20-3	N.D.	1.	10.	ug/l	1
03948	Hexachlorobutadiene	87-68-3	N.D.	1.	10.	ug/l	1
03949	Hexachlorocyclopentadiene	77-47-4	N.D.	5.	24.	ug/l	1
03950	2-Chloronaphthalene	91-58-7	N.D.	1.	10.	ug/l	1
03951	Acenaphthylene	208-96-8	N.D.	1.	10.	ug/l	1
03952	Dimethylphthalate	131-11-3	N.D.	2.	10.	ug/l	1
04680	2-Methylphenol	95-48-7	N.D.	1.	10.	ug/l	1
04681	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	1.	10.	ug/l	1
04682	4-Methylphenol	106-44-5	N.D.	2.	10.	ug/l	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04679	TCL SW846 Semivolatiles/Waters						
03879	Dibenzofuran	132-64-9	N.D.	1.	10.	ug/l	1
03908	3-Nitroaniline	99-09-2	N.D.	1.	10.	ug/l	1
03909	4-Nitroaniline	100-01-6	N.D.	1.	10.	ug/l	1
03931	2,4-Dinitrophenol	51-28-5	N.D.	19.	58.	ug/l	1
03932	4-Nitrophenol	100-02-7	N.D.	10.	49.	ug/l	1
03933	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5.	24.	ug/l	1
03934	Pentachlorophenol	87-86-5	N.D.	3.	24.	ug/l	1
03953	2,6-Dinitrotoluene	606-20-2	N.D.	1.	10.	ug/l	1
03954	Acenaphthene	83-32-9	N.D.	1.	10.	ug/l	1
03955	2,4-Dinitrotoluene	121-14-2	N.D.	1.	10.	ug/l	1
03956	Fluorene	86-73-7	N.D.	1.	10.	ug/l	1
03957	4-Chlorophenyl-phenylether	7005-72-3	N.D.	1.	10.	ug/l	1
03958	Diethylphthalate	84-66-2	N.D.	2.	10.	ug/l	1
03960	N-Nitrosodiphenylamine	86-30-6	N.D.	2.	10.	ug/l	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine.							

*=This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. WW 4361315

MW-3 Water Sample

Site# 6051

Wingate Fractionation Plant-Gallup, NM

Collected: 09/24/2004 12:05 by KH

Account Number: 11288

Submitted: 09/25/2004 09:30

Reported: 10/27/2004 at 08:02

Discard: 11/27/2004

ConocoPhillips

P.O. Box 2197

Houston TX 77252

MW-3-

CAT			As Received	As Received	As Received		
No.	Analysis Name	CAS Number	Result	Method	Limit of	Units	Dilution
				Detection	Quantitation		Factor
				Limit*			
	The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.						
03961	4-Bromophenyl-phenylether	101-55-3	N.D.	1.	10.	ug/l	1
03962	Hexachlorobenzene	118-74-1	N.D.	1.	10.	ug/l	1
03963	Phenanthrene	85-01-8	N.D.	1.	10.	ug/l	1
03964	Anthracene	120-12-7	N.D.	1.	10.	ug/l	1
03965	Di-n-butylphthalate	84-74-2	N.D.	2.	10.	ug/l	1
03966	Fluoranthene	206-44-0	N.D.	1.	10.	ug/l	1
03967	Pyrene	129-00-0	N.D.	1.	10.	ug/l	1
03969	Butylbenzylphthalate	85-68-7	N.D.	2.	10.	ug/l	1
03970	Benzo (a) anthracene	56-55-3	N.D.	1.	10.	ug/l	1
03971	Chrysene	218-01-9	N.D.	1.	10.	ug/l	1
03972	3,3'-Dichlorobenzidine	91-94-1	N.D.	1.	10.	ug/l	1
03973	bis (2-Ethylhexyl) phthalate	117-81-7	N.D.	2.	10.	ug/l	1
03974	Di-n-octylphthalate	117-84-0	N.D.	2.	10.	ug/l	1
03975	Benzo (b) fluoranthene	205-99-2	N.D.	1.	10.	ug/l	1
03976	Benzo (k) fluoranthene	207-08-9	N.D.	1.	10.	ug/l	1
03977	Benzo (a) pyrene	50-32-8	N.D.	1.	10.	ug/l	1
03978	Indeno (1,2,3-cd) pyrene	193-39-5	N.D.	1.	10.	ug/l	1
03979	Dibenz (a,h) anthracene	53-70-3	N.D.	1.	10.	ug/l	1
03980	Benzo (g,h,i) perylene	191-24-2	N.D.	1.	10.	ug/l	1
04684	Carbazole	86-74-8	N.D.	1.	10.	ug/l	1

02300 UST-Unleaded Waters by 8260B

05401	Benzene	71-43-2	N.D.	0.5	5.	ug/l	1
05407	Toluene	108-88-3	N.D.	0.7	5.	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.8	5.	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.8	5.	ug/l	1

Trip blank vials were not received by the laboratory for this sample group.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis	Analyst	Dilution Factor
				Date and Time		
00259	Mercury	SW-846 7470A	1	09/29/2004 13:08	Damary Valentin	1
01750	Calcium	SW-846 6010B	1	10/16/2004 09:16	Damary Valentin	1
01757	Magnesium	SW-846 6010B	1	10/16/2004 09:16	Damary Valentin	1
01767	Sodium	SW-846 6010B	2	10/27/2004 00:13	Donna R Sackett	5

*=This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. WW 4361315

MW-3 Water Sample

Site# 6051

Wingate Fractionation Plant-Gallup, NM

Collected: 09/24/2004 12:05 by KH

Account Number: 11288

Submitted: 09/25/2004 09:30

Reported: 10/27/2004 at 08:02

Discard: 11/27/2004

ConocoPhillips

P.O. Box 2197

Houston TX 77252

MW-3-									
07035	Arsenic	SW-846 6010B	1	10/19/2004 08:22	Heidi L Ortenzi	1			
07036	Selenium	SW-846 6010B	1	10/19/2004 08:22	Heidi L Ortenzi	1			
07046	Barium	SW-846 6010B	1	10/16/2004 09:16	Damary Valentin	1			
07049	Cadmium	SW-846 6010B	1	10/16/2004 09:16	Damary Valentin	1			
07051	Chromium	SW-846 6010B	1	10/16/2004 09:16	Damary Valentin	1			
07055	Lead	SW-846 6010B	1	10/16/2004 09:16	Damary Valentin	1			
07066	Silver	SW-846 6010B	1	10/16/2004 09:16	Damary Valentin	1			
00200	pH	EPA 150.1	1	09/25/2004 23:05	Nicole R Rohrer	1			
00201	Alkalinity to pH 8.3	EPA 310.1	1	09/30/2004 08:12	Susan A Engle	1			
00202	Alkalinity to pH 4.5	EPA 310.1	1	09/30/2004 08:12	Susan A Engle	1			
00212	Total Dissolved Solids	EPA 160.1	1	09/28/2004 14:18	Anne L Kuenzli	1			
00224	Chloride	EPA 300.0	1	09/25/2004 11:56	Kyle W Eckenroad	5			
00228	Sulfate	EPA 300.0	1	09/25/2004 11:56	Kyle W Eckenroad	5			
00235	Biochemical Oxygen Demand	EPA 405.1	1	09/25/2004 21:58	Nicole R Rohrer	1			
00368	Nitrate Nitrogen	EPA 300.0	1	09/25/2004 11:56	Kyle W Eckenroad	5			
01553	Chemical Oxygen Demand	EPA 410.2	2	10/04/2004 06:05	Susan A Engle	1			
08161	Tot Coli/E. coli (Quantitative)	Stand Meth 19, 1995, 9223B	1	09/26/2004 16:25	Christopher C Smith	n.a.			
04678	TCL SW846 Semivolatiles/Waters	SW-846 8270C	1	09/29/2004 18:59	Timothy J Trees	1			
04679	TCL SW846 Semivolatiles/Waters	SW-846 8270C	1	09/29/2004 18:59	Timothy J Trees	1			
02300	UST-Unleaded Waters by 8260B	SW-846 8260B	1	10/05/2004 17:29	Shawn J Rice	1			
00813	BNA Water Extraction	SW-846 3510C	1	09/29/2004 07:15	Danette S Blystone	1			
01163	GC/MS VOA Water Prep	SW-846 5030B	1	10/05/2004 17:29	Shawn J Rice	n.a.			
01848	WW SW846 ICP Digest (total rec)	SW-846 3005A	1	09/29/2004 08:00	Suzette L Lehman	1			
05713	WW SW846 Hg Digest	SW-846 7470A	1	09/29/2004 04:30	Deborah A Krady	1			

*=This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. WW 4361316

WMW-8 Water Sample

Site# 6051

Wingate Fractionation Plant-Gallup, NM

Collected: 09/24/2004 13:55 by KH

Account Number: 11288

Submitted: 09/25/2004 09:30

Reported: 10/27/2004 at 08:03

Discard: 11/27/2004

ConocoPhillips

P.O. Box 2197

Houston TX 77252

MW-8 -

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
00259	Mercury	7439-97-6	N.D.	0.000028	0.00020	mg/l	1
01750	Calcium	7440-70-2	36.1	0.0479	0.200	mg/l	1
01757	Magnesium	7439-95-4	17.6	0.0193	0.100	mg/l	1
01767	Sodium	7440-23-5	218.	4.62	10.0	mg/l	10
07035	Arsenic	7440-38-2	N.D.	0.0047	0.0100	mg/l	1
07036	Selenium	7782-49-2	N.D.	0.0059	0.0100	mg/l	1
07046	Barium	7440-39-3	0.213	0.00045	0.0050	mg/l	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	mg/l	1
07051	Chromium	7440-47-3	N.D.	0.0025	0.0050	mg/l	1
07055	Lead	7439-92-1	N.D.	0.0100	0.0200	mg/l	1
07066	Silver	7440-22-4	N.D.	0.0020	0.0050	mg/l	1
00200	pH	n.a.	7.8	0.010	0.010	Std.	1
00201	Alkalinity to pH 8.3	n.a.	N.D.	0.41	2.0	Units mg/l as CaCO3	1
00202	Alkalinity to pH 4.5	n.a.	440.	0.41	2.0	mg/l as CaCO3	1
00212	Total Dissolved Solids	n.a.	753.	19.4	60.0	mg/l	1
00224	Chloride	16887-00-6	27.0	1.5	2.0	mg/l	5
00228	Sulfate	14808-79-8	130.	6.0	20.0	mg/l	20
00368	Nitrate Nitrogen	14797-55-8	N.D.	0.40	0.50	mg/l	5
04678	TCL SW846 Semivolatiles/Waters						
03871	4-Chloroaniline	106-47-8	N.D.	1.	10.	ug/l	1
03905	2-Methylnaphthalene	91-57-6	N.D.	1.	10.	ug/l	1
03907	2-Nitroaniline	88-74-4	N.D.	1.	10.	ug/l	1
03922	2,4,5-Trichlorophenol	95-95-4	N.D.	1.	10.	ug/l	1
03924	2-Chlorophenol	95-57-8	N.D.	1.	10.	ug/l	1
03925	Phenol	108-95-2	N.D.	1.	10.	ug/l	1
03926	2-Nitrophenol	88-75-5	N.D.	1.	10.	ug/l	1
03927	2,4-Dimethylphenol	105-67-9	N.D.	1.	10.	ug/l	1
03928	2,4-Dichlorophenol	120-83-2	N.D.	1.	10.	ug/l	1
03929	4-Chloro-3-methylphenol	59-50-7	N.D.	1.	10.	ug/l	1
03930	2,4,6-Trichlorophenol	88-06-2	N.D.	1.	10.	ug/l	1
03936	bis(2-Chloroethyl) ether	111-44-4	N.D.	1.	10.	ug/l	1
03937	1,3-Dichlorobenzene	541-73-1	N.D.	1.	10.	ug/l	1
03938	1,4-Dichlorobenzene	106-46-7	N.D.	1.	10.	ug/l	1
03939	1,2-Dichlorobenzene	95-50-1	N.D.	1.	10.	ug/l	1

*=This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. WW 4361316

WMW-8 Water Sample

Site# 6051

Wingate Fractionation Plant-Gallup, NM

Collected: 09/24/2004 13:55 by KH

Account Number: 11288

Submitted: 09/25/2004 09:30

Reported: 10/27/2004 at 08:03

Discard: 11/27/2004

ConocoPhillips

P.O. Box 2197

Houston TX 77252

MW-8-

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
03941	Hexachloroethane	67-72-1	N.D.	1.	10.	ug/l	1
03942	N-Nitroso-di-n-propylamine	621-64-7	N.D.	1.	10.	ug/l	1
03943	Nitrobenzene	98-95-3	N.D.	1.	10.	ug/l	1
03944	Isophorone	78-59-1	N.D.	1.	10.	ug/l	1
03945	bis(2-Chloroethoxy)methane	111-91-1	N.D.	1.	10.	ug/l	1
03946	1,2,4-Trichlorobenzene	120-82-1	N.D.	1.	10.	ug/l	1
03947	Naphthalene	91-20-3	N.D.	1.	10.	ug/l	1
03948	Hexachlorobutadiene	87-68-3	N.D.	1.	10.	ug/l	1
03949	Hexachlorocyclopentadiene	77-47-4	N.D.	5.	25.	ug/l	1
03950	2-Chloronaphthalene	91-58-7	N.D.	1.	10.	ug/l	1
03951	Acenaphthylene	208-96-8	N.D.	1.	10.	ug/l	1
03952	Dimethylphthalate	131-11-3	N.D.	2.	10.	ug/l	1
04680	2-Methylphenol	95-48-7	N.D.	1.	10.	ug/l	1
04681	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	1.	10.	ug/l	1
04682	4-Methylphenol	106-44-5	N.D.	2.	10.	ug/l	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04679	TCL SW846 Semivolatiles/Waters						
03879	Dibenzofuran	132-64-9	N.D.	1.	10.	ug/l	1
03908	3-Nitroaniline	99-09-2	N.D.	1.	10.	ug/l	1
03909	4-Nitroaniline	100-01-6	N.D.	1.	10.	ug/l	1
03931	2,4-Dinitrophenol	51-28-5	N.D.	20.	59.	ug/l	1
03932	4-Nitrophenol	100-02-7	N.D.	10.	49.	ug/l	1
03933	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5.	25.	ug/l	1
03934	Pentachlorophenol	87-86-5	N.D.	3.	25.	ug/l	1
03953	2,6-Dinitrotoluene	606-20-2	N.D.	1.	10.	ug/l	1
03954	Acenaphthene	83-32-9	N.D.	1.	10.	ug/l	1
03955	2,4-Dinitrotoluene	121-14-2	N.D.	1.	10.	ug/l	1
03956	Fluorene	86-73-7	N.D.	1.	10.	ug/l	1
03957	4-Chlorophenyl-phenylether	7005-72-3	N.D.	1.	10.	ug/l	1
03958	Diethylphthalate	84-66-2	N.D.	2.	10.	ug/l	1
03960	N-Nitrosodiphenylamine	86-30-6	N.D.	2.	10.	ug/l	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
03961	4-Bromophenyl-phenylether	101-55-3	N.D.	1.	10.	ug/l	1
03962	Hexachlorobenzene	118-74-1	N.D.	1.	10.	ug/l	1
03963	Phenanthrene	85-01-8	N.D.	1.	10.	ug/l	1
03964	Anthracene	120-12-7	N.D.	1.	10.	ug/l	1

*=This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. WW 4361316

WMW-8 Water Sample

Site# 6051

Wingate Fractionation Plant-Gallup, NM

Collected: 09/24/2004 13:55 by KH

Account Number: 11288

Submitted: 09/25/2004 09:30

Reported: 10/27/2004 at 08:03

Discard: 11/27/2004

ConocoPhillips

P.O. Box 2197

Houston TX 77252

MW-8-

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
03965	Di-n-butylphthalate	84-74-2	4.	2.	10.	ug/l	1
03966	Fluoranthene	206-44-0	N.D.	1.	10.	ug/l	1
03967	Pyrene	129-00-0	N.D.	1.	10.	ug/l	1
03969	Butylbenzylphthalate	85-68-7	N.D.	2.	10.	ug/l	1
03970	Benzo(a)anthracene	56-55-3	N.D.	1.	10.	ug/l	1
03971	Chrysene	218-01-9	N.D.	1.	10.	ug/l	1
03972	3,3'-Dichlorobenzidine	91-94-1	N.D.	1.	10.	ug/l	1
03973	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2.	10.	ug/l	1
03974	Di-n-octylphthalate	117-84-0	N.D.	2.	10.	ug/l	1
03975	Benzo(b)fluoranthene	205-99-2	N.D.	1.	10.	ug/l	1
03976	Benzo(k)fluoranthene	207-08-9	N.D.	1.	10.	ug/l	1
03977	Benzo(a)pyrene	50-32-8	N.D.	1.	10.	ug/l	1
03978	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	1.	10.	ug/l	1
03979	Dibenz(a,h)anthracene	53-70-3	N.D.	1.	10.	ug/l	1
03980	Benzo(g,h,i)perylene	191-24-2	N.D.	1.	10.	ug/l	1
04684	Carbazole	86-74-8	N.D.	1.	10.	ug/l	1
02300	UST-Unleaded Waters by 8260B						
05401	Benzene	71-43-2	N.D.	0.5	5.	ug/l	1
05407	Toluene	108-88-3	N.D.	0.7	5.	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.8	5.	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.8	5.	ug/l	1

Trip blank vials were not received by the laboratory for this sample group.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis Trial#	Date and Time	Analyst	Dilution Factor
00259	Mercury	SW-846 7470A	1	09/29/2004 13:10	Damary Valentin	1
01750	Calcium	SW-846 6010B	1	10/16/2004 09:21	Damary Valentin	1
01757	Magnesium	SW-846 6010B	1	10/16/2004 09:21	Damary Valentin	1
01767	Sodium	SW-846 6010B	2	10/27/2004 00:23	Donna R Sackett	10
07035	Arsenic	SW-846 6010B	1	10/19/2004 08:25	Heidi L Ortenzi	1
07036	Selenium	SW-846 6010B	1	10/19/2004 08:25	Heidi L Ortenzi	1
07046	Barium	SW-846 6010B	1	10/16/2004 09:21	Damary Valentin	1
07049	Cadmium	SW-846 6010B	1	10/16/2004 09:21	Damary Valentin	1
07051	Chromium	SW-846 6010B	1	10/16/2004 09:21	Damary Valentin	1
07055	Lead	SW-846 6010B	1	10/16/2004 09:21	Damary Valentin	1

*=This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. WW 4361316

WMW-8 Water Sample

Site# 6051

Wingate Fractionation Plant-Gallup, NM

Collected: 09/24/2004 13:55 by KH

Account Number: 11288

Submitted: 09/25/2004 09:30

Reported: 10/27/2004 at 08:03

Discard: 11/27/2004

ConocoPhillips

P.O. Box 2197

Houston TX 77252

MW-8-									
07066	Silver	SW-846 6010B	1	10/16/2004 09:21	Damary Valentin	1			
00200	pH	EPA 150.1	1	09/25/2004 23:05	Nicole R Rohrer	1			
00201	Alkalinity to pH 8.3	EPA 310.1	1	09/30/2004 08:12	Susan A Engle	1			
00202	Alkalinity to pH 4.5	EPA 310.1	1	09/30/2004 08:12	Susan A Engle	1			
00212	Total Dissolved Solids	EPA 160.1	1	09/28/2004 14:18	Anne L Kuenzli	1			
00224	Chloride	EPA 300.0	1	09/25/2004 13:11	Kyle W Eckenroad	5			
00228	Sulfate	EPA 300.0	1	09/28/2004 14:22	Shannon L Phillips	20			
00368	Nitrate Nitrogen	EPA 300.0	1	09/25/2004 13:11	Kyle W Eckenroad	5			
04678	TCL SW846	SW-846 8270C	1	09/29/2004 19:20	Timothy J Trees	1			
	Semivolatiles/Waters								
04679	TCL SW846	SW-846 8270C	1	09/29/2004 19:20	Timothy J Trees	1			
	Semivolatiles/Waters								
02300	UST-Unleaded Waters by 8260B	SW-846 8260B	1	10/05/2004 17:50	Shawn J Rice	1			
00813	BNA Water Extraction	SW-846 3510C	1	09/29/2004 07:15	Danette S Blystone	1			
01163	GC/MS VOA Water Prep	SW-846 5030B	1	10/05/2004 17:50	Shawn J Rice	n.a.			
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	09/29/2004 08:00	Suzette L Lehman	1			
05713	WW SW846 Hg Digest	SW-846 7470A	1	09/29/2004 04:30	Deborah A Krady	1			

*=This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. WW 4361317

WMW-3 Water Sample

Site# 6051

Wingate Fractionation Plant-Gallup, NM

Collected: 09/24/2004 14:30 by KH

Account Number: 11288

Submitted: 09/25/2004 09:30

Reported: 10/27/2004 at 08:03

Discard: 11/27/2004

ConocoPhillips

P.O. Box 2197

Houston TX 77252

WMW3-

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
00259	Mercury	7439-97-6	N.D.	0.000028	0.000020	mg/l	1
01750	Calcium	7440-70-2	470.	0.0479	0.200	mg/l	1
01757	Magnesium	7439-95-4	216.	0.0193	0.100	mg/l	1
01767	Sodium	7440-23-5	1,810.	23.1	50.0	mg/l	10
07035	Arsenic	7440-38-2	N.D.	0.470	1.00	mg/l	100
07036	Selenium	7782-49-2	N.D.	0.0059	0.0100	mg/l	1
07046	Barium	7440-39-3	1.14	0.00045	0.0050	mg/l	1
07049	Cadmium	7440-43-9	0.0012	0.00076	0.0050	mg/l	1
07051	Chromium	7440-47-3	0.905	0.0025	0.0050	mg/l	1
07055	Lead	7439-92-1	0.250	0.0100	0.0200	mg/l	1
07066	Silver	7440-22-4	N.D.	0.0020	0.0050	mg/l	1
00200	pH	n.a.	7.5	0.010	0.010	Std.	1
00201	Alkalinity to pH 8.3	n.a.	N.D.	0.41	2.0	Units mg/l as CaCO3	1
00202	Alkalinity to pH 4.5	n.a.	1,700.	0.41	2.0	mg/l as CaCO3	1
00212	Total Dissolved Solids	n.a.	6,030.	194.	600.	mg/l	1
00224	Chloride	16887-00-6	985.	150.	200.	mg/l	500
00228	Sulfate	14808-79-8	1,410.	150.	500.	mg/l	500
00368	Nitrate Nitrogen	14797-55-8	N.D.	0.40	0.50	mg/l	5
04678	TCL SW846 Semivolatiles/Waters						
03871	4-Chloroaniline	106-47-8	N.D.	10.	100.	ug/l	1
03905	2-Methylnaphthalene	91-57-6	N.D.	10.	100.	ug/l	1
03907	2-Nitroaniline	88-74-4	N.D.	10.	100.	ug/l	1
03922	2,4,5-Trichlorophenol	95-95-4	N.D.	10.	100.	ug/l	1
03924	2-Chlorophenol	95-57-8	N.D.	10.	100.	ug/l	1
03925	Phenol	108-95-2	N.D.	10.	100.	ug/l	1
03926	2-Nitrophenol	88-75-5	N.D.	10.	100.	ug/l	1
03927	2,4-Dimethylphenol	105-67-9	N.D.	10.	100.	ug/l	1
03928	2,4-Dichlorophenol	120-83-2	N.D.	10.	100.	ug/l	1
03929	4-Chloro-3-methylphenol	59-50-7	N.D.	10.	100.	ug/l	1
03930	2,4,6-Trichlorophenol	88-06-2	N.D.	10.	100.	ug/l	1
03936	bis(2-Chloroethyl)ether	111-44-4	N.D.	10.	100.	ug/l	1
03937	1,3-Dichlorobenzene	541-73-1	N.D.	10.	100.	ug/l	1
03938	1,4-Dichlorobenzene	106-46-7	N.D.	10.	100.	ug/l	1
03939	1,2-Dichlorobenzene	95-50-1	N.D.	10.	100.	ug/l	1

*=This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. WW 4361317

WMW-3 Water Sample

Site# 6051

Wingate Fractionation Plant-Gallup, NM

Collected: 09/24/2004 14:30 by KH

Account Number: 11288

Submitted: 09/25/2004 09:30

Reported: 10/27/2004 at 08:03

Discard: 11/27/2004

ConocoPhillips

P.O. Box 2197

Houston TX 77252

WMW3 -

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
03941	Hexachloroethane	67-72-1	N.D.	10.	100.	ug/l	1
03942	N-Nitroso-di-n-propylamine	621-64-7	N.D.	10.	100.	ug/l	1
03943	Nitrobenzene	98-95-3	N.D.	10.	100.	ug/l	1
03944	Isophorone	78-59-1	N.D.	10.	100.	ug/l	1
03945	bis(2-Chloroethoxy)methane	111-91-1	N.D.	10.	100.	ug/l	1
03946	1,2,4-Trichlorobenzene	120-82-1	N.D.	10.	100.	ug/l	1
03947	Naphthalene	91-20-3	N.D.	10.	100.	ug/l	1
03948	Hexachlorobutadiene	87-68-3	N.D.	10.	100.	ug/l	1
03949	Hexachlorocyclopentadiene	77-47-4	N.D.	50.	250.	ug/l	1
03950	2-Chloronaphthalene	91-58-7	N.D.	10.	100.	ug/l	1
03951	Acenaphthylene	208-96-8	N.D.	10.	100.	ug/l	1
03952	Dimethylphthalate	131-11-3	N.D.	20.	100.	ug/l	1
04680	2-Methylphenol	95-48-7	N.D.	10.	100.	ug/l	1
04681	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	10.	100.	ug/l	1
04682	4-Methylphenol	106-44-5	N.D.	20.	100.	ug/l	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04679	TCL SW846 Semivolatiles/Waters						
03879	Dibenzofuran	132-64-9	N.D.	10.	100.	ug/l	1
03908	3-Nitroaniline	99-09-2	N.D.	10.	100.	ug/l	1
03909	4-Nitroaniline	100-01-6	N.D.	10.	100.	ug/l	1
03931	2,4-Dinitrophenol	51-28-5	N.D.	200.	600.	ug/l	1
03932	4-Nitrophenol	100-02-7	N.D.	100.	500.	ug/l	1
03933	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	50.	250.	ug/l	1
03934	Pentachlorophenol	87-86-5	N.D.	30.	250.	ug/l	1
03953	2,6-Dinitrotoluene	606-20-2	N.D.	10.	100.	ug/l	1
03954	Acenaphthene	83-32-9	N.D.	10.	100.	ug/l	1
03955	2,4-Dinitrotoluene	121-14-2	N.D.	10.	100.	ug/l	1
03956	Fluorene	86-73-7	N.D.	10.	100.	ug/l	1
03957	4-Chlorophenyl-phenylether	7005-72-3	N.D.	10.	100.	ug/l	1
03958	Diethylphthalate	84-66-2	N.D.	20.	100.	ug/l	1
03960	N-Nitrosodiphenylamine	86-30-6	N.D.	20.	100.	ug/l	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
03961	4-Bromophenyl-phenylether	101-55-3	N.D.	10.	100.	ug/l	1
03962	Hexachlorobenzene	118-74-1	N.D.	10.	100.	ug/l	1
03963	Phenanthrene	85-01-8	N.D.	10.	100.	ug/l	1
03964	Anthracene	120-12-7	N.D.	10.	100.	ug/l	1

*=This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. WW 4361317

WMW-3 Water Sample

Site# 6051

Wingate Fractionation Plant-Gallup, NM

Collected: 09/24/2004 14:30 by KH

Account Number: 11288

Submitted: 09/25/2004 09:30

Reported: 10/27/2004 at 08:03

Discard: 11/27/2004

ConocoPhillips

P.O. Box 2197

Houston TX 77252

WMW3-

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
03965	Di-n-butylphthalate	84-74-2	N.D.	20.	100.	ug/l	1
03966	Fluoranthene	206-44-0	N.D.	10.	100.	ug/l	1
03967	Pyrene	129-00-0	N.D.	10.	100.	ug/l	1
03969	Butylbenzylphthalate	85-68-7	N.D.	20.	100.	ug/l	1
03970	Benzo(a)anthracene	56-55-3	N.D.	10.	100.	ug/l	1
03971	Chrysene	218-01-9	N.D.	10.	100.	ug/l	1
03972	3,3'-Dichlorobenzidine	91-94-1	N.D.	10.	100.	ug/l	1
03973	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	20.	100.	ug/l	1
03974	Di-n-octylphthalate	117-84-0	N.D.	20.	100.	ug/l	1
03975	Benzo(b)fluoranthene	205-99-2	N.D.	10.	100.	ug/l	1
03976	Benzo(k)fluoranthene	207-08-9	N.D.	10.	100.	ug/l	1
03977	Benzo(a)pyrene	50-32-8	N.D.	10.	100.	ug/l	1
03978	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	10.	100.	ug/l	1
03979	Dibenz(a,h)anthracene	53-70-3	N.D.	10.	100.	ug/l	1
03980	Benzo(g,h,i)perylene	191-24-2	N.D.	10.	100.	ug/l	1
04684	Carbazole	86-74-8	N.D.	10.	100.	ug/l	1

Due to sample matrix interferences observed during the extraction, the normal reporting limits could not be obtained.

02300 UST-Unleaded Waters by 8260B

05401	Benzene	71-43-2	N.D.	0.5	5.	ug/l	1
05407	Toluene	108-88-3	N.D.	0.7	5.	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.8	5.	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.8	5.	ug/l	1

Trip blank vials were not received by the laboratory for this sample group.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
00259	Mercury	SW-846 7470A	1	09/29/2004 13:11	Damary Valentin	1
01750	Calcium	SW-846 6010B	1	10/16/2004 09:26	Damary Valentin	1
01757	Magnesium	SW-846 6010B	1	10/16/2004 09:26	Damary Valentin	1
01767	Sodium	SW-846 6010B	2	10/27/2004 00:26	Donna R Sackett	10
07035	Arsenic	SW-846 6010B	1	10/19/2004 08:44	Heidi L Ortenzi	100
07036	Selenium	SW-846 6010B	1	10/19/2004 08:41	Heidi L Ortenzi	1
07046	Barium	SW-846 6010B	1	10/16/2004 09:26	Damary Valentin	1
07049	Cadmium	SW-846 6010B	1	10/16/2004 09:26	Damary Valentin	1

*=This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. WW 4361317

WMW-3 Water Sample

Site# 6051

Wingate Fractionation Plant-Gallup, NM

Collected: 09/24/2004 14:30 by KH

Account Number: 11288

Submitted: 09/25/2004 09:30

ConocoPhillips

Reported: 10/27/2004 at 08:03

P.O. Box 2197

Discard: 11/27/2004

Houston TX 77252

WMW3-

07051	Chromium	SW-846 6010B	1	10/16/2004 09:26	Damary Valentin	1
07055	Lead	SW-846 6010B	1	10/16/2004 09:26	Damary Valentin	1
07066	Silver	SW-846 6010B	1	10/16/2004 09:26	Damary Valentin	1
00200	pH	EPA 150.1	1	09/25/2004 23:05	Nicole R Rohrer	1
00201	Alkalinity to pH 8.3	EPA 310.1	1	09/30/2004 08:12	Susan A Engle	1
00202	Alkalinity to pH 4.5	EPA 310.1	1	09/30/2004 08:12	Susan A Engle	1
00212	Total Dissolved Solids	EPA 160.1	1	09/28/2004 14:18	Anne L Kuenzli	1
00224	Chloride	EPA 300.0	1	09/28/2004 14:37	Shannon L Phillips	500
00228	Sulfate	EPA 300.0	1	09/28/2004 14:37	Shannon L Phillips	500
00368	Nitrate Nitrogen	EPA 300.0	1	09/25/2004 13:26	Kyle W Eckenroad	5
04678	TCL SW846	SW-846 8270C	1	09/29/2004 19:40	Timothy J Trees	1
	Semivolatiles/Waters					
04679	TCL SW846	SW-846 8270C	1	09/29/2004 19:40	Timothy J Trees	1
	Semivolatiles/Waters					
02300	UST-Unleaded Waters by 8260B	SW-846 8260B	1	10/05/2004 18:30	Ryan V Nolt	1
00813	BNA Water Extraction	SW-846 3510C	1	09/29/2004 07:15	Danette S Blystone	1
01163	GC/MS VCA Water Prep	SW-846 5030B	1	10/05/2004 18:30	Ryan V Nolt	n.a.
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	09/29/2004 08:00	Suzette L Lehman	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	09/29/2004 04:30	Deborah A Krady	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories Analytical Report
2425 New Holland Pike, Lancaster, PA 17603

Sample Number: WW 4361317

Account: 11288

WMW-3 Water Sample

Site# 6051

ConocoPhillips

Wingate Fractionation Plant-Gallup, NM

P.O. Box 2197

Collected: 09/24/2004 14:30 by KH

Houston TX 77252

Submitted: 09/25/2004 09:30

Reported: 11/19/2004 at 12:13

WMW3-

CAT No.	Analysis Name	CAS Number	As Received		As Received		Units	Dilution Factor
			Result	Method Detection Limit*	Limit of Quantitation	Quantitation		
00259	Mercury	7439-97-6	N.D.	0.000028	0.00020	mg/l	1	
01750	Calcium	7440-70-2	470.	0.0479	0.200	mg/l	1	
01757	Magnesium	7439-95-4	216.	0.0193	0.100	mg/l	1	
01767	Sodium	7440-23-5	1,810.	23.1	50.0	mg/l	10	
07035	Arsenic	7440-38-2	0.0351	0.0047	0.0100	mg/l	1	
07036	Selenium	7782-49-2	N.D.	0.0059	0.0100	mg/l	1	
07046	Barium	7440-39-3	1.14	0.00045	0.0050	mg/l	1	
07049	Cadmium	7440-43-9	0.0012	0.00076	0.0050	mg/l	1	
07051	Chromium	7440-47-3	0.905	0.0025	0.0050	mg/l	1	
07055	Lead	7439-92-1	0.250	0.0100	0.0200	mg/l	1	
07066	Silver	7440-22-4	N.D.	0.0020	0.0050	mg/l	1	
00200	pH	n.a.	7.5	0.010	0.010	Std.	1	
						Units		
00201	Alkalinity to pH 8.3	n.a.	N.D.	0.41	2.0	mg/l as CaCO3	1	
00202	Alkalinity to pH 4.5	n.a.	1,700.	0.41	2.0	mg/l as CaCO3	1	
00212	Total Dissolved Solids	n.a.	6,030.	194.	600.	mg/l	1	
00224	Chloride	16887-00-6	985.	150.	200.	mg/l	500	
00228	Sulfate	14808-79-8	1,410.	150.	500.	mg/l	500	
00368	Nitrate Nitrogen	14797-55-8	N.D.	0.40	0.50	mg/l	5	
04678	TCL SW846 Semivolatiles/Waters							
03871	4-Chloroaniline	106-47-8	N.D.	10.	100.	ug/l	1	
03905	2-Methylnaphthalene	91-57-6	N.D.	10.	100.	ug/l	1	
03907	2-Nitroaniline	88-74-4	N.D.	10.	100.	ug/l	1	
03922	2,4,5-Trichlorophenol	95-95-4	N.D.	10.	100.	ug/l	1	
03924	2-Chlorophenol	95-57-8	N.D.	10.	100.	ug/l	1	
03925	Phenol	108-95-2	N.D.	10.	100.	ug/l	1	
03926	2-Nitrophenol	88-75-5	N.D.	10.	100.	ug/l	1	
03927	2,4-Dimethylphenol	105-67-9	N.D.	10.	100.	ug/l	1	
03928	2,4-Dichlorophenol	120-83-2	N.D.	10.	100.	ug/l	1	
03929	4-Chloro-3-methylphenol	59-50-7	N.D.	10.	100.	ug/l	1	
03930	2,4,6-Trichlorophenol	88-06-2	N.D.	10.	100.	ug/l	1	
03936	bis(2-Chloroethyl)ether	111-44-4	N.D.	10.	100.	ug/l	1	
03937	1,3-Dichlorobenzene	541-73-1	N.D.	10.	100.	ug/l	1	
03938	1,4-Dichlorobenzene	106-46-7	N.D.	10.	100.	ug/l	1	
03939	1,2-Dichlorobenzene	95-50-1	N.D.	10.	100.	ug/l	1	
03941	Hexachloroethane	67-72-1	N.D.	10.	100.	ug/l	1	
03942	N-Nitroso-di-n-propylamine	621-64-7	N.D.	10.	100.	ug/l	1	
03943	Nitrobenzene	98-95-3	N.D.	10.	100.	ug/l	1	
03944	Isophorone	78-59-1	N.D.	10.	100.	ug/l	1	
03945	bis(2-Chloroethoxy)methane	111-91-1	N.D.	10.	100.	ug/l	1	
03946	1,2,4-Trichlorobenzene	120-82-1	N.D.	10.	100.	ug/l	1	
03947	Naphthalene	91-20-3	N.D.	10.	100.	ug/l	1	
03948	Hexachlorobutadiene	87-68-3	N.D.	10.	100.	ug/l	1	

*This limit was used to evaluate the final result

ReferenceID: 9136611911041212I32

Lancaster Laboratories Analytical Report
2425 New Holland Pike, Lancaster, PA 17603

Sample Number: WW 4361317

03949	Hexachlorocyclopentadiene	77-47-4	N.D.	50.	250.	ug/l	1
03950	2-Chloronaphthalene	91-58-7	N.D.	10.	100.	ug/l	1
03951	Acenaphthylene	208-96-8	N.D.	10.	100.	ug/l	1
03952	Dimethylphthalate	131-11-3	N.D.	20.	100.	ug/l	1
04630	2-Methylphenol	95-48-7	N.D.	10.	100.	ug/l	1
04631	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	10.	100.	ug/l	1
04632	4-Methylphenol	106-44-5	N.D.	20.	100.	ug/l	1

3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.

04679 TCL SW846
Semivolatiles/Waters

03879	Dibenzofuran	132-64-9	N.D.	10.	100.	ug/l	1
03908	3-Nitroaniline	99-09-2	N.D.	10.	100.	ug/l	1
03909	4-Nitroaniline	100-01-6	N.D.	10.	100.	ug/l	1
03931	2,4-Dinitrophenol	51-28-5	N.D.	200.	600.	ug/l	1
03932	4-Nitrophenol	100-02-7	N.D.	100.	500.	ug/l	1
03933	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	50.	250.	ug/l	1
03934	Pentachlorophenol	87-86-5	N.D.	30.	250.	ug/l	1
03953	2,6-Dinitrotoluene	606-20-2	N.D.	10.	100.	ug/l	1
03954	Acenaphthene	83-32-9	N.D.	10.	100.	ug/l	1
03955	2,4-Dinitrotoluene	121-14-2	N.D.	10.	100.	ug/l	1
03956	Fluorene	86-73-7	N.D.	10.	100.	ug/l	1
03957	4-Chlorophenyl-phenylether	7005-72-3	N.D.	10.	100.	ug/l	1
03958	Diethylphthalate	84-66-2	N.D.	20.	100.	ug/l	1
03960	N-Nitrosodiphenylamine	86-30-6	N.D.	20.	100.	ug/l	1

N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.

03961	4-Bromophenyl-phenylether	101-55-3	N.D.	10.	100.	ug/l	1
03962	Hexachlorobenzene	118-74-1	N.D.	10.	100.	ug/l	1
03963	Phenanthrene	85-01-8	N.D.	10.	100.	ug/l	1
03964	Anthracene	120-12-7	N.D.	10.	100.	ug/l	1
03965	Di-n-butylphthalate	84-74-2	N.D.	20.	100.	ug/l	1
03966	Fluoranthene	206-44-0	N.D.	10.	100.	ug/l	1
03967	Pyrene	129-00-0	N.D.	10.	100.	ug/l	1
03969	Butylbenzylphthalate	85-68-7	N.D.	20.	100.	ug/l	1
03970	Benzo (a) anthracene	56-55-3	N.D.	10.	100.	ug/l	1
03971	Chrysene	218-01-9	N.D.	10.	100.	ug/l	1
03972	3,3'-Dichlorobenzidine	91-94-1	N.D.	10.	100.	ug/l	1
03973	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	20.	100.	ug/l	1
03974	Di-n-octylphthalate	117-84-0	N.D.	20.	100.	ug/l	1
03975	Benzo (b) fluoranthene	205-99-2	N.D.	10.	100.	ug/l	1
03976	Benzo (k) fluoranthene	207-08-9	N.D.	10.	100.	ug/l	1
03977	Benzo (a) pyrene	50-32-8	N.D.	10.	100.	ug/l	1
03978	Indeno (1,2,3-cd) pyrene	193-39-5	N.D.	10.	100.	ug/l	1
03979	Dibenz (a,h) anthracene	53-70-3	N.D.	10.	100.	ug/l	1
03980	Benzo (g,h,i) perylene	191-24-2	N.D.	10.	100.	ug/l	1
04684	Carbazole	86-74-8	N.D.	10.	100.	ug/l	1

Due to sample matrix interferences observed during the extraction, the normal reporting limits could not be obtained.

02300 UST-Unleaded Waters by 8260B

05401	Benzene	71-43-2	N.D.	0.5	5.	ug/l	1
05407	Toluene	108-88-3	N.D.	0.7	5.	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.8	5.	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.8	5.	ug/l	1

*This limit was used to evaluate the final result

Lancaster Laboratories Analytical Report
2425 New Holland Pike, Lancaster, PA 17603

Sample Number: WW 4361317

Trip blank vials were not received by the laboratory for this sample group.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00259	Mercury	SW-846 7470A	1	09/29/2004 13:11	Damary Valentin	1
01750	Calcium	SW-846 6010B	1	10/16/2004 09:26	Damary Valentin	1
01757	Magnesium	SW-846 6010B	1	10/16/2004 09:26	Damary Valentin	1
01767	Sodium	SW-846 6010B	2	10/27/2004 00:26	Donna R Sackett	10
07035	Arsenic	SW-846 6010B	2	10/16/2004 09:26	Damary Valentin	1
07036	Selenium	SW-846 6010B	1	10/19/2004 08:41	Heidi L Ortenzi	1
07046	Barium	SW-846 6010B	1	10/16/2004 09:26	Damary Valentin	1
07049	Cadmium	SW-846 6010B	1	10/16/2004 09:26	Damary Valentin	1
07051	Chromium	SW-846 6010B	1	10/16/2004 09:26	Damary Valentin	1
07055	Lead	SW-846 6010B	1	10/16/2004 09:26	Damary Valentin	1
07066	Silver	SW-846 6010B	1	10/16/2004 09:26	Damary Valentin	1
00200	pH	EPA 150.1	1	09/25/2004 23:05	Nicole R Rohrer	1
00201	Alkalinity to pH 8.3	EPA 310.1	1	09/30/2004 08:12	Susan A Engle	1
00202	Alkalinity to pH 4.5	EPA 310.1	1	09/30/2004 08:12	Susan A Engle	1
00212	Total Dissolved Solids	EPA 160.1	1	09/28/2004 14:18	Anne L Kuenzli	1
00224	Chloride	EPA 300.0	1	09/28/2004 14:37	Shannon L Phillips	500
00228	Sulfate	EPA 300.0	1	09/28/2004 14:37	Shannon L Phillips	500
00368	Nitrate Nitrogen	EPA 300.0	1	09/25/2004 13:26	Kyle W Eckenroad	5
04678	TCL SW846	SW-846 8270C	1	09/29/2004 19:40	Timothy J Trees	1
	Semivolatiles/Waters					
04679	TCL SW846	SW-846 8270C	1	09/29/2004 19:40	Timothy J Trees	1
	Semivolatiles/Waters					
02300	UST-Unleaded Waters by 8260B	SW-846 8260B	1	10/05/2004 18:30	Ryan V Nolt	1

*This limit was used to evaluate the final result

ReferenceID: 9136611911041212I32

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

N.D.	none detected	BMQL	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	MPN	Most Probable Number
IU	International Units	CP Units	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	NTU	nephelometric turbidity units
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
ug	microgram(s)	mg	milligram(s)
ml	milliliter(s)	l	liter(s)
m3	cubic meter(s)	ul	microliter(s)
<	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
J	estimated value - The result is $\geq$ the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	B	Value is $<$ CRDL, but $\geq$ IDL
B	Analyte was also detected in the blank	E	Estimated due to interference
C	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	S	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	U	Compound was not detected
P	Concentration difference between primary and confirmation columns $>25\%$	W	Post digestion spike out of control limits
U	Compound was not detected	*	Duplicate analysis not within control limits
X,Y,Z	Defined in case narrative	+	Correlation coefficient for MSA <0.995

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Analysis Report

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Lancaster Laboratories Sample No. WW 4361318

WMW-7 Water Sample

Site# 6051

Wingate Fractionation Plant-Gallup, NM

Collected: 09/24/2004 15:20 by KH

Account Number: 11288

Submitted: 09/25/2004 09:30

Reported: 10/27/2004 at 08:03

Discard: 11/27/2004

ConocoPhillips

P.O. Box 2197

Houston TX 77252

WMW7-

CAT			As Received	As Received	As Received		Dilution
No.	Analysis Name	CAS Number	Result	Method	Limit of	Units	Factor
				Detection	Quantitation		
				Limit*			
00259	Mercury	7439-97-6	N.D.	0.000028	0.00020	mg/l	1
01750	Calcium	7440-70-2	35.5	0.0479	0.200	mg/l	1
01757	Magnesium	7439-95-4	15.8	0.0193	0.100	mg/l	1
01767	Sodium	7440-23-5	362.	4.62	10.0	mg/l	10
07035	Arsenic	7440-38-2	N.D.	0.0047	0.0100	mg/l	1
07036	Selenium	7782-49-2	N.D.	0.0059	0.0100	mg/l	1
07046	Barium	7440-39-3	0.179	0.00045	0.0050	mg/l	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	mg/l	1
07051	Chromium	7440-47-3	0.0074	0.0025	0.0050	mg/l	1
07055	Lead	7439-92-1	N.D.	0.0100	0.0200	mg/l	1
07066	Silver	7440-22-4	N.D.	0.0020	0.0050	mg/l	1
00200	pH	n.a.	7.7	0.010	0.010	Std.	1
						Units	
00201	Alkalinity to pH 8.3	n.a.	N.D.	0.41	2.0	mg/l	1
						as	
						CaCO3	
00202	Alkalinity to pH 4.5	n.a.	526.	0.41	2.0	mg/l	1
						as	
						CaCO3	
00212	Total Dissolved Solids	n.a.	1,200.	38.8	120.	mg/l	1
00224	Chloride	16887-00-6	63.7	15.0	20.0	mg/l	50
00228	Sulfate	14808-79-8	309.	15.0	50.0	mg/l	50
00368	Nitrate Nitrogen	14797-55-8	N.D.	0.40	0.50	mg/l	5
This sample was analyzed past the 48 hour hold time for Nitrate Nitrogen.							
04678	TCL SW846						
	Semivolatiles/Waters						
03871	4-Chloroaniline	106-47-8	N.D.	1.	10.	ug/l	1
03905	2-Methylnaphthalene	91-57-6	N.D.	1.	10.	ug/l	1
03907	2-Nitroaniline	88-74-4	N.D.	1.	10.	ug/l	1
03922	2,4,5-Trichlorophenol	95-95-4	N.D.	1.	10.	ug/l	1
03924	2-Chlorophenol	95-57-8	N.D.	1.	10.	ug/l	1
03925	Phenol	108-95-2	N.D.	1.	10.	ug/l	1
03926	2-Nitrophenol	88-75-5	N.D.	1.	10.	ug/l	1
03927	2,4-Dimethylphenol	105-67-9	N.D.	1.	10.	ug/l	1
03928	2,4-Dichlorophenol	120-83-2	N.D.	1.	10.	ug/l	1
03929	4-Chloro-3-methylphenol	59-50-7	N.D.	1.	10.	ug/l	1
03930	2,4,6-Trichlorophenol	88-06-2	N.D.	1.	10.	ug/l	1
03936	bis(2-Chloroethyl) ether	111-44-4	N.D.	1.	10.	ug/l	1
03937	1,3-Dichlorobenzene	541-73-1	N.D.	1.	10.	ug/l	1
03938	1,4-Dichlorobenzene	106-46-7	N.D.	1.	10.	ug/l	1

*=This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. WW 4361318

WMW-7 Water Sample

Site# 6051

Wingate Fractionation Plant-Gallup, NM

Collected: 09/24/2004 15:20

by KH

Account Number: 11288

Submitted: 09/25/2004 09:30

Reported: 10/27/2004 at 08:03

Discard: 11/27/2004

ConocoPhillips

P.O. Box 2197

Houston TX 77252

WMW7-

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
03939	1,2-Dichlorobenzene	95-50-1	N.D.	1.	10.	ug/l	1
03941	Hexachloroethane	67-72-1	N.D.	1.	10.	ug/l	1
03942	N-Nitroso-di-n-propylamine	621-64-7	N.D.	1.	10.	ug/l	1
03943	Nitrobenzene	98-95-3	N.D.	1.	10.	ug/l	1
03944	Isophorone	78-59-1	N.D.	1.	10.	ug/l	1
03945	bis(2-Chloroethoxy)methane	111-91-1	N.D.	1.	10.	ug/l	1
03946	1,2,4-Trichlorobenzene	120-82-1	N.D.	1.	10.	ug/l	1
03947	Naphthalene	91-20-3	N.D.	1.	10.	ug/l	1
03948	Hexachlorobutadiene	87-68-3	N.D.	1.	10.	ug/l	1
03949	Hexachlorocyclopentadiene	77-47-4	N.D.	5.	25.	ug/l	1
03950	2-Chloronaphthalene	91-58-7	N.D.	1.	10.	ug/l	1
03951	Acenaphthylene	208-96-8	N.D.	1.	10.	ug/l	1
03952	Dimethylphthalate	131-11-3	N.D.	2.	10.	ug/l	1
04680	2-Methylphenol	95-48-7	N.D.	1.	10.	ug/l	1
04681	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	1.	10.	ug/l	1
04682	4-Methylphenol	106-44-5	N.D.	2.	10.	ug/l	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04679	TCL SW846 Semivolatiles/Waters						
03879	Dibenzofuran	132-64-9	N.D.	1.	10.	ug/l	1
03908	3-Nitroaniline	99-09-2	N.D.	1.	10.	ug/l	1
03909	4-Nitroaniline	100-01-6	N.D.	1.	10.	ug/l	1
03931	2,4-Dinitrophenol	51-28-5	N.D.	20.	60.	ug/l	1
03932	4-Nitrophenol	100-02-7	N.D.	10.	50.	ug/l	1
03933	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5.	25.	ug/l	1
03934	Pentachlorophenol	87-86-5	N.D.	3.	25.	ug/l	1
03953	2,6-Dinitrotoluene	606-20-2	N.D.	1.	10.	ug/l	1
03954	Acenaphthene	83-32-9	N.D.	1.	10.	ug/l	2
03955	2,4-Dinitrotoluene	121-14-2	N.D.	1.	10.	ug/l	1
03956	Fluorene	86-73-7	N.D.	1.	10.	ug/l	1
03957	4-Chlorophenyl-phenylether	7005-72-3	N.D.	1.	10.	ug/l	1
03958	Diethylphthalate	84-66-2	N.D.	2.	10.	ug/l	1
03960	N-Nitrosodiphenylamine	86-30-6	N.D.	2.	10.	ug/l	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
03961	4-Bromophenyl-phenylether	101-55-3	N.D.	1.	10.	ug/l	1
03962	Hexachlorobenzene	118-74-1	N.D.	1.	10.	ug/l	1
03963	Phenanthrene	85-01-8	N.D.	1.	10.	ug/l	1

*=This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. WW 4361318

WMW-7 Water Sample

Site# 6051

Wingate Fractionation Plant-Gallup, NM

Collected: 09/24/2004 15:20 by KH

Account Number: 11288

Submitted: 09/25/2004 09:30

Reported: 10/27/2004 at 08:03

Discard: 11/27/2004

ConocoPhillips

P.O. Box 2197

Houston TX 77252

WMW7-

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
03964	Anthracene	120-12-7	N.D.	1.	10.	ug/l	1
03965	Di-n-butylphthalate	84-74-2	7.	2.	10.	ug/l	1
03966	Fluoranthene	206-44-0	N.D.	1.	10.	ug/l	1
03967	Pyrene	129-00-0	N.D.	1.	10.	ug/l	1
03969	Butylbenzylphthalate	85-68-7	N.D.	2.	10.	ug/l	1
03970	Benzo(a)anthracene	56-55-3	N.D.	1.	10.	ug/l	1
03971	Chrysene	218-01-9	N.D.	1.	10.	ug/l	1
03972	3,3'-Dichlorobenzidine	91-94-1	N.D.	1.	10.	ug/l	1
03973	bis(2-Ethylhexyl)phthalate	117-81-7	2.	2.	10.	ug/l	1
03974	Di-n-octylphthalate	117-84-0	N.D.	2.	10.	ug/l	1
03975	Benzo(b)fluoranthene	205-99-2	N.D.	1.	10.	ug/l	1
03976	Benzo(k)fluoranthene	207-08-9	N.D.	1.	10.	ug/l	1
03977	Benzo(a)pyrene	50-32-8	N.D.	1.	10.	ug/l	1
03978	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	1.	10.	ug/l	1
03979	Dibenz(a,h)anthracene	53-70-3	N.D.	1.	10.	ug/l	1
03980	Benzo(g,h,i)perylene	191-24-2	N.D.	1.	10.	ug/l	1
04684	Carbazole	86-74-8	N.D.	1.	10.	ug/l	1
02300	UST-Unleaded Waters by 8260B						
05401	Benzene	71-43-2	N.D.	0.5	5.	ug/l	1
05407	Toluene	108-88-3	N.D.	0.7	5.	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.8	5.	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.8	5.	ug/l	1

Trip blank vials were not received by the laboratory for this sample group.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
00259	Mercury	SW-846 7470A	1	09/29/2004 13:13	Damary Valentin	1
01750	Calcium	SW-846 6010B	1	10/16/2004 09:30	Damary Valentin	1
01757	Magnesium	SW-846 6010B	1	10/16/2004 09:30	Damary Valentin	1
01767	Sodium	SW-846 6010B	2	10/27/2004 00:29	Donna R Sackett	10
07035	Arsenic	SW-846 6010B	1	10/19/2004 08:47	Heidi L Ortenzi	1
07036	Selenium	SW-846 6010B	1	10/19/2004 08:47	Heidi L Ortenzi	1
07046	Barium	SW-846 6010B	1	10/16/2004 09:30	Damary Valentin	1
07049	Cadmium	SW-846 6010B	1	10/16/2004 09:30	Damary Valentin	1
07051	Chromium	SW-846 6010B	1	10/16/2004 09:30	Damary Valentin	1

*=This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. WW 4361318

WMW-7 Water Sample

Site# 6051

Wingate Fractionation Plant-Gallup, NM

Collected: 09/24/2004 15:20 by KH

Account Number: 11288

Submitted: 09/25/2004 09:30

ConocoPhillips

Reported: 10/27/2004 at 08:03

P.O. Box 2197

Discard: 11/27/2004

Houston TX 77252

WMW7-							
07055	Lead	SW-846 6010B	1	10/16/2004 09:30	Damary Valentin	1	
07066	Silver	SW-846 6010B	1	10/16/2004 09:30	Damary Valentin	1	
00200	pH	EPA 150.1	1	09/25/2004 23:05	Nicole R Rohrer	1	
00201	Alkalinity to pH 8.3	EPA 310.1	1	09/30/2004 08:12	Susan A Engle	1	
00202	Alkalinity to pH 4.5	EPA 310.1	1	09/30/2004 08:12	Susan A Engle	1	
00212	Total Dissolved Solids	EPA 160.1	1	09/28/2004 14:18	Anne L Kuenzli	1	
00224	Chloride	EPA 300.0	1	09/28/2004 15:37	Shannon L Phillips	50	
00228	Sulfate	EPA 300.0	1	09/28/2004 15:37	Shannon L Phillips	50	
00368	Nitrate Nitrogen	EPA 300.0	1	09/28/2004 15:22	Shannon L Phillips	5	
04678	TCL SW846	SW-846 8270C	1	09/29/2004 20:01	Timothy J Trees	1	
	Semivolatiles/Waters						
04679	TCL SW846	SW-846 8270C	1	09/29/2004 20:01	Timothy J Trees	1	
	Semivolatiles/Waters						
02300	UST-Unleaded Waters by	SW-846 8260B	1	10/05/2004 18:51	Ryan V Nolt	1	
	8260B						
00813	BNA Water Extraction	SW-846 3510C	1	09/29/2004 07:15	Danette S Blystone	1	
01163	GC/MS VOA Water Prep	SW-846 5030B	1	10/05/2004 18:51	Ryan V Nolt	n.a.	
01848	WW SW846 ICP Digest (tot	SW-846 3005A	1	09/29/2004 08:00	Suzette L Lehman	1	
	rec)						
05713	WW SW846 Hg Digest	SW-846 7470A	1	09/29/2004 04:30	Deborah A Krady	1	

*=This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. WW 4361319

WMW-2 Water Sample

Site# 6051

Wingate Fractionation Plant-Gallup, NM

Collected: 09/24/2004 15:45

by KH

Account Number: 11288

Submitted: 09/25/2004 09:30

Reported: 10/27/2004 at 08:04

Discard: 11/27/2004

ConocoPhillips

P.O. Box 2197

Houston TX 77252

WMW2-

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
00259	Mercury	7439-97-6	N.D.	0.000028	0.00020	mg/l	1
01750	Calcium	7440-70-2	57.2	0.0479	0.200	mg/l	1
01757	Magnesium	7439-95-4	33.8	0.0193	0.100	mg/l	1
01767	Sodium	7440-23-5	1,510.	46.2	100.	mg/l	100
07035	Arsenic	7440-38-2	N.D.	0.0047	0.0100	mg/l	1
07036	Selenium	7782-49-2	N.D.	0.0059	0.0100	mg/l	1
07046	Barium	7440-39-3	0.421	0.00045	0.0050	mg/l	1
07049	Cadmium	7440-43-9	0.0036	0.00076	0.0050	mg/l	1
07051	Chromium	7440-47-3	N.D.	0.0025	0.0050	mg/l	1
07055	Lead	7439-92-1	N.D.	0.0100	0.0200	mg/l	1
07066	Silver	7440-22-4	N.D.	0.0020	0.0050	mg/l	1
00200	pH	n.a.	7.6	0.010	0.010	Std.	1
00201	Alkalinity to pH 8.3	n.a.	N.D.	0.41	2.0	mg/l as CaCO3	1
00202	Alkalinity to pH 4.5	n.a.	2,110.	0.41	2.0	mg/l as CaCO3	1
00212	Total Dissolved Solids	n.a.	4,220.	194.	600.	mg/l	1
00224	Chloride	16887-00-6	936.	75.0	100.	mg/l	250
00228	Sulfate	14808-79-8	N.D.	1.5	5.0	mg/l	5
00368	Nitrate Nitrogen	14797-55-8	N.D.	0.40	0.50	mg/l	5
This sample was analyzed past the 48 hour hold time for Nitrate Nitrogen.							
04678	TCL SW846 Semivolatiles/Waters						
03871	4-Chloroaniline	106-47-8	N.D.	1.	10.	ug/l	1
03905	2-Methylnaphthalene	91-57-6	14.	1.	10.	ug/l	1
03907	2-Nitroaniline	88-74-4	N.D.	1.	10.	ug/l	1
03922	2,4,5-Trichlorophenol	95-95-4	N.D.	1.	10.	ug/l	1
03924	2-Chlorophenol	95-57-8	N.D.	1.	10.	ug/l	1
03925	Phenol	108-95-2	34.	1.	10.	ug/l	1
03926	2-Nitrophenol	88-75-5	N.D.	1.	10.	ug/l	1
03927	2,4-Dimethylphenol	105-67-9	5.	1.	10.	ug/l	1
03928	2,4-Dichlorophenol	120-83-2	N.D.	1.	10.	ug/l	1
03929	4-Chloro-3-methylphenol	59-50-7	N.D.	1.	10.	ug/l	1
03930	2,4,6-Trichlorophenol	88-06-2	N.D.	1.	10.	ug/l	1
03936	bis(2-Chloroethyl)ether	111-44-4	N.D.	1.	10.	ug/l	1
03937	1,3-Dichlorobenzene	541-73-1	N.D.	1.	10.	ug/l	1
03938	1,4-Dichlorobenzene	106-46-7	N.D.	1.	10.	ug/l	1

*=This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. WW 4361319

WMW-2 Water Sample

Site# 6051

Wingate Fractionation Plant-Gallup, NM

Collected: 09/24/2004 15:45 by KH

Account Number: 11288

Submitted: 09/25/2004 09:30

Reported: 10/27/2004 at 08:04

Discard: 11/27/2004

ConocoPhillips

P.O. Box 2197

Houston TX 77252

WMW2-

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
03939	1,2-Dichlorobenzene	95-50-1	N.D.	1.	10.	ug/l	1
03941	Hexachloroethane	67-72-1	N.D.	1.	10.	ug/l	1
03942	N-Nitroso-di-n-propylamine	621-64-7	N.D.	1.	10.	ug/l	1
03943	Nitrobenzene	98-95-3	N.D.	1.	10.	ug/l	1
03944	Isophorone	78-59-1	N.D.	1.	10.	ug/l	1
03945	bis(2-Chloroethoxy)methane	111-91-1	N.D.	1.	10.	ug/l	1
03946	1,2,4-Trichlorobenzene	120-82-1	N.D.	1.	10.	ug/l	1
03947	Naphthalene	91-20-3	21.	1.	10.	ug/l	1
03948	Hexachlorobutadiene	87-68-3	N.D.	1.	10.	ug/l	1
03949	Hexachlorocyclopentadiene	77-47-4	N.D.	5.	24.	ug/l	1
03950	2-Chloronaphthalene	91-58-7	N.D.	1.	10.	ug/l	1
03951	Acenaphthylene	208-96-8	N.D.	1.	10.	ug/l	1
03952	Dimethylphthalate	131-11-3	N.D.	2.	10.	ug/l	1
04680	2-Methylphenol	95-48-7	N.D.	1.	10.	ug/l	1
04681	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	1.	10.	ug/l	1
04682	4-Methylphenol	106-44-5	3.	2.	10.	ug/l	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04679	TCL SW846 Semivolatiles/Waters						
03879	Dibenzofuran	132-64-9	N.D.	1.	10.	ug/l	1
03908	3-Nitroaniline	99-09-2	N.D.	1.	10.	ug/l	1
03909	4-Nitroaniline	100-01-6	N.D.	1.	10.	ug/l	1
03931	2,4-Dinitrophenol	51-28-5	N.D.	19.	58.	ug/l	1
03932	4-Nitrophenol	100-02-7	N.D.	10.	49.	ug/l	1
03933	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5.	24.	ug/l	1
03934	Pentachlorophenol	87-86-5	N.D.	3.	24.	ug/l	1
03953	2,6-Dinitrotoluene	606-20-2	N.D.	1.	10.	ug/l	1
03954	Acenaphthene	83-32-9	2.	1.	10.	ug/l	1
03955	2,4-Dinitrotoluene	121-14-2	N.D.	1.	10.	ug/l	1
03956	Fluorene	86-73-7	1.	1.	10.	ug/l	1
03957	4-Chlorophenyl-phenylether	7005-72-3	N.D.	1.	10.	ug/l	1
03958	Diethylphthalate	84-66-2	N.D.	2.	10.	ug/l	1
03960	N-Nitrosodiphenylamine	86-30-6	N.D.	2.	10.	ug/l	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
03961	4-Bromophenyl-phenylether	101-55-3	N.D.	1.	10.	ug/l	1
03962	Hexachlorobenzene	118-74-1	N.D.	1.	10.	ug/l	1
03963	Phenanthrene	85-01-8	2.	1.	10.	ug/l	1

*=This limit was used in the evaluation of the final result



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Lancaster Laboratories Sample No. WW 4361319

WMW-2 Water Sample

Site# 6051

Wingate Fractionation Plant-Gallup, NM

Collected: 09/24/2004 15:45 by KH

Account Number: 11288

Submitted: 09/25/2004 09:30

Reported: 10/27/2004 at 08:04

Discard: 11/27/2004

ConocoPhillips

P.O. Box 2197

Houston TX 77252

WMW2-

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
03964	Anthracene	120-12-7	N.D.	1.	10.	ug/l	1
03965	Di-n-butylphthalate	84-74-2	N.D.	2.	10.	ug/l	1
03966	Fluoranthene	206-44-0	N.D.	1.	10.	ug/l	1
03967	Pyrene	129-00-0	N.D.	1.	10.	ug/l	1
03969	Butylbenzylphthalate	85-68-7	N.D.	2.	10.	ug/l	1
03970	Benzo(a)anthracene	56-55-3	N.D.	1.	10.	ug/l	1
03971	Chrysene	218-01-9	N.D.	1.	10.	ug/l	1
03972	3,3'-Dichlorobenzidine	91-94-1	N.D.	1.	10.	ug/l	1
03973	bis(2-Ethylhexyl)phthalate	117-81-7	12.	2.	10.	ug/l	1
03974	Di-n-octylphthalate	117-84-0	11.	2.	10.	ug/l	1
03975	Benzo(b)fluoranthene	205-99-2	N.D.	1.	10.	ug/l	1
03976	Benzo(k)fluoranthene	207-08-9	N.D.	1.	10.	ug/l	1
03977	Benzo(a)pyrene	50-32-8	N.D.	1.	10.	ug/l	1
03978	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	1.	10.	ug/l	1
03979	Dibenz(a,h)anthracene	53-70-3	N.D.	1.	10.	ug/l	1
03980	Benzo(g,h,i)perylene	191-24-2	N.D.	1.	10.	ug/l	1
04684	Carbazole	86-74-8	N.D.	1.	10.	ug/l	1

02300 UST-Unleaded Waters by 8260B

05401	Benzene	71-43-2	28,000.	100.	1,000.	ug/l	200
05407	Toluene	108-88-3	450.	14.	100.	ug/l	20
05415	Ethylbenzene	100-41-4	110.	16.	100.	ug/l	20
06310	Xylene (Total)	1330-20-7	650.	16.	100.	ug/l	20

The reporting limits for the GC/MS volatile compounds were raised because sample dilution was necessary to bring target compounds into the calibration range of the system.

Trip blank vials were not received by the laboratory for this sample group.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00259	Mercury	SW-846 7470A	1	09/30/2004 08:14	Damary Valentin	1
01750	Calcium	SW-846 6010B	1	10/16/2004 09:35	Damary Valentin	1
01757	Magnesium	SW-846 6010B	1	10/16/2004 09:35	Damary Valentin	1
01767	Sodium	SW-846 6010B	2	10/27/2004 00:32	Donna R Sackett	100
07035	Arsenic	SW-846 6010B	1	10/19/2004 08:53	Heidi L Ortenzi	1

*=This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. WW 4361319

WMW-2 Water Sample

Site# 6051

Wingate Fractionation Plant-Gallup, NM

Collected: 09/24/2004 15:45 by KH

Account Number: 11288

Submitted: 09/25/2004 09:30

ConocoPhillips

Reported: 10/27/2004 at 08:04

P.O. Box 2197

Discard: 11/27/2004

Houston TX 77252

WMW2-							
07036	Selenium	SW-846 6010B	1	10/19/2004 08:53	Heidi L Ortenzi	1	
07046	Barium	SW-846 6010B	1	10/16/2004 09:35	Damary Valentin	1	
07049	Cadmium	SW-846 6010B	1	10/16/2004 09:35	Damary Valentin	1	
07051	Chromium	SW-846 6010B	1	10/16/2004 09:35	Damary Valentin	1	
07055	Lead	SW-846 6010B	1	10/16/2004 09:35	Damary Valentin	1	
07066	Silver	SW-846 6010B	1	10/16/2004 09:35	Damary Valentin	1	
00200	pH	EPA 150.1	1	09/25/2004 23:05	Nicole R Rohrer	1	
00201	Alkalinity to pH 8.3	EPA 310.1	1	09/30/2004 08:12	Susan A Engle	1	
00202	Alkalinity to pH 4.5	EPA 310.1	1	09/30/2004 08:12	Susan A Engle	1	
00212	Total Dissolved Solids	EPA 160.1	1	09/28/2004 14:18	Anne L Kuenzli	1	
00224	Chloride	EPA 300.0	1	09/28/2004 16:07	Shannon L Phillips	250	
00228	Sulfate	EPA 300.0	1	09/28/2004 15:52	Shannon L Phillips	5	
00368	Nitrate Nitrogen	EPA 300.0	1	09/28/2004 15:52	Shannon L Phillips	5	
04678	TCL SW846	SW-846 8270C	1	09/29/2004 20:21	Timothy J Trees	1	
	Semivolatiles/Waters						
04679	TCL SW846	SW-846 8270C	1	09/29/2004 20:21	Timothy J Trees	1	
	Semivolatiles/Waters						
02300	UST-Unleaded Waters by	SW-846 8260B	1	10/05/2004 22:16	Marla S Lord	20	
	8260B						
02300	UST-Unleaded Waters by	SW-846 8260B	1	10/06/2004 09:34	Shawn J Rice	200	
	8260B						
00813	BNA Water Extraction	SW-846 3510C	1	09/29/2004 07:15	Danette S Blystone	1	
01163	GC/MS VOA Water Prep	SW-846 5030B	1	10/05/2004 22:16	Marla S Lord	n.a.	
01163	GC/MS VOA Water Prep	SW-846 5030B	2	10/06/2004 09:34	Shawn J Rice	n.a.	
01848	WW SW846 ICP Digest (tot	SW-846 3005A	1	09/29/2004 08:00	Suzette L Lehman	1	
	rec)						
03713	WW SW846 Hg Digest	SW-846 7470A	1	09/30/2004 20:00	Nelli S Markaryan	1	

*=This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. WW 4361320

Trip Blank Water Sample

Site# 6051

Wingate Fractionation Plant-Gallup, NM

Collected: n.a.

Account Number: 11288

Submitted: 09/25/2004 09:30

Reported: 10/27/2004 at 08:04

Discard: 11/27/2004

ConocoPhillips

P.O. Box 2197

Houston TX 77252

WINTB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
02300	UST-Unleaded Waters by 8260B						
05401	Benzene	71-43-2	N.D.	0.5	5.	ug/l	1
05407	Toluene	108-88-3	N.D.	0.7	5.	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.8	5.	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.8	5.	ug/l	1

Trip blank vials were not received by the laboratory for this sample group.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
02300	UST-Unleaded Waters by 8260B	SW-846 8260B	1	10/05/2004 22:59	Marla S Lord	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	10/05/2004 22:59	Marla S Lord	n.a.

*=This limit was used in the evaluation of the final result



Analysis Report

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Quality Control Summary

Client Name: ConocoPhillips
Reported: 10/27/04 at 08:04 AM

Group Number: 913661

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 04269020002A pH	Sample number(s): 4361311-4361319				100		99-101		
Batch number: 04269023501A Biochemical Oxygen Demand	Sample number(s): 4361313-4361315				105	107	85-115	1	8
Batch number: 04269209101A Chloride	Sample number(s): 4361311-4361312,4361315				97		90-110		
Sulfate	N.D.	0.30	0.40	mg/l	97		89-110		
Nitrate Nitrogen	N.D.	0.30	1.0	mg/l	97		90-110		
	N.D.	0.080	0.10	mg/l	98				
Batch number: 04269209101B Chloride	Sample number(s): 4361313-4361314,4361316-4361319				97		90-110		
Sulfate	N.D.	0.30	0.40	mg/l	97		89-110		
Nitrate Nitrogen	N.D.	0.30	1.0	mg/l	97		90-110		
	N.D.	0.080	0.10	mg/l	98				
Batch number: 04271155301A Chemical Oxygen Demand	Sample number(s): 4361313-4361314				94		84-108		
Batch number: 04272021201A Total Dissolved Solids	Sample number(s): 4361311-4361319				102		80-120		
	N.D.	9.7	30.0	mg/l					
Batch number: 04272WAG026 4-Chloroaniline	Sample number(s): 4361311-4361319				86		32-120		
Dibenzofuran	N.D.	1.	10.	ug/l	89		65-110		
2-Methylnaphthalene	N.D.	1.	10.	ug/l	82		54-110		
2-Nitroaniline	N.D.	1.	10.	ug/l	97		73-115		
3-Nitroaniline	N.D.	1.	10.	ug/l	95		64-113		
4-Nitroaniline	N.D.	1.	10.	ug/l	86		56-107		
2,4,5-Trichlorophenol	N.D.	1.	10.	ug/l	94		70-115		
2-Chlorophenol	N.D.	1.	10.	ug/l	88		63-112		
Phenol	N.D.	1.	10.	ug/l	46		24-65		
2-Nitrophenol	N.D.	1.	10.	ug/l	96		68-118		
2,4-Dimethylphenol	N.D.	1.	10.	ug/l	84		60-107		
2,4-Dichlorophenol	N.D.	1.	10.	ug/l	87		66-110		
4-Chloro-3-methylphenol	N.D.	1.	10.	ug/l	88		70-112		
2,4,6-Trichlorophenol	N.D.	1.	10.	ug/l	96		69-111		
2,4-Dinitrophenol	N.D.	20.	60.	ug/l	96		46-121		
4-Nitrophenol	N.D.	10.	50.	ug/l	48		19-76		
4,6-Dinitro-2-methylphenol	N.D.	5.	25.	ug/l	103		56-130		
Pentachlorophenol	N.D.	3.	25.	ug/l	85		48-108		
bis(2-Chloroethyl)ether	N.D.	1.	10.	ug/l	82		57-110		
1,3-Dichlorobenzene	N.D.	1.	10.	ug/l	66		35-107		
1,4-Dichlorobenzene	N.D.	1.	10.	ug/l	66		37-109		

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.

Quality Control Summary

Client Name: ConocoPhillips
Reported: 10/27/04 at 08:04 AM

Group Number: 913661

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dichlorobenzene	N.D.	1.	10.	ug/l	69		42-105		
Hexachloroethane	N.D.	1.	10.	ug/l	57		18-110		
N-Nitroso-di-n-propylamine	N.D.	1.	10.	ug/l	81		56-109		
Nitrobenzene	N.D.	1.	10.	ug/l	83		61-111		
Isophorone	N.D.	1.	10.	ug/l	87		63-105		
bis(2-Chloroethoxy)methane	N.D.	1.	10.	ug/l	92		69-119		
1,2,4-Trichlorobenzene	N.D.	1.	10.	ug/l	75		45-109		
Naphthalene	N.D.	1.	10.	ug/l	82		58-108		
Hexachlorobutadiene	N.D.	1.	10.	ug/l	62		15-119		
Hexachlorocyclopentadiene	N.D.	5.	25.	ug/l	70		12-140		
2-Chloronaphthalene	N.D.	1.	10.	ug/l	72		57-95		
Acenaphthylene	N.D.	1.	10.	ug/l	87		65-120		
Dimethylphthalate	N.D.	2.	10.	ug/l	79		34-114		
2,6-Dinitrotoluene	N.D.	1.	10.	ug/l	94		70-108		
Acenaphthene	N.D.	1.	10.	ug/l	94		68-111		
2,4-Dinitrotoluene	N.D.	1.	10.	ug/l	99		75-122		
Fluorene	N.D.	1.	10.	ug/l	90		61-116		
4-Chlorophenyl-phenylether	N.D.	1.	10.	ug/l	93		65-110		
Diethylphthalate	N.D.	2.	10.	ug/l	89		61-110		
N-Nitrosodiphenylamine	N.D.	2.	10.	ug/l	95		63-104		
4-Bromophenyl-phenylether	N.D.	1.	10.	ug/l	88		67-110		
Hexachlorobenzene	N.D.	1.	10.	ug/l	91		68-113		
Phenanthrene	N.D.	1.	10.	ug/l	89		68-111		
Anthracene	N.D.	1.	10.	ug/l	91		68-108		
Di-n-butylphthalate	N.D.	2.	10.	ug/l	92		63-113		
Fluoranthene	N.D.	1.	10.	ug/l	90		66-108		
Pyrene	N.D.	1.	10.	ug/l	93		68-114		
Butylbenzylphthalate	N.D.	2.	10.	ug/l	93		63-120		
Benzo(a)anthracene	N.D.	1.	10.	ug/l	91		72-112		
Chrysene	N.D.	1.	10.	ug/l	91		70-111		
3,3'-Dichlorobenzidine	N.D.	1.	10.	ug/l	77		37-117		
bis(2-Ethylhexyl)phthalate	N.D.	2.	10.	ug/l	93		62-126		
Di-n-octylphthalate	N.D.	2.	10.	ug/l	92		58-118		
Benzo(b)fluoranthene	N.D.	1.	10.	ug/l	87		67-117		
Benzo(k)fluoranthene	N.D.	1.	10.	ug/l	94		67-120		
Benzo(a)pyrene	N.D.	1.	10.	ug/l	92		68-121		
Indeno(1,2,3-cd)pyrene	N.D.	1.	10.	ug/l	93		67-122		
Dibenz(a,h)anthracene	N.D.	1.	10.	ug/l	100		71-129		
Benzo(g,h,i)perylene	N.D.	1.	10.	ug/l	95		67-121		
2-Methylphenol	N.D.	1.	10.	ug/l	79		56-105		
2,2'-oxybis(1-Chloropropane)	N.D.	1.	10.	ug/l	95		53-134		
4-Methylphenol	N.D.	2.	10.	ug/l	83		51-98		
Carbazole	N.D.	1.	10.	ug/l	90		66-109		

Batch number: 04273020201A
Alkalinity to pH 4.5

Sample number(s): 4361311-4361312

100 98-103

Batch number: 042731848001

Sample number(s): 4361311-4361319

Calcium	N.D.	0.0479	0.200	mg/l	102		93-113
Magnesium	N.D.	0.0200	0.100	mg/l	95		93-110
Arsenic	N.D.	0.0047	0.0100	mg/l	100		92-109
Selenium	N.D.	0.0059	0.0100	mg/l	98		91-111
Barium	N.D.	0.00045	0.0050	mg/l	101		93-109
Cadmium	N.D.	0.00076	0.0050	mg/l	104		97-111
Chromium	N.D.	0.0025	0.0050	mg/l	101		95-112

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

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- (2) The background result was more than four times the spike added.

Quality Control Summary

Client Name: ConocoPhillips
Reported: 10/27/04 at 08:04 AM

Group Number: 913661

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Lead	N.D.	0.0100	0.0200	mg/l	100		93-110		
Silver	N.D.	0.0020	0.0050	mg/l	102		96-114		
Batch number: 042735713002	Sample number(s): 4361311-4361318								
Mercury	N.D.	0.00002	0.00020	mg/l	99		80-120		
		8							
Batch number: 042735713004	Sample number(s): 4361319								
Mercury	N.D.	0.00002	0.00020	mg/l	96		80-120		
		8							
Batch number: 04274020201A	Sample number(s): 4361313-4361319								
Alkalinity to pH 4.5					100		98-103		
Batch number: 04278155301A	Sample number(s): 4361315								
Chemical Oxygen Demand					95		84-108		
Batch number: 042951848006	Sample number(s): 4361311-4361319								
Sodium	N.D.	0.462	1.00	mg/l	97		89-112		
Batch number: P042782AA	Sample number(s): 4361311								
Benzene	N.D.	0.5	5.	ug/l	105	101	85-117	4	30
Toluene	N.D.	0.7	5.	ug/l	104	99	85-115	5	30
Ethylbenzene	N.D.	0.8	5.	ug/l	102	99	82-119	3	30
Xylene (Total)	N.D.	0.8	5.	ug/l	103	99	83-113	4	30
Batch number: P042791AA	Sample number(s): 4361312-4361318								
Benzene	N.D.	0.5	5.	ug/l	100		85-117		
Toluene	N.D.	0.7	5.	ug/l	104		85-115		
Ethylbenzene	N.D.	0.8	5.	ug/l	101		82-119		
Xylene (Total)	N.D.	0.8	5.	ug/l	102		83-113		
Batch number: P042792AA	Sample number(s): 4361319-4361320								
Benzene	N.D.	0.5	5.	ug/l	99	101	85-117	2	30
Toluene	N.D.	0.7	5.	ug/l	102	101	85-115	1	30
Ethylbenzene	N.D.	0.8	5.	ug/l	100	100	82-119	1	30
Xylene (Total)	N.D.	0.8	5.	ug/l	101	102	83-113	0	30
Batch number: P042792AB	Sample number(s): 4361319								
Benzene	N.D.	0.5	5.	ug/l	99	101	85-117	2	30

Sample Matrix Quality Control

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>BKG MAX</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 04269020002A	Sample number(s): 4361311-4361319							
pH					7.8	7.9	0	1
Batch number: 04269023501A	Sample number(s): 4361313-4361315							
Biochemical Oxygen Demand	94	102	63-153	9	10	N.D.	N.D.	7 (1)

*- Outside of specification

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Quality Control Summary

Client Name: ConocoPhillips
Reported: 10/27/04 at 08:04 AM

Group Number: 913661

Sample Matrix Quality Control

	MS	MSD	MS/MSD	RPD	BKG	DUP	DUP	Dup RPD
<u>Analysis Name</u>	<u>%REC</u>	<u>%REC</u>	<u>Limits</u>	<u>RPD</u>	<u>MAX</u>	<u>Conc</u>	<u>Conc</u>	<u>Max</u>
Batch number: 04269209101A	Sample number(s): 4361311-4361312, 4361315							
Chloride	97		90-110		145.	151.	4*	3
Sulfate	96		90-110		6.8	6.3	7* (1)	3
Nitrate Nitrogen	97		90-110		0.48	0.47	2 (1)	2
Batch number: 04269209101B	Sample number(s): 4361313-4361314, 4361316-4361319							
Chloride	102		90-110		29.6	29.1	2	3
Sulfate	96		90-110		4.4	4.2	4* (1)	3
Nitrate Nitrogen	99		90-110		N.D.	N.D.	0 (1)	2
Batch number: 04271155301A	Sample number(s): 4361313-4361314							
Chemical Oxygen Demand	83	89	72-118	2	6	32.4	31.6	3 (1)
Batch number: 04272021201A	Sample number(s): 4361311-4361319							
Total Dissolved Solids	100	99	60-140	1	5	1,020.	974.	5
Batch number: 04272WAG026	Sample number(s): 4361311-4361319							
4-Chloroaniline	76	72	30-116	6	30			
Dibenzofuran	89	92	60-110	3	30			
2-Methylnaphthalene	83	84	58-110	2	30			
2-Nitroaniline	95	98	66-117	3	30			
3-Nitroaniline	91	93	42-125	3	30			
4-Nitroaniline	84	86	55-106	3	30			
2,4,5-Trichlorophenol	93	99	52-124	7	30			
2-Chlorophenol	93	97	56-110	4	30			
Phenol	56	59	8-82	4	30			
2-Nitrophenol	97	99	32-146	2	30			
2,4-Dimethylphenol	89	90	29-134	1	30			
2,4-Dichlorophenol	86	91	59-113	5	30			
4-Chloro-3-methylphenol	86	91	69-112	6	30			
2,4,6-Trichlorophenol	96	97	48-127	1	30			
2,4-Dinitrophenol	91	94	20-151	3	30			
4-Nitrophenol	49	52	10-95	5	30			
4,6-Dinitro-2-methylphenol	99	104	20-146	5	30			
Pentachlorophenol	83	90	16-131	7	30			
bis(2-Chloroethyl)ether	79	83	55-108	5	30			
1,3-Dichlorobenzene	70	74	42-107	5	30			
1,4-Dichlorobenzene	68	74	38-112	8	30			
1,2-Dichlorobenzene	72	76	45-106	6	30			
Hexachloroethane	59	64	15-124	9	30			
N-Nitroso-di-n-propylamine	80	85	56-106	5	30			
Nitrobenzene	82	84	33-133	3	30			
Isophorone	86	88	60-106	2	30			
bis(2-Chloroethoxy)methane	93	92	66-119	0	30			
1,2,4-Trichlorobenzene	77	80	48-112	4	30			
Naphthalene	83	84	55-113	2	30			
Hexachlorobutadiene	64	66	23-122	3	30			
Hexachlorocyclopentadiene	65	67	10-146	4	30			
2-Chloronaphthalene	73	73	65-89	0	30			
Acenaphthylene	87	88	61-121	1	30			
Dimethylphthalate	53	53	14-118	1	30			
2,6-Dinitrotoluene	89	94	30-136	5	30			
Acenaphthene	93	94	59-120	2	30			
2,4-Dinitrotoluene	96	99	25-160	4	30			

*- Outside of specification

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Quality Control Summary

Client Name: ConocoPhillips
Reported: 10/27/04 at 08:04 AM

Group Number: 913661

Sample Matrix Quality Control

Analysis Name	MS	MSD	MS/MSD	RPD	BKG	DUP	DUP	Dup RPD
%REC	%REC	Limits	RPD	MAX	Conc	Conc	RPD	Max
Fluorene	89	91	52-121	2	30			
4-Chlorophenyl-phenylether	90	93	62-113	3	30			
Diethylphthalate	76	78	55-109	2	30			
N-Nitrosodiphenylamine	94	98	65-103	4	30			
4-Bromophenyl-phenylether	87	87	64-113	0	30			
Hexachlorobenzene	88	91	62-117	3	30			
Phenanthrene	87	91	56-125	5	30			
Anthracene	89	94	60-117	5	30			
Di-n-butylphthalate	84	87	62-111	4	30			
Fluoranthene	87	90	61-112	3	30			
Pyrene	91	93	63-117	2	30			
Butylbenzylphthalate	82	84	52-129	2	30			
Benzo(a)anthracene	91	94	72-112	3	30			
Chrysene	89	92	71-111	4	30			
3,3'-Dichlorobenzidine	80	78	26-116	2	30			
bis(2-Ethylhexyl)phthalate	87	88	61-118	1	30			
Di-n-octylphthalate	84	86	55-119	3	30			
Benzo(b)fluoranthene	87	86	69-114	1	30			
Benzo(k)fluoranthene	87	93	68-117	6	30			
Benzo(a)pyrene	88	92	70-115	4	30			
Indeno(1,2,3-cd)pyrene	92	96	69-118	4	30			
Dibenz(a,h)anthracene	99	102	73-126	3	30			
Benzo(g,h,i)perylene	95	99	70-117	4	30			
2-Methylphenol	106	110	30-115	2	30			
2,2'-oxybis(1-Chloropropane)	93	96	57-128	3	30			
4-Methylphenol	112	118	24-118	3	30			
Carbazole	89	96	65-113	7	30			

Batch number: 04273020201A	Sample number(s): 4361311-4361312							
Alkalinity to pH 8.3					N.D.	N.D.	0 (1)	4
Alkalinity to pH 4.5	65	85	64-130	13*	2	153.	154.	1
Batch number: 042731848001	Sample number(s): 4361311-4361319							
Calcium	(2)	(2)	78-122	2	20	236.	232.	2
Magnesium	(2)	(2)	75-125	3	20	63.8	63.1	1
Arsenic	98	99	86-119	2	20	N.D.	N.D.	0 (1)
Selenium	97	98	75-125	1	20	N.D.	N.D.	0 (1)
Barium	90	69*	82-113	26*	20	0.0256	0.0244	5 (1)
Cadmium	98	100	87-117	1	20	N.D.	N.D.	0 (1)
Chromium	98	98	86-118	0	20	N.D.	N.D.	0 (1)
Lead	97	98	87-118	1	20	N.D.	N.D.	0 (1)
Silver	105	107	75-125	1	20	N.D.	N.D.	0 (1)
Batch number: 042735713002	Sample number(s): 4361311-4361318							
Mercury	50*	48*	80-120	5	20	N.D.	N.D.	0 (1)
Batch number: 042735713004	Sample number(s): 4361319							
Mercury	115	111	80-120	4	20	N.D.	N.D.	0 (1)
Batch number: 04274020201A	Sample number(s): 4361313-4361319							
Alkalinity to pH 8.3						N.D.	N.D.	0 (1)
Alkalinity to pH 4.5	100	91	64-130	5*	2	180.	186.	3
Batch number: 04278155301A	Sample number(s): 4361315							

*- Outside of specification

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Quality Control Summary

Client Name: ConocoPhillips
Reported: 10/27/04 at 08:04 AM

Group Number: 913661

Sample Matrix Quality Control

Analysis Name	MS	MSD	MS/MSD	RPD	BKG	DUP	DUP	Dup RPD
	%REC	%REC	Limits	RPD	MAX	Conc	Conc	Max
Chemical Oxygen Demand	104	106	72-118	1	6	27.2	28.8	7
Batch number: 042951848006	Sample number(s): 4361311-4361319							
Sodium	(2)	(2)	75-125	0	20	291.	266.	20
Batch number: P042782AA	Sample number(s): 4361311							
Benzene	109		83-128					
Toluene	109		83-127					
Ethylbenzene	108		82-129					
Xylene (Total)	107		82-130					
Batch number: P042791AA	Sample number(s): 4361312-4361318							
Benzene	110	111	83-128	1	30			
Toluene	111	111	83-127	0	30			
Ethylbenzene	111	110	82-129	1	30			
Xylene (Total)	109	109	82-130	0	30			
Batch number: P042792AA	Sample number(s): 4361319-4361320							
Benzene	106		83-128					
Toluene	107		83-127					
Ethylbenzene	104		82-129					
Xylene (Total)	102		82-130					
Batch number: P042792AB	Sample number(s): 4361319							
Benzene	106		83-128					

Surrogate Quality Control

Analysis Name: TCL SW846 Semivolatiles/Waters

Batch number: 04272WAG026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5
4361311	53	37	87	84
4361312	52	33	85	79
4361313	52	33	93	83
4361314	49	31	86	80
4361315	51	32	86	82
4361316	53	33	87	79
4361317	45	29	85	78
4361318	50	32	90	83
4361319	47	34	84	84
Blank	50	33	90	79
LCS	55	36	88	83
MS	58	38	94	84
MSD	58	39	94	80
Limits:	22-91	10-80	43-145	54-124
	2-Fluorobiphenyl	Terphenyl-d14		
4361311	90	83		

*- Outside of specification

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Analysis Report

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Quality Control Summary

Client Name: ConocoPhillips
Reported: 10/27/04 at 08:04 AM

Group Number: 913661

Surrogate Quality Control

4361312	85	84
4361313	90	89
4361314	84	76
4361315	87	81
4361316	84	86
4361317	80	84
4361318	88	84
4361319	85	87
Blank	84	89
LCS	88	90
MS	91	87
MSD	88	84

Limits: 64-112 48-125

Analysis Name: UST-Unleaded Waters by 8260B

Batch number: P042782AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
4361311	108	104	104	102
Blank	109	105	105	104
LCS	108	104	103	103
LCSD	109	107	104	103
MS	108	104	104	105

Limits: 81-120 82-112 85-112 83-113

Analysis Name: UST-Unleaded Waters by 8260B

Batch number: P042791AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
4361312	107	105	107	102
4361313	108	105	107	102
4361314	107	106	106	102
4361315	108	105	106	102
4361316	109	107	107	103
4361317	108	104	107	102
4361318	109	107	106	102
Blank	108	107	107	102
LCS	109	104	107	103
MS	106	105	107	104
MSD	108	106	106	103

Limits: 81-120 82-112 85-112 83-113

Analysis Name: UST-Unleaded Waters by 8260B

Batch number: P042792AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
4361319	106	104	105	102
4361320	108	106	106	103
Blank	107	104	107	102
LCS	108	106	107	103
LCSD	109	106	106	103
MS	109	106	107	102

Limits: 81-120 82-112 85-112 83-113

*- Outside of specification

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Analysis Report

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Page 8 of 8

Quality Control Summary

Client Name: ConocoPhillips
Reported: 10/27/04 at 08:04 AM

Group Number: 913661

Surrogate Quality Control

Analysis Name: 8260 Master Scan (water)
Batch number: P042792AB

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
Blank	107	106	106	101
LCS	108	106	107	103
LCSD	109	106	106	103
MS	109	106	107	102
Limits:	81-120	82-112	85-112	83-113

*- Outside of specification

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ConocoPhillips Analysis Request/Chain of Custody



For Lancaster Laboratories use only
 Acct. #: 11288 Group #: 9136661 Sample #: 4361311-20

Analyses Requested List total number of containers in the box under each analysis.

SCR#: _____

Consultant Office: MAXIM PM: Rob Sengcloush
 Consultant Phone #: 505-237-8440 Fax #: 8656
 Site #: _____ WO #: _____
 Site Address: 68 El Paso Cr. Gallup, NM 87301
 WNO#: _____
 Sampler: Jilly Henderson 505-975-2563

Matrix

Preservation Codes

Preservative Codes

H = HCl T = Thiosulfate
 N = HNO₃ B = NaOH
 S = H₂SO₄ O = Other

Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water	Potable ☐ NPDES	Oil	Air	PTX 18226	8270	Cations/Anions	NO ₃	PHK	Cl, SO ₄ , PH, TDS	Tot. Coliform & Bact.	BOD	COD	Remarks
WMW-1	9-24-04	1115				X				X	X		X	X	X				
WMW-6	9-24-04	1005				X				X	X		X	X	X				
MW-2	9-24-04	1240				X				X	X		X	X	X				
MWR-1	9-24-04	1305				X				X	X		X	X	X	X	X	X	
MW3	9-24-05	1205				X				X	X		X	X	X	X	X	X	
MW-8	9-24-05	1355				X				X	X		X	X	X				
WMW-3	9-24-05	1430				X				X	X		X	X	X				
WMW-7	9-24-05	1520				X				X	X		X	X	X				
WMW-2	9-24-05	1545				X				X	X		X	X	X				

Turnaround Time Requested in Business Days (TAT) (please circle):

STD. TAT

5 day

48 hour

24 hour

other _____

Reporting Requirements (please circle)

NJ Reduced

NY ASP Cat. A

Raw Data

Diskette

NY ASP Cat. B

Full Type I

Other _____

Relinquished by:

Angela Conlan

Date

9-24

Time

1600

Received by:

Date

Time

Relinquished by:

Date

Time

Received by:

Date

Time

Relinquished by:

Date

Time

Received by:

Date

Time

Relinquished by:

Date

Time

Received by:

Date

Time

Relinquished by Commercial Carrier:

UPS

FedEx

Other

Temperature Upon Receipt

3.5

C°

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

N.D.	none detected	BMQL	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	MPN	Most Probable Number
IU	International Units	CP Units	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	NTU	nephelometric turbidity units
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
ug	microgram(s)	mg	milligram(s)
ml	milliliter(s)	l	liter(s)
m3	cubic meter(s)	ul	microliter(s)
<	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
J	estimated value - The result is $\geq$ the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns $>25\%$
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is $<CRDL$, but $\geq IDL$
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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Analysis Report

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ANALYTICAL RESULTS

Prepared for:

ConocoPhillips
P.O. Box 2197
Houston TX 77252

832-379-6415

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

SAMPLE GROUP

The sample group for this submittal is 913455. Samples arrived at the laboratory on Friday, September 24, 2004. The PO# for this group is 6051MAX001 and the release number is NEAL GOATES.

Client Description

West Pond Water Sample
East Pond Water Sample
WMW-5 Water Sample
WMW-4 Water Sample

Lancaster Labs Number

4360031
4360032
4360033
4360034

ELECTRONIC Maxim Technologies
COPY TO
1 COPY TO Maxim Technologies

Attn: Kelly Henderson

Attn: Robert Sengebush



Analysis Report

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Questions? Contact your Client Services Representative
Barbara A Weyandt at (717) 656-2300.

Respectfully Submitted,

A handwritten signature in cursive script that reads "Michele M. Turner".

Michele M. Turner
Manager



Analysis Report

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Page 1 of 4

Lancaster Laboratories Sample No. WW 4360031

West Pond Water Sample

Site# 6051

Wingate Fractionating Plant-Gallup, NM

Collected: 09/23/2004 12:45

by KH

Account Number: 11288

Submitted: 09/24/2004 09:10

Reported: 10/15/2004 at 21:27

Discard: 11/15/2004

ConocoPhillips

P.O. Box 2197

Houston TX 77252

WESTP

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
00259	Mercury	7439-97-6	N.D.	0.000028	0.00020	mg/l	1
01750	Calcium	7440-70-2	698.	0.240	1.00	mg/l	5
01757	Magnesium	7439-95-4	8,830.	0.400	2.00	mg/l	20
01767	Sodium	7440-23-5	57,900.	462.	1,000.	mg/l	1000
07035	Arsenic	7440-38-2	0.0362	0.0047	0.0100	mg/l	1
07036	Selenium	7782-49-2	0.0199	0.0059	0.0100	mg/l	1
07046	Barium	7440-39-3	0.0858	0.00045	0.0050	mg/l	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	mg/l	1
07051	Chromium	7440-47-3	0.0051	0.0025	0.0050	mg/l	1
07055	Lead	7439-92-1	N.D.	0.0100	0.0200	mg/l	1
07066	Silver	7440-22-4	N.D.	0.0020	0.0050	mg/l	1
00200	pH	n.a.	8.5	0.010	0.010	Std.	1
00201	Alkalinity to pH 8.3	n.a.	88.1	0.41	2.0	Units mg/l as CaCO3	1
00202	Alkalinity to pH 4.5	n.a.	469.	0.41	2.0	mg/l as CaCO3	1
00212	Total Dissolved Solids	n.a.	209,000.	7,760.	24,000.	mg/l	100
00224	Chloride	16887-00-6	90,300.	30,000.	40,000.	mg/l	100000
Matrix QC was performed on this sample for the Chloride analysis. Please see the attached QC Summary report for the parameter showing a matrix bias.							
00228	Sulfate	14808-79-8	29,500.	3,000.	10,000.	mg/l	10000
00235	Biochemical Oxygen Demand	n.a.	62.5	0.80	3.0	mg/l	1
The analysis for biochemical oxygen demand was initially performed on 9/24/04. The result was < 189 mg/l. Because the chosen aliquots did not yield acceptable final dissolved oxygen readings, the analysis was repeated on 9/30/04.							
00368	Nitrate Nitrogen	14797-55-8	N.D.	80.0	100.	mg/l	1000
Due to interferences from the sample matrix, the reporting limit for the Nitrate Nitrogen determination was increased.							
01553	Chemical Oxygen Demand	n.a.	1,210.	105.	400.	mg/l	50
08161	Tot Coli/E. coli (Quantit-tray)	n.a.	See Below			/100ml	n.a.
	Total Coliform	< 1.0	/100ml				
	E. coli	< 1.0	/100ml				
04678	TCL SW346 Semivolatiles/Waters						
03971	4-Chloroaniline	106-47-8	N.D.	1.	10.	ug/l	1
03905	2-Methylnaphthalene	91-57-6	N.D.	1.	10.	ug/l	1
03907	2-Nitroaniline	88-74-4	N.D.	1.	10.	ug/l	1

*=This limit was used in the evaluation of the final result



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Lancaster Laboratories Sample No. WW 4360031

West Pond Water Sample

Site# 6051

Wingate Fractionating Plant-Gallup, NM

Collected: 09/23/2004 12:45 by KH

Account Number: 11288

Submitted: 09/24/2004 09:10

Reported: 10/15/2004 at 21:27

Discard: 11/15/2004

ConocoPhillips

P.O. Box 2197

Houston TX 77252

WESTP

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
03922	2,4,5-Trichlorophenol	95-95-4	N.D.	1.	10.	ug/l	1
03924	2-Chlorophenol	95-57-8	N.D.	1.	10.	ug/l	1
03925	Phenol	108-95-2	N.D.	1.	10.	ug/l	1
03926	2-Nitrophenol	88-75-5	N.D.	1.	10.	ug/l	1
03927	2,4-Dimethylphenol	105-67-9	N.D.	1.	10.	ug/l	1
03928	2,4-Dichlorophenol	120-83-2	N.D.	1.	10.	ug/l	1
03929	4-Chloro-3-methylphenol	59-50-7	N.D.	1.	10.	ug/l	1
03930	2,4,6-Trichlorophenol	88-06-2	N.D.	1.	10.	ug/l	1
03936	bis(2-Chloroethyl)ether	111-44-4	N.D.	1.	10.	ug/l	1
03937	1,3-Dichlorobenzene	541-73-1	N.D.	1.	10.	ug/l	1
03938	1,4-Dichlorobenzene	106-46-7	N.D.	1.	10.	ug/l	1
03939	1,2-Dichlorobenzene	95-50-1	N.D.	1.	10.	ug/l	1
03941	Hexachloroethane	67-72-1	N.D.	1.	10.	ug/l	1
03942	N-Nitroso-di-n-propylamine	621-64-7	N.D.	1.	10.	ug/l	1
03943	Nitrobenzene	98-95-3	N.D.	1.	10.	ug/l	1
03944	Isophorone	78-59-1	N.D.	1.	10.	ug/l	1
03945	bis(2-Chloroethoxy)methane	111-91-1	N.D.	1.	10.	ug/l	1
03946	1,2,4-Trichlorobenzene	120-82-1	N.D.	1.	10.	ug/l	1
03947	Naphthalene	91-20-3	N.D.	1.	10.	ug/l	1
03948	Hexachlorobutadiene	87-68-3	N.D.	1.	10.	ug/l	1
03949	Hexachlorocyclopentadiene	77-47-4	N.D.	5.	25.	ug/l	1
03950	2-Chloronaphthalene	91-58-7	N.D.	1.	10.	ug/l	1
03951	Acenaphthylene	208-96-8	N.D.	1.	10.	ug/l	1
03952	Dimethylphthalate	131-11-3	N.D.	2.	10.	ug/l	1
04680	2-Methylphenol	95-48-7	N.D.	1.	10.	ug/l	1
04681	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	1.	10.	ug/l	1
04682	4-Methylphenol	106-44-5	N.D.	2.	10.	ug/l	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04679	TCL SW846 Semivolatiles/Waters						
03879	Dibenzofuran	132-64-9	N.D.	1.	10.	ug/l	1
03908	3-Nitroaniline	99-09-2	N.D.	1.	10.	ug/l	1
03909	4-Nitroaniline	100-01-6	N.D.	1.	10.	ug/l	1
03931	2,4-Dinitrophenol	51-28-5	N.D.	20.	60.	ug/l	1
03932	4-Nitrophenol	100-02-7	N.D.	10.	50.	ug/l	1
03933	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5.	25.	ug/l	1
03934	Pentachlorophenol	87-86-5	N.D.	3.	25.	ug/l	1
03953	2,6-Dinitrotoluene	606-20-2	N.D.	1.	10.	ug/l	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories Sample No. WW 4360031

West Pond Water Sample

Site# 6051

Wingate Fractionating Plant-Gallup, NM

Collected: 09/23/2004 12:45

by KH

Account Number: 11288

Submitted: 09/24/2004 09:10

Reported: 10/15/2004 at 21:27

Discard: 11/15/2004

ConocoPhillips

P.O. Box 2197

Houston TX 77252

WESTP

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
03954	Acenaphthene	83-32-9	N.D.	1.	10.	ug/l	1
03955	2,4-Dinitrotoluene	121-14-2	N.D.	1.	10.	ug/l	1
03956	Fluorene	86-73-7	N.D.	1.	10.	ug/l	1
03957	4-Chlorophenyl-phenylether	7005-72-3	N.D.	1.	10.	ug/l	1
03958	Diethylphthalate	84-66-2	N.D.	2.	10.	ug/l	1
03960	N-Nitrosodiphenylamine	86-30-6	N.D.	2.	10.	ug/l	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
03961	4-Bromophenyl-phenylether	101-55-3	N.D.	1.	10.	ug/l	1
03962	Hexachlorobenzene	118-74-1	N.D.	1.	10.	ug/l	1
03963	Phenanthrene	85-01-8	N.D.	1.	10.	ug/l	1
03964	Anthracene	120-12-7	N.D.	1.	10.	ug/l	1
03965	Di-n-butylphthalate	84-74-2	N.D.	2.	10.	ug/l	1
03966	Fluoranthene	206-44-0	N.D.	1.	10.	ug/l	1
03967	Pyrene	129-00-0	N.D.	1.	10.	ug/l	1
03969	Butylbenzylphthalate	85-68-7	N.D.	2.	10.	ug/l	1
03970	Benzo(a)anthracene	56-55-3	N.D.	1.	10.	ug/l	1
03971	Chrysene	218-01-9	N.D.	1.	10.	ug/l	1
03972	3,3'-Dichlorobenzidine	91-94-1	N.D.	1.	10.	ug/l	1
03973	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2.	10.	ug/l	1
03974	Di-n-octylphthalate	117-84-0	N.D.	2.	10.	ug/l	1
03975	Benzo(b)fluoranthene	205-99-2	N.D.	1.	10.	ug/l	1
03976	Benzo(k)fluoranthene	207-08-9	N.D.	1.	10.	ug/l	1
03977	Benzo(a)pyrene	50-32-8	N.D.	1.	10.	ug/l	1
03978	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	1.	10.	ug/l	1
03979	Dibenz(a,h)anthracene	53-70-3	N.D.	1.	10.	ug/l	1
03980	Benzo(g,h,i)perylene	191-24-2	N.D.	1.	10.	ug/l	1
04684	Carbazole	86-74-8	N.D.	1.	10.	ug/l	1

02300 UST-Unleaded Waters by 8260B

05401	Benzene	71-43-2	N.D.	10.	100.	ug/l	20
05407	Toluene	108-88-3	N.D.	14.	100.	ug/l	20
05415	Ethylbenzene	100-41-4	N.D.	16.	100.	ug/l	20
06310	Xylene (Total)	1330-20-7	N.D.	16.	100.	ug/l	20

The reporting limits for the GC/MS volatile compounds were raised due to sample foaming.

Trip blank vials were not received by the laboratory for this sample group.

*=This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. WW 4360031

West Pond Water Sample

Site# 6051

Wingate Fractionating Plant-Gallup, NM

Collected: 09/23/2004 12:45 by KH

Account Number: 11288

Submitted: 09/24/2004 09:10

ConocoPhillips

Reported: 10/15/2004 at 21:27

P.O. Box 2197

Discard: 11/15/2004

Houston TX 77252

WESTP

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
00259	Mercury	SW-846 7470A	1	09/30/2004 08:09	Damary Valentin	1
01750	Calcium	SW-846 6010B	1	09/30/2004 12:44	Deborah A Krady	5
01757	Magnesium	SW-846 6010B	2	09/30/2004 12:25	Deborah A Krady	20
01767	Sodium	SW-846 6010B	1	10/14/2004 02:56	Donna R Sackett	1000
07035	Arsenic	SW-846 6010B	1	09/30/2004 18:13	Donna R Sackett	1
07036	Selenium	SW-846 6010B	1	09/30/2004 18:13	Donna R Sackett	1
07046	Barium	SW-846 6010B	1	09/30/2004 12:39	Deborah A Krady	1
07049	Cadmium	SW-846 6010B	1	09/30/2004 12:39	Deborah A Krady	1
07051	Chromium	SW-846 6010B	1	09/30/2004 12:39	Deborah A Krady	1
07055	Lead	SW-846 6010B	1	09/30/2004 12:39	Deborah A Krady	1
07066	Silver	SW-846 6010B	1	09/30/2004 18:13	Donna R Sackett	1
00200	pH	EPA 150.1	1	09/24/2004 18:00	Luz M Groff	1
00201	Alkalinity to pH 8.3	EPA 310.1	1	09/28/2004 07:35	Susan A Engle	1
00202	Alkalinity to pH 4.5	EPA 310.1	1	09/28/2004 07:35	Susan A Engle	1
00212	Total Dissolved Solids	EPA 160.1	1	09/27/2004 10:22	Anne L Kuenzli	100
00224	Chloride	EPA 300.0	1	09/29/2004 03:45	Kyle W Eckenroad	100000
00228	Sulfate	EPA 300.0	1	09/29/2004 03:58	Kyle W Eckenroad	10000
00235	Biochemical Oxygen Demand	EPA 405.1	1	09/30/2004 22:30	Nicole R Rohrer	1
00368	Nitrate Nitrogen	EPA 300.0	2	09/25/2004 12:18	Kyle W Eckenroad	1000
01553	Chemical Oxygen Demand	EPA 410.2	1	09/27/2004 07:15	Susan A Engle	50
08161	Tot Coli/E. coli (Quantitative)	Stand Meth 19, 1995, 9223B	1	09/25/2004 15:00	Earl R Custer	n.a.
04678	TCL SW846 Semivolatiles/Waters	SW-846 8270C	1	10/01/2004 18:12	Jeffrey B Smith	1
04679	TCL SW846 Semivolatiles/Waters	SW-846 8270C	1	10/01/2004 18:12	Jeffrey B Smith	1
02300	UST-Unleaded Waters by 8260B	SW-846 8260B	1	09/30/2004 03:48	Seth J Good	20
00813	BNA Water Extraction	SW-846 3510C	1	09/28/2004 17:00	Elia R Botrous	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	09/30/2004 03:48	Seth J Good	n.a.
01848	WW SW846 ICP Digest (total rec)	SW-846 3005A	1	09/28/2004 21:00	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	09/29/2004 20:00	Nelli S Markaryan	1

*=This limit was used in the evaluation of the final result



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Lancaster Laboratories Sample No. WW 4360032

East Pond Water Sample

Site# 6051

Wingate Fractionating Plant-Gallup, NM

Collected: 09/23/2004 13:00

by KH

Account Number: 11288

Submitted: 09/24/2004 09:10

Reported: 10/15/2004 at 21:27

Discard: 11/15/2004

ConocoPhillips

P.O. Box 2197

Houston TX 77252

EASTP

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
00259	Mercury	7439-97-6	N.D.	0.000028	0.00020	mg/l	1
01750	Calcium	7440-70-2	1,080.	0.479	2.00	mg/l	10
01757	Magnesium	7439-95-4	625.	0.193	1.00	mg/l	10
01767	Sodium	7440-23-5	12,400.	92.4	200.	mg/l	200
07035	Arsenic	7440-38-2	N.D.	0.0047	0.0100	mg/l	1
07036	Selenium	7782-49-2	0.0061	0.0059	0.0100	mg/l	1
07046	Barium	7440-39-3	0.0730	0.00045	0.0050	mg/l	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	mg/l	1
07051	Chromium	7440-47-3	0.0029	0.0025	0.0050	mg/l	1
07055	Lead	7439-92-1	N.D.	0.0100	0.0200	mg/l	1
07066	Silver	7440-22-4	N.D.	0.0020	0.0050	mg/l	1
00200	pH	n.a.	9.8	0.010	0.010	Std.	1
00201	Alkalinity to pH 8.3	n.a.	52.6	0.41	2.0	mg/l as CaCO3	1
00202	Alkalinity to pH 4.5	n.a.	148.	0.41	2.0	mg/l as CaCO3	1
00212	Total Dissolved Solids	n.a.	46,200.	1,940.	6,000.	mg/l	10
00224	Chloride	16887-00-6	19,600.	1,500.	2,000.	mg/l	5000
00228	Sulfate	14808-79-8	6,690.	150.	500.	mg/l	500
00235	Biochemical Oxygen Demand	n.a.	18.9	0.80	3.0	mg/l	1
00368	Nitrate Nitrogen	14797-55-8	N.D.	0.40	0.50	mg/l	5
01553	Chemical Oxygen Demand	n.a.	150.	10.5	40.0	mg/l	5
08161	Tot Coli/E. coli (Quantitray)	n.a.	See Below			/100ml	n.a.
	Total Coliform	> 200.5	/100ml				
	E. coli	< 1.0	/100ml				
04678	TCL SW846 Semivolatiles/Waters						
03871	4-Chloroaniline	106-47-8	N.D.	1.	10.	ug/l	1
03905	2-Methylnaphthalene	91-57-6	N.D.	1.	10.	ug/l	1
03907	2-Nitroaniline	88-74-4	N.D.	1.	10.	ug/l	1
03922	2,4,5-Trichlorophenol	95-95-4	N.D.	1.	10.	ug/l	1
03924	2-Chlorophenol	95-57-8	N.D.	1.	10.	ug/l	1
03925	Phenol	108-95-2	N.D.	1.	10.	ug/l	1
03926	2-Nitrophenol	88-75-5	N.D.	1.	10.	ug/l	1
03927	2,4-Dimethylphenol	105-67-9	N.D.	1.	10.	ug/l	1
03928	2,4-Dichlorophenol	120-83-2	N.D.	1.	10.	ug/l	1
03929	4-Chloro-3-methylphenol	59-50-7	N.D.	1.	10.	ug/l	1

*=This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. WW 4360032

East Pond Water Sample

Site# 6051

Wingate Fractionating Plant-Gallup, NM

Collected: 09/23/2004 13:00

by KH

Account Number: 11288

Submitted: 09/24/2004 09:10

Reported: 10/15/2004 at 21:27

Discard: 11/15/2004

ConocoPhillips

P.O. Box 2197

Houston TX 77252

EASTP

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
03930	2,4,6-Trichlorophenol	88-06-2	N.D.	1.	10.	ug/l	1
03936	bis(2-Chloroethyl)ether	111-44-4	N.D.	1.	10.	ug/l	1
03937	1,3-Dichlorobenzene	541-73-1	N.D.	1.	10.	ug/l	1
03938	1,4-Dichlorobenzene	106-46-7	N.D.	1.	10.	ug/l	1
03939	1,2-Dichlorobenzene	95-50-1	N.D.	1.	10.	ug/l	1
03941	Hexachloroethane	67-72-1	N.D.	1.	10.	ug/l	1
03942	N-Nitroso-di-n-propylamine	621-64-7	N.D.	1.	10.	ug/l	1
03943	Nitrobenzene	98-95-3	N.D.	1.	10.	ug/l	1
03944	Isophorone	78-59-1	N.D.	1.	10.	ug/l	1
03945	bis(2-Chloroethoxy)methane	111-91-1	N.D.	1.	10.	ug/l	1
03946	1,2,4-Trichlorobenzene	120-82-1	N.D.	1.	10.	ug/l	1
03947	Naphthalene	91-20-3	N.D.	1.	10.	ug/l	1
03948	Hexachlorobutadiene	87-68-3	N.D.	1.	10.	ug/l	1
03949	Hexachlorocyclopentadiene	77-47-4	N.D.	5.	25.	ug/l	1
03950	2-Chloronaphthalene	91-58-7	N.D.	1.	10.	ug/l	1
03951	Acenaphthylene	208-96-8	N.D.	1.	10.	ug/l	1
03952	Dimethylphthalate	131-11-3	N.D.	2.	10.	ug/l	1
04680	2-Methylphenol	95-48-7	N.D.	1.	10.	ug/l	1
04681	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	1.	10.	ug/l	1
04682	4-Methylphenol	106-44-5	N.D.	2.	10.	ug/l	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04679	TCL SW846 Semivolatiles/Waters						
03879	Dibenzofuran	132-64-9	N.D.	1.	10.	ug/l	1
03908	3-Nitroaniline	99-09-2	N.D.	1.	10.	ug/l	1
03909	4-Nitroaniline	100-01-6	N.D.	1.	10.	ug/l	1
03931	2,4-Dinitrophenol	51-28-5	N.D.	20.	61.	ug/l	1
03932	4-Nitrophenol	100-02-7	N.D.	10.	51.	ug/l	1
03933	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5.	25.	ug/l	1
03934	Pentachlorophenol	87-86-5	N.D.	3.	25.	ug/l	1
03953	2,6-Dinitrotoluene	606-20-2	N.D.	1.	10.	ug/l	1
03954	Acenaphthene	83-32-9	N.D.	1.	10.	ug/l	1
03955	2,4-Dinitrotoluene	121-14-2	N.D.	1.	10.	ug/l	1
03956	Fluorene	86-73-7	N.D.	1.	10.	ug/l	1
03957	4-Chlorophenyl-phenylether	7005-72-3	N.D.	1.	10.	ug/l	1
03958	Diethylphthalate	84-66-2	N.D.	2.	10.	ug/l	1
03960	N-Nitrosodiphenylamine	86-30-6	N.D.	2.	10.	ug/l	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine.							

*=This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. WW 4360032

East Pond Water Sample

Site# 6051

Wingate Fractionating Plant-Gallup, NM

Collected: 09/23/2004 13:00

by KH

Account Number: 11288

Submitted: 09/24/2004 09:10

ConocoPhillips

Reported: 10/15/2004 at 21:27

P.O. Box 2197

Discard: 11/15/2004

Houston TX 77252

EASTP

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
03961	4-Bromophenyl-phenylether	101-55-3	N.D.	1.	10.	ug/l	1
03962	Hexachlorobenzene	118-74-1	N.D.	1.	10.	ug/l	1
03963	Phenanthrene	85-01-8	N.D.	1.	10.	ug/l	1
03964	Anthracene	120-12-7	N.D.	1.	10.	ug/l	1
03965	Di-n-butylphthalate	84-74-2	N.D.	2.	10.	ug/l	1
03966	Fluoranthene	206-44-0	N.D.	1.	10.	ug/l	1
03967	Pyrene	129-00-0	N.D.	1.	10.	ug/l	1
03969	Butylbenzylphthalate	85-68-7	N.D.	2.	10.	ug/l	1
03970	Benzo(a)anthracene	56-55-3	N.D.	1.	10.	ug/l	1
03971	Chrysene	218-01-9	N.D.	1.	10.	ug/l	1
03972	3,3'-Dichlorobenzidine	91-94-1	N.D.	1.	10.	ug/l	1
03973	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2.	10.	ug/l	1
03974	Di-n-octylphthalate	117-84-0	N.D.	2.	10.	ug/l	1
03975	Benzo(b)fluoranthene	205-99-2	N.D.	1.	10.	ug/l	1
03976	Benzo(k)fluoranthene	207-08-9	N.D.	1.	10.	ug/l	1
03977	Benzo(a)pyrene	50-32-8	N.D.	1.	10.	ug/l	1
03978	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	1.	10.	ug/l	1
03979	Dibenz(a,h)anthracene	53-70-3	N.D.	1.	10.	ug/l	1
03980	Benzo(g,h,i)perylene	191-24-2	N.D.	1.	10.	ug/l	1
04684	Carbazole	86-74-8	N.D.	1.	10.	ug/l	1

Due to insufficient sample, the reporting limits for the GC/MS semivolatiles compounds were raised.

02300 UST-Unleaded Waters by 8260B

05401	Benzene	71-43-2	N.D.	3.	25.	ug/l	5
05407	Toluene	108-88-3	N.D.	4.	25.	ug/l	5
05415	Ethylbenzene	100-41-4	N.D.	4.	25.	ug/l	5
06310	Xylene (Total)	1330-20-7	N.D.	4.	25.	ug/l	5

The reporting limits for the GC/MS volatile compounds were raised due to sample foaming.

Trip blank vials were not received by the laboratory for this sample group.

Laboratory Chronicle

*=This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. WW 4360032

East Pond Water Sample

Site# 6051

Wingate Fractionating Plant-Gallup, NM

Collected: 09/23/2004 13:00

by KH

Account Number: 11288

Submitted: 09/24/2004 09:10

Reported: 10/15/2004 at 21:27

Discard: 11/15/2004

ConocoPhillips

P.O. Box 2197

Houston TX 77252

EASTP

CAT		Analysis		Dilution	
No.	Analysis Name	Method	Trial# Date and Time	Analyst	Factor
00259	Mercury	SW-846 7470A	1 09/30/2004 08:11	Damary Valentin	1
01750	Calcium	SW-846 6010B	1 09/30/2004 12:54	Deborah A Krady	10
01757	Magnesium	SW-846 6010B	1 09/30/2004 12:54	Deborah A Krady	10
01767	Sodium	SW-846 6010B	1 10/06/2004 05:51	Joanne M Gates	200
07035	Arsenic	SW-846 6010B	1 09/30/2004 18:16	Donna R Sackett	1
07036	Selenium	SW-846 6010B	1 09/30/2004 18:16	Donna R Sackett	1
07046	Barium	SW-846 6010B	1 09/30/2004 12:49	Deborah A Krady	1
07049	Cadmium	SW-846 6010B	1 09/30/2004 12:49	Deborah A Krady	1
07051	Chromium	SW-846 6010B	1 09/30/2004 12:49	Deborah A Krady	1
07055	Lead	SW-846 6010B	1 09/30/2004 12:49	Deborah A Krady	1
07066	Silver	SW-846 6010B	1 09/30/2004 18:16	Donna R Sackett	1
00200	pH	EPA 150.1	1 09/24/2004 18:00	Luz M Groff	1
00201	Alkalinity to pH 8.3	EPA 310.1	1 09/28/2004 07:35	Susan A Engle	1
00202	Alkalinity to pH 4.5	EPA 310.1	1 09/28/2004 07:35	Susan A Engle	1
00212	Total Dissolved Solids	EPA 160.1	1 09/27/2004 10:22	Anne L Kuenzli	10
00224	Chloride	EPA 300.0	1 09/27/2004 14:39	Shannon L Phillips	5000
00228	Sulfate	EPA 300.0	1 09/28/2004 12:14	Shannon L Phillips	500
00235	Biochemical Oxygen Demand	EPA 405.1	1 09/24/2004 23:10	Nicole R Rohrer	1
00368	Nitrate Nitrogen	EPA 300.0	1 09/24/2004 14:58	William L Hamaker Jr	5
01553	Chemical Oxygen Demand	EPA 410.2	1 09/27/2004 07:15	Susan A Engle	5
08161	Tot Coli/E. coli (Quantitative)	Stand Meth 19, 1995, 9223B	1 09/25/2004 15:00	Earl R Custer	n.a.
04678	TCL SW846	SW-846 8270C	1 10/01/2004 19:05	Jeffrey B Smith	1
04679	Semivolatiles/Waters	SW-846 8270C	1 10/01/2004 19:05	Jeffrey B Smith	1
02300	UST-Unleaded Waters by 8260B	SW-846 8260B	1 09/30/2004 04:12	Seth J Good	5
00813	BNA Water Extraction	SW-846 3510C	1 09/28/2004 17:00	Elia R Botrous	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1 09/30/2004 04:12	Seth J Good	n.a.
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1 09/28/2004 21:00	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1 09/29/2004 20:00	Nelli S Markaryan	1

*=This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. WW 4360033

WMW-5 Water Sample

Site# 6051

Wingate Fractionating Plant-Gallup, NM

Collected: 09/23/2004 15:05

by KH

Account Number: 11288

Submitted: 09/24/2004 09:10

Reported: 10/15/2004 at 21:27

Discard: 11/15/2004

ConocoPhillips

P.O. Box 2197

Houston TX 77252

WMW-5

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
00259	Mercury	7439-97-6	0.000044	0.000028	0.00020	mg/l	1
01750	Calcium	7440-70-2	186.	0.0479	0.200	mg/l	1
01757	Magnesium	7439-95-4	48.8	0.0193	0.100	mg/l	1
01767	Sodium	7440-23-5	915.	23.1	50.0	mg/l	50
07035	Arsenic	7440-38-2	N.D.	0.0047	0.0100	mg/l	1
07036	Selenium	7782-49-2	N.D.	0.0059	0.0100	mg/l	1
07046	Barium	7440-39-3	0.0117	0.0045	0.0050	mg/l	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	mg/l	1
07051	Chromium	7440-47-3	N.D.	0.0025	0.0050	mg/l	1
07055	Lead	7439-92-1	N.D.	0.0100	0.0200	mg/l	1
07066	Silver	7440-22-4	N.D.	0.0020	0.0050	mg/l	1
00200	pH	n.a.	7.1	0.010	0.010	Std. Units	1
00201	Alkalinity to pH 8.3	n.a.	N.D.	0.41	2.0	mg/l as CaCO ₃	1
00202	Alkalinity to pH 4.5	n.a.	788.	0.41	2.0	mg/l as CaCO ₃	1
00212	Total Dissolved Solids	n.a.	3,410.	77.6	240.	mg/l	1
00224	Chloride	16887-00-6	307.	60.0	80.0	mg/l	200
00228	Sulfate	14808-79-8	1,330.	60.0	200.	mg/l	200
00268	Nitrate Nitrogen	14797-55-8	N.D.	0.40	0.50	mg/l	5
04678	TCL SW846 Semivolatiles/Waters						
03871	4-Chloroaniline	106-47-8	N.D.	1.	10.	ug/l	1
03905	2-Methylnaphthalene	91-57-6	N.D.	1.	10.	ug/l	1
03907	2-Nitroaniline	88-74-4	N.D.	1.	10.	ug/l	1
03922	2,4,5-Trichlorophenol	95-95-4	N.D.	1.	10.	ug/l	1
03924	2-Chlorophenol	95-57-8	N.D.	1.	10.	ug/l	1
03925	Phenol	108-95-2	N.D.	1.	10.	ug/l	1
03926	2-Nitrophenol	88-75-5	N.D.	1.	10.	ug/l	1
03927	2,4-Dimethylphenol	105-67-9	N.D.	1.	10.	ug/l	1
03928	2,4-Dichlorophenol	120-83-2	N.D.	1.	10.	ug/l	1
03929	4-Chloro-3-methylphenol	59-50-7	N.D.	1.	10.	ug/l	1
03930	2,4,6-Trichlorophenol	88-06-2	N.D.	1.	10.	ug/l	1
03936	bis(2-Chloroethyl) ether	111-44-4	N.D.	1.	10.	ug/l	1
03937	1,3-Dichlorobenzene	541-73-1	N.D.	1.	10.	ug/l	1
03938	1,4-Dichlorobenzene	106-46-7	N.D.	1.	10.	ug/l	1
03939	1,2-Dichlorobenzene	95-50-1	N.D.	1.	10.	ug/l	1

*=This limit was used in the evaluation of the final result



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Lancaster Laboratories Sample No. WW 4360033

WMW-5 Water Sample

Site# 6051

Wingate Fractionating Plant-Gallup, NM

Collected: 09/23/2004 15:05 by KH

Account Number: 11288

Submitted: 09/24/2004 09:10

Reported: 10/15/2004 at 21:27

Discard: 11/15/2004

ConocoPhillips

P.O. Box 2197

Houston TX 77252

WMW-5

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
03941	Hexachloroethane	67-72-1	N.D.	1.	10.	ug/l	1
03942	N-Nitroso-di-n-propylamine	621-64-7	N.D.	1.	10.	ug/l	1
03943	Nitrobenzene	98-95-3	N.D.	1.	10.	ug/l	1
03944	Isophorone	78-59-1	N.D.	1.	10.	ug/l	1
03945	bis(2-Chloroethoxy)methane	111-91-1	N.D.	1.	10.	ug/l	1
03946	1,2,4-Trichlorobenzene	120-82-1	N.D.	1.	10.	ug/l	1
03947	Naphthalene	91-20-3	N.D.	1.	10.	ug/l	1
03948	Hexachlorobutadiene	87-68-3	N.D.	1.	10.	ug/l	1
03949	Hexachlorocyclopentadiene	77-47-4	N.D.	5.	25.	ug/l	1
03950	2-Chloronaphthalene	91-58-7	N.D.	1.	10.	ug/l	1
03951	Acenaphthylene	208-96-8	N.D.	1.	10.	ug/l	1
03952	Dimethylphthalate	131-11-3	N.D.	2.	10.	ug/l	1
04680	2-Methylphenol	95-48-7	N.D.	1.	10.	ug/l	1
04681	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	1.	10.	ug/l	1
04682	4-Methylphenol	106-44-5	N.D.	2.	10.	ug/l	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04679	TCL SW846 Semivolatiles/Waters						
03879	Dibenzofuran	132-64-9	N.D.	1.	10.	ug/l	1
03908	3-Nitroaniline	99-09-2	N.D.	1.	10.	ug/l	1
03909	4-Nitroaniline	100-01-6	N.D.	1.	10.	ug/l	1
03931	2,4-Dinitrophenol	51-28-5	N.D.	20.	60.	ug/l	1
03932	4-Nitrophenol	100-02-7	N.D.	10.	50.	ug/l	1
03933	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5.	25.	ug/l	1
03934	Pentachlorophenol	87-86-5	N.D.	3.	25.	ug/l	1
03953	2,6-Dinitrotoluene	606-20-2	N.D.	1.	10.	ug/l	1
03954	Acenaphthene	83-32-9	N.D.	1.	10.	ug/l	1
03955	2,4-Dinitrotoluene	121-14-2	N.D.	1.	10.	ug/l	1
03956	Fluorene	86-73-7	N.D.	1.	10.	ug/l	1
03957	4-Chlorophenyl-phenylether	7005-72-3	N.D.	1.	10.	ug/l	1
03958	Diethylphthalate	84-66-2	N.D.	2.	10.	ug/l	1
03960	N-Nitrosodiphenylamine	86-30-6	N.D.	2.	10.	ug/l	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
03961	4-Bromophenyl-phenylether	101-55-3	N.D.	1.	10.	ug/l	1
03962	Hexachlorobenzene	118-74-1	N.D.	1.	10.	ug/l	1
03963	Phenanthrene	85-01-8	N.D.	1.	10.	ug/l	1
03964	Anthracene	120-12-7	N.D.	1.	10.	ug/l	1

*=This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. WW 4360033

WMW-5 Water Sample

Site# 6051

Wingate Fractionating Plant-Gallup, NM

Collected: 09/23/2004 15:05 by KH

Account Number: 11288

Submitted: 09/24/2004 09:10

Reported: 10/15/2004 at 21:27

Discard: 11/15/2004

ConocoPhillips

P.O. Box 2197

Houston TX 77252

WMW-5

CAT No.	Analysis Name	CAS Number	As Received Result	As Received	As Received	Units	Dilution Factor
				Method Detection Limit*	Limit of Quantitation		
03965	Di-n-butylphthalate	84-74-2	N.D.	2.	10.	ug/l	1
03966	Fluoranthene	206-44-0	N.D.	1.	10.	ug/l	1
03967	Pyrene	129-00-0	N.D.	1.	10.	ug/l	1
03969	Butylbenzylphthalate	85-68-7	N.D.	2.	10.	ug/l	1
03970	Benzo(a)anthracene	56-55-3	N.D.	1.	10.	ug/l	1
03971	Chrysene	218-01-9	N.D.	1.	10.	ug/l	1
03972	3,3'-Dichlorobenzidine	91-94-1	N.D.	1.	10.	ug/l	1
03973	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2.	10.	ug/l	1
03974	Di-n-octylphthalate	117-84-0	N.D.	2.	10.	ug/l	1
03975	Benzo(b)fluoranthene	205-99-2	N.D.	1.	10.	ug/l	1
03976	Benzo(k)fluoranthene	207-08-9	N.D.	1.	10.	ug/l	1
03977	Benzo(a)pyrene	50-32-8	N.D.	1.	10.	ug/l	1
03978	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	1.	10.	ug/l	1
03979	Dibenz(a,h)anthracene	53-70-3	N.D.	1.	10.	ug/l	1
03980	Benzo(g,h,i)perylene	191-24-2	N.D.	1.	10.	ug/l	1
04684	Carbazole	86-74-8	N.D.	1.	10.	ug/l	1
02300	UST-Unleaded Waters by 8260B						
05401	Benzene	71-43-2	N.D.	0.5	5.	ug/l	1
05407	Toluene	108-88-3	N.D.	0.7	5.	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.8	5.	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.8	5.	ug/l	1

Trip blank vials were not received by the laboratory for this sample group.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis	Analyst	Dilution Factor
				Date and Time		
00259	Mercury	SW-846 7470A	1	09/30/2004 08:12	Damary Valentin	1
01750	Calcium	SW-846 6010B	1	09/30/2004 12:59	Deborah A Krady	1
01757	Magnesium	SW-846 6010B	1	09/30/2004 12:59	Deborah A Krady	1
01767	Sodium	SW-846 6010B	1	09/30/2004 13:03	Deborah A Krady	50
07035	Arsenic	SW-846 6010B	1	09/30/2004 18:19	Donna R Sackett	1
07036	Selenium	SW-846 6010B	1	09/30/2004 18:19	Donna R Sackett	1
07046	Barium	SW-846 6010B	1	09/30/2004 12:59	Deborah A Krady	1
07049	Cadmium	SW-846 6010B	1	09/30/2004 12:59	Deborah A Krady	1
07051	Chromium	SW-846 6010B	1	09/30/2004 12:59	Deborah A Krady	1
07055	Lead	SW-846 6010B	1	09/30/2004 12:59	Deborah A Krady	1

*=This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. WW 4360033

WMW-5 Water Sample

Site# 6051

Wingate Fractionating Plant-Gallup, NM

Collected: 09/23/2004 15:05 by KH

Account Number: 11288

Submitted: 09/24/2004 09:10

Reported: 10/15/2004 at 21:27

Discard: 11/15/2004

ConocoPhillips

P.O. Box 2197

Houston TX 77252

WMW-5

07066	Silver	SW-846 6010B	1	09/30/2004 18:19	Donna R Sackett	1
00200	pH	EPA 150.1	1	09/24/2004 18:00	Luz M Groff	1
00201	Alkalinity to pH 8.3	EPA 310.1	1	09/28/2004 07:35	Susan A Engle	1
00202	Alkalinity to pH 4.5	EPA 310.1	1	09/28/2004 07:35	Susan A Engle	1
00212	Total Dissolved Solids	EPA 160.1	1	09/27/2004 10:22	Anne L Kuenzli	1
00224	Chloride	EPA 300.0	1	09/27/2004 15:06	Shannon L Phillips	200
00228	Sulfate	EPA 300.0	1	09/27/2004 15:06	Shannon L Phillips	200
00368	Nitrate Nitrogen	EPA 300.0	1	09/24/2004 15:11	William L Hamaker Jr	5
04678	TCL SW846	SW-846 8270C	1	10/01/2004 19:58	Jeffrey B Smith	1
	Semivolatiles/Waters					
04679	TCL SW846	SW-846 8270C	1	10/01/2004 19:58	Jeffrey B Smith	1
	Semivolatiles/Waters					
02300	UST-Unleaded Waters by 8260B	SW-846 8260B	1	09/30/2004 04:36	Seth J Good	1
00813	BNA Water Extraction	SW-846 3510C	1	09/28/2004 17:00	Elia R Botrous	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	09/30/2004 04:36	Seth J Good	n.a.
01848	WW SW846 ICP Digest (tot rec)	SW-846 3005A	1	09/28/2004 21:00	James L Mertz	1
05713	WW SW846 Hg Digest	SW-846 7470A	1	09/29/2004 20:00	Nelli S Markaryan	1

*=This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. WW 4360034

WMW-4 Water Sample

Site# 6051

Wingate Fractionating Plant-Gallup, NM

Collected: 09/23/2004 15:45

by KH

Account Number: 11288

Submitted: 09/24/2004 09:10

Reported: 10/15/2004 at 21:28

Discard: 11/15/2004

ConocoPhillips

P.O. Box 2197

Houston TX 77252

WMW-4

CAT No.	Analysis Name	CAS Number	As Received Result	As Received	As Received	Units	Dilution Factor
				Method Detection Limit*	Limit of Quantitation		
00259	Mercury	7439-97-6	N.D.	0.000028	0.00020	mg/l	1
01750	Calcium	7440-70-2	12.5	0.0479	0.200	mg/l	1
01757	Magnesium	7439-95-4	13.1	0.0193	0.100	mg/l	1
01767	Sodium	7440-23-5	553.	11.6	25.0	mg/l	25
07035	Arsenic	7440-38-2	0.0077	0.0047	0.0100	mg/l	1
07036	Selenium	7782-49-2	N.D.	0.0059	0.0100	mg/l	1
07046	Barium	7440-39-3	0.0435	0.00045	0.0050	mg/l	1
07049	Cadmium	7440-43-9	N.D.	0.00076	0.0050	mg/l	1
07051	Chromium	7440-47-3	N.D.	0.0025	0.0050	mg/l	1
07055	Lead	7439-92-1	N.D.	0.0100	0.0200	mg/l	1
07066	Silver	7440-22-4	0.0020	0.0020	0.0050	mg/l	1
00200	pH	n.a.	7.8	0.010	0.010	Std.	1
00201	Alkalinity to pH 8.3	n.a.	N.D.	0.41	2.0	Units mg/l	1
00202	Alkalinity to pH 4.5	n.a.	788.	0.41	2.0	as CaCO3 mg/l	1
00212	Total Dissolved Solids	n.a.	1,550.	38.8	120.	as CaCO3 mg/l	1
00224	Chloride	16887-00-6	149.	15.0	20.0	mg/l	50
00228	Sulfate	14808-79-8	247.	15.0	50.0	mg/l	50
00368	Nitrate Nitrogen	14797-55-8	N.D.	0.40	0.50	mg/l	5
04678	TCL SW846 Semivolatiles/Waters						
03871	4-Chloroaniline	106-47-8	N.D.	1.	10.	ug/l	1
03905	2-Methylnaphthalene	91-57-6	N.D.	1.	10.	ug/l	1
03907	2-Nitroaniline	88-74-4	N.D.	1.	10.	ug/l	1
03922	2,4,5-Trichlorophenol	95-95-4	N.D.	1.	10.	ug/l	1
03924	2-Chlorophenol	95-57-8	N.D.	1.	10.	ug/l	1
03925	Phenol	108-95-2	N.D.	1.	10.	ug/l	1
03926	2-Nitrophenol	88-75-5	N.D.	1.	10.	ug/l	1
03927	2,4-Dimethylphenol	105-67-9	N.D.	1.	10.	ug/l	1
03928	2,4-Dichlorophenol	120-83-2	N.D.	1.	10.	ug/l	1
03929	4-Chloro-3-methylphenol	59-50-7	N.D.	1.	10.	ug/l	1
03930	2,4,6-Trichlorophenol	88-06-2	N.D.	1.	10.	ug/l	1
03936	bis(2-Chloroethyl) ether	111-44-4	N.D.	1.	10.	ug/l	1
03937	1,3-Dichlorobenzene	541-73-1	N.D.	1.	10.	ug/l	1
03938	1,4-Dichlorobenzene	106-46-7	N.D.	1.	10.	ug/l	1
03939	1,2-Dichlorobenzene	95-50-1	N.D.	1.	10.	ug/l	1

*=This limit was used in the evaluation of the final result



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Lancaster Laboratories Sample No. WW 4360034

WMW-4 Water Sample

Site# 6051

Wingate Fractionating Plant-Gallup, NM

Collected: 09/23/2004 15:45 by KH

Account Number: 11288

Submitted: 09/24/2004 09:10

Reported: 10/15/2004 at 21:28

Discard: 11/15/2004

ConocoPhillips

P.O. Box 2197

Houston TX 77252

WMW-4

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Units	Dilution Factor
03941	Hexachloroethane	67-72-1	N.D.	1.	10.	ug/l	1
03942	N-Nitroso-di-n-propylamine	621-64-7	N.D.	1.	10.	ug/l	1
03943	Nitrobenzene	98-95-3	N.D.	1.	10.	ug/l	1
03944	Isophorone	78-59-1	N.D.	1.	10.	ug/l	1
03945	bis(2-Chloroethoxy)methane	111-91-1	N.D.	1.	10.	ug/l	1
03946	1,2,4-Trichlorobenzene	120-82-1	N.D.	1.	10.	ug/l	1
03947	Naphthalene	91-20-3	N.D.	1.	10.	ug/l	1
03948	Hexachlorobutadiene	87-68-3	N.D.	1.	10.	ug/l	1
03949	Hexachlorocyclopentadiene	77-47-4	N.D.	5.	25.	ug/l	1
03950	2-Chloronaphthalene	91-58-7	N.D.	1.	10.	ug/l	1
03951	Acenaphthylene	208-96-8	N.D.	1.	10.	ug/l	1
03952	Dimethylphthalate	131-11-3	N.D.	2.	10.	ug/l	1
04680	2-Methylphenol	95-48-7	N.D.	1.	10.	ug/l	1
04681	2,2'-oxybis(1-Chloropropane)	108-60-1	N.D.	1.	10.	ug/l	1
04682	4-Methylphenol	106-44-5	N.D.	2.	10.	ug/l	1
3-Methylphenol and 4-methylphenol cannot be resolved under the chromatographic conditions used for sample analysis. The result reported for 4-methylphenol represents the combined total of both compounds.							
04679	TCL SW846 Semivolatiles/Waters						
03879	Dibenzofuran	132-64-9	N.D.	1.	10.	ug/l	1
03908	3-Nitroaniline	99-09-2	N.D.	1.	10.	ug/l	1
03909	4-Nitroaniline	100-01-6	N.D.	1.	10.	ug/l	1
03931	2,4-Dinitrophenol	51-28-5	N.D.	20.	60.	ug/l	1
03932	4-Nitrophenol	100-02-7	N.D.	10.	50.	ug/l	1
03933	4,6-Dinitro-2-methylphenol	534-52-1	N.D.	5.	25.	ug/l	1
03934	Pentachlorophenol	87-86-5	N.D.	3.	25.	ug/l	1
03953	2,6-Dinitrotoluene	606-20-2	N.D.	1.	10.	ug/l	1
03954	Acenaphthene	83-32-9	N.D.	1.	10.	ug/l	1
03955	2,4-Dinitrotoluene	121-14-2	N.D.	1.	10.	ug/l	1
03956	Fluorene	86-73-7	N.D.	1.	10.	ug/l	1
03957	4-Chlorophenyl-phenylether	7005-72-3	N.D.	1.	10.	ug/l	1
03958	Diethylphthalate	84-66-2	N.D.	2.	10.	ug/l	1
03960	N-Nitrosodiphenylamine	86-30-6	N.D.	2.	10.	ug/l	1
N-nitrosodiphenylamine decomposes in the GC inlet forming diphenylamine. The result reported for N-nitrosodiphenylamine represents the combined total of both compounds.							
03961	4-Bromophenyl-phenylether	101-55-3	N.D.	1.	10.	ug/l	1
03962	Hexachlorobenzene	118-74-1	N.D.	1.	10.	ug/l	1
03963	Phenanthrene	85-01-8	N.D.	1.	10.	ug/l	1
03964	Anthracene	120-12-7	N.D.	1.	10.	ug/l	1

*=This limit was used in the evaluation of the final result



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Lancaster Laboratories Sample No. WW 4360034

WMW-4 Water Sample

Site# 6051

Wingate Fractionating Plant-Gallup, NM

Collected: 09/23/2004 15:45

by KH

Account Number: 11288

Submitted: 09/24/2004 09:10

Reported: 10/15/2004 at 21:28

Discard: 11/15/2004

ConocoPhillips

P.O. Box 2197

Houston TX 77252

WMW-4

CAT No.	Analysis Name	CAS Number	As Received Result	As Received	As Received	Units	Dilution Factor
				Method Detection Limit*	Limit of Quantitation		
03965	Di-n-butylphthalate	84-74-2	N.D.	2.	10.	ug/l	1
03966	Fluoranthene	206-44-0	N.D.	1.	10.	ug/l	1
03967	Pyrene	129-00-0	N.D.	1.	10.	ug/l	1
03969	Butylbenzylphthalate	85-68-7	N.D.	2.	10.	ug/l	1
03970	Benzo(a)anthracene	56-55-3	N.D.	1.	10.	ug/l	1
03971	Chrysene	218-01-9	N.D.	1.	10.	ug/l	1
03972	3,3'-Dichlorobenzidine	91-94-1	N.D.	1.	10.	ug/l	1
03973	bis(2-Ethylhexyl)phthalate	117-81-7	N.D.	2.	10.	ug/l	1
03974	Di-n-octylphthalate	117-84-0	N.D.	2.	10.	ug/l	1
03975	Benzo(b)fluoranthene	205-99-2	N.D.	1.	10.	ug/l	1
03976	Benzo(k)fluoranthene	207-08-9	N.D.	1.	10.	ug/l	1
03977	Benzo(a)pyrene	50-32-8	N.D.	1.	10.	ug/l	1
03978	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	1.	10.	ug/l	1
03979	Dibenz(a,h)anthracene	53-70-3	N.D.	1.	10.	ug/l	1
03980	Benzo(c,h,i)perylene	191-24-2	N.D.	1.	10.	ug/l	1
04684	Carbazole	86-74-8	N.D.	1.	10.	ug/l	1
02300	UST-Unleaded Waters by 8260B						
05401	Benzene	71-43-2	N.D.	0.5	5.	ug/l	1
05407	Toluene	108-88-3	N.D.	0.7	5.	ug/l	1
05415	Ethylbenzene	100-41-4	N.D.	0.8	5.	ug/l	1
06310	Xylene (Total)	1330-20-7	N.D.	0.8	5.	ug/l	1

Trip blank vials were not received by the laboratory for this sample group.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Analysis		Analyst	Dilution Factor
			Trial#	Date and Time		
00259	Mercury	SW-846 7470A	1	09/30/2004 08:13	Damary Valentin	1
01750	Calcium	SW-846 6010B	1	09/30/2004 13:08	Deborah A Krady	1
01757	Magnesium	SW-846 6010B	1	09/30/2004 13:08	Deborah A Krady	1
01767	Sodium	SW-846 6010B	1	09/30/2004 13:13	Deborah A Krady	25
07035	Arsenic	SW-846 6010B	1	09/30/2004 18:22	Donna R Sackett	1
07036	Selenium	SW-846 6010B	1	09/30/2004 18:22	Donna R Sackett	1
07046	Barium	SW-846 6010B	1	09/30/2004 13:08	Deborah A Krady	1
07049	Cadmium	SW-846 6010B	1	09/30/2004 13:08	Deborah A Krady	1
07051	Chromium	SW-846 6010B	1	09/30/2004 13:08	Deborah A Krady	1
07055	Lead	SW-846 6010B	1	09/30/2004 13:08	Deborah A Krady	1

*=This limit was used in the evaluation of the final result



Analysis Report

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Lancaster Laboratories Sample No. WW 4360034

WMW-4 Water Sample

Site# 6051

Wingate Fractionating Plant-Gallup, NM

Collected: 09/23/2004 15:45 by KH

Account Number: 11288

Submitted: 09/24/2004 09:10

ConocoPhillips

Reported: 10/15/2004 at 21:28

P.O. Box 2197

Discard: 11/15/2004

Houston TX 77252

WMW-4

07066	Silver	SW-846 6010B	1	09/30/2004 18:22	Donna R Sackett	1
00200	pH	EPA 150.1	1	09/24/2004 18:00	Luz M Groff	1
00201	Alkalinity to pH 8.3	EPA 310.1	1	09/28/2004 07:35	Susan A Engle	1
00202	Alkalinity to pH 4.5	EPA 310.1	1	09/28/2004 07:35	Susan A Engle	1
00212	Total Dissolved Solids	EPA 160.1	1	09/27/2004 10:22	Anne L Kuenzli	1
00224	Chloride	EPA 300.0	1	09/27/2004 15:19	Shannon L Phillips	50
00228	Sulfate	EPA 300.0	1	09/27/2004 15:19	Shannon L Phillips	50
00368	Nitrate Nitrogen	EPA 300.0	1	09/24/2004 15:25	William L Hamaker Jr	5
04678	TCL SW846	SW-846 8270C	1	10/01/2004 20:51	Jeffrey B Smith	1
	Semivolatiles/Waters					
04679	TCL SW846	SW-846 8270C	1	10/01/2004 20:51	Jeffrey B Smith	1
	Semivolatiles/Waters					
02300	UST-Unleaded Waters by	SW-846 8260B	1	09/30/2004 05:00	Seth J Good	1
	8260B					
00813	BNA Water Extraction	SW-846 3510C	1	09/28/2004 17:00	Elia R Botrous	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	09/30/2004 05:00	Seth J Good	n.a.
01848	WW SW846 ICP Digest (tot	SW-846 3005A	1	09/28/2004 21:00	James L Mertz	1
	rec)					
05713	WW SW846 Hg Digest	SW-846 7470A	1	09/29/2004 20:00	Nelli S Markaryan	1

*=This limit was used in the evaluation of the final result



Analysis Report

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Quality Control Summary

Client Name: ConocoPhillips
Reported: 10/15/04 at 09:28 PM

Group Number: 913455

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 04268020001A pH	Sample number(s): 4360031-4360034				100		99-101		
Batch number: 04268023501A Biochemical Oxygen Demand	Sample number(s): 4360032				103	104	85-115	1	8
Batch number: 04268621301B Chloride	Sample number(s): 4360031-4360034								
	N.D.	0.30	0.40	mg/l	101		90-110		
Sulfate	N.D.	0.30	1.0	mg/l	98		89-110		
Nitrate Nitrogen	N.D.	0.080	0.10	mg/l	99		90-110		
Batch number: 04271021201A Total Dissolved Solids	Sample number(s): 4360031-4360034								
	N.D.	9.7	30.0	mg/l	105		80-120		
Batch number: 04271155301A Chemical Oxygen Demand	Sample number(s): 4360031-4360032								
					94		84-108		
Batch number: 04272020201A Alkalinity to pH 4.5	Sample number(s): 4360031-4360034								
					100		98-103		
Batch number: 042721848005 Calcium	Sample number(s): 4360031-4360034								
	N.D.	0.0479	0.200	mg/l	104		93-113		
Magnesium	N.D.	0.0193	0.100	mg/l	101		93-110		
Sodium	N.D.	0.462	1.00	mg/l	104		89-112		
Arsenic	N.D.	0.0047	0.0100	mg/l	97		92-109		
Selenium	N.D.	0.0059	0.0100	mg/l	101		91-111		
Barium	N.D.	0.00045	0.0050	mg/l	101		93-109		
Cadmium	N.D.	0.00076	0.0050	mg/l	102		97-111		
Chromium	N.D.	0.0025	0.0050	mg/l	100		95-112		
Lead	N.D.	0.0100	0.0200	mg/l	102		93-110		
Silver	N.D.	0.0020	0.0050	mg/l	103		96-114		
Batch number: 04272WAC026 4-Chloroaniline	Sample number(s): 4360031-4360034								
	N.D.	1.	10.	ug/l	92	93	32-120	2	30
Dibenzofuran	N.D.	1.	10.	ug/l	92	94	65-110	2	30
2-Methylnaphthalene	N.D.	1.	10.	ug/l	90	92	54-110	2	30
2-Nitroaniline	N.D.	1.	10.	ug/l	95	98	73-115	2	30
3-Nitroaniline	N.D.	1.	10.	ug/l	95	97	64-113	2	30
4-Nitroaniline	N.D.	1.	10.	ug/l	88	87	56-107	0	30
2,4,5-Trichlorophenol	N.D.	1.	10.	ug/l	94	91	70-115	3	30
2-Chlorophenol	N.D.	1.	10.	ug/l	91	87	63-112	4	30
Phenol	N.D.	1.	10.	ug/l	43	42	24-65	2	30
2-Nitrophenol	N.D.	1.	10.	ug/l	102	99	68-118	3	30
2,4-Dimethylphenol	N.D.	1.	10.	ug/l	85	87	60-107	3	30

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.

Quality Control Summary

Client Name: ConocoPhillips
Reported: 10/15/04 at 09:28 PM

Group Number: 913455

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL**	Blank LOQ	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
2,4-Dichlorophenol	N.D.	1.	10.	ug/l	91	92	66-110	0	30
4-Chloro-3-methylphenol	N.D.	1.	10.	ug/l	92	96	70-112	4	30
2,4,6-Trichlorophenol	N.D.	1.	10.	ug/l	93	89	69-111	5	30
2,4-Dinitrophenol	N.D.	20.	60.	ug/l	81	65	46-121	23	30
4-Nitrophenol	N.D.	10.	50.	ug/l	43	39	19-76	11	30
4,6-Dinitro-2-methylphenol	N.D.	5.	25.	ug/l	87	77	56-130	12	30
Pentachlorophenol	N.D.	3.	25.	ug/l	77	70	48-108	9	30
bis(2-Chloroethyl) ether	N.D.	1.	10.	ug/l	88	85	57-110	3	30
1,3-Dichlorobenzene	N.D.	1.	10.	ug/l	91	88	35-107	3	30
1,4-Dichlorobenzene	N.D.	1.	10.	ug/l	88	85	37-109	4	30
1,2-Dichlorobenzene	N.D.	1.	10.	ug/l	88	86	42-105	3	30
Hexachloroethane	N.D.	1.	10.	ug/l	89	87	18-110	2	30
N-Nitroso-di-n-propylamine	N.D.	1.	10.	ug/l	86	84	56-109	3	30
Nitrobenzene	N.D.	1.	10.	ug/l	90	92	61-111	2	30
Isophorone	N.D.	1.	10.	ug/l	93	94	63-105	1	30
bis(2-Chloroethoxy) methane	N.D.	1.	10.	ug/l	97	98	69-119	1	30
1,2,4-Trichlorobenzene	N.D.	1.	10.	ug/l	90	92	45-109	2	30
Naphthalene	N.D.	1.	10.	ug/l	88	91	58-108	3	30
Hexachlorobutadiene	N.D.	1.	10.	ug/l	92	92	15-119	0	30
Hexachlorocyclopentadiene	N.D.	5.	25.	ug/l	92	97	12-140	6	30
2-Chloronaphthalene	N.D.	1.	10.	ug/l	79	80	57-95	1	30
Acenaphthylene	N.D.	1.	10.	ug/l	90	91	65-120	2	30
Dimethylphthalate	N.D.	2.	10.	ug/l	88	88	34-114	0	30
2,6-Dinitrotoluene	N.D.	1.	10.	ug/l	92	94	70-108	2	30
Acenaphthene	N.D.	1.	10.	ug/l	93	95	68-111	2	30
2,4-Dinitrotoluene	N.D.	1.	10.	ug/l	98	100	75-122	2	30
Fluorene	N.D.	1.	10.	ug/l	88	90	61-116	2	30
4-Chlorophenyl-phenylether	N.D.	1.	10.	ug/l	90	93	65-110	3	30
Diethylphthalate	N.D.	2.	10.	ug/l	92	92	61-110	0	30
N-Nitrosodiphenylamine	N.D.	2.	10.	ug/l	92	94	63-104	1	30
4-Bromophenyl-phenylether	N.D.	1.	10.	ug/l	93	95	67-110	1	30
Hexachlorobenzene	N.D.	1.	10.	ug/l	93	96	68-113	3	30
Phenanthrene	N.D.	1.	10.	ug/l	89	91	68-111	2	30
Anthracene	N.D.	1.	10.	ug/l	90	92	68-108	2	30
Di-n-butylphthalate	N.D.	2.	10.	ug/l	89	91	63-113	2	30
Fluoranthene	N.D.	1.	10.	ug/l	87	89	66-108	2	30
Pyrene	N.D.	1.	10.	ug/l	91	92	68-114	2	30
Butylbenzylphthalate	N.D.	2.	10.	ug/l	93	92	63-120	1	30
Benzo(a)anthracene	N.D.	1.	10.	ug/l	91	91	72-112	1	30
Chrysene	N.D.	1.	10.	ug/l	90	90	70-111	0	30
3,3'-Dichlorobenzidine	N.D.	1.	10.	ug/l	80	80	37-117	1	30
bis(2-Ethylhexyl)phthalate	N.D.	2.	10.	ug/l	91	88	62-126	3	30
Di-n-octylphthalate	N.D.	2.	10.	ug/l	89	90	58-118	2	30
Benzo(b)fluoranthene	N.D.	1.	10.	ug/l	89	90	67-117	1	30
Benzo(k)fluoranthene	N.D.	1.	10.	ug/l	93	94	67-120	1	30
Benzo(a)pyrene	N.D.	1.	10.	ug/l	94	95	68-121	2	30
Indeno(1,2,3-cd)pyrene	N.D.	1.	10.	ug/l	94	94	67-122	0	30
Dibenz(a,h)anthracene	N.D.	1.	10.	ug/l	101	104	71-129	3	30
Benzo(g,h,i)perylene	N.D.	1.	10.	ug/l	92	95	67-121	3	30
2-Methylphenol	N.D.	1.	10.	ug/l	81	80	56-105	1	30
2,2'-oxybis(1-Chloropropane)	N.D.	1.	10.	ug/l	107	106	53-134	1	30
4-Methylphenol	N.D.	2.	10.	ug/l	78	76	51-98	2	30
Carbazole	N.D.	1.	10.	ug/l	90	90	66-109	0	30

Batch number: 042735713004

Sample number(s): 4360031-4360034

*- Outside of specification

**-This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.



Analysis Report

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Quality Control Summary

Client Name: ConocoPhillips
Reported: 10/15/04 at 09:28 PM

Group Number: 913455

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Mercury	N.D.	0.00002	0.00020	mg/l	96		80-120		
Batch number: 04274023501A									
Biochemical Oxygen Demand					102	96	85-115	6	8
Batch number: T042732AA									
Benzene	N.D.	0.5	5.	ug/l	92	90	85-117	2	30
Toluene	N.D.	0.7	5.	ug/l	95	94	85-115	1	30
Ethylbenzene	N.D.	0.8	5.	ug/l	95	88	82-119	7	30
Xylene (Total)	N.D.	0.8	5.	ug/l	97	95	83-113	2	30

Sample Matrix Quality Control

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>BKG MAX</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 04268020001A								
pH					6.4	6.4	0	1
Batch number: 04268023501A								
Biochemical Oxygen Demand	96	96	63-153	0	10	471.	521.	10
Batch number: 04268621301B								
Chloride	148*		90-110			90,300.	91,000.	1 (1)
Sulfate	104		90-110			29,500.	32,300.	9* (1)
Nitrate Nitrogen	95		90-110			N.D.	N.D.	0 (1)
Batch number: 04271021201A								
Total Dissolved Solids	98	95	60-140	1	5	1,440.	1,480.	2
Batch number: 04271155301A								
Chemical Oxygen Demand	83	89	72-118	2	6	32.4	31.6	3 (1)
Batch number: 04272020201A								
Alkalinity to pH 8.3						N.D.	N.D.	0 (1)
Alkalinity to pH 4.5	99	99	64-130	0	2	59.3	58.7	1
Batch number: 042721848005								
Calcium	(2)	(2)	78-122	1	20	53.9	54.6	1
Magnesium	(2)	(2)	75-125	1	20	25.3	25.6	1
Sodium	(2)	(2)	75-125	1	20	23.4	23.7	2
Arsenic	97	97	86-119	1	20	0.0070	0.0059	18 (1)
Selenium	99	99	75-125	0	20	N.D.	N.D.	0 (1)
Barium	100	101	82-113	1	20	0.0557	0.0557	0
Cadmium	101	103	87-117	2	20	N.D.	N.D.	0 (1)
Chromium	99	100	86-118	1	20	N.D.	N.D.	0 (1)
Lead	101	104	87-118	2	20	N.D.	N.D.	0 (1)
Silver	105	106	75-125	1	20	N.D.	0.0024	200* (1)
Batch number: 042735713004								
Mercury	115	111	80-120	4	20	N.D.	N.D.	0 (1)

*- Outside of specification

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- (2) The background result was more than four times the spike added.

Quality Control Summary

Client Name: ConocoPhillips
Reported: 10/15/04 at 09:28 PM

Group Number: 913455

Sample Matrix Quality Control

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD RPD	BKG MAX	DUP Conc	DUP RPD	Dup RPD Max
Batch number: 04274023501A Biochemical Oxygen Demand	97	95	63-153	2	10	263.	261.	11
Batch number: T042732AA Benzene	96		83-128					
Toluene	99		83-127					
Ethylbenzene	96		82-129					
Xylene (Total)	97		82-130					

Surrogate Quality Control

Analysis Name: TCL SW846 Semivolatiles/Waters
Batch number: 04272WAC026

	2-Fluorophenol	Phenol-d6	2,4,6-Tribromophenol	Nitrobenzene-d5
4360031	72	73	90	89
4360032	59	45	96	88
4360033	68	54	98	89
4360034	61	51	98	83
Blank	63	42	96	92
LCS	59	39	94	90
LCSD	59	39	95	93
Limits:	22-91	10-80	43-145	54-124

	2-Fluorobiphenyl	Terphenyl-d14
4360031	84	75
4360032	87	79
4360033	89	82
4360034	85	81
Blank	94	92
LCS	89	90
LCSD	91	93
Limits:	64-112	48-125

Analysis Name: UST-Unleaded Waters by 8260B
Batch number: T042732AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
4360031	103	101	92	92
4360032	104	103	89	88
4360033	103	102	94	94
4360034	105	97	92	93
Blank	99	106	99	94
LCS	98	102	101	98
LCSD	101	99	98	107
MS	101	104	98	97

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.



Analysis Report

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Page 5 of 5

Quality Control Summary

Client Name: ConocoPhillips
Reported: 10/15/04 at 09:28 PM

Group Number: 913455

Surrogate Quality Control

Limits: 81-120

82-112

85-112

83-113

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The background result was more than four times the spike added.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

N.D.	none detected	BMQL	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	MPN	Most Probable Number
IU	International Units	CP Units	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	NTU	nephelometric turbidity units
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
ug	microgram(s)	mg	milligram(s)
ml	milliliter(s)	l	liter(s)
m3	cubic meter(s)	ul	microliter(s)
<	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
J	estimated value - The result is $\geq$ the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

U.S. EPA CLP Data Qualifiers:

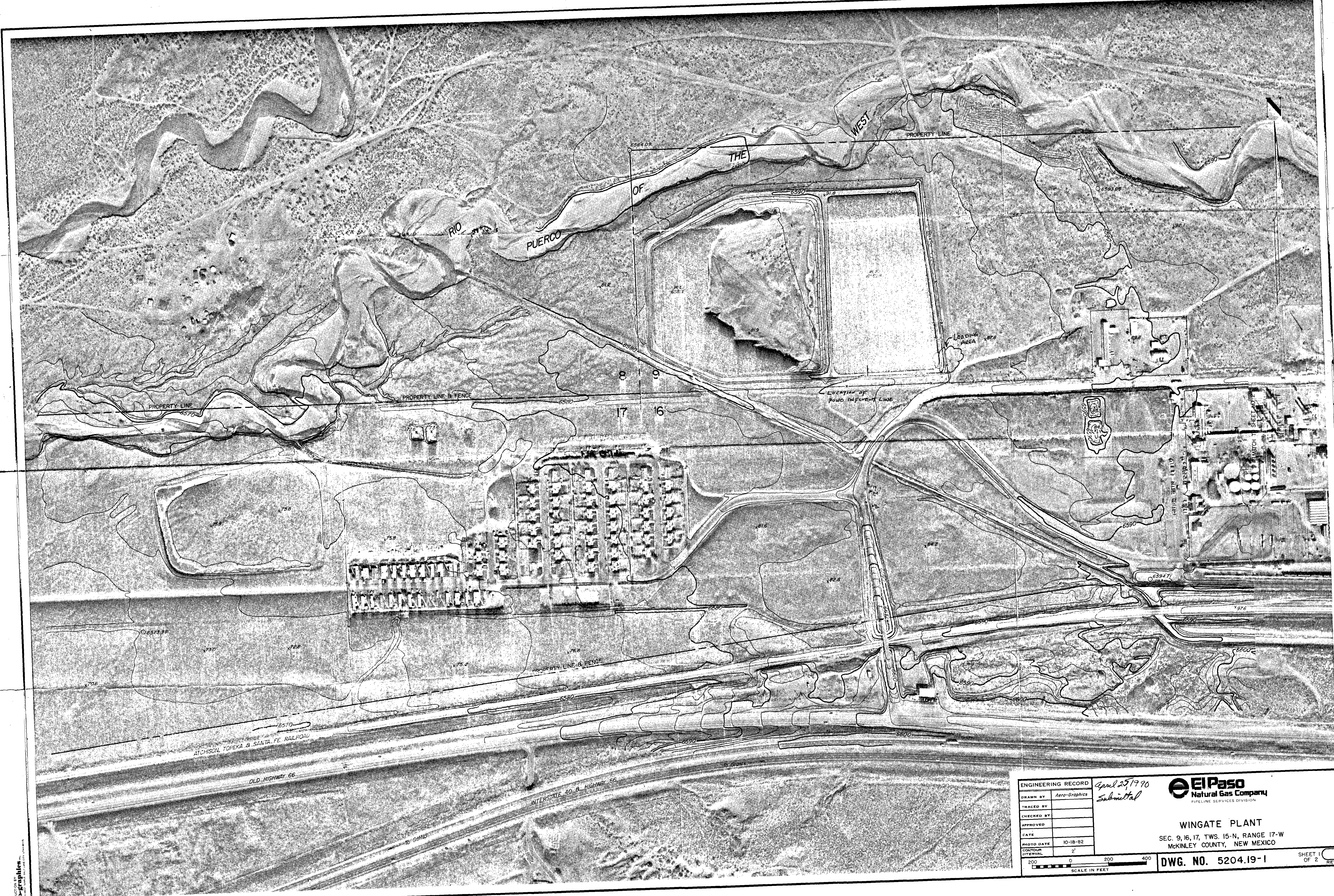
Organic Qualifiers		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	B	Value is $<$ CRDL, but $\geq$ IDL
B	Analyte was also detected in the blank	E	Estimated due to interference
C	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	S	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	U	Compound was not detected
P	Concentration difference between primary and confirmation columns $>25\%$	W	Post digestion spike out of control limits
U	Compound was not detected	*	Duplicate analysis not within control limits
X,Y,Z	Defined in case narrative	+	Correlation coefficient for MSA <0.995

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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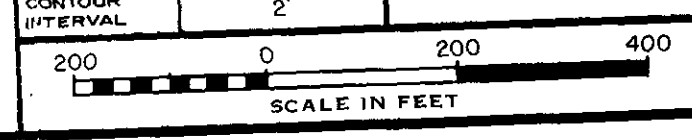


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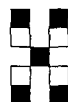
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MCKINLEY COUNTY, NEW MEXICO



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Hall Environmental Analysis Laboratory

2003 Evap Pond
Analysis

COVER LETTER

October 29, 2003

Beverly Cox
Conoco Phillips
Wingate Fractionator
P. O. Box 119
Rehoboth, NM 87322
TEL: (505) 863-1023
FAX (505) 863-1047

RE: Annual Evaporation Pond Sampling

Order No.: 0310065

Dear Beverly Cox:

Hall Environmental Analysis Laboratory received 3 samples on 10/10/2003 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent.

Reporting limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Business Manager
Nancy McDuffie, Laboratory Manager

Hall Environmental Analysis Laboratory

Date: 30-Oct-03

CLIENT: Conoco Phillips
Project: Annual Evaporation Pond Sampling
Lab Order: 0310065

CASE NARRATIVE

Analytical Comments for METHOD 8270_W, SAMPLE 0310065-01A: Surrogate recovery low due to heavy emulsion formed in extraction. Sample was re-extracted and re-analysed and confirmed low surrogates.

Analytical Comments for METHOD 8270_W, SAMPLE 0310065-02B: Surrogate recovery low due to heavy emulsion formed in extraction. Sample was re-extracted and re-analysed and confirmed low surrogates.

Hall Environmental Analysis Laboratory

Date: 30-Oct-03

CLIENT: Conoco Phillips
Lab Order: 0310065
Project: Annual Evaporation Pond Sampling
Lab ID: 0310065-01

Client Sample ID: East Pond
Collection Date: 10/9/2003 8:45:00 AM
Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: BDH
✓ Fluoride	ND	10		mg/L	100	10/10/2003 12:49:51 PM
✓ Chloride	130000	500		mg/L	5000	10/10/2003 2:10:02 PM
✓ Nitrogen, Nitrite (As N)	ND	10		mg/L	100	10/10/2003 12:49:51 PM
✓ Bromide	ND	10		mg/L	100	10/10/2003 12:49:51 PM
✓ Nitrogen, Nitrate (As N)	ND	10		mg/L	100	10/10/2003 12:49:51 PM
✓ Phosphorus, Orthophosphate (As P)	ND	50		mg/L	100	10/10/2003 12:49:51 PM
✓ Sulfate	13000	500		mg/L	1000	10/10/2003 1:36:32 PM
EPA METHOD 310.1: ALKALINITY						Analyst: MAP
✓ Alkalinity, Total (As CaCO ₃)	160	2.0		mg/L CaCO ₃	1	10/14/2003
✓ Carbonate	110	2.0		mg/L CaCO ₃	1	10/14/2003
✓ Bicarbonate	47	2.0		mg/L CaCO ₃	1	10/14/2003
EPA METHOD 8270D: SEMIVOLATILES						Analyst: CS
✓ Acenaphthene	ND	10		µg/L	1	10/23/2003
✓ Acenaphthylene	ND	10		µg/L	1	10/23/2003
✓ Aniline	ND	10		µg/L	1	10/23/2003
✓ Anthracene	ND	10		µg/L	1	10/23/2003
✓ Azobenzene	ND	10		µg/L	1	10/23/2003
✓ Benz(a)anthracene	ND	10		µg/L	1	10/23/2003
✓ Benzidine	ND	20		µg/L	1	10/23/2003
✓ Benzo(a)pyrene	ND	10		µg/L	1	10/23/2003
✓ Benzo(b)fluoranthene	ND	10		µg/L	1	10/23/2003
✓ Benzo(g,h,i)perylene	ND	10		µg/L	1	10/23/2003
✓ Benzo(k)fluoranthene	ND	10		µg/L	1	10/23/2003
✓ Benzoic acid	ND	50		µg/L	1	10/23/2003
✓ Benzyl alcohol	ND	20		µg/L	1	10/23/2003
✓ Bis(2-chloroethoxy)methane	ND	10		µg/L	1	10/23/2003
✓ Bis(2-chloroethyl)ether	ND	10		µg/L	1	10/23/2003
✓ Bis(2-chloroisopropyl)ether	ND	10		µg/L	1	10/23/2003
✓ Bis(2-ethylhexyl)phthalate	ND	10		µg/L	1	10/23/2003
✓ 4-Bromophenyl phenyl ether	ND	10		µg/L	1	10/23/2003
✓ Butyl benzyl phthalate	ND	10		µg/L	1	10/23/2003
✓ Carbazole	ND	10		µg/L	1	10/23/2003
✓ 4-Chloro-3-methylphenol	ND	20		µg/L	1	10/23/2003
✓ 4-Chloroaniline	ND	20		µg/L	1	10/23/2003
✓ 2-Chloronaphthalene	ND	10		µg/L	1	10/23/2003
✓ 2-Chlorophenol	ND	10		µg/L	1	10/23/2003
✓ 4-Chlorophenyl phenyl ether	ND	10		µg/L	1	10/23/2003
✓ Chrysene	ND	10		µg/L	1	10/23/2003
✓ Di-n-butyl phthalate	ND	10		µg/L	1	10/23/2003
✓ Di-n-octyl phthalate	ND	10		µg/L	1	10/23/2003

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Hall Environmental Analysis Laboratory

Date: 30-Oct-03

CLIENT: Conoco Phillips

Client Sample ID: East Pond

Lab Order: 0310065

Collection Date: 10/9/2003 8:45:00 AM

Project: Annual Evaporation Pond Sampling

Lab ID: 0310065-01

Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
✓Dibenz(a,h)anthracene	ND	10		µg/L	1	10/23/2003
✓Dibenzofuran	ND	10		µg/L	1	10/23/2003
✓1,2-Dichlorobenzene	ND	10		µg/L	1	10/23/2003
✓1,3-Dichlorobenzene	ND	10		µg/L	1	10/23/2003
✓1,4-Dichlorobenzene	ND	10		µg/L	1	10/23/2003
✓3,3'-Dichlorobenzidine	ND	10		µg/L	1	10/23/2003
✓Diethyl phthalate	ND	10		µg/L	1	10/23/2003
✓Dimethyl phthalate	ND	10		µg/L	1	10/23/2003
✓2,4-Dichlorophenol	ND	10		µg/L	1	10/23/2003
✓2,4-Dimethylphenol	ND	10		µg/L	1	10/23/2003
✓4,6-Dinitro-2-methylphenol	ND	50		µg/L	1	10/23/2003
✓2,4-Dinitrophenol	ND	50		µg/L	1	10/23/2003
✓2,4-Dinitrotoluene	ND	10		µg/L	1	10/23/2003
✓2,6-Dinitrotoluene	ND	10		µg/L	1	10/23/2003
✓Fluoranthene	ND	10		µg/L	1	10/23/2003
✓Fluorene	ND	10		µg/L	1	10/23/2003
✓Hexachlorobenzene	ND	10		µg/L	1	10/23/2003
✓Hexachlorobutadiene	ND	10		µg/L	1	10/23/2003
✓Hexachlorocyclopentadiene	ND	10		µg/L	1	10/23/2003
✓Hexachloroethane	ND	10		µg/L	1	10/23/2003
✓Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	10/23/2003
✓Isophorone	ND	10		µg/L	1	10/23/2003
✓2-Methylnaphthalene	ND	10		µg/L	1	10/23/2003
✓2-Methylphenol	ND	10		µg/L	1	10/23/2003
✓3+4-Methylphenol	ND	10		µg/L	1	10/23/2003
✓N-Nitrosodi-n-propylamine	ND	10		µg/L	1	10/23/2003
✓N-Nitrosodiphenylamine	ND	10		µg/L	1	10/23/2003
✓Naphthalene	ND	10		µg/L	1	10/23/2003
✓2-Nitroaniline	ND	50		µg/L	1	10/23/2003
✓3-Nitroaniline	ND	50		µg/L	1	10/23/2003
✓4-Nitroaniline	ND	20		µg/L	1	10/23/2003
✓Nitrobenzene	ND	10		µg/L	1	10/23/2003
✓2-Nitrophenol	ND	10		µg/L	1	10/23/2003
✓4-Nitrophenol	ND	50		µg/L	1	10/23/2003
✓Pentachlorophenol	ND	50		µg/L	1	10/23/2003
✓Phenanthrene	ND	10		µg/L	1	10/23/2003
✓Phenol	ND	10		µg/L	1	10/23/2003
✓Pyrene	ND	10		µg/L	1	10/23/2003
✓Pyridine	ND	10		µg/L	1	10/23/2003
✓1,2,4-Trichlorobenzene	ND	10		µg/L	1	10/23/2003
✓2,4,5-Trichlorophenol	ND	10		µg/L	1	10/23/2003
✓2,4,6-Trichlorophenol	ND	10		µg/L	1	10/23/2003

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range

Hall Environmental Analysis Laboratory

Date: 30-Oct-03

CLIENT: Conoco Phillips
Lab Order: 0310065
Project: Annual Evaporation Pond Sampling
Lab ID: 0310065-01

Client Sample ID: East Pond
Collection Date: 10/9/2003 8:45:00 AM
Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
✓ Surr: 2,4,6-Tribromophenol	4.68	16.6-115	S	%REC	1	10/23/2003
✓ Surr: 2-Fluorobiphenyl	51.9	37-95.7		%REC	1	10/23/2003
✓ Surr: 2-Fluorophenol	7.61	9.54-89.8	S	%REC	1	10/23/2003
✓ Surr: 4-Terphenyl-d14	68.5	47.9-115		%REC	1	10/23/2003
✓ Surr: Nitrobenzene-d5	48.1	38-106		%REC	1	10/23/2003
✓ Surr: Phenol-d6	20.4	10.7-63.4		%REC	1	10/23/2003
EPA 120.1: SPECIFIC CONDUCTANCE						Analyst: MAP
Specific Conductance	180000	0.010		µmhos/cm	1	10/14/2003
EPA METHOD 7470: MERCURY						Analyst: MAP
Mercury	ND	0.00020		mg/L	1	10/24/2003
EPA METHOD 6010C: DISSOLVED METALS						Analyst: NMO
Calcium	1500	100		mg/L	100	10/14/2003 9:24:40 AM
Magnesium	830	100		mg/L	100	10/14/2003 9:24:40 AM
Potassium	240	100		mg/L	100	10/14/2003 9:24:40 AM
Sodium	19000	1000		mg/L	1000	10/14/2003 9:32:09 AM
EPA 6010C: TOTAL RECOVERABLE METALS						Analyst: NMO
Arsenic	ND	2.0		mg/L	100	10/15/2003 2:10:21 PM
Barium	ND	2.0		mg/L	100	10/15/2003 2:10:21 PM
Cadmium	ND	0.20		mg/L	100	10/15/2003 2:10:21 PM
Chromium	ND	0.60		mg/L	100	10/15/2003 2:10:21 PM
Copper	ND	0.60		mg/L	100	10/15/2003 2:10:21 PM
Iron	ND	2.0		mg/L	100	10/15/2003 2:10:21 PM
Lead	ND	0.50		mg/L	100	10/15/2003 2:10:21 PM
Manganese	ND	0.20		mg/L	100	10/15/2003 2:10:21 PM
Selenium	ND	2.0		mg/L	100	10/15/2003 2:10:21 PM
Silver	ND	0.50		mg/L	100	10/15/2003 2:10:21 PM
Uranium	ND	10		mg/L	100	10/15/2003 2:10:21 PM
Vanadium	ND	5.0		mg/L	100	10/15/2003 2:10:21 PM
Zinc	ND	5.0		mg/L	100	10/15/2003 2:10:21 PM
EPA METHOD 150.1: PH						Analyst: MAP
pH	9.42	0.010		pH units	1	10/14/2003
EPA METHOD 160.1: TDS						Analyst: MAP
Total Dissolved Solids	53000	1.0		mg/L	1	10/15/2003

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Hall Environmental Analysis Laboratory

Date: 30-Oct-03

CLIENT: Conoco Phillips
Lab Order: 0310065
Project: Annual Evaporation Pond Sampling
Lab ID: 0310065-02

Client Sample ID: West Pond
Collection Date: 10/9/2003 8:45:00 AM
Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: BDH
Fluoride	ND	10		mg/L	100	10/10/2003 1:06:36 PM
Chloride	27000	100		mg/L	1000	10/10/2003 1:53:18 PM
Nitrogen, Nitrite (As N)	ND	10		mg/L	100	10/10/2003 1:06:36 PM
Bromide	ND	10		mg/L	100	10/10/2003 1:06:36 PM
Nitrogen, Nitrate (As N)	ND	10		mg/L	100	10/10/2003 1:06:36 PM
Phosphorus, Orthophosphate (As P)	ND	50		mg/L	100	10/10/2003 1:06:36 PM
Sulfate	5500	500		mg/L	1000	10/10/2003 1:53:18 PM
EPA METHOD 310.1: ALKALINITY						Analyst: MAP
Alkalinity, Total (As CaCO ₃)	190	4.0		mg/L CaCO ₃	2	10/14/2003
Carbonate	ND	4.0		mg/L CaCO ₃	2	10/14/2003
Bicarbonate	190	4.0		mg/L CaCO ₃	2	10/14/2003
EPA METHOD 8260B: VOLATILES						Analyst: JDC
Benzene	ND	1.0		µg/L	1	10/10/2003
Toluene	ND	1.0		µg/L	1	10/10/2003
Ethylbenzene	ND	1.0		µg/L	1	10/10/2003
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	10/10/2003
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	10/10/2003
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	10/10/2003
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	10/10/2003
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	10/10/2003
Naphthalene	ND	2.0		µg/L	1	10/10/2003
1-Methylnaphthalene	ND	4.0		µg/L	1	10/10/2003
2-Methylnaphthalene	ND	4.0		µg/L	1	10/10/2003
Acetone	ND	10		µg/L	1	10/10/2003
Bromobenzene	ND	1.0		µg/L	1	10/10/2003
Bromochloromethane	ND	1.0		µg/L	1	10/10/2003
Bromodichloromethane	ND	1.0		µg/L	1	10/10/2003
Bromoform	ND	1.0		µg/L	1	10/10/2003
Bromomethane	ND	2.0		µg/L	1	10/10/2003
2-Butanone	ND	10		µg/L	1	10/10/2003
Carbon disulfide	ND	10		µg/L	1	10/10/2003
Carbon Tetrachloride	ND	1.0		µg/L	1	10/10/2003
Chlorobenzene	ND	1.0		µg/L	1	10/10/2003
Chloroethane	ND	2.0		µg/L	1	10/10/2003
Chloroform	ND	1.0		µg/L	1	10/10/2003
Chloromethane	ND	1.0		µg/L	1	10/10/2003
2-Chlorotoluene	ND	1.0		µg/L	1	10/10/2003
4-Chlorotoluene	ND	1.0		µg/L	1	10/10/2003
cis-1,2-DCE	ND	1.0		µg/L	1	10/10/2003
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	10/10/2003

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Hall Environmental Analysis Laboratory

Date: 30-Oct-03

CLIENT: Conoco Phillips

Client Sample ID: West Pond

Lab Order: 0310065

Collection Date: 10/9/2003 8:45:00 AM

Project: Annual Evaporation Pond Sampling

Lab ID: 0310065-02

Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	10/10/2003
✓Dibromochloromethane	ND	1.0		µg/L	1	10/10/2003
✓Dibromomethane	ND	2.0		µg/L	1	10/10/2003
✓1,2-Dichlorobenzene	ND	1.0		µg/L	1	10/10/2003
✓1,3-Dichlorobenzene	ND	1.0		µg/L	1	10/10/2003
✓1,4-Dichlorobenzene	ND	1.0		µg/L	1	10/10/2003
✓Dichlorodifluoromethane	ND	1.0		µg/L	1	10/10/2003
✓1,1-Dichloroethane	ND	1.0		µg/L	1	10/10/2003
✓1,1-Dichloroethene	ND	1.0		µg/L	1	10/10/2003
✓1,2-Dichloropropane	ND	1.0		µg/L	1	10/10/2003
✓1,3-Dichloropropane	ND	1.0		µg/L	1	10/10/2003
✓2,2-Dichloropropane	ND	1.0		µg/L	1	10/10/2003
✓1,1-Dichloropropene	ND	1.0		µg/L	1	10/10/2003
✓Hexachlorobutadiene	ND	1.0		µg/L	1	10/10/2003
✓2-Hexanone	ND	10		µg/L	1	10/10/2003
✓Isopropylbenzene	ND	1.0		µg/L	1	10/10/2003
✓4-Isopropyltoluene	ND	1.0		µg/L	1	10/10/2003
✓4-Methyl-2-pentanone	ND	10		µg/L	1	10/10/2003
✓Methylene Chloride	ND	3.0		µg/L	1	10/10/2003
✓n-Butylbenzene	ND	1.0		µg/L	1	10/10/2003
✓n-Propylbenzene	ND	1.0		µg/L	1	10/10/2003
✓sec-Butylbenzene	ND	1.0		µg/L	1	10/10/2003
✓Styrene	ND	1.0		µg/L	1	10/10/2003
✓tert-Butylbenzene	ND	1.0		µg/L	1	10/10/2003
✓1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	10/10/2003
✓1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	1	10/10/2003
✓Tetrachloroethene (PCE)	ND	1.0		µg/L	1	10/10/2003
✓trans-1,2-DCE	ND	1.0		µg/L	1	10/10/2003
✓trans-1,3-Dichloropropene	ND	1.0		µg/L	1	10/10/2003
✓1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	10/10/2003
✓1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	10/10/2003
✓1,1,1-Trichloroethane	ND	1.0		µg/L	1	10/10/2003
✓1,1,2-Trichloroethane	ND	1.0		µg/L	1	10/10/2003
✓Trichloroethene (TCE)	ND	1.0		µg/L	1	10/10/2003
✓Trichlorofluoromethane	ND	1.0		µg/L	1	10/10/2003
✓1,2,3-Trichloropropane	ND	2.0		µg/L	1	10/10/2003
✓Vinyl chloride	ND	2.0		µg/L	1	10/10/2003
✓Xylenes, Total	ND	1.0		µg/L	1	10/10/2003
✓Surr: 1,2-Dichloroethane-d4	98.5	70.6-124		%REC	1	10/10/2003
✓Surr: 4-Bromofluorobenzene	93.8	76.2-122		%REC	1	10/10/2003
✓Surr: Dibromofluoromethane	91.8	67.2-131		%REC	1	10/10/2003
✓Surr: Toluene-d8	106	82.1-123		%REC	1	10/10/2003

Qualifiers: ND - Not Detected at the Reporting Limit
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S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range

Hall Environmental Analysis Laboratory

Date: 30-Oct-03

CLIENT: Conoco Phillips

Client Sample ID: West Pond

Lab Order: 0310065

Collection Date: 10/9/2003 8:45:00 AM

Project: Annual Evaporation Pond Sampling

Lab ID: 0310065-02

Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
EPA METHOD 8270D: SEMIVOLATILES						Analyst: CS
Acenaphthene	ND	10		µg/L	1	10/23/2003
Acenaphthylene	ND	10		µg/L	1	10/23/2003
Aniline	ND	10		µg/L	1	10/23/2003
Anthracene	ND	10		µg/L	1	10/23/2003
Azobenzene	ND	10		µg/L	1	10/23/2003
Benz(a)anthracene	ND	10		µg/L	1	10/23/2003
Benidine	ND	20		µg/L	1	10/23/2003
Benzo(a)pyrene	ND	10		µg/L	1	10/23/2003
Benzo(b)fluoranthene	ND	10		µg/L	1	10/23/2003
Benzo(g,h,i)perylene	ND	10		µg/L	1	10/23/2003
Benzo(k)fluoranthene	ND	10		µg/L	1	10/23/2003
Benzoic acid	ND	50		µg/L	1	10/23/2003
Benzyl alcohol	ND	20		µg/L	1	10/23/2003
Bis(2-chloroethoxy)methane	ND	10		µg/L	1	10/23/2003
Bis(2-chloroethyl)ether	ND	10		µg/L	1	10/23/2003
Bis(2-chloroisopropyl)ether	ND	10		µg/L	1	10/23/2003
Bis(2-ethylhexyl)phthalate	ND	10		µg/L	1	10/23/2003
4-Bromophenyl phenyl ether	ND	10		µg/L	1	10/23/2003
Butyl benzyl phthalate	ND	10		µg/L	1	10/23/2003
Carbazole	ND	10		µg/L	1	10/23/2003
4-Chloro-3-methylphenol	ND	20		µg/L	1	10/23/2003
4-Chloroaniline	ND	20		µg/L	1	10/23/2003
2-Chloronaphthalene	ND	10		µg/L	1	10/23/2003
2-Chlorophenol	ND	10		µg/L	1	10/23/2003
4-Chlorophenyl phenyl ether	ND	10		µg/L	1	10/23/2003
Chrysene	ND	10		µg/L	1	10/23/2003
Di-n-butyl phthalate	ND	10		µg/L	1	10/23/2003
Di-n-octyl phthalate	ND	10		µg/L	1	10/23/2003
Dibenz(a,h)anthracene	ND	10		µg/L	1	10/23/2003
Dibenzofuran	ND	10		µg/L	1	10/23/2003
1,2-Dichlorobenzene	ND	10		µg/L	1	10/23/2003
1,3-Dichlorobenzene	ND	10		µg/L	1	10/23/2003
1,4-Dichlorobenzene	ND	10		µg/L	1	10/23/2003
3,3'-Dichlorobenzidine	ND	10		µg/L	1	10/23/2003
Diethyl phthalate	ND	10		µg/L	1	10/23/2003
Dimethyl phthalate	ND	10		µg/L	1	10/23/2003
2,4-Dichlorophenol	ND	10		µg/L	1	10/23/2003
2,4-Dimethylphenol	ND	10		µg/L	1	10/23/2003
4,6-Dinitro-2-methylphenol	ND	50		µg/L	1	10/23/2003
2,4-Dinitrophenol	ND	50		µg/L	1	10/23/2003
2,4-Dinitrotoluene	ND	10		µg/L	1	10/23/2003

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 E - Value above quantitation range

Hall Environmental Analysis Laboratory

Date: 30-Oct-03

CLIENT: Conoco Phillips
Lab Order: 0310065
Project: Annual Evaporation Pond Sampling
Lab ID: 0310065-02

Client Sample ID: West Pond
Collection Date: 10/9/2003 8:45:00 AM
Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
2,6-Dinitrotoluene	ND	10		µg/L	1	10/23/2003
Fluoranthene	ND	10		µg/L	1	10/23/2003
Fluorene	ND	10		µg/L	1	10/23/2003
Hexachlorobenzene	ND	10		µg/L	1	10/23/2003
Hexachlorobutadiene	ND	10		µg/L	1	10/23/2003
Hexachlorocyclopentadiene	ND	10		µg/L	1	10/23/2003
Hexachloroethane	ND	10		µg/L	1	10/23/2003
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	10/23/2003
Isophorone	ND	10		µg/L	1	10/23/2003
2-Methylnaphthalene	ND	10		µg/L	1	10/23/2003
2-Methylphenol	ND	10		µg/L	1	10/23/2003
3+4-Methylphenol	ND	10		µg/L	1	10/23/2003
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	10/23/2003
N-Nitrosodiphenylamine	ND	10		µg/L	1	10/23/2003
Naphthalene	ND	10		µg/L	1	10/23/2003
2-Nitroaniline	ND	50		µg/L	1	10/23/2003
3-Nitroaniline	ND	50		µg/L	1	10/23/2003
4-Nitroaniline	ND	20		µg/L	1	10/23/2003
Nitrobenzene	ND	10		µg/L	1	10/23/2003
2-Nitrophenol	ND	10		µg/L	1	10/23/2003
4-Nitrophenol	ND	50		µg/L	1	10/23/2003
Pentachlorophenol	ND	50		µg/L	1	10/23/2003
Phenanthrene	ND	10		µg/L	1	10/23/2003
Phenol	ND	10		µg/L	1	10/23/2003
Pyrene	ND	10		µg/L	1	10/23/2003
Pyridine	ND	10		µg/L	1	10/23/2003
1,2,4-Trichlorobenzene	ND	10		µg/L	1	10/23/2003
2,4,5-Trichlorophenol	ND	10		µg/L	1	10/23/2003
2,4,6-Trichlorophenol	ND	10		µg/L	1	10/23/2003
Surr: 2,4,6-Tribromophenol	2.92	16.6-115	S	%REC	1	10/23/2003
Surr: 2-Fluorobiphenyl	63.9	37-95.7		%REC	1	10/23/2003
Surr: 2-Fluorophenol	3.04	9.54-89.8	S	%REC	1	10/23/2003
Surr: 4-Terphenyl-d14	35.9	47.9-115	S	%REC	1	10/23/2003
Surr: Nitrobenzene-d5	64.5	38-106		%REC	1	10/23/2003
Surr: Phenol-d6	18.8	10.7-63.4		%REC	1	10/23/2003

EPA 120.1: SPECIFIC CONDUCTANCE

Analyst: MAP

Specific Conductance 680000 0.050 µmhos/cm 5 10/14/2003

EPA METHOD 7470: MERCURY

Analyst: MAP

Mercury ND 0.00020 mg/L 1 10/24/2003

EPA METHOD 6010C: DISSOLVED METALS

Analyst: NMO

Calcium 1000 100 mg/L 100 10/14/2003 9:28:51 AM

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank E - Value above quantitation range
* - Value exceeds Maximum Contaminant Level

Hall Environmental Analysis Laboratory

Date: 30-Oct-03

CLIENT: Conoco Phillips**Client Sample ID:** West Pond**Lab Order:** 0310065**Collection Date:** 10/9/2003 8:45:00 AM**Project:** Annual Evaporation Pond Sampling**Lab ID:** 0310065-02**Matrix:** AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
Magnesium	2300	100		mg/L	100	10/14/2003 9:28:51 AM
Potassium	500	100		mg/L	100	10/14/2003 9:28:51 AM
Sodium	69000	1000		mg/L	1000	10/14/2003 9:37:26 AM
EPA 6010C: TOTAL RECOVERABLE METALS						Analyst: NMO
Arsenic	ND	2.0		mg/L	100	10/15/2003 2:33:39 PM
Barium	ND	2.0		mg/L	100	10/15/2003 2:33:39 PM
Cadmium	ND	0.20		mg/L	100	10/15/2003 2:33:39 PM
Chromium	ND	0.60		mg/L	100	10/15/2003 2:33:39 PM
Copper	ND	0.60		mg/L	100	10/15/2003 2:33:39 PM
Iron	ND	2.0		mg/L	100	10/15/2003 2:33:39 PM
Lead	ND	0.50		mg/L	100	10/15/2003 2:33:39 PM
Manganese	0.33	0.20		mg/L	100	10/15/2003 2:33:39 PM
Selenium	ND	2.0		mg/L	100	10/15/2003 2:33:39 PM
Silver	ND	0.50		mg/L	100	10/15/2003 2:33:39 PM
Uranium	ND	10		mg/L	100	10/15/2003 2:33:39 PM
Vanadium	ND	5.0		mg/L	100	10/15/2003 2:33:39 PM
Zinc	ND	5.0		mg/L	100	10/15/2003 2:33:39 PM
EPA METHOD 150.1: PH						Analyst: MAP
pH	8.22	0.010		pH units	1	10/14/2003
EPA METHOD 160.1: TDS						Analyst: MAP
Total Dissolved Solids	190000	1.0		mg/L	1	10/15/2003

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Hall Environmental Analysis Laboratory

Date: 30-Oct-03

CLIENT: Conoco Phillips

Client Sample ID: Trip Blank

Lab Order: 0310065

Collection Date:

Project: Annual Evaporation Pond Sampling

Lab ID: 0310065-03

Matrix: TRIP BLANK

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: JDC
Benzene	ND	1.0		µg/L	1	10/10/2003
Toluene	ND	1.0		µg/L	1	10/10/2003
Ethylbenzene	ND	1.0		µg/L	1	10/10/2003
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	10/10/2003
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	10/10/2003
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	10/10/2003
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	10/10/2003
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	10/10/2003
Naphthalene	ND	2.0		µg/L	1	10/10/2003
1-Methylnaphthalene	ND	4.0		µg/L	1	10/10/2003
2-Methylnaphthalene	ND	4.0		µg/L	1	10/10/2003
Acetone	ND	10		µg/L	1	10/10/2003
Bromobenzene	ND	1.0		µg/L	1	10/10/2003
Bromochloromethane	ND	1.0		µg/L	1	10/10/2003
Bromodichloromethane	ND	1.0		µg/L	1	10/10/2003
Bromoform	ND	1.0		µg/L	1	10/10/2003
Bromomethane	ND	2.0		µg/L	1	10/10/2003
2-Butanone	ND	10		µg/L	1	10/10/2003
Carbon disulfide	ND	10		µg/L	1	10/10/2003
Carbon Tetrachloride	ND	1.0		µg/L	1	10/10/2003
Chlorobenzene	ND	1.0		µg/L	1	10/10/2003
Chloroethane	ND	2.0		µg/L	1	10/10/2003
Chloroform	ND	1.0		µg/L	1	10/10/2003
Chloromethane	ND	1.0		µg/L	1	10/10/2003
2-Chlorotoluene	ND	1.0		µg/L	1	10/10/2003
4-Chlorotoluene	ND	1.0		µg/L	1	10/10/2003
cis-1,2-DCE	ND	1.0		µg/L	1	10/10/2003
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	10/10/2003
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	10/10/2003
Dibromochloromethane	ND	1.0		µg/L	1	10/10/2003
Dibromomethane	ND	2.0		µg/L	1	10/10/2003
1,2-Dichlorobenzene	ND	1.0		µg/L	1	10/10/2003
1,3-Dichlorobenzene	ND	1.0		µg/L	1	10/10/2003
1,4-Dichlorobenzene	ND	1.0		µg/L	1	10/10/2003
Dichlorodifluoromethane	ND	1.0		µg/L	1	10/10/2003
1,1-Dichloroethane	ND	1.0		µg/L	1	10/10/2003
1,1-Dichloroethene	ND	1.0		µg/L	1	10/10/2003
1,2-Dichloropropane	ND	1.0		µg/L	1	10/10/2003
1,3-Dichloropropane	ND	1.0		µg/L	1	10/10/2003
2,2-Dichloropropane	ND	1.0		µg/L	1	10/10/2003
1,1-Dichloropropene	ND	1.0		µg/L	1	10/10/2003

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

Hall Environmental Analysis Laboratory

Date: 30-Oct-03

CLIENT: Conoco Phillips

Client Sample ID: Trip Blank

Lab Order: 0310065

Collection Date:

Project: Annual Evaporation Pond Sampling

Lab ID: 0310065-03

Matrix: TRIP BLANK

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
Hexachlorobutadiene	ND	1.0		µg/L	1	10/10/2003
2-Hexanone	ND	10		µg/L	1	10/10/2003
Isopropylbenzene	ND	1.0		µg/L	1	10/10/2003
4-Isopropyltoluene	ND	1.0		µg/L	1	10/10/2003
4-Methyl-2-pentanone	ND	10		µg/L	1	10/10/2003
Methylene Chloride	ND	3.0		µg/L	1	10/10/2003
n-Butylbenzene	ND	1.0		µg/L	1	10/10/2003
n-Propylbenzene	ND	1.0		µg/L	1	10/10/2003
sec-Butylbenzene	ND	1.0		µg/L	1	10/10/2003
Styrene	ND	1.0		µg/L	1	10/10/2003
tert-Butylbenzene	ND	1.0		µg/L	1	10/10/2003
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	10/10/2003
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	1	10/10/2003
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	10/10/2003
trans-1,2-DCE	ND	1.0		µg/L	1	10/10/2003
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	10/10/2003
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	10/10/2003
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	10/10/2003
1,1,1-Trichloroethane	ND	1.0		µg/L	1	10/10/2003
1,1,2-Trichloroethane	ND	1.0		µg/L	1	10/10/2003
Trichloroethene (TCE)	ND	1.0		µg/L	1	10/10/2003
Trichlorofluoromethane	ND	1.0		µg/L	1	10/10/2003
1,2,3-Trichloropropane	ND	2.0		µg/L	1	10/10/2003
Vinyl chloride	ND	2.0		µg/L	1	10/10/2003
Xylenes, Total	ND	1.0		µg/L	1	10/10/2003
Surr: 1,2-Dichloroethane-d4	95.5	70.6-124		%REC	1	10/10/2003
Surr: 4-Bromofluorobenzene	95.1	76.2-122		%REC	1	10/10/2003
Surr: Dibromofluoromethane	93.7	67.2-131		%REC	1	10/10/2003
Surr: Toluene-d8	106	82.1-123		%REC	1	10/10/2003

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

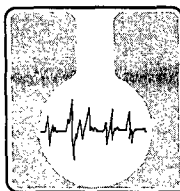
J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level



ASSAIGAI ANALYTICAL LABORATORIES, INC.

4301 Masthead NE • Albuquerque, New Mexico 87109 • (505) 345-8964 • FAX (505) 345-7259

3332 Wedgewood, Ste. N • El Paso, Texas 79925 • (915) 593-6000 • FAX (915) 593-7820

127 Eastgate Drive, 212-C • Los Alamos, New Mexico 87544 • (505) 662-2558

Explanation of codes

B	analyte detected in Method Blank
E	result is estimated
H	analyzed out of hold time
N	tentatively identified compound
S	subcontracted
1-9	see footnote

HALL ENVIRONMENTAL

attn: **ANDY FREEMAN**

4901 HAWKINS NE, SUITE D

ALBUQUERQUE

NM 87109-4372

STANDARD

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: **HALL ENVIRONMENTAL**

Project: **ANNUAL EVAPORATION POND SAMPLING**

Order: **0310235 HAL03** Receipt: **10-10-03**

William P. Bleva
William P. Bleva: President of Assaigai Analytical Laboratories, Inc.

Sample: **EAST POND**

Collected: **10-09-03 8:45:00** By:

Matrix: **AQUEOUS**

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
By: NJL										
0310235-01A			EPA 405.1 Biochemical Oxygen Demand							
BOD03183	WC.2003.2531.10		Biochemical Oxygen Demand	ND	mg/L	1	2		10-10-03	10-15-03
By: MML										
0310235-01B			EPA 410.1 Chemical Oxygen Demand							
COD03022	WC.2003.2579.4		Chemical Oxygen Demand	1020	mg / L	10	10		10-16-03	10-17-03
By: MDE										
0310235-01C			SM-9223B							
BT03280	BT.2003.806.9		E. coli, MMO/MUG	Absent	N/A	1	0		10-10-03	10-11-03
BT03280	BT.2003.806.9		Total Coliform, MMO/MUG	Present	N/A	1	0		10-10-03	10-11-03

Sample: **WEST POND**

Collected: **10-09-03 8:45:00** By:

Matrix: **AQUEOUS**

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Prep Date	Run Date
By: NJL										
0310235-02A			EPA 405.1 Biochemical Oxygen Demand							
BOD03183	WC.2003.2531.11		Biochemical Oxygen Demand	ND	mg/L	1	2		10-10-03	10-15-03
By: MML										
0310235-02B			EPA 410.1 Chemical Oxygen Demand							
COD03022	WC.2003.2579.5		Chemical Oxygen Demand	9230	mg / L	10	10		10-16-03	10-17-03
By: MDE										
0310235-02C			SM-9223B							
BT03280	BT.2003.806.10		E. coli, MMO/MUG	Absent	N/A	1	0		10-10-03	10-11-03
BT03280	BT.2003.806.10		Total Coliform, MMO/MUG	Present	N/A	1	0		10-10-03	10-11-03



SQLCoyote: Reports 1.0.0307301320XX

Report Date 10/20/2003 2:24:50 PM

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Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: **HALL ENVIRONMENTAL**
Project: **ANNUAL EVAPORATION POND SAMPLING**
Order: **0310235 HAL03** Receipt: **10-10-03**

Unless otherwise noted, all samples were received in acceptable condition and all sampling was performed by client or client representative. Sample result of ND indicates Not Detected, ie result is less than the sample specific Detection Limit. Sample specific Detection Limit is determined by multiplying the sample Dilution Factor by the listed Reporting Detection Limit. All results relate only to the items tested. Any miscellaneous workorder information or footnotes will appear below.

Hall Environmental Analysis Laboratory

Date: 29-Oct-03

CLIENT: Conoco Phillips
Work Order: 0310065
Project: Annual Evaporation Pond Sampling

QC SUMMARY REPORT

Method Blank

Sample ID	mb 101003	Batch ID:	R9787	Test Code:	E300	Units:	mg/L	Analysis Date	10/10/2003 9:21:27 AM	Prep Date	
Client ID:		Run ID:	LC_031010A	SeqNo:	219940						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoride	ND	0.10									
Chloride	ND	0.10									
Nitrogen, Nitrite (As N)	ND	0.10									
Bromide	ND	0.10									
Nitrogen, Nitrate (As N)	ND	0.10									
Phosphorus, Orthophosphate (As P)	ND	0.50									
Sulfate	ND	0.50									

Sample ID	MBLK	Batch ID:	R9799	Test Code:	E310.1	Units:	mg/L CaCO3	Analysis Date	10/14/2003	Prep Date	
Client ID:		Run ID:	WC_031014A	SeqNo:	220255						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Alkalinity, Total (As CaCO3)	ND	2.0									
Carbonate	ND	2.0									
Bicarbonate	ND	2.0									

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Conoco Phillips
Work Order: 0310065
Project: Annual Evaporation Pond Sampling

QC SUMMARY REPORT

Method Blank

Sample ID	MB-4478	Batch ID: 4478	Test Code: SW8270A	Units: µg/L	Analysis Date	10/22/2003	Prep Date	10/14/2003			
Client ID:		Run ID:	ELMO_031022A		SeqNo:	222215					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	ND	10									
Acenaphthylene	ND	10									
Aniline	ND	10									
Anthracene	ND	10									
Azobenzene	ND	10									
Benz(a)anthracene	ND	10									
Benzidine	ND	20									
Benzo(a)pyrene	ND	10									
Benzo(b)fluoranthene	ND	10									
Benzo(g,h,i)perylene	ND	10									
Benzo(k)fluoranthene	ND	10									
Benzoic acid	ND	50									
Benzyl alcohol	ND	20									
Bis(2-chloroethoxy)methane	ND	10									
Bis(2-chloroethyl)ether	ND	10									
Bis(2-chloroisopropyl)ether	ND	10									
Bis(2-ethylhexyl)phthalate	ND	10									
4-Bromophenyl phenyl ether	ND	10									
Butyl benzyl phthalate	ND	10									
Carbazole	ND	10									
4-Chloro-3-methylphenol	ND	20									
4-Chloroaniline	ND	20									
2-Chloronaphthalene	ND	10									
2-Chlorophenol	ND	10									
4-Chlorophenyl phenyl ether	ND	10									
Chrysene	ND	10									
Di-n-butyl phthalate	ND	10									
Di-n-octyl phthalate	ND	10									

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Conoco Phillips
Work Order: 0310065
Project: Annual Evaporation Pond Sampling

QC SUMMARY REPORT

Method Blank

Dibenz(a,h)anthracene	ND	10
Dibenzofuran	ND	10
1,2-Dichlorobenzene	ND	10
1,3-Dichlorobenzene	ND	10
1,4-Dichlorobenzene	ND	10
3,3'-Dichlorobenzidine	ND	10
Diethyl phthalate	ND	10
Dimethyl phthalate	ND	10
2,4-Dichlorophenol	ND	10
2,4-Dimethylphenol	ND	10
4,6-Dinitro-2-methylphenol	ND	50
2,4-Dinitrophenol	ND	50
2,4-Dinitrotoluene	ND	10
2,6-Dinitrotoluene	ND	10
Fluoranthene	ND	10
Fluorene	ND	10
Hexachlorobenzene	ND	10
Hexachlorobutadiene	ND	10
Hexachlorocyclopentadiene	ND	10
Hexachloroethane	ND	10
Indeno(1,2,3-cd)pyrene	ND	10
Isophorone	ND	10
2-Methylnaphthalene	ND	10
2-Methylphenol	ND	10
3+4-Methylphenol	ND	10
N-Nitrosodi-n-propylamine	ND	10
N-Nitrosodiphenylamine	ND	10
Naphthalene	ND	10
2-Nitroaniline	ND	50
3-Nitroaniline	ND	50
4-Nitroaniline	ND	20
Nitrobenzene	ND	10
2-Nitrophenol	ND	10

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Conoco Phillips
Work Order: 0310065
Project: Annual Evaporation Pond Sampling

QC SUMMARY REPORT

Method Blank

4-Nitrophenol	ND	50									
Pentachlorophenol	ND	50									
Phenanthrene	ND	10									
Phenol	ND	10									
Pyrene	ND	10									
Pyridine	ND	10									
1,2,4-Trichlorobenzene	ND	10									
2,4,5-Trichlorophenol	ND	10									
2,4,6-Trichlorophenol	ND	10									
Surr: 2,4,6-Tribromophenol	175.3	0	200	0	87.7	16.6	115	0			
Surr: 2-Fluorobiphenyl	82.34	0	100	0	82.3	37	95.7	0			
Surr: 2-Fluorophenol	147.1	0	200	0	73.5	9.54	89.8	0			
Surr: 4-Terphenyl-d14	87.68	0	100	0	87.7	70	130	0			
Surr: Nitrobenzene-d5	87.62	0	100	0	87.6	38	106	0			
Surr: Phenol-d6	112.2	0	200	0	56.1	10.7	63.4	0			

Sample ID	MB-4534	Batch ID:	4534	Test Code:	SW7470	Units:	mg/L	Analysis Date	10/24/2003	Prep Date	10/24/2003
Client ID:		Run ID:	MI-LA254_031024A	SeqNo:	222544						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.00020									

Sample ID	BLK	Batch ID:	R9797	Test Code:	SW6010A	Units:	mg/L	Analysis Date	10/14/2003 8:23:44 AM	Prep Date	
Client ID:		Run ID:	ICP_031014A	SeqNo:	220197						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium	ND	1.0									
Magnesium	ND	1.0									
Potassium	ND	1.0									
Sodium	ND	1.0									

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits

CLIENT: Conoco Phillips
Work Order: 0310065
Project: Annual Evaporation Pond Sampling

QC SUMMARY REPORT

Method Blank

Sample ID MB-4463	Batch ID: 4463	Test Code: E160.1	Units: mg/L	Analysis Date 10/15/2003	Prep Date 10/13/2003						
Client ID:		Run ID: WC_031015A		SeqNo: 220549							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	1.0									

Sample ID MB-4502	Batch ID: 4502	Test Code: E160.1	Units: mg/L	Analysis Date 10/20/2003	Prep Date 10/17/2003						
Client ID:		Run ID: WC_031020A		SeqNo: 221383							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	1.0									

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory

Date: 29-Oct-03

CLIENT: Conoco Phillips
Work Order: 0310065
Project: Annual Evaporation Pond Sampling

QC SUMMARY REPORT

Method Blank

Sample ID	5ML RB	Batch ID:	R9784	Test Code:	SW8260B	Units:	µg/L	Analysis Date	10/10/2003	Prep Date	
Client ID:		Run ID:	NEPTUNE_031010A	SeqNo:	219870						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	1.0									
Toluene	ND	1.0									
Ethylbenzene	ND	1.0									
Methyl tert-butyl ether (MTBE)	ND	1.0									
1,2,4-Trimethylbenzene	ND	1.0									
1,3,5-Trimethylbenzene	ND	1.0									
1,2-Dichloroethane (EDC)	ND	1.0									
1,2-Dibromoethane (EDB)	ND	1.0									
Naphthalene	ND	2.0									
1-Methylnaphthalene	ND	4.0									
2-Methylnaphthalene	ND	4.0									
Acetone	ND	10									
Bromobenzene	ND	1.0									
Bromochloromethane	ND	1.0									
Bromodichloromethane	ND	1.0									
Bromoform	ND	1.0									
Bromomethane	ND	2.0									
2-Butanone	ND	10									
Carbon disulfide	ND	10									
Carbon Tetrachloride	ND	1.0									
Chlorobenzene	ND	1.0									
Chloroethane	ND	2.0									
Chloroform	ND	1.0									
Chloromethane	ND	1.0									
2-Chlorotoluene	ND	1.0									
4-Chlorotoluene	ND	1.0									
cis-1,2-DCE	ND	1.0									

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Conoco Phillips
Work Order: 0310065
Project: Annual Evaporation Pond Sampling

QC SUMMARY REPORT

Method Blank

cis-1,3-Dichloropropene	ND	1.0
1,2-Dibromo-3-chloropropane	ND	2.0
Dibromochloromethane	ND	1.0
Dibromomethane	ND	2.0
1,2-Dichlorobenzene	ND	1.0
1,3-Dichlorobenzene	ND	1.0
1,4-Dichlorobenzene	ND	1.0
Dichlorodifluoromethane	ND	1.0
1,1-Dichloroethane	ND	1.0
1,1-Dichloroethene	ND	1.0
1,2-Dichloropropane	ND	1.0
1,3-Dichloropropane	ND	1.0
2,2-Dichloropropane	ND	1.0
1,1-Dichloropropene	ND	1.0
Hexachlorobutadiene	ND	1.0
2-Hexanone	ND	10
Isopropylbenzene	ND	1.0
4-Isopropyltoluene	ND	1.0
4-Methyl-2-pentanone	ND	10
Methylene Chloride	ND	3.0
n-Butylbenzene	ND	1.0
n-Propylbenzene	ND	1.0
sec-Butylbenzene	ND	1.0
Styrene	ND	1.0
tert-Butylbenzene	ND	1.0
1,1,1,2-Tetrachloroethane	ND	1.0
1,1,2,2-Tetrachloroethane	ND	1.0
Tetrachloroethene (PCE)	ND	1.0
trans-1,2-DCE	ND	1.0
trans-1,3-Dichloropropene	ND	1.0
1,2,3-Trichlorobenzene	ND	1.0
1,2,4-Trichlorobenzene	ND	1.0
1,1,1-Trichloroethane	ND	1.0

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Conoco Phillips
Work Order: 0310065
Project: Annual Evaporation Pond Sampling

QC SUMMARY REPORT

Method Blank

1,1,2-Trichloroethane	ND	1.0						
Trichloroethene (TCE)	ND	1.0						
Trichlorofluoromethane	ND	1.0						
1,2,3-Trichloropropane	ND	2.0						
Vinyl chloride	ND	2.0						
Xylenes, Total	ND	1.0						
Surr: 1,2-Dichloroethane-d4	9.316	0	10	0	93.2	68.4	127	0
Surr: 4-Bromofluorobenzene	9.446	0	10	0	94.5	70.4	126	0
Surr: Dibromofluoromethane	9.392	0	10	0	93.9	70.2	126	0
Surr: Toluene-d8	10.73	0	10	0	107	73.5	129	0

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Hall Environmental Analysis Laboratory

Date: 29-Oct-03

CLIENT: Conoco Phillips
 Work Order: 0310065
 Project: Annual Evaporation Pond Sampling

QC SUMMARY REPORT

Sample Duplicate

Sample ID	0310065-01F	Batch ID:	4534	Test Code:	SW7470	Units:	mg/L	Analysis Date	10/24/2003	Prep Date	10/24/2003
Client ID:	East Pond	Run ID:	MI-LA254_031024A	SeqNo:	222548						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.00020	0	0	0	0	0	0	0	20	

Sample ID	0310065-02G DUP	Batch ID:	4471	Test Code:	SW6010A	Units:	mg/L	Analysis Date	10/15/2003 2:36:11 PM	Prep Date	10/14/2003
Client ID:	West Pond	Run ID:	ICP_031015B	SeqNo:	220688						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	2.0	0	0	0	0	0	0	0	30	
Barium	ND	2.0	0	0	0	0	0	0	0	30	
Cadmium	ND	0.20	0	0	0	0	0	0	0	30	
Chromium	ND	0.60	0	0	0	0	0	0	0	30	
Copper	ND	0.60	0	0	0	0	0	0	0	30	
Iron	ND	2.0	0	0	0	0	0	0	0	30	
Lead	ND	0.50	0	0	0	0	0	0.1508	0	30	
Manganese	0.3327	0.20	0	0	0	0	0	0.3273	1.62	30	
Selenium	0.7379	2.0	0	0	0	0	0	0	0	30	J
Silver	ND	0.50	0	0	0	0	0	0	0	30	
Uranium	ND	10	0	0	0	0	0	0.6305	0	30	
Zinc	ND	5.0	0	0	0	0	0	0	0	30	

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Hall Environmental Analysis Laboratory

Date: 29-Oct-03

CLIENT: Conoco Phillips
Work Order: 0310065
Project: Annual Evaporation Pond Sampling

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID	0310065-01F	Batch ID:	4534	Test Code:	SW7470	Units:	mg/L	Analysis Date	10/24/2003	Prep Date	10/24/2003	
Client ID:	East Pond	Run ID:	MI-LA254_031024A	SeqNo:	222549							
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		0.005255	0.00020	0.005	0	105	75.2	134	0			

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Hall Environmental Analysis Laboratory

Date: 29-Oct-03

CLIENT: Conoco Phillips
Work Order: 0310065
Project: Annual Evaporation Pond Sampling

QC SUMMARY REPORT
Laboratory Control Spike - generic

Sample ID	ics 101003	Batch ID:	R9787	Test Code:	E300	Units:	mg/L	Analysis Date	10/10/2003 9:38:12 AM	Prep Date	
Client ID:		Run ID:	LC_031010A	SeqNo:	219941						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoride	0.5466	0.10	0.5	0	109	90	110	0			
Chloride	5.312	0.10	5	0	106	90	110	0			
Nitrogen, Nitrite (As N)	1.022	0.10	1	0	102	90	110	0			
Bromide	2.457	0.10	2.5	0	98.3	90	110	0			
Nitrogen, Nitrate (As N)	2.517	0.10	2.5	0	101	90	110	0			
Phosphorus, Orthophosphate (As P)	4.642	0.50	5	0	92.8	90	110	0			
Sulfate	10.11	0.50	10	0	101	90	110	0			

Sample ID	100ng Ics	Batch ID:	R9784	Test Code:	SW8260B	Units:	µg/L	Analysis Date	10/10/2003	Prep Date	
Client ID:		Run ID:	NEPTUNE_031010A	SeqNo:	219871						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	19.91	1.0	20	0	99.5	71.2	122	0			
Toluene	21.26	1.0	20	0	106	87.7	122	0			
Chlorobenzene	22.78	1.0	20	0	114	85.6	136	0			
1,1-Dichloroethene	21.97	1.0	20	0	110	70.7	117	0			
Trichloroethene (TCE)	19.59	1.0	20	0	98.0	76.9	130	0			

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Conoco Phillips
Work Order: 0310065
Project: Annual Evaporation Pond Sampling

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID	LCS-4478	Batch ID:	4478	Test Code:	SW8270A	Units:	µg/L	Analysis Date	10/22/2003	Prep Date	10/14/2003
Client ID:		Run ID:	ELMO_031022A	SeqNo:	222216						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	81.78	10	100	0	81.8	43.1	89.9	0			
4-Chloro-3-methylphenol	172.2	20	200	0	86.1	44.1	93.2	0			
2-Chlorophenol	173.9	10	200	0	86.9	20.7	98	0			
1,4-Dichlorobenzene	74.46	10	100	0	74.5	24.1	90.7	0			
2,4-Dinitrotoluene	86.86	10	100	0	86.9	43.2	101	0			
N-Nitrosodi-n-propylamine	78.32	10	100	0	78.3	44.6	99.9	0			
4-Nitrophenol	89.96	50	200	0	45.0	11	57.5	0			
Pentachlorophenol	162.5	50	200	0	81.3	8.65	105	0			
Phenol	95.96	10	200	0	48.0	21.1	55.3	0			
Pyrene	86.14	10	100	0	86.1	35.7	111	0			
1,2,4-Trichlorobenzene	73.88	10	100	0	73.9	30.2	89.6	0			

Sample ID	LCSD-4478	Batch ID:	4478	Test Code:	SW8270A	Units:	µg/L	Analysis Date	10/22/2003	Prep Date	10/14/2003
Client ID:		Run ID:	ELMO_031022A	SeqNo:	222217						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	80.3	10	100	0	80.3	43.1	89.9	81.78	1.83	30.5	
4-Chloro-3-methylphenol	172.5	20	200	0	86.3	44.1	93.2	172.2	0.201	28.6	
2-Chlorophenol	127.8	10	200	0	63.9	20.7	98	173.9	30.6	107	
1,4-Dichlorobenzene	66.8	10	100	0	66.8	24.1	90.7	74.46	10.8	62.1	
2,4-Dinitrotoluene	90.02	10	100	0	90.0	43.2	101	86.86	3.57	14.7	
N-Nitrosodi-n-propylamine	74.8	10	100	0	74.8	44.6	99.9	78.32	4.60	30.3	
4-Nitrophenol	33.38	30	200	0	16.7	11	57.5	89.96	91.7	36.3	R
Pentachlorophenol	88.86	50	200	0	44.4	8.65	105	162.5	58.6	49	R
Phenol	81.54	10	200	0	40.8	21.1	55.3	95.96	16.2	52.4	
Pyrene	90.08	10	100	0	90.1	35.7	111	86.14	4.47	16.3	
1,2,4-Trichlorobenzene	73.3	10	100	0	73.3	30.2	89.6	73.88	0.788	36.4	

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits

CLIENT: Conoco Phillips
Work Order: 0310065
Project: Annual Evaporation Pond Sampling

QC SUMMARY REPORT
Laboratory Control Spike - generic

Sample ID	LCS-4534	Batch ID:	4534	Test Code:	SW7470	Units:	mg/L	Analysis Date	10/24/2003	Prep Date	10/24/2003	
Client ID:		Run ID:	MI-LA254_031024A	SeqNo:	222545							
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		0.005051	0.00020	0.005	0	101	75.2	134	0			

Sample ID	LCSD-4534	Batch ID:	4534	Test Code:	SW7470	Units:	mg/L	Analysis Date	10/24/2003	Prep Date	10/24/2003	
Client ID:		Run ID:	MI-LA254_031024A	SeqNo:	222546							
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		0.004636	0.00020	0.005	0	92.7	75.2	134	0.005051	8.57	0	

Sample ID	LCS	Batch ID:	R9797	Test Code:	SW6010A	Units:	mg/L	Analysis Date	10/14/2003 8:26:13 AM	Prep Date		
Client ID:		Run ID:	ICP_031014A	SeqNo:	220198							
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium		50.68	1.0	50.5	0	100	80	120	0			
Magnesium		49.41	1.0	50.5	0	97.8	80	120	0			
Potassium		52.12	1.0	55	0	94.8	80	120	0			
Sodium		47.88	1.0	50.5	0	94.8	80	120	0			

Sample ID	LCSD	Batch ID:	R9797	Test Code:	SW6010A	Units:	mg/L	Analysis Date	10/14/2003 8:27:37 AM	Prep Date		
Client ID:		Run ID:	ICP_031014A	SeqNo:	220199							
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Calcium		50.33	1.0	50.5	0	99.7	80	120	50.68	0.684	20	
Magnesium		49.98	1.0	50.5	0	99.0	80	120	49.41	1.14	20	
Potassium		51.84	1.0	55	0	94.2	80	120	52.12	0.550	20	
Sodium		47.58	1.0	50.5	0	94.2	80	120	47.88	0.636	20	

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits

CLIENT: Conoco Phillips
Work Order: 0310065
Project: Annual Evaporation Pond Sampling

QC SUMMARY REPORT
 Laboratory Control Spike - generic

Sample ID	LCS-4471	Batch ID:	4471	Test Code:	SW6010A	Units:	mg/L	Analysis Date	10/15/2003 1:20:33 PM	Prep Date	10/14/2003
Client ID:		Run ID:	ICP_031015B	SeqNo:	220678						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.498	0.020	0.5	0	99.6	80	120	0			
Barium	0.505	0.020	0.5	0	101	80	120	0			
Cadmium	0.4951	0.0020	0.5	0	99.0	80	120	0			
Chromium	0.5081	0.0060	0.5	0	102	80	120	0			
Copper	0.5092	0.0060	0.5	0.003037	101	80	120	0			
Iron	0.4646	0.020	0.5	0.003355	92.3	80	120	0			
Lead	0.4925	0.0050	0.5	0	98.5	80	120	0			
Manganese	0.4901	0.0020	0.5	0.001505	97.7	80	120	0			
Selenium	0.4944	0.020	0.5	0	98.9	80	120	0			
Silver	0.4795	0.0050	0.5	0.001128	95.7	80	120	0			
Uranium	0.5086	0.10	0.5	0	102	80	120	0			
Zinc	0.5083	0.050	0.5	0.008432	100	80	120	0			

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits

CLIENT: Conoco Phillips
Work Order: 0310065
Project: Annual Evaporation Pond Sampling

QC SUMMARY REPORT

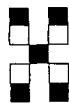
Laboratory Control Spike Duplicate

Sample ID	LCSD-4471	Batch ID:	4471	Test Code:	SW6010A	Units:	mg/L	Analysis Date	10/15/2003 1:23:34 PM	Prep Date	10/14/2003
Client ID:		Run ID:	ICP_031015B	SeqNo:	220679						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.5102	0.020	0.5	0	102	80	120	0.498	2.41	20	
Barium	0.5193	0.020	0.5	0	104	80	120	0.505	2.78	20	
Cadmium	0.5084	0.0020	0.5	0	102	80	120	0.4951	2.65	20	
Chromium	0.5213	0.0060	0.5	0	104	80	120	0.5081	2.57	20	
Copper	0.5245	0.0060	0.5	0.003037	104	80	120	0.5092	2.96	20	
Iron	0.4799	0.020	0.5	0.003355	95.3	80	120	0.4646	3.24	20	
Lead	0.5088	0.0050	0.5	0	102	80	120	0.4925	3.26	20	
Manganese	0.5024	0.0020	0.5	0.001505	100	80	120	0.4901	2.49	20	
Selenium	0.4994	0.020	0.5	0	99.9	80	120	0.4944	1.01	20	
Silver	0.4936	0.0050	0.5	0.001128	98.5	80	120	0.4795	2.89	20	
Uranium	0.5296	0.10	0.5	0	106	80	120	0.5086	4.05	20	
Zinc	0.5226	0.050	0.5	0.008432	103	80	120	0.5083	2.78	20	

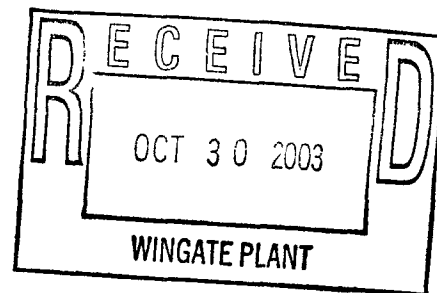
Sample ID	LCS-4463	Batch ID:	4463	Test Code:	E160.1	Units:	mg/L	Analysis Date	10/15/2003	Prep Date	10/13/2003
Client ID:		Run ID:	WC_031015A	SeqNo:	220550						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids	1001	1.0	1000	0	100	80	120	0			

Sample ID	LCS-4502	Batch ID:	4502	Test Code:	E160.1	Units:	mg/L	Analysis Date	10/20/2003	Prep Date	10/17/2003
Client ID:		Run ID:	WC_031020A	SeqNo:	221384						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids	1004	1.0	1000	0	100	80	120	0			

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits



**Hall Environmental
Analysis Laboratory**



COVER LETTER

October 28, 2003

Beverly Cox
Conoco Phillips Wingate Fractionator
P. O. Box 119
Rehoboth, NM 87322
TEL: (505) 863-1023
FAX (505) 863-1047

RE: Annual Evaporation Pond Sampling

Order No.: 0310177

Dear Beverly Cox:

Hall Environmental Analysis Laboratory received 2 samples on 10/24/2003 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent.

Reporting limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Business Manager
Nancy McDuffie, Laboratory Manager

Hall Environmental Analysis Laboratory

Date: 28-Oct-03

CLIENT: Conoco Phillips Wingate Fractionator
Lab Order: 0310177
Project: Annual Evaporation Pond Sampling
Lab ID: 0310177-01

Client Sample ID: EAST POND
Collection Date: 10/23/2003 7:30:00 AM
Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: BL
✓ Benzene	ND	1.0		µg/L	1	10/24/2003
✓ Toluene	ND	1.0		µg/L	1	10/24/2003
✓ Ethylbenzene	ND	1.0		µg/L	1	10/24/2003
✓ Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	10/24/2003
✓ 1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	10/24/2003
✓ 1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	10/24/2003
✓ 1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	10/24/2003
✓ 1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	10/24/2003
✓ Naphthalene	ND	2.0		µg/L	1	10/24/2003
✓ 1-Methylnaphthalene	ND	4.0		µg/L	1	10/24/2003
✓ 2-Methylnaphthalene	ND	4.0		µg/L	1	10/24/2003
✓ Acetone	ND	10		µg/L	1	10/24/2003
✓ Bromobenzene	ND	1.0		µg/L	1	10/24/2003
✓ Bromochloromethane	ND	1.0		µg/L	1	10/24/2003
✓ Bromodichloromethane	ND	1.0		µg/L	1	10/24/2003
✓ Bromoform	ND	1.0		µg/L	1	10/24/2003
✓ Bromomethane	ND	2.0		µg/L	1	10/24/2003
✓ 2-Butanone	ND	10		µg/L	1	10/24/2003
✓ Carbon disulfide	ND	10		µg/L	1	10/24/2003
✓ Carbon Tetrachloride	ND	1.0		µg/L	1	10/24/2003
✓ Chlorobenzene	ND	1.0		µg/L	1	10/24/2003
✓ Chloroethane	ND	2.0		µg/L	1	10/24/2003
✓ Chloroform	ND	1.0		µg/L	1	10/24/2003
✓ Chloromethane	ND	1.0		µg/L	1	10/24/2003
✓ 2-Chlorotoluene	ND	1.0		µg/L	1	10/24/2003
✓ 4-Chlorotoluene	ND	1.0		µg/L	1	10/24/2003
✓ cis-1,2-DCE	ND	1.0		µg/L	1	10/24/2003
✓ cis-1,3-Dichloropropene	ND	1.0		µg/L	1	10/24/2003
✓ 1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	10/24/2003
✓ Dibromochloromethane	ND	1.0		µg/L	1	10/24/2003
✓ Dibromomethane	ND	2.0		µg/L	1	10/24/2003
✓ 1,2-Dichlorobenzene	ND	1.0		µg/L	1	10/24/2003
✓ 1,3-Dichlorobenzene	ND	1.0		µg/L	1	10/24/2003
✓ 1,4-Dichlorobenzene	ND	1.0		µg/L	1	10/24/2003
✓ Dichlorodifluoromethane	ND	1.0		µg/L	1	10/24/2003
✓ 1,1-Dichloroethane	ND	1.0		µg/L	1	10/24/2003
✓ 1,1-Dichloroethene	ND	1.0		µg/L	1	10/24/2003
✓ 1,2-Dichloropropane	ND	1.0		µg/L	1	10/24/2003
✓ 1,3-Dichloropropane	ND	1.0		µg/L	1	10/24/2003
✓ 2,2-Dichloropropane	ND	1.0		µg/L	1	10/24/2003
✓ 1,1-Dichloropropene	ND	1.0		µg/L	1	10/24/2003

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Hall Environmental Analysis Laboratory

Date: 28-Oct-03

CLIENT: Conoco Phillips Wingate Fractionator
Lab Order: 0310177
Project: Annual Evaporation Pond Sampling
Lab ID: 0310177-01

Client Sample ID: EAST POND
Collection Date: 10/23/2003 7:30:00 AM
Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
✓ Hexachlorobutadiene	ND	1.0		µg/L	1	10/24/2003
✓ 2-Hexanone	ND	10		µg/L	1	10/24/2003
Isopropylbenzene	ND	1.0		µg/L	1	10/24/2003
✓ 4-Isopropyltoluene	ND	1.0		µg/L	1	10/24/2003
✓ 4-Methyl-2-pentanone	ND	10		µg/L	1	10/24/2003
✓ Methylene Chloride	ND	3.0		µg/L	1	10/24/2003
✓ n-Butylbenzene	ND	1.0		µg/L	1	10/24/2003
✓ n-Propylbenzene	ND	1.0		µg/L	1	10/24/2003
✓ sec-Butylbenzene	ND	1.0		µg/L	1	10/24/2003
✓ Styrene	ND	1.0		µg/L	1	10/24/2003
✓ tert-Butylbenzene	ND	1.0		µg/L	1	10/24/2003
✓ 1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	10/24/2003
✓ 1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	1	10/24/2003
✓ Tetrachloroethene (PCE)	ND	1.0		µg/L	1	10/24/2003
✓ trans-1,2-DCE	ND	1.0		µg/L	1	10/24/2003
✓ trans-1,3-Dichloropropene	ND	1.0		µg/L	1	10/24/2003
✓ 1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	10/24/2003
✓ 1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	10/24/2003
✓ 1,1,1-Trichloroethane	ND	1.0		µg/L	1	10/24/2003
✓ 1,1,2-Trichloroethane	ND	1.0		µg/L	1	10/24/2003
✓ Trichloroethene (TCE)	ND	1.0		µg/L	1	10/24/2003
✓ Trichlorofluoromethane	ND	1.0		µg/L	1	10/24/2003
✓ 1,2,3-Trichloropropane	ND	2.0		µg/L	1	10/24/2003
✓ Vinyl chloride	ND	2.0		µg/L	1	10/24/2003
✓ Xylenes, Total	ND	1.0		µg/L	1	10/24/2003
✓ Surr: 1,2-Dichloroethane-d4	94.0	70.6-124		%REC	1	10/24/2003
✓ Surr: 4-Bromofluorobenzene	87.9	76.2-122		%REC	1	10/24/2003
✓ Surr: Dibromofluoromethane	91.1	67.2-131		%REC	1	10/24/2003
✓ Surr: Toluene-d8	95.4	82.1-123		%REC	1	10/24/2003

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Hall Environmental Analysis Laboratory

Date: 28-Oct-03

CLIENT: Conoco Phillips Wingate Fractionator
Lab Order: 0310177
Project: Annual Evaporation Pond Sampling
Lab ID: 0310177-02

Client Sample ID: TRIP BLANK
Collection Date:
Matrix: TRIP BLANK

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: BL
Benzene	ND	1.0		µg/L	1	10/24/2003
Toluene	ND	1.0		µg/L	1	10/24/2003
Ethylbenzene	ND	1.0		µg/L	1	10/24/2003
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	10/24/2003
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	10/24/2003
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	10/24/2003
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	10/24/2003
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	10/24/2003
Naphthalene	ND	2.0		µg/L	1	10/24/2003
1-Methylnaphthalene	ND	4.0		µg/L	1	10/24/2003
2-Methylnaphthalene	ND	4.0		µg/L	1	10/24/2003
Acetone	ND	10		µg/L	1	10/24/2003
Bromobenzene	ND	1.0		µg/L	1	10/24/2003
Bromochloromethane	ND	1.0		µg/L	1	10/24/2003
Bromodichloromethane	ND	1.0		µg/L	1	10/24/2003
Bromoform	ND	1.0		µg/L	1	10/24/2003
Bromomethane	ND	2.0		µg/L	1	10/24/2003
2-Butanone	ND	10		µg/L	1	10/24/2003
Carbon disulfide	ND	10		µg/L	1	10/24/2003
Carbon Tetrachloride	ND	1.0		µg/L	1	10/24/2003
Chlorobenzene	ND	1.0		µg/L	1	10/24/2003
Chloroethane	ND	2.0		µg/L	1	10/24/2003
Chloroform	ND	1.0		µg/L	1	10/24/2003
Chloromethane	ND	1.0		µg/L	1	10/24/2003
2-Chlorotoluene	ND	1.0		µg/L	1	10/24/2003
4-Chlorotoluene	ND	1.0		µg/L	1	10/24/2003
cis-1,2-DCE	ND	1.0		µg/L	1	10/24/2003
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	10/24/2003
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	10/24/2003
Dibromochloromethane	ND	1.0		µg/L	1	10/24/2003
Dibromomethane	ND	2.0		µg/L	1	10/24/2003
1,2-Dichlorobenzene	ND	1.0		µg/L	1	10/24/2003
1,3-Dichlorobenzene	ND	1.0		µg/L	1	10/24/2003
1,4-Dichlorobenzene	ND	1.0		µg/L	1	10/24/2003
Dichlorodifluoromethane	ND	1.0		µg/L	1	10/24/2003
1,1-Dichloroethane	ND	1.0		µg/L	1	10/24/2003
1,1-Dichloroethene	ND	1.0		µg/L	1	10/24/2003
1,2-Dichloropropane	ND	1.0		µg/L	1	10/24/2003
1,3-Dichloropropane	ND	1.0		µg/L	1	10/24/2003
2,2-Dichloropropane	ND	1.0		µg/L	1	10/24/2003
1,1-Dichloropropene	ND	1.0		µg/L	1	10/24/2003

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Hall Environmental Analysis Laboratory

Date: 28-Oct-03

CLIENT: Conoco Phillips Wingate Fractionator**Client Sample ID:** TRIP BLANK**Lab Order:** 0310177**Collection Date:****Project:** Annual Evaporation Pond Sampling**Lab ID:** 0310177-02**Matrix:** TRIP BLANK

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
Hexachlorobutadiene	ND	1.0		µg/L	1	10/24/2003
2-Hexanone	ND	10		µg/L	1	10/24/2003
Isopropylbenzene	ND	1.0		µg/L	1	10/24/2003
4-Isopropyltoluene	ND	1.0		µg/L	1	10/24/2003
4-Methyl-2-pentanone	ND	10		µg/L	1	10/24/2003
Methylene Chloride	ND	3.0		µg/L	1	10/24/2003
n-Butylbenzene	ND	1.0		µg/L	1	10/24/2003
n-Propylbenzene	ND	1.0		µg/L	1	10/24/2003
sec-Butylbenzene	ND	1.0		µg/L	1	10/24/2003
Styrene	ND	1.0		µg/L	1	10/24/2003
tert-Butylbenzene	ND	1.0		µg/L	1	10/24/2003
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	10/24/2003
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	1	10/24/2003
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	10/24/2003
trans-1,2-DCE	ND	1.0		µg/L	1	10/24/2003
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	10/24/2003
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	10/24/2003
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	10/24/2003
1,1,1-Trichloroethane	ND	1.0		µg/L	1	10/24/2003
1,1,2-Trichloroethane	ND	1.0		µg/L	1	10/24/2003
Trichloroethene (TCE)	ND	1.0		µg/L	1	10/24/2003
Trichlorofluoromethane	ND	1.0		µg/L	1	10/24/2003
1,2,3-Trichloropropane	ND	2.0		µg/L	1	10/24/2003
Vinyl chloride	ND	2.0		µg/L	1	10/24/2003
Xylenes, Total	ND	1.0		µg/L	1	10/24/2003
Surr: 1,2-Dichloroethane-d4	82.4	70.6-124		%REC	1	10/24/2003
Surr: 4-Bromofluorobenzene	88.7	76.2-122		%REC	1	10/24/2003
Surr: Dibromofluoromethane	91.1	67.2-131		%REC	1	10/24/2003
Surr: Toluene-d8	96.7	82.1-123		%REC	1	10/24/2003

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Hall Environmental Analysis Laboratory

Date: 28-Oct-03

CLIENT: Conoco Phillips Wingate Fractionator

Work Order: 0310177

Project: Annual Evaporation Pond Sampling

QC SUMMARY REPORT

Method Blank

Sample ID	rb	Batch ID: R9920	Test Code: SW8260B	Units: µg/L	Analysis Date	10/24/2003	Prep Date				
Client ID:		Run ID: VAL_031024A			SeqNo:	222676					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	1.0									
Toluene	ND	1.0									
Ethylbenzene	ND	1.0									
Methyl tert-butyl ether (MTBE)	ND	1.0									
1,2,4-Trimethylbenzene	ND	1.0									
1,3,5-Trimethylbenzene	ND	1.0									
1,2-Dichloroethane (EDC)	ND	1.0									
1,2-Dibromoethane (EDB)	ND	1.0									
Naphthalene	ND	2.0									
1-Methylnaphthalene	ND	4.0									
2-Methylnaphthalene	ND	4.0									
Acetone	ND	10									
Bromobenzene	ND	1.0									
Bromochloromethane	ND	1.0									
Bromodichloromethane	ND	1.0									
Bromoform	ND	1.0									
Bromomethane	ND	2.0									
2-Butanone	ND	10									
Carbon disulfide	ND	10									
Carbon Tetrachloride	ND	1.0									
Chlorobenzene	ND	1.0									
Chloroethane	ND	2.0									
Chloroform	ND	1.0									
Chloromethane	ND	1.0									
2-Chlorotoluene	ND	1.0									
4-Chlorotoluene	ND	1.0									
cis-1,2-DCE	ND	1.0									

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

CLIENT: Conoco Phillips Wingate Fractionator
Work Order: 0310177
Project: Annual Evaporation Pond Sampling

QC SUMMARY REPORT

Method Blank

cis-1,3-Dichloropropene	ND	1.0
1,2-Dibromo-3-chloropropane	ND	2.0
Dibromochloromethane	ND	1.0
Dibromomethane	ND	2.0
1,2-Dichlorobenzene	ND	1.0
1,3-Dichlorobenzene	ND	1.0
1,4-Dichlorobenzene	ND	1.0
Dichlorodifluoromethane	ND	1.0
1,1-Dichloroethane	ND	1.0
1,1-Dichloroethene	ND	1.0
1,2-Dichloropropane	ND	1.0
1,3-Dichloropropane	ND	1.0
2,2-Dichloropropane	ND	1.0
1,1-Dichloropropene	ND	1.0
Hexachlorobutadiene	ND	1.0
2-Hexanone	ND	10
Isopropylbenzene	ND	1.0
4-Isopropyltoluene	ND	1.0
4-Methyl-2-pentanone	ND	10
Methylene Chloride	ND	3.0
n-Butylbenzene	ND	1.0
n-Propylbenzene	ND	1.0
sec-Butylbenzene	ND	1.0
Styrene	ND	1.0
tert-Butylbenzene	ND	1.0
1,1,1,2-Tetrachloroethane	ND	1.0
1,1,2,2-Tetrachloroethane	ND	1.0
Tetrachloroethene (PCE)	ND	1.0
trans-1,2-DCE	ND	1.0
trans-1,3-Dichloropropene	ND	1.0
1,2,3-Trichlorobenzene	ND	1.0
1,2,4-Trichlorobenzene	ND	1.0
1,1,1-Trichloroethane	ND	1.0

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Hall Environmental Analysis Laboratory

Date: 28-Oct-03

CLIENT: Conoco Phillips Wingate Fractionator
Work Order: 0310177
Project: Annual Evaporation Pond Sampling

QC SUMMARY REPORT
Laboratory Control Spike - generic

Sample ID	Ics	Batch ID: R9920	Test Code: SW8260B	Units: µg/L	Analysis Date 10/24/2003				Prep Date		
Client ID:			Run ID: VAL_031024A	SeqNo: 222677							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	18.95	1.0	20	0	94.7	71.2	122	0			
Toluene	20.51	1.0	20	0	103	87.7	122	0			
Chlorobenzene	19.38	1.0	20	0	96.9	85.6	136	0			
1,1-Dichloroethene	20.11	1.0	20	0	101	70.7	117	0			
Trichloroethene (TCE)	20.71	1.0	20	0	104	76.9	130	0			

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits

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SEP 15 2003

September 11, 2003

OIL CONSERVATION
DIVISION

Mr. Wayne Price
Environmental Bureau
Energy, Minerals and Natural Resource Department
Oil Conservation Division (OCD)
1220 South St. Francis Drive
Santa Fe, NM 87505

Subject: Outcome and Monitoring Plan as of September 8, 2003
Railroad Rack Vadose Zone and Groundwater Contamination and Flare Pit
Groundwater Contamination Investigation Plan
Response to April 18, 2003, OCD Draft Attachment to the Groundwater Discharge
Plan GW-054
Amended Discharge Plan Approval Conditions April 18, 2003
Environmental Monitoring and Closure Plan
ConocoPhillips Wingate Gas Fractionating Plant, Gallup, New Mexico
Maxim Project No. 3690050

Dear Mr. Price:

This letter is the follow-up to the ongoing process of responding to OCD's request for investigation of certain environmental issues at the ConocoPhillips Wingate Fractionating Plant, Gallup, New Mexico. In April 2003, OCD requested ConocoPhillips conduct an investigation of groundwater impact on the Wingate facility:

"16. Vadose Zone and Water Pollution: Provide an investigation plan for OCD approval for the railroad rack vadose zone and groundwater contamination area and the flare pit groundwater contamination area by June 15, 2003. Due to the salt contamination found in various Monitor wells OCD requires an up-gradient well to be included in the plan."(OCD, April 18, 2003).

In addition to the above requests, OCD asked for two new shallow vadose zone wells adjacent to the evaporation ponds and replacement of MW-1. The purpose of these wells was to monitor potential evaporation pond leakage.

ConocoPhillips conducted groundwater sampling of all existing monitoring wells on the facility; installed monitoring well MWR-1(redrill) (west end of the west evaporation pond); abandoned MW-1 (due to a broken casing); installed two new shallow vadose zone wells adjacent to the evaporation ponds (MWS-1 and MWS-2); installed the new upgradient monitoring well in the southeast corner of the Wingate property (WMW-6); and conducted groundwater sampling and analysis of the new wells that contained water. Groundwater sampling took place on two separate dates. The initial sampling was conducted on May 14, 2003, while the subsequent sampling took place on July 31, 2003, after the installation of MWR-1 and WMW-6.

The results of much of this work were documented in a letter-report to OCD dated June 27, 2003. Parts of the discussion from that letter-report are presented below, as some of the issues have not changed. The issues not addressed in the June 27 letter-report included the installation and

sampling of the two shallow vadose zone wells adjacent to the evaporation ponds, the installation and sampling of the MWR-1 and the installation and sampling of the upgradient well to monitor the background chloride concentrations as they enter the facility in groundwater. These issues, as well as the proposed path forward, are presented below.

Table 1 presents the analytical results of both sampling rounds for all wells. Please refer to Figure 1, Site Map with Analytical Results, for well locations and related analytical results.

Railroad Rack Vadose Zone and Groundwater Contamination Area

Vadose Zone

OCD has requested an investigation of the railroad rack area vadose zone. The railroad rack area is used for loading railroad cars with petroleum products. The current procedure is automated and carefully monitored. There is no apparent evidence of recent leaks or spills in the area. OCD has also requested that the gasoline load line from the pumps to the rail be inspected/tested for leaks. This was completed and the gasoline line was found to be in sound working condition. The groundwater in this area is known to be impacted with benzene. The benzene concentrations in the groundwater, although elevated, have not changed significantly since monitoring began in 1991, suggesting that the vadose zone is not contributing additional hydrocarbon to the groundwater. Thus, given the active nature of the area and the apparent lack of additional benzene impact, ConocoPhillips proposes no action on the vadose zone at this time.

Groundwater

The May 2003 groundwater analyses show elevated benzene in WMW-2. These benzene concentrations are consistent with prior analyses. The benzene concentrations appear to be stable over time.

The May (and July) 2003 groundwater analyses from WMW-4 show no detectable benzene, toluene, ethylbenzene or total xylenes (BTEX). WMW-4 is downgradient from WMW-2, based on the interpreted groundwater flow direction determined from groundwater elevations in May 2003. Thus it appears that the elevated benzene concentrations are not migrating downgradient but rather are stable in and around WMW-2. Please note: due to problems with the contract analytical laboratory, the May BTEX analyses from WMW-4 and WMW-5 were out of holding time. Results of resampling (July 30, 2003) show *No Changes* in BTEX concentrations in these wells.

The concentration and areal extent of the benzene in the groundwater appears to be stable. Benzene concentrations in WMW-2 have been recorded in the range of 26,800 micrograms per liter ($\mu\text{g/L}$) in 1991 to 30,000 $\mu\text{g/L}$ 1998 and 29,000 $\mu\text{g/L}$ in 2003. Further, the benzene-impacted groundwater seems to be stable in the vicinity of WMW-2, as demonstrated by the consistent absence of benzene compounds in WMW-4, located approximately 400 feet downgradient of WMW-2. The low concentration of sulfate (8.2 milligrams per liter [mg/L]) in WMW-2 suggests that biologically mediated chemical reduction of sulfate may be taking place in this well. Further evidence of this reduction process is the presence of abundant black silt in the purge water from this well which suggests reduction of iron oxides (oxidized iron in the silt particles) to iron sulfides (reduced iron in the silt particles). This evidence suggests that the benzene "plume" has attained chemical and biological equilibrium within a limited area around the railroad rack area.

Therefore, ConocoPhillips proposes annual sampling of WMW-4 with analyses for BTEX but no active remediation of the benzene in WMW-2 at this time. No sampling of WMW-2 is proposed at this time.

Flare Pit Groundwater Contamination Area

The groundwater contamination in the Flare Pit area referred to by OCD in the April 18, 2003, letter is primarily chloride.

The May 2003 analyses indicate elevated concentrations of chloride in WMW-3 (in the Flare Pit area) as well as in WMW-1, WMW-2 and WMW-5 (located within the main part of the Wingate facility). The New Mexico Water Quality Control Commission (NMWQCC) concentration benchmark for chloride is 250 mg/L. With the elevated chloride concentrations in the Flare Pit area and in the central part of the facility, the question arose as to source of the chloride. OCD proposed installing a background monitoring well to determine the chloride concentrations in water entering the site from the southeast.

To comply with the OCD's request for background groundwater monitoring, monitoring well WMW-6 was installed on June 26, 2003. The total depth of this well is 35 feet below ground surface (bgs). The casing and screen are 2-inch inside-diameter PVC. The screened interval is from 20 to 35 feet bgs. Groundwater was encountered at approximately 20 feet bgs during drilling and rose to approximately 9 feet bgs, suggesting confined aquifer conditions.

This well was sampled on July 30, 2003. Analytical results are presented in Table 1. The chloride concentration in this well is 71.9 mg/L. This is below the NMWQCC benchmark of 250 mg/L and significantly lower than the chloride concentrations in wells WMW-1, WMW-2, WMW-3, and WMW-5 (please refer to Table 1 and Figure 1). The lower, upgradient (background) chloride concentration in WMW-6 suggests that the higher chloride concentrations in the central facility area are not the result of an off-site source.

ConocoPhillips proposes to conduct annual monitoring of chlorides in WMW-3 and WMW-5. These wells have historically contained elevated chloride concentrations. However, the area of concentration appears to be spatially stable, in that elevated chloride concentrations have not been found to the northwest in the evaporation pond wells (MW-1, MWR-1 and MW-2). ConocoPhillips will monitor the chloride concentrations, and if there are any significant changes in the concentrations, ConocoPhillips will re-evaluate the situation.

Evaporation Ponds Monitoring

Two new shallow monitoring wells (MWS-1 and MWS-2) were installed on June 25, 2003, adjacent to the evaporation ponds. These wells were installed per the OCD's request to monitor possible water leakage from the ponds. Both wells were installed to 15 feet bgs and screened from 15 to 5 feet bgs. Clay was encountered throughout the drilling interval and no groundwater was encountered during the drilling. As of July 30, both of these wells were dry. Consequently, no groundwater samples were collected from these wells.

MWR-1 was completed on June 26, 2003. This well replaced MW-1, which was found to have a broken screen, preventing the well's use. MWR-1 is 40 feet deep and is screened from 40 to 20 feet bgs. Flowing sands from the confined aquifer zone were encountered during drilling. Consequently, a 2-inch inside-diameter PVC casing and a pre-sand packed screen were installed in this well. This well was sampled on July 31, 2003. Analytical results indicate no detectible BTEX and chloride

within the expected natural range. Groundwater from this well was also analyzed for fecal coliform bacteria, biological oxygen demand (BOD) and chemical oxygen demand (COD). No fecal coliform was detected and the BOD and COD were within the expected natural range. Please refer to Table 1 for the analytical results.

Summary

Railroad rack area vadose zone: No active remediation of the soil is planned at this time because of the active operations in the railroad rack area.

Railroad rack area groundwater: Elevated benzene concentrations are present in WMW-2. The concentrations have been elevated but stable since sampling began in 1991. The areal extent of the elevated benzene concentrations also appears to be stable in that no benzene was detected in 2003 in the downgradient well, WMW-4. ConocoPhillips proposes the continuation of annual monitoring of MW-4 for BTEX.

Flare pit area groundwater contamination: The groundwater impact referred to by the OCD is elevated concentrations of chloride. Per request of OCD, ConocoPhillips has installed monitoring well WMW-6 in an upgradient location and has collected samples from that well to compare to analyses from the wells in the facility area (WMW-1, WMW-2, WMW-3, WMW-4 and WMW-5). Results of the sampling from WMW-6 suggest that the elevated chloride concentrations in the facility area are not the result of an off-site groundwater source.

ConocoPhillips proposes annual monitoring of WMW-3 and WMW-5 for chloride. If the concentrations increase significantly or if elevated chloride concentrations appear in wells located to the northwest (MWR-1 and MW-2), then ConocoPhillips will re-evaluate the issue.

Should you have any questions regarding the information contained here, please contact Ms. Beverly Cox, Compliance Coordinator, ConocoPhillips Wingate Gas Fractionating Plant, at (505) 863-1023 or me at (505) 237-8440.

Sincerely,

MAXIM TECHNOLOGIES, INC.



Robert M. Sengebusch, R.G.
Senior Project Manager

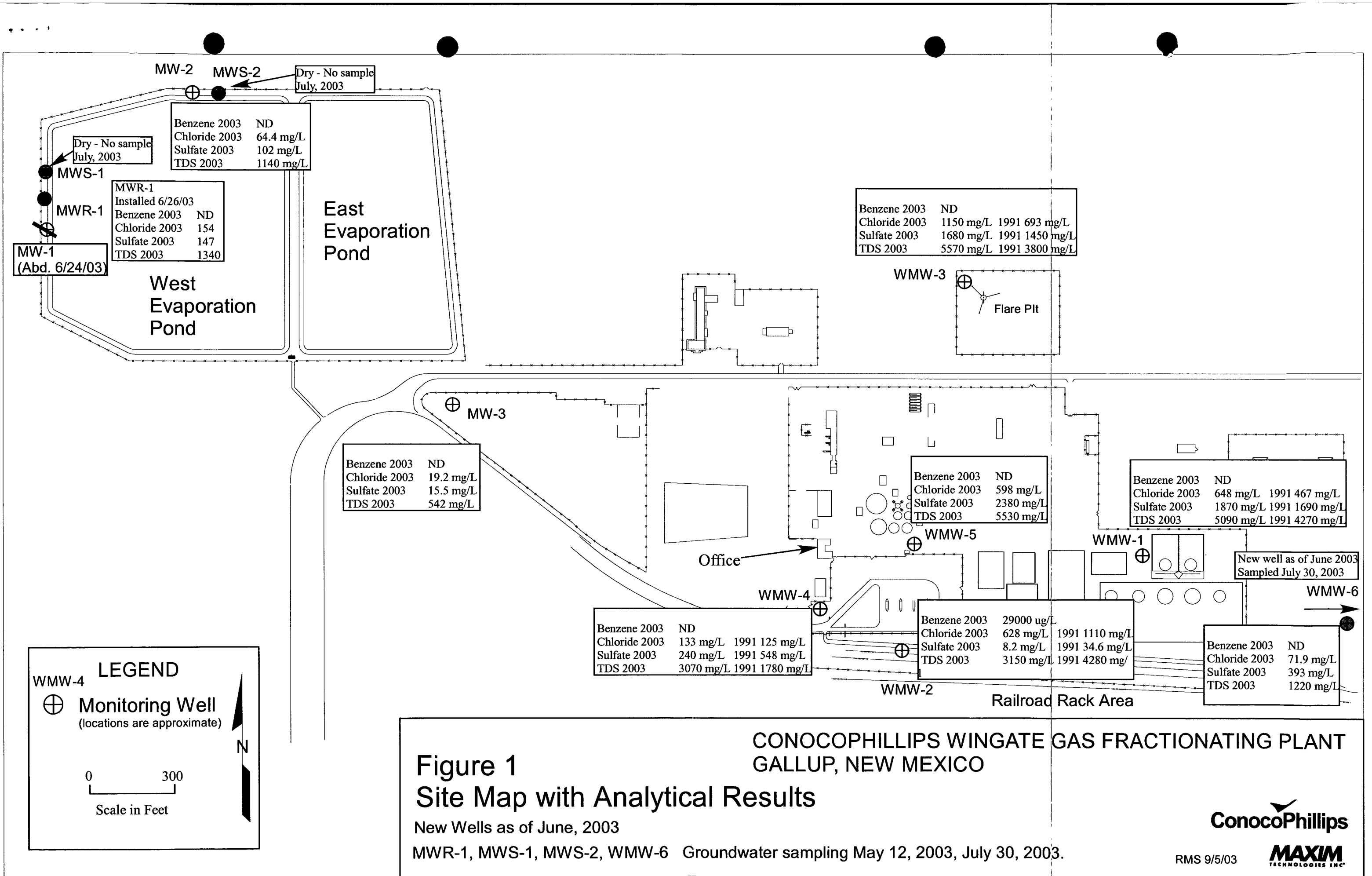
Cc: Beverly Cox, ConocoPhillips
Neal Goates, ConocoPhillips
Joyce Miley, ConocoPhillips

TABLE 1
Wingate Gas Fractionating Plant
Groundwater Analytical Results Summary

Sample Location	Date Sampled	Wingate Gas Fractionating Plant, Gallup, New Mexico ANALYSES FROM GW SAMPLING, MAY and JULY, 2003																				
		SW846 8260B Micrograms per Liter (ug/L)				SW846 6010B Milligrams per Liter (mg/L)										MCAWW 300.0A (mg/L)			EPA 150.1 (units)	MCAWW 310.1 (mg/L)	MCAWW 160.1 (mg/L)	
		Benzene	Toluene	Ethylbenzene	Xylenes	Mercury	Arsenic	Barium	Calcium	Cadmium	Chromium	Magnesium	Selenium	Silver	Sodium	Lead	Chloride	Nitrate	Sulfate	pH	Alkalinity	TDS
MWR-1	05/14/03	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	07/31/03	<0.5	<0.7	<0.8	<0.8	<0.00016	0.0114	1.87	92.4	<0.00087	0.0522	46.1	0.0086	<0.0018	397	0.0562	154	<0.40	147	7.9	725	1340
MWS-1 dry	05/14/03	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	07/31/03	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MWS-2 dry	05/14/03	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	07/31/03	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-2	05/14/03	<0.1	<1.0	<1.0	<2.0	NA	<0.01	0.21	14.7	<0.002	<0.005	7.9	NA	NA	418	<0.003	64.4	<0.5	102	NA	770	1140
	07/31/03	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3	05/14/03	<0.1	<1.0	<1.0	<2.0	NA	<0.01	<0.2	28.7	<0.002	<0.005	13.5	NA	NA	149	<0.003	19.2	<0.5	15.5	NA	428	542
	07/31/03	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
WMW-1	05/14/03	<0.1	<1.0	<1.0	<2.0	NA	<0.01	<0.2	258	<0.002	<0.005	69.7	NA	NA	1140	<0.003	648	<0.5	1870	NA	1050	5090
	07/31/03	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
WMW-2	05/14/03	29000	<500	<500	<1000	NA	0.016	0.42	47.3	0.0081	0.0095	27.4	NA	NA	1140	0.0180	628	0.6	8.2	NA	1710	3150
Duplicate	05/14/03	30000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WMW-2	07/31/03	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
WMW-3	05/14/03	<0.1	<1.0	<1.0	<2.0	NA	0.014	0.62	186	<0.002	0.19	88.5	NA	NA	1860	0.042	1150	1.5	1680	NA	1090	5570
	07/31/03	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
WMW-4	05/14/03	<0.1	<1.0	<1.0	<2.0	NA	<0.01	0.28	37.3	<0.002	0.006	16.8	NA	NA	550	16.8	133	<0.5	240	NA	783	3070
	07/30/03	<0.5	<0.7	<0.8	<0.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Duplicate	07/30/03	<0.5	<0.7	<0.8	<0.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WMW-5	05/14/03	<0.1	<1.0	<1.0	<2.0	NA	<0.01	<0.2	332	<0.002	<0.005	98	NA	NA	1310	<0.003	598	<0.5	2380	NA	895	5530
	07/30/03	<0.5	<0.7	<0.8	<0.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
WMS-6	05/14/03	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	07/30/03	<0.5	<0.7	<0.8	<0.8	<0.00016	<0.0049	0.224	48.3	<0.00087	0.0074	18.1	<0.0047	<0.0018	334	<0.0093	71.9	<0.40	393	7.9	506	1220
NMWQCC Groundwater Standards for Human Health		10	750	750	620	0.002	0.1	1.0	NE	0.01	0.05	NE	NE	0.05	NE	0.05	250	44*	600		NE	1000

MW Monitoring Well MWS = Shallow MWR = Redrill
SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates
MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions
NMWQCC New Mexico Water Quality Control Commission
NA Not Analyzed
ND Not detected above laboratory detection limits
NE Not established by NMWQCC
TDS Total Dissolved Solids
NS Not Sampled
* Converted from 10 mg/L to 44 mg/L for Nitrate as NO3

Sample Location	Date Sampled	EPA 405.1 BOD	EPA 410.1 COD	SM 9222D Fecal Coliform
MWR-1	NS	NS	NS	NS
	07/31/03	9.2 mg/L	32.1 mg/L	ND
MWS-1	NS	NS	NS	NS
	NS	NS	NS	NS
MW-2	05/14/03	<4 mg/L	17.1 mg/L	ND
	NS	NS	NS	NS
MWS-2	NS	NS	NS	NS
	NS	NS	NS	NS
MW-3	05/14/03	<4 mg/L	ND	ND
	NS	NS	NS	NS



April 3, 2003

Mr. Wayne Price
Environmental Bureau
Energy, Minerals and Natural Resource Department
Oil Conservation Division (OCD)
1220 South St. Francis Drive
Santa Fe, NM 87505

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Oil Conservation Division

**Subject: Addendum Regarding Flare Pit and Fire Training Pit Closure
Environmental Monitoring and Closure Plan
Groundwater Discharge Plan GW-054
ConocoPhillips Wingate Gas Fractionating Plant
Gallup, New Mexico
Maxim Project No. 3690050**

Dear Mr. Price:

On behalf of ConocoPhillips Company (ConocoPhillips), Maxim Technologies, Inc. (Maxim) is submitting this Addendum to the Environmental Monitoring and Closure Plan (the Plan) dated March 13, 2003, in support of Groundwater Discharge Plan GW-054. Two of the issues discussed in the Plan were the regulatory status of the flare pit groundwater contamination area and the fire training land farm area.

These issues could not be adequately covered in the March 13 Plan and addressing them was deferred until after a review of the New Mexico Oil Conservation Division (OCD) files. This Addendum is the result of information gained during Maxim's review of Wingate project files at the ODC office on March 31, 2003. Each area is discussed below.

Fire-Training Land Farm Area

In the Attachment to the Groundwater Discharge Plan GW-054, OCD requested the following:

Provide a final closure plan for OCD approval of the railroad rack vadose zone and groundwater contamination area, the fire-training land farm area and the flare pit groundwater contamination area by March 13, 2003.

Maxim obtained a copy of a letter dated January 14, 1994, from OCD to Mr. Michael Frampton of Meridian Oil, Inc., regarding the fire-training land farm area. The letter states:

The remedial actions performed at the above-referenced site have been completed in accordance with the standards in effect at the time of closure and are approved with the following condition:

1. *Upon completion of landfarming activities, MOI will submit the final analyses of the landfarmed soils to OCD for final approval.*

Per my discussion with you of this letter and of the fire training pit issue, it is my understanding that OCD considers the fire training pit site to be closed. Therefore, there is no further work required at that site, and OCD's request for a final closure plan for this site is hereby addressed.

Flare Pit Groundwater Contamination Area

Maxim obtained a letter from the OCD file from OCD to Mr. Kevin Meyers of Meridian Oil, Inc., dated August 9, 1995, stating the following:

The closure of the Meridian Oil, Inc., Flare Pit located at the Wingate Plant in McKinley County, New Mexico, is approved with the following conditions:

1. *The remediated soil may be used by Meridian Oil, Inc., to backfill the excavation of the "Flare Pit".*
2. *Meridian Oil, Inc., shall mound the "Flare Pit" in order to prevent the ponding of rainwater over the former "Flare Pit" site.*
3. *Sampling/monitoring by Meridian Oil, Inc., at all the monitor wells shall continue.*

Per my discussion with you of this letter and of the flare pit issue, it is my understanding that the flare pit soil issue is closed according to OCD regulations (the soil was remediated). Since the flare pit has been remediated, there is no longer a "source" to cause hydrocarbon impact to groundwater in this area.

Analytical results support this conclusion. A table of results obtained during Maxim's file search at OCD documents the results of groundwater analysis from samples collected from well WMH-3, located at the northwestern edge of the flare pit (Conoco, 1999, Annual Evaporation Pond Sampling Results). Results have been below the regulatory benchmarks or "not detectable" for benzene, toluene, ethylbenzene and total xylenes (BTEX) and total petroleum hydrocarbons (TPH) for at least 14 sampling events since April 1993. Thus, ConocoPhillips proposes no additional monitoring for hydrocarbons from WMH-3.

Railroad Rack Vadose Zone and Groundwater Contamination Area and Other Issues

A plan to address the railroad rack vadose zone and groundwater contamination area was presented in the March 13 Plan. ConocoPhillips looks forward to the response from OCD on this and the other previously identified issues discussed in the Plan. These other issues include:

- The number of near-surface wells to be installed in order to monitor the evaporation ponds for shallow leakage.
- Elimination of monitoring well WMH-4 from the monitoring list.

Mr. Wayne Price
April 3, 2003
Page 3 of 3



Should you have any questions regarding this Addendum to the Environmental Monitoring and Closure Plan, please contact Ms. Beverly Cox, Compliance Coordinator, ConocoPhillips Wingate Gas Fractionating Plant, at (505) 863-1023 or me at (505) 237-8440.

Sincerely,

MAXIM TECHNOLOGIES, INC.

Robert M. Sengebush, R.G.
Senior Project Manager

Cc: Beverly Cox, ConocoPhillips
Neal Goates, ConocoPhillips

March 13, 2003

Mr. Wayne Price
Environmental Bureau
Energy, Minerals and Natural Resource Department
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

RECEIVED
MAR 19 2003
Environmental Bureau
Oil Conservation Division

**Subject: Environmental Monitoring and Closure Plan
Groundwater Discharge Plan GW-054
ConocoPhillips Wingate Gas Fractionating Plant
Gallup, New Mexico
Maxim Project No. 3690050**

Dear Mr. Price:

On behalf of ConocoPhillips Company. (ConocoPhillips), Maxim Technologies, Inc. (Maxim) is pleased to submit this Environmental Monitoring and Closure Plan in support of Groundwater Discharge Plan GW-054.

Background

The Wingate Gas Fractionating Plant is located in portions of Sections 9, 10, 15, 16, and 17, Township 15 North, Range 17 West, NMPM, McKinley County, New Mexico (Figure 1). A Groundwater Discharge Plan for the Wingate Plant was first approved by the New Mexico Oil Conservation Division (OCD) on August 17, 1992. ConocoPhillips submitted a Plan renewal application to OCD dated April 18, 2002, with attachments and addendums dated June 6 and October 28, 2002.

In a letter dated October 30, 2002, OCD approved the Groundwater Discharge Plan GW-054, subject to conditions contained in an Attachment to the approval letter. The subject conditions are specified in Items 16 and Item 17 (shown as a second Item 16) of the Attachment. These items deal with groundwater monitoring in the vicinity of the evaporation ponds and with closure of former investigation sites designated as the railroad rack vadose zone and groundwater contamination area, the fire-training land farm area, and the flare pit groundwater contamination area.

OCD requested that this Plan be submitted no later than March 15, 2003. Ms. Beverly Cox, Compliance Coordinator for the Wingate Plant, is the ConocoPhillips party responsible for the completion and submission of this plan.

Attachment Conditions and ConocoPhillips Response

In this section the specific conditions of the Attachment are presented, followed by the ConocoPhillips plan to address each condition.

Attachment Item 16, parts 2 and 3: Regarding Waste Water Evaporation Ponds

Additional Monitoring Devices Required: *OCD's inspection revealed the fact that it is uncertain whether the ponds are lined or unlined. After reviewing the pond monitor well construction diagrams it appears that the downgradient monitor wells MW-1 and MW-2 may not be screened in the shallow zone. Therefore, please provide a groundwater investigation and monitoring plan that will adequately determine if the ponds are leaking into this zone. Please provide for OCD approval by March 15, 2003.*

Pond and Monitoring Well Sampling: *All pond monitor wells (MW#1-3) must be sampled quarterly and pond composite samples semi-annually.*

Maxim's review of geologic and hydrogeologic information relating to installation of monitoring wells MW-1, MW-2 and MW-3 around the evaporation ponds suggest that the natural material underlying the ponds forms an impermeable barrier beneath the ponds. This information was presented to Mr. Wayne Price of OCD by Mr. Neal Goates of ConocoPhillips in a meeting in Santa Fe, New Mexico, February 19, 2003. The information is also presented below. Please refer to Figure 2 for a schematic cross section of the subsurface conditions beneath the evaporation ponds.

- Based on Maxim's reading of the supporting information that accompanied Conoco's Discharge Plan application (2002), the alluvial sediments below the pond consist of three units: the upper unit is a sandy and silty clay from surface to about 5 feet; the intermediate unit consists of impermeable clay (approximately 1×10^{-7} cm/sec permeability) from 5 to about 20 feet below ground surface (bgs); and a lower unit of sand, silt and interbedded clay from 20 to 55 feet bgs. Only the lower unit is saturated. This lower unit is considered the "aquifer" from 20 to 25 feet bgs and is a confined aquifer with a potentiometric surface at about 3 feet bgs. The intermediate clay acts as a barrier to any downward or upward fluid migration.
- Logs from borings around the evaporation ponds showed the soils are unsaturated throughout the upper and intermediate zones and only saturated below about 20 feet. Although the saturated zone is the lower of the three units, it is referred to in the documentation as the "shallow aquifer".
- ConocoPhillips believes that OCD may have interpreted the 3-foot potentiometric surface depth as a "shallow" water table aquifer and thus requested additional monitoring in that zone. As shown above, any well in a zone above the actual confined aquifer at 20 feet would be in the unsaturated, impermeable clay and silt.

It was Mr. Goates' understanding that the information presented above answered the OCD's questions and that the three monitoring wells completed in the confined aquifer can continue to be used to monitor the groundwater conditions upgradient and downgradient of the evaporation ponds. As such, annual sampling of the three existing wells will be sufficient, rather than quarterly monitoring, as suggested in Item 16.

Well Repair or Replacement: Well MW-1, located west of the westernmost evaporation pond, may be damaged or partially obstructed, preventing sampling or impacting sample integrity. This well will be repaired or replaced so that it will continue to serve as a viable downgradient monitoring point.

Near-Surface Vadose Zone Monitoring

Although the existing wells MW-1, MW-2 and MW-3 will suffice for monitoring the aquifer below 20 feet bgs, OCD is concerned that water could be leaking from the ponds and spreading into the vadose zone above 20 feet bgs.

ConocoPhillips has no evidence that any such leakage has occurred. However, to satisfy the OCD's concerns, ConocoPhillips proposes to install a single monitoring well into the vadose zone to investigate possible leakage that might spread laterally from the ponds.

ConocoPhillips believes that a single well in this zone will serve the purpose. Since the hydraulic pressure from the evaporation ponds is equal in all directions laterally from the inside of the berms outward away from the ponds, the new well can be located anywhere around the ponds. The direction of groundwater flow beneath the ponds (to the northwest in the confined aquifer) is not a factor in the potential water movement into and within the vadose zone. For logistical reasons, we propose to position the new well on the west end of the westernmost pond, in the vicinity of MW-1. In the event that any water is present in this new well, it will be sampled and analyzed to determine if it is related to the evaporation pond water. The new well would be installed in conjunction with the repair or replacement of MW-1.

In addition to the new well installation and sampling, ConocoPhillips proposes to photograph the flanks of the pond berms and the ground surface along the berms to document the conditions of the surface soil. It is ConocoPhillips' view that pond water leakage to the shallow subsurface would result in water seepage, vegetation growth, erosion of the berm, etc., on the margins of the ponds. Photos would help to identify any such areas and would serve as a record of the conditions. The photos would be taken during dry weather when general surface soil conditions are dry.

Monitoring Well Sampling and Analysis

In compliance with Attachment Item 16, part 3, the three evaporation pond monitoring wells will be sampled annually, using industry standard methods. As stated above, annual sampling will comply with the original terms of the Discharge Permit for these wells monitoring the confined aquifer below approximately 20 feet.

The groundwater samples will be analyzed for the following constituents:

- Volatile organic compounds - Method 8260
- Semi-volatile organic compounds - Method 8270
- New Mexico Water Quality Control Commission (WQCC) metals
- General Chemistry including cations and anions
- BOD, COD, Fecal Coliform Bacteria
- pH

All samples will be submitted, under chain-of-custody, to a qualified commercial laboratory for analysis. Quality assurance/quality control procedures will be implemented.

Attachment Item 17 (shown as the second Item 16), Vadose Zone and Water Pollution:

Provide a final closure plan for OCD approval of the railroad rack vadose zone and groundwater contamination area, the fire-training land farm area, and the flare pit groundwater contamination area by March 15, 2003.

There are eight monitoring wells on the Wingate Plant site. Well identification and the monitoring areas that each well serve are presented in Table 1. Please refer to Figure 3 for a site map showing monitoring well locations.

Table 1: Well I.D. and Monitoring Area

Monitoring Well(s) I.D.	Monitoring Area
MW-1, MW-2, MW-3	Evaporation Ponds
WMH-1 *	Tank Farm
WMH-2	Railroad Rack
WMH-3	Flare Pit
WMH-4	Gate, south of office
WMH-5	Yard, east of office

*Note: Monitoring wells in the Wingate facility have been identified by Conoco and the OCD as "MW" wells (the three evaporation pond monitoring wells) and "WMH" wells (the five wells in the gas fractionating facility). The WMH wells have also been identified as "WMW" by El Paso Natural Gas Company on maps and in tables of analytical results. The WMH and WMW wells are the same wells, but labeled differently. For the purpose of this Environmental Monitoring and Closure Plan and to be consistent with prior OCD correspondence, the wells in the gas fractionating facility will be labeled as WMH-1, WMH-2, WMH-3, WMH-4, and WMH-5.

In a letter dated January 26, 1999, Larissa Forseth of Conoco requested that wells WMH-1, WMH-2, WMH-3, and WMH-5 be excluded from the monitoring program due to analytical results that showed no detectable impact in groundwater over a period of years. W. Jack Ford of OCD approved the request in a letter dated February 2, 1999. OCD requested continued monitoring in WMH-4 due to historical presence of benzene above regulatory benchmark levels in that well. (Three analyses since August 1998 show no detectable benzene). As shown in Table 1 and Figure 3, WMH-4 serves an area that is located west-northwest of the Railroad Yard.

Based on this prior correspondence that resulted in the approval to cease monitoring those wells that had historically shown no impact from plant operations, ConocoPhillips proposes closure of the areas that are associated with those wells as follows:

- Closed well WMH-2 - Railroad rack vadose zone area
- Closed well WMH-3 - Flare pit groundwater contamination area

The request for closure of these areas is based on the OCD's approval to no longer monitor the wells associated with each respective area. This closure request is contingent on conducting a file search in the Santa Fe OCD office and on the assumption that there is no evidence contained in the files that suggests additional work is required for these two areas.

Conoco also requests that WMH-4 be eliminated from the monitoring list, due to analytical results of "non-detect" in three monitoring events conducted by El Paso Natural Gas Company since August 1998.

Regarding the fire-training land farm area, ConocoPhillips has no historical information of the environmental issues associated with this area. Background information on this area will be obtained from OCD and the condition of this area will be evaluated. An addendum to this Plan will be prepared by ConocoPhillips that proposes a course of action, if any is needed, for the fire-training land farm area.

Summary

In summary, this document serves as the response to OCD's request for a Plan to address issues identified in the Attachment to the Discharge Plan GW-054 Approval submitted to ConocoPhillips on October 30, 2002.

ConocoPhillips responses are as follows:

- ConocoPhillips will continue annual monitoring of the Wingate plant evaporation ponds using wells MW-1, MW-2 and MW-3.
- MW-1 will be repaired or replaced to ensure integrity of the pond-monitoring program.
- A single near-surface monitoring well will be installed on the margin of the evaporation ponds to investigate the possible presence of pond water leakage into the vadose zone adjacent to the ponds.
- Photographs will be taken of the ground surface surrounding the evaporation pond berms to document the baseline condition and to be able to identify any changes in the presence of moisture or vegetation on the margins of the ponds that would suggest pond leakage.

Mr. Wayne Price

March 13, 2003

Page 6 of 6

- Closure of the railroad rack vadose zone and groundwater contamination area and the flare pit groundwater contamination area is hereby requested. The basis of this request is the OCD-approved elimination of groundwater monitoring in wells located in each of these areas.
- ConocoPhillips requests elimination of WMH-4 from the monitoring list, due to no detectable hydrocarbons in three monitoring rounds since August 1998.
- Additional information will be obtained from OCD or other sources regarding the fire-training land farm area. Based on those findings, a course of action for this area will be proposed as an addendum to this Plan.

Schedule

Maxim will contact OCD to set up a time to review the project files in the Santa Fe OCD office. Information to be obtained includes drilling logs, well construction diagrams, and reports on the fire-training land farm area. This will be done in March 2003, contingent on coordination with OCD.

Implementation of the fieldwork described in this Plan will take place during the spring and summer of 2003. Well repair, drilling of the new well and sampling are dependent on access to the wells, which is weather dependent.

Thank you for your consideration of this Plan. Should you have any questions regarding this Plan, please contact Ms. Beverly Cox, Compliance Coordinator, ConocoPhillips Wingate Gas Fractionating Plant, at (505) 863-1023.

Sincerely,

MAXIM TECHNOLOGIES, INC.



Robert M. Sengebush, R.G.
Senior Project Manager

Attachments: Figures 1, 2 and 3

Cc: Beverly Cox, ConocoPhillips
Neal Goates, ConocoPhillips

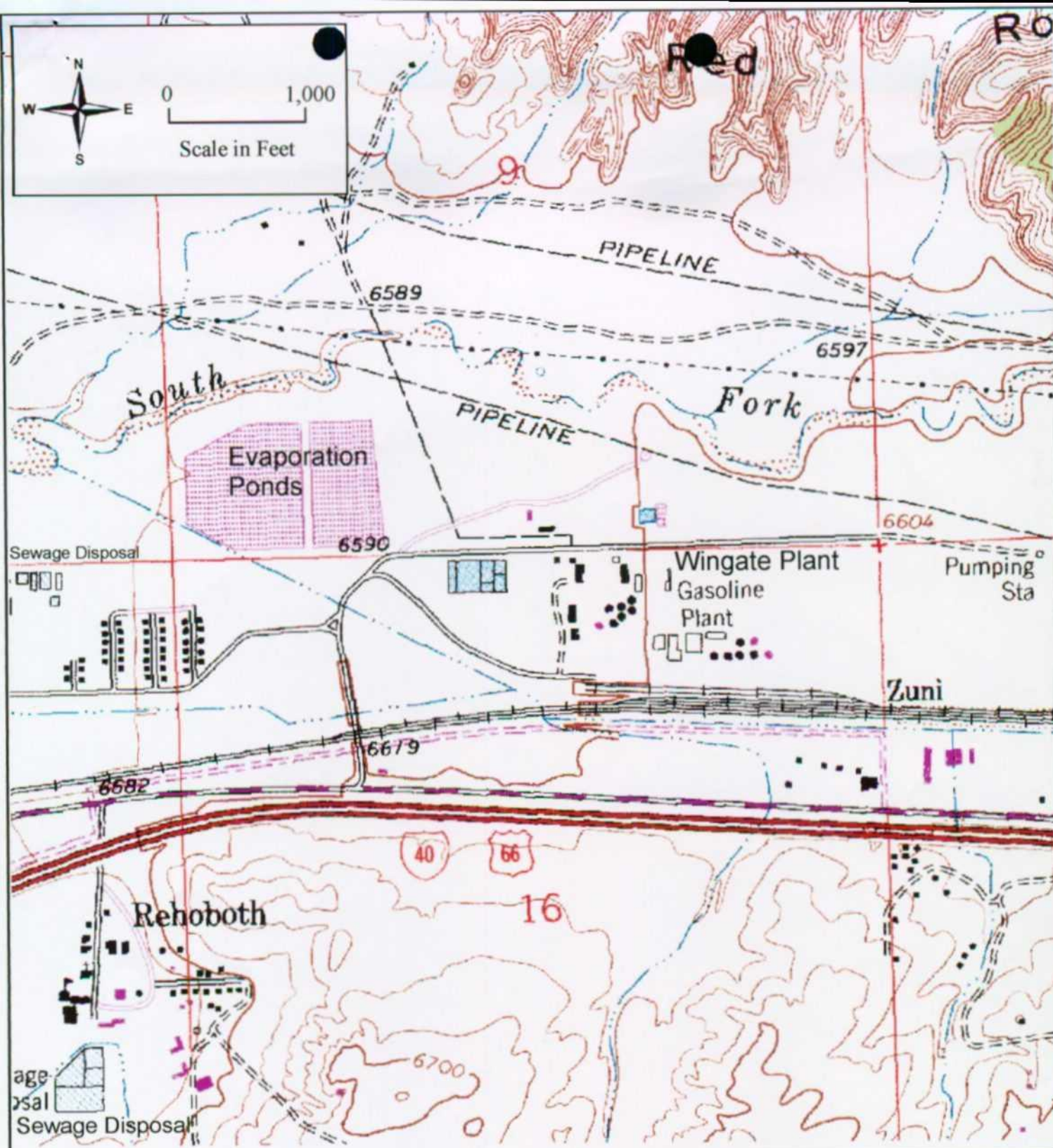


Figure 1

Area Map

CONOCOPHILLIPS WINGATE GAS FRACTIONATING PLANT
GALLUP, NEW MEXICO

SCHEMATIC CROSS SECTION

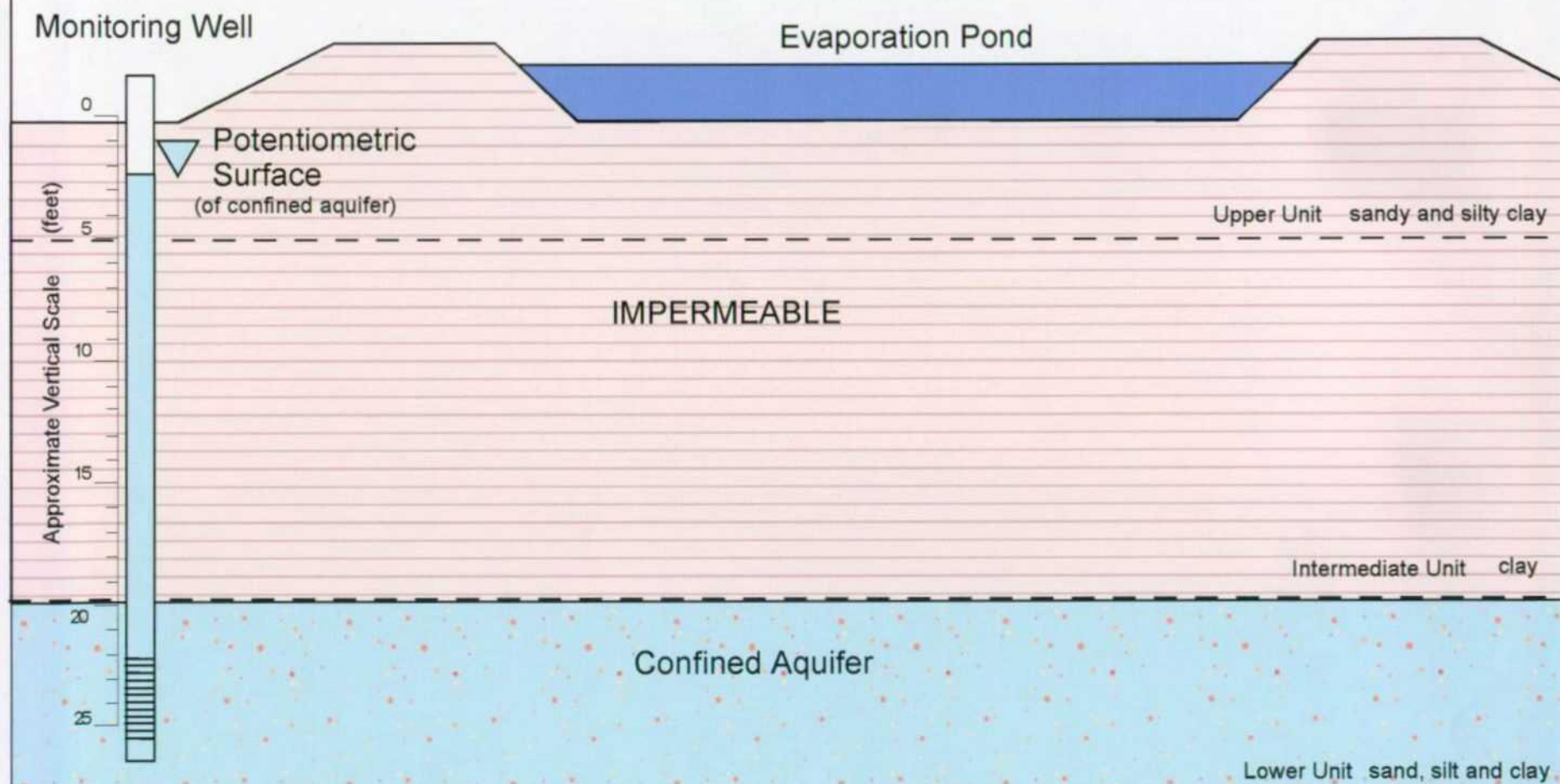


Figure 2

Schematic Cross Section

CONOCOPHILLIPS WINGATE GAS FRACTIONATING PLANT
GALLUP, NEW MEXICO

ConocoPhillips

RMS 2/20/03

MAXIM
TECHNOLOGIES INC.

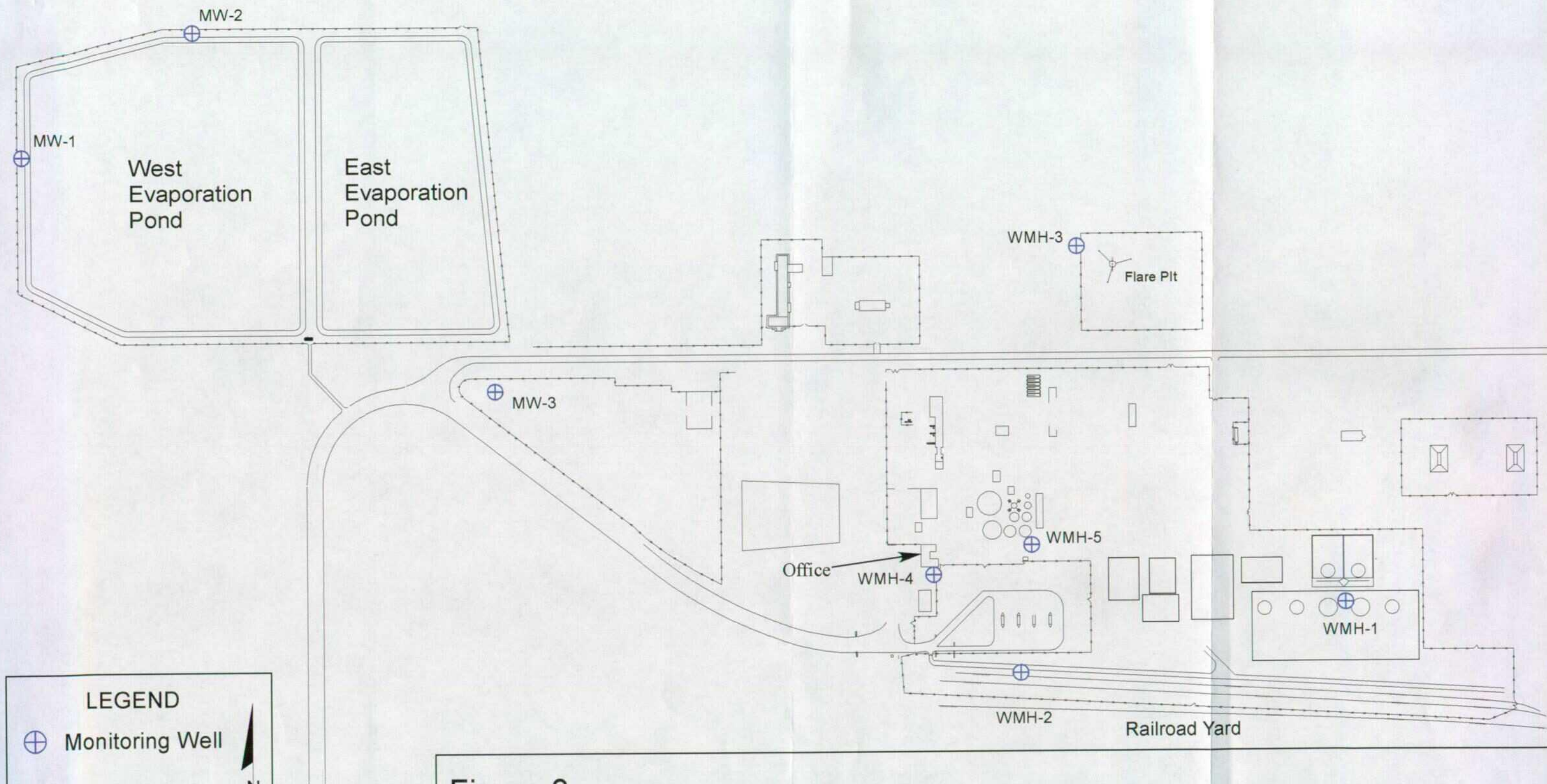


Figure 3
Site Map

CONOCOPHILLIPS WINGATE GAS FRACTIONATING PLANT
GALLUP, NEW MEXICO

ConocoPhillips

RMS 3/12/03

MAXIM
TECHNOLOGIES INC.

Conoco Inc.
Beverly J. Cox
Compliance Coordinator
P. O. Box 119
Rehoboth, NM 87322
505-863-1023, Fax 505-863-1040

Wingate Fractionating Plant
#68 El Paso Circle
Gallup, NM 87301
505-863-3900

July 11, 2002

State of New Mexico
Oil Conservation Division
Wayne Price
1220 South St. Francis Drive
Santa Fe, NM 87505

RE: Annual Pit & Sump Inspections (GW-054)

Mr. Price,

On Thursday, May 30, 2002, a facility walk thru was conducted of the Wingate Fractionating Facility, in preparation for the Ground Water Discharge Plan (GW-54) renewal. During this walk through, there were discussions about inspections on the sumps and pits. It was noted that many sumps, pits and in-ground containment structures were scheduled for inspection during the plant turn-a-round.

Enclosed you will find the sump, pit and containment structure inspections that was conducted during the plant turnaround. This document should be included with the GW-054 renewal file.

Should you have any questions, please do not hesitate to call me at 505-863-1023.

Sincerely,



Beverly J. Cox

Cc: Denny Foust
1000 Rio Brazos Rd
Aztec, NM 87401

Joyce Miley
HU 3036
Houston, TX

RECEIVED
JUL 11 2002
Environmental Bureau
Oil Conservation Division

RECEIVED
JUL 11 2002
Environmental Bureau
Oil Conservation Division

RECEIVED
JUL 12 2002
Environmental Bureau
Oil Conservation Division

WINGATE FRACTIONATION PLANT - PIT & SUMP INSPECTIONS

DATE	COMPONENT	LOCATION	TURN A ROUND ITEM	INSPECTION FREQUENCY	DESCRIPTION OF INSPECTION
24-Jun-02	A/B Cooling Tower Basin	A/B Cooling Tower	Yes	Annual	1) Basin drained and cleaned.
					2) All Pillars in good condition
					3) Cement floor has small amount of erosion of top layer in SW corner, but is still in good shape.
					4) A portion of the NE wall was chiseled out and re-poured with concrete. (rebuilt). New sidewalk on that section was also rebuilt.
					5) Erosion was found on the west side wall around the pump suction trough. This will be addressed in 2003 turn a round.
24-Jun-02	A/B cooling tower pump suction trough	A/B Cooling Tower	Yes	Annual	Trough was drain and inspected - good condition
24-Jun-02	A/B cooling tower pump suction pit	A/B Cooling Tower Pump House	Yes	Annual	1) Pit was drained and inspected - good condition.
					2) Replaced screen on pump suction piping.
24-Jun-02	A/B cooling tower overflow pit	A/B Cooling Tower Pump House	Yes	Annual	Drained and inspected - good condition
25-Jun-02	Brine (Salt) Pit	East of A/B Cooling Tower	Yes	Annual	1) Drained brine pit.
					2) Pit has an epoxy/fiberglass coating on the inside.
					3) Inspected west section- found small hair line crack on inside wall, but cement is not exposed. West section in good condition.
					4) Inspected east side
					5) Divider wall has a 6-inch long 2-inch wide 1 1/2 inch deep erosion cavity. This does not effect integrity of pit.
					6) Rest of east section in good shape.
					7) Top outer edge of pit is starting to flake and break. This portion does not come in contact with the salt water. Located above ground.

WINGATE FRACTIONATION PLANT - PIT & SUMP INSPECTIONS

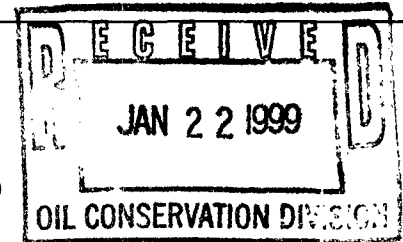
DATE	COMPONENT	LOCATION	TURN A ROUND ITEM	INSPECTION FREQUENCY	DESCRIPTION OF INSPECTION
25-Jun-02	Brine Pump Sump	North of Brine Pit	Yes	Annual	Sump was drained and no cracks or erosion found. Sump has a epoxy/fiberglass coating.
25-Jun-02	C Cooling Tower Basin	C Cooling Tower	Yes	Annual	1) Basin drained and cleaned. 2) Basin found to have a polyurethane coating on floor. 3) Polyurethane is coming up in spots. Exposed spots are in good shape. 4) NE corner has some erosion of the top layer of cement but is in good shape. 5) Pillars in good condition 6) Walls in good condition
25-Jun-02	C-cooling tower pump suction pit	West of C cooling tower	Yes	Annual	1) drained & cleaned suction pit - floor and walls in good condition. 2) removed ladder that extended into pit from manhole in pump house.
25-Jun-02	Primary Plant Sump	West of Boiler House	Yes	Annual	1) pumped down level 2) Made visual inspection of walls and found to be in good condition. 3) Sump maintained level indicating no leakage.
28-Jun-02	Oil Collection Pit	West of Warehouse	No	Annual	Walls and floor in good condition - no leaks
28-Jun-02	Inlet feed water vessel containment sump	West of Inlet feed vessels	No	Annual	No product found in sump, walls a floor is in good condition - no leaks.

WINGATE FRACTIONATION PLANT - PIT & SUMP INSPECTIONS

DATE	COMPONENT	LOCATION	TURN A ROUND ITEM	INSPECTION FREQUENCY	DESCRIPTION OF INSPECTION
28-Jun-02	Methonal containment sump	Methonal Tank	No	Annual	No product found in sump, walls a floor is in good condition - no leaks.
28-Jun-02	VRU containment sump	VRU Containment	No	Annual	Drained and inspected - good condition
28-Jun-02	Caustic Containment Sump	Caustic Containment	No	Annual	No product found in sump, walls a floor is in good condition - no leaks.
28-Jun-02	Perco/Acid containment sump	Perco Containment	No	Annual	No product found in sump, walls a floor is in good condition - no leaks.
28-Jun-02	C-Cooling Tower Out of Service Sump	West of C-Cooling Tower	No	N/A	Sump was drained and inspected found no leaks. This sump in scheduled for demolition.
28-Jun-02	Auxillary Storage Containment	North of Tank Farm / South of C-Cooling Tower	No	Annual	Containment area is clean with no signs of leakage. Currently not used.
27-Jun-02	Gas & Diesel Containment	West of Warehouse	No	Annual	Containment area is clean with no signs of leakage.



Conoco Inc.
Wingate Plant
P.O. Box 1728
Gallup, NM 87305
(505) 863-3900
Fax: (505) 863-1040



January 20, 1999

Mr. Jack Ford
Environmental Bureau
Energy, Minerals, and Natural Resource Department
Oil Conservation Division
P.O. Box 6429
Santa Fe, NM 87505

**RE: Annual Evaporation Pond Sampling Results
Wingate Fractionating Plant
McKinley County, New Mexico**

Dear Mr. Ford,

Please find attached the results from the annual evaporation pond sampling event at Conoco NG&GP's Wingate facility. The west and east ponds were sampled pursuant to Discharge Plan GW-54 Approval Condition #17 (November 21, 1997). The samples were analyzed by Inter-Mountain Laboratories in Farmington, New Mexico.

If you have any questions regarding this sampling event, please contact me at (505) 863-1001. Thank you.

Sincerely,

Alan D. Higginbotham,
Plant Manager

Attachment

**ANACHEM INC.**

8 Prestige Circle, Suite 104 Allen, Texas 75002
972/727-9003 • FAX # 972/727-9686 • 1-800-966-1186

Customer Name: Inter-Mountain Labs, Inc.
Date Received: January 15, 1999 at 09:45:00
Date Reported: January 18, 1999
Submission #: 9901000194
Project: IML FARMINGTON

SAMPLES The submission consisted of 2 samples with sample I.D.'s shown in the attached data tables.

TESTS The samples listed in the attached result pages were analyzed for:
* BASE NEUTRALS & ACID EXTRACTABLES (EPA 625)
* VOLATILES (EPA 624)

Distribution Of Reports

1-Mr. Chris Raynes of Inter-Mountain Labs, Inc.
Ph. 505-326-4737 Fax 505-325-4182

Respectfully Submitted,
Anachem, Inc.


Howard H. Hayden, B.S.
Chemist

Submission #: 9901000194 lms

NOTE: Submitted material will be retained for 60 days unless notified or consumed in analysis. Material determined to be hazardous will be returned or a \$20 disposal fee will be assessed. Our letters and reports are for the exclusive use of the client to whom they are addressed. The use of our name must receive our prior written approval. Our letters and reports apply to the sample tested and/or inspected, and are not necessarily indicative of the qualities of apparently identical or similar materials.

126707 to 126708

Page 1 of 6

Visit us on the internet at <http://www.anachem.com>

Client Name: Inter-Mountain Labs, Inc.
 Submission #: 9901000194
 Project Name: IML FARMINGTON
 Report Date: 01/18/99

Client Sample #: 252 POND WEST

Laboratory ID #: 126707 Order Type: Normal Matrix: Liquid
 Sample Container: 2xVOA Vial, Liter Amber Bottle
 Sampling Location: Not listed on the chain of custody.
 Sampling Date: 01/13/99

BASE NEUTRALS & ACID EXTRACTABLES (EPA 625)

Prep Date: 01/15/99

Analyte	Results(ug/l)	Detection Limit
Acenaphthene	<10	10
Acenaphthylene	<10	10
Anthracene	<10	10
Benzidine	<50	50
Benzo (a) anthracene	<10	10
Benzo (a) pyrene	<20	20
Benzo (b) fluoranthene	<20	20
Benzo (g,h,i) perylene	<10	10
Benzo (k) fluoranthene	<20	20
4-Bromophenyl-phenylether	<20	20
Butylbenzylphthalate	<10	10
4-Chloro-3-methylphenol	<10	10
bis (2-Chloroethoxy) methane	<10	10
bis(2-Chloroethyl) ether	<10	10
bis(2-Chloroisopropyl) ether	<20	20
2-Chloronaphthalene	<10	10
2-Chlorophenol	<10	10
4-Chlorophenyl-phenylether	<20	20
Chrysene	<10	10
Dibenz (a,h) anthracene	<50	50
1,3-Dichlorobenzene	<10	10
1,4-Dichlorobenzene	<10	10
1,2-Dichlorobenzene	<10	10
3,3'-Dichlorobenzidine	<10	10
2,4-Dichlorophenol	<10	10
Diethylphthalate	<10	10
2,4-Dimethylphenol	<10	10
Dimethylphthalate	<10	10
Di-n-butylphthalate	<10	10
4,6-Dinitro-2-methylphenol	<20	20
2,4-Dinitrophenol	<20	20
2,6-Dinitrotoluene	<20	20
2,4-Dinitrotoluene	<20	20
Di-n-octylphthalate	<10	10
1,2-Diphenylhydrazine (as Azobenzene)	<20	20
bis (2-Ethylhexyl) phthalate	<10	10
Fluoranthene	<20	20
Fluorene	<10	10
Hexachlorobenzene	<10	10
Hexachlorobutadiene	<10	10
Hexachlorocyclopentadiene	<10	10
Hexachloroethane	<10	10
Indeno (1,2,3-cd) pyrene	<10	10
Isophorone	<20	20
Naphthalene	<10	10
Nitrobenzene	<20	20
2-Nitrophenol	<20	20
4-Nitrophenol	<20	20
N-Nitrosodimethylamine	<50	50
N-Nitrosodi-n-propylamine	<10	10

Client Name: Inter-Mountain Labs, Inc.
 Submission #: 9901000194
 Project Name: IML FARMINGTON
 Report Date: 01/18/99

BASE NEUTRALS & ACID EXTRACTABLES (EPA 625)

Analyte	Results(ug/l)	Detection Limit
N-Nitrosodiphenylamine (1)	<20	20
Pentachlorophenol	<25	25
Phenanthrene	<10	10
Phenol	<10	10
Pyrene	<10	10
1,2,4-Trichlorobenzene	<10	10
2,4,6-Trichlorophenol	<10	10

VOLATILES (EPA 624)

Analyte	Results(ug/l)	Detection Limit
Acrolein	<20	20
Acrylonitrile	<20	20
Benzene	<10	10
Bromoform	<5	5
Carbon Tetrachloride	<3	3
Chlorobenzene	<5	5
Chlorodibromomethane	<3	3
Chloroethane	<10	10
2-Chloroethylvinyl Ether	<10	10
Chloroform	<5	5
1,2-Dichlorobenzene	<5.0	5.0
1,3-Dichlorobenzene	<5.0	5.0
1,4-Dichlorobenzene	<5.0	5.0
Dichlorobromomethane	<3	3
1,1-Dichloroethane	<5	5
1,2-Dichloroethane	<3	3
1,1-Dichloroethylene	<3	3
1,2-Dichloropropane	<6	6
1,3-Dichloropropylene	<5	5
Ethylbenzene	<8	8
Methyl Bromide	<10	10
Methyl Chloride	<10	10
Methylene Chloride	<10	10
1,1,2,2-Tetrachloroethane	<3	3
Tetrachloroethylene	<3	3
Toluene	<3	3
1,2-Trans-Dichloroethylene	<10	10
1,1,1-Trichloroethane	<3	3
1,1,2-Trichloroethane	<3	3
Trichloroethylene	<3	3
Trichlorofluoromethane	<10	10
Vinyl Chloride	<2	2
Xylene (Total)	<10	10

Client Sample #: 253 POND EAST

Laboratory ID #: 126708 Order Type: Normal Matrix: Liquid
 Sample Container: 2xVOA Vial, Liter Amber Bottle
 Sampling Location: Not listed on the chain of custody.
 Sampling Date: 01/13/99

BASE NEUTRALS & ACID EXTRACTABLES (EPA 625)

Prep Date: 01/15/99

Analyte	Results(ug/l)	Detection Limit
Acenaphthene	<10	10
Acenaphthylene	<10	10
Anthracene	<10	10
Benzidine	<50	50
Benzo (a) anthracene	<10	10

Client Name: Inter-Mountain Labs, Inc.
 Submission #: 9901000194
 Project Name: IML FARMINGTON
 Report Date: 01/18/99

BASE NEUTRALS & ACID EXTRACTABLES (EPA 625)

<u>Analyte</u>	<u>Results(ug/l)</u>	<u>Detection Limit</u>
Benzo (a) pyrene	<20	20
Benzo (b) fluoranthene	<20	20
Benzo (g,h,i) perylene	<10	10
Benzo (k) fluoranthene	<20	20
4-Bromophenyl-phenylether	<20	20
Butylbenzylphthalate	<10	10
4-Chloro-3-methylphenol	<10	10
bis (2-Chloroethoxy) methane	<10	10
bis(2-Chloroethyl) ether	<10	10
bis(2-Chloroisopropyl) ether	<20	20
2-Chloronaphthalene	<10	10
2-Chlorophenol	<10	10
4-Chlorophenyl-phenylether	<20	20
Chrysene	<10	10
Dibenz (a,h) anthracene	<50	50
1,8-Dichlorobenzene	<10	10
1,4-Dichlorobenzene	<10	10
1,2-Dichlorobenzene	<10	10
3,3'-Dichlorobenzidine	<10	10
2,4-Dichlorophenol	<10	10
Diethylphthalate	<10	10
2,4-Dimethylphenol	<10	10
Dimethylphthalate	<10	10
Di-n-butylphthalate	<10	10
4,6-Dinitro-2-methylphenol	<20	20
2,4-Dinitrophenol	<20	20
2,6-Dinitrotoluene	<20	20
2,4-Dinitrotoluene	<20	20
Di-n-octylphthalate	<10	10
1,2-Diphenylhydrazine (as Azobenzene)	<20	20
bis (2-Ethylhexyl) phthalate	<10	10
Fluoranthene	<20	20
Fluorene	<10	10
Hexachlorobenzene	<10	10
Hexachlorobutadiene	<10	10
Hexachlorocyclopentadiene	<10	10
Hexachloroethane	<10	10
Indeno (1,2,3-cd) pyrene	<10	10
Isophorone	<20	20
Naphthalene	<10	10
Nitrobenzene	<20	20
2-Nitrophenol	<20	20
4-Nitrophenol	<20	20
N-Nitrosodimethylamine	<50	50
N-Nitrosodi-n-propylamine	<10	10
N-Nitrosodiphenylamine (1)	<20	20
Pentachlorophenol	<25	25
Phenanthrene	<10	10
Phenol	<10	10
Pyrene	<10	10
1,2,4-Trichlorobenzene	<10	10
2,4,6-Trichlorophenol	<10	10

VOLATILES (EPA 624)

<u>Analyte</u>	<u>Results(ug/l)</u>	<u>Detection Limit</u>
Acrolein	<20	20
Acrylonitrile	<20	20
Benzene	<10	10

Client Name: Inter-Mountain Labs, Inc.
Submission #: 9901000194
Project Name: IML FARMINGTON
Report Date: 01/18/99

VOLATILES (EPA 624)

<u>Analyte</u>	<u>Results(ug/l)</u>	<u>Detection Limit</u>
Bromoform	<5	5
Carbon Tetrachloride	<3	3
Chlorobenzene	<5	5
Chlorodibromomethane	<3	3
Chloroethane	<10	10
2-Chloroethylvinyl Ether	<10	10
Chloroform	<5	5
1,2-Dichlorobenzene	<5.0	5.0
1,3-Dichlorobenzene	<5.0	5.0
1,4-Dichlorobenzene	<5.0	5.0
Dichlorobromomethane	<3	3
1,1-Dichloroethane	<5	5
1,2-Dichloroethane	<3	3
1,1-Dichloroethylene	<3	3
1,2-Dichloropropane	<6	6
1,3-Dichloropropylene	<5	5
Ethylbenzene	<8	8
Methyl Bromide	<10	10
Methyl Chloride	<10	10
Methylene Chloride	<10	10
1,1,2,2-Tetrachloroethane	<3	3
Tetrachloroethylene	<3	3
Toluene	<3	3
1,2-Trans-Dichloroethylene	<10	10
1,1,1-Trichloroethane	<3	3
1,1,2-Trichloroethane	<3	3
Trichloroethylene	<3	3
Trichlorofluoromethane	<10	10
Vinyl Chloride	<2	2
Xylene (Total)	<10	10

Report To: Inter-Mountain Laboratories, Inc.

Project: IML Farmington

Lab Number: 9901000194

Page 6 of 6

NPDES VOLATILE ORGANICS QUALITY CONTROL DATA

<u>METHOD</u>	<u>ANALYST</u>	<u>MATRIX</u>	<u>DATE EXTRACTED</u>	<u>DATE ANALYZED</u>		
624	Mike Carlo	Liquid	---	1/15/99		
<u>SPIKE COMPOUND</u>	<u>SPIKE AMOUNT</u>	<u>% REC 1</u>	<u>% REC 2</u>	<u>% REC QC LIMIT</u>	<u>% VAR.</u>	<u>% VAR QC LIMIT</u>
1,1-Dichloroethene	20 ppb	87.8	85.2	20-234	2.9	25.0
Trichloroethene	20 ppb	99.7	97.7	71-157	2.0	25.0
Benzene	20 ppb	96.4	94.2	37-151	2.3	25.0
Toluene	20 ppb	102	99.9	47-150	1.8	25.0
Chlorobenzene	20 ppb	104	103	37-160	0.87	25.0

NPDES BASE NEUTRALS & ACID EXTRACTABLES QUALITY CONTROL DATA

<u>METHOD</u>	<u>ANALYST</u>	<u>MATRIX</u>	<u>DATE EXTRACTED</u>	<u>DATE ANALYZED</u>		
625	Mike Carlo	Solid	1/15/99	1/15/99		
<u>SPIKE COMPOUND</u>	<u>SPIKE AMOUNT</u>	<u>% REC 1</u>	<u>% REC 2</u>	<u>% REC QC LIMIT</u>	<u>% VAR.</u>	<u>% VAR QC LIMIT</u>
Phenol	200 ppb	85.8	87.0	10-120	1.4	42.0
2-Chlorophenol	200 ppb	84.6	89.1	23-134	5.1	40.0
Acenaphthene	100 ppb	128	138	47-145	7.2	31.0
Pyrene	100 ppb	98.5	110	52-125	10	31.0



Inter-Mountain Laboratories, Inc.

Phone (505) 326-4737 Fax (505) 325-4182

2506 West Main Street, Farmington, NM 87401

Client: Conoco, Inc.
 Project: Wingate Plant
 Sample ID: Pond East
 Lab ID: 0399W00253
 Matrix: Water
 Condition: Cool/Intact

Date Received: 01/11/99
 Date Reported: 01/21/99
 Date Sampled: 01/13/99
 Time Sampled: 1030

Parameter	Analytical Result	Units	Units	PQL	Method	Analysis		
						Date	Time	Init.
GENERAL PARAMETERS								
PH	8.5	s.u.		0.1	EPA 150.1	01/15/99	1451	TD
Electrical Conductivity	39000	µmhos/cm		10	EPA 120.1	01/15/99	1451	TD
Solids - Total Dissolved	25600	mg/L		10	EPA 160.1	01/18/99	1337	BJ
Cyanide (Total) - RFA	<0.01	mg/L		0.01	EPA 335.3	01/19/98	1500	WH
Alkalinity (CaCO3)	143	mg/L		1	EPA 310.1	01/15/99	0804	BJ
Hardness (CaCO3)	2830	mg/L		1	Calculation			
MAJOR ANIONS								
Bicarbonate (HCO3)	174	mg/L	2.85	meq/L	1	EPA 310.1	01/15/99	0804 BJ
Carbonate (CO3)	<1	mg/L	<0.01	meq/L	1	EPA 310.1	01/15/99	0804 BJ
Hydroxide (OH)	<1	mg/L	<0.01	meq/L	1	EPA 310.1	01/15/99	0804 BJ
Bromide (Br)	<1	mg/L	<0.01	meq/L	1	EPA 300.0	01/21/98	1100 BJ
Chloride	12900	mg/L	364	meq/L	1	EPA 300.0	01/19/99	0900 BJ
Fluoride	0.75	mg/L	0.04	meq/L	0.05	EPA 340.2	01/19/99	1500 TD
Nitrogen - Nitrate	<0.05	mg/L	<0.01	meq/L	0.05	EPA 353.2	01/18/98	0940 SH
Sulfate	14900	mg/L	309	meq/L	1	EPA 300.0	01/19/99	0900 BJ
MAJOR CATIONS								
Calcium	582	mg/L	29.0	meq/L	0.2	EPA 200.7	01/14/99	0850 AP
Magnesium	336	mg/L	27.6	meq/L	0.2	EPA 200.7	01/14/99	0850 AP
Potassium	86.6	mg/L	2.21	meq/L	0.2	EPA 200.7	01/14/99	0850 AP
Sodium	6860	mg/L	298	meq/L	0.2	EPA 200.7	01/14/99	0850 AP
CATION/ANION BALANCE QC INFORMATION								
Anion Sum			429	meq/L	0.1	Calculation		
Cation Sum			357	meq/L	0.1	Calculation		
Cation/Anion Balance			9.07	%	0.1	Calculation		

Reference: EPA - "Methods for Chemical Analysis of Water and Wastes (MCAWW)" - EPA/600/4-79-020 - March, 1983.
 EPA - "Methods for the Determination of Metals in Environmental Samples" - Supplement I - 600/R-94-111 - May, 1994.

Reviewed By: CEH



Inter-Mountain Laboratories, Inc.

Phone (505) 326-4737 Fax (505) 325-4182

2506 West Main Street, Farmington, NM 87401

Client: **Conoco, Inc.**
 Project: **Wingate Plant**
 Sample ID: **Pond East**
 Lab ID: **0399W00253**
 Matrix: **Water**
 Condition: **Cool/Intact**

Date Received: 01/11/99
 Date Reported: 01/21/99
 Date Sampled: 01/13/99
 Time Sampled: 1030

Parameter	Analytical		Units	Units	PQL	Method	Analysis		
	Result						Date	Time	Int.
TOTAL METALS									
Arsenic	<0.05	mg/L			0.05	EPA 200.7	01/19/99	1710	AP
Barium	<0.1	mg/L			0.1	EPA 200.7	01/19/99	1710	AP
Cadmium	<0.004	mg/L			0.004	EPA 200.9	01/19/99	1710	AP
Chromium	<0.01	mg/L			0.01	EPA 200.7	01/19/99	1710	AP
Lead	<0.05	mg/L			0.05	EPA 200.9	01/19/99	1710	AP
Mercury	<0.001	mg/L			0.001	SW-846 7470	01/20/99	1500	SH
Selenium	0.36	mg/L			0.05	SM 3114B	01/19/99	1710	AP
Silica	7	mg/L			1	EPA 200.7	01/20/99	1101	AP
Silver	<0.01	mg/L			0.01	EPA 200.7	01/19/99	1710	AP

Reference: EPA - "Methods for the Determination of Metals in Environmental Samples" - Supplement I - 600/R-94-111 - May, 1994.
 SW-846 - "Test Methods for Evaluating Solid Waste: Physical/Chemical Methods", United States Environmental Protection Agency, Final Update 1, July 1992.
 SM - "Standard Methods for the Examination of Water and Wastewater", APHA-AWWA-WEF, 19th Edition, 1995.

Reviewed By: CA



Inter-Mountain Laboratories, Inc.

Phone (505) 326-4737 Fax (505) 325-4182

2506 West Main Street, Farmington, NM 87401

Client: **Conoco, Inc.**
 Project: **Wingate Plant**
 Sample ID: **Pond West**
 Lab ID: **0399W00252**
 Matrix: **Water**
 Condition: **Cool/Intact**

Date Received: 01/11/99
 Date Reported: 01/21/99
 Date Sampled: 01/13/99
 Time Sampled: 1030

Parameter	Result	Units	Units	PQL	Method	Analysis		
						Date	Time	Init.
GENERAL PARAMETERS								
PH	8.5	s.u.		0.1	EPA 150.1	01/15/99	1451	TD
Electrical Conductivity	38700	µmhos/cm		10	EPA 120.1	01/15/99	1451	TD
Solids - Total Dissolved	25600	mg/L		10	EPA 160.1	01/18/99	1337	BJ
Cyanide (Total) - RFA	<0.01	mg/L		0.01	EPA 335.3	01/19/98	1500	WH
Alkalinity (CaCO3)	149	mg/L		1	EPA 310.1	01/15/99	0804	BJ
Hardness (CaCO3)	3410	mg/L		1	Calculation			
MAJOR ANIONS								
Bicarbonate (HCO3)	181	mg/L	2.97	meq/L	1	EPA 310.1	01/15/99	0804 BJ
Carbonate (CO3)	<1	mg/L	<0.01	meq/L	1	EPA 310.1	01/15/99	0804 BJ
Hydroxide (OH)	<1	mg/L	<0.01	meq/L	1	EPA 310.1	01/15/99	0804 BJ
Bromide (Br)	<1	mg/L	<0.01	meq/L	1	EPA 300.0	01/21/98	1100 BJ
Chloride	12600	mg/L	355	meq/L	1	EPA 300.0	01/19/99	0900 BJ
Fluoride	0.76	mg/L	0.04	meq/L	0.05	EPA 340.2	01/19/99	1500 TD
Nitrogen - Nitrate	0.06	mg/L	<0.01	meq/L	0.05	EPA 353.2	01/18/98	0940 SH
Sulfate	14600	mg/L	304	meq/L	1	EPA 300.0	01/19/99	0900 BJ
MAJOR CATIONS								
Calcium	730	mg/L	36.4	meq/L	0.2	EPA 200.7	01/14/99	0848 AP
Magnesium	387	mg/L	31.8	meq/L	0.2	EPA 200.7	01/14/99	0848 AP
Potassium	92.4	mg/L	2.36	meq/L	0.2	EPA 200.7	01/14/99	0846 AP
Sodium	12000	mg/L	522	meq/L	0.2	EPA 200.7	01/14/99	0848 AP
CATION/ANION BALANCE QC INFORMATION								
Anion Sum			419	meq/L	0.1	Calculation		
Cation Sum			593	meq/L	0.1	Calculation		
Cation/Anion Balance			17.1	%	0.1	Calculation		

Reference: EPA - "Methods for Chemical Analysis of Water and Wastes (MCAWW)" - EPA/600/4-79-020 - March, 1983.
 EPA - "Methods for the Determination of Metals in Environmental Samples" - Supplement I - 600/R-94-111 - May, 1994.

Reviewed By: WJH



Inter-Mountain Laboratories, Inc.

Phone (505) 326-4737 Fax (505) 325-4182

2506 West Main Street, Farmington, NM 87401

Client: Conoco, Inc.
 Project: Wingate Plant
 Sample ID: Pond West
 Lab ID: 0399W00252
 Matrix: Water
 Condition: Cool/Intact

Date Received: 01/11/99
 Date Reported: 01/21/99
 Date Sampled: 01/13/99
 Time Sampled: 1030

Parameter	Analytical Result	Units	Units	PQL	Method	Analysis Date	Time	Init.
TOTAL METALS								
Arsenic	<0.05	mg/L		0.05	EPA 200.7	01/19/99	1710	AP
Barium	<0.1	mg/L		0.1	EPA 200.7	01/19/99	1710	AP
Cadmium	<0.004	mg/L		0.004	EPA 200.9	01/19/99	1710	AP
Chromium	<0.01	mg/L		0.01	EPA 200.7	01/19/99	1710	AP
Lead	<0.05	mg/L		0.05	EPA 200.9	01/19/99	1710	AP
Mercury	<0.001	mg/L		0.001	SW-846 7470	01/20/99	1500	SH
Selenium	0.28	mg/L		0.05	SM 3114B	01/19/99	1710	AP
Silica	16	mg/L		1	EPA 200.7	01/20/99	1101	AP
Sliver	<0.01	mg/L		0.01	EPA 200.7	01/19/99	1710	AP

Reference: EPA - "Methods for the Determination of Metals in Environmental Samples" - Supplement I - 600/R-94-111 - May, 1994.

SW-846 - "Test Methods for Evaluating Solid Waste: Physical/Chemical Methods", United States Environmental Protection Agency, Final Update 1, July 1992.

SM - "Standard Methods for the Examination of Water and Wastewater", APHA-AWWA-WEF, 19th Edition, 1995.

Reviewed By:



Larissa Forseth
Environmental Engineer
Engineering & Compliance
Natural Gas & Gas Products
Conoco Inc.

Conoco Inc.
600 N. Dairy Ashford
P.O. Box 2197—HU3038
Houston, TX 77252
(281) 293-3149

Certified Mail No. P 365 861 342
Return Receipt Requested

November 2, 1998

NOV - 6 1998

Mr. Jack Ford
Environmental Bureau
Energy, Minerals and Natural Resource Department
Oil Conservation Division
P.O. Box 6429
Santa Fe, NM 87505

**RE: Semi-annual Groundwater Sampling Event
Wingate Fractionating Plant
McKinley County, New Mexico**

Dear Mr. Ford,

Enclosed please find the semi-annual groundwater sampling report for the Wingate Fractionation Plant. El Paso Energy collected the samples on August 25 and 26, 1998.

As Bill Olson of the NM OCD and I discussed in June, it would reduce the document inflow for the OCD if Conoco were to submit the results from both semi-annual sampling events in one annual report. Conoco requests permission to adopt this reporting procedure.

If you have any questions regarding this sampling event or this request, please contact me at (281) 293-3149. Thank you.

Sincerely,

Larissa Forseth

Attachment



October 23, 1998

Ms. Larissa V. Forseth
Conoco, Inc.
P.O. Box 2197, HU 3038
Houston, Texas 77525-2197

**RE: Wingate Plant
Gallup, New Mexico
Second Semiannual Groundwater Sampling**

Dear Larissa:

Enclosed please find the above referenced analytical results for submittal to the New Mexico Oil Conservation Division (NMOCD). Groundwater samples were collected from all on-site wells (WMW#1-5) and from three monitoring wells located off-site (MW#1-3) on August 25 and 26, 1998.

Water level measurements were taken on August 25, 1998. Groundwater elevations for all monitoring wells were calculated using Top of Riser measurements, consistent with the data previously submitted to NMOCD. A potentiometric surface map is enclosed for submittal to NMOCD.

In addition, fertilizer application in the train loading rack area is being scheduled. I have tentatively scheduled the surveying of WMW-5. I will inform you of the specific dates of both these activities when finalized.

Please contact me at (713) 420-3827 if you have questions or comments.

Sincerely,

A handwritten signature in cursive script, appearing to read 'Gerry Garibay'.

Gerry Garibay
Principal Environmental Scientist
Environmental Remediation Department

Enclosure

FIGURES

TABLES

**WINGATE PLANT
ANALYTICAL RESULTS**

SAMPLE DATE	WELL ID	Sampled by	Benzene	Toluene	Ethylbenzene	Total Xylenes	Gasoline	TPH	TDS	Chloride
			µg/L	µg/L	µg/L	µg/L		µg/L		
		Standard	10 µg/L	750 µg/L	750 µg/L	620 µg/L			1000	250
		MCLs	5 µg/L	1000 µg/L	700 µg/L	10000 µg/L				
11/15/91	MW-01	MOI	ND	ND	ND	ND	-	ND		
01/22/92	MW-01	MOI	ND	ND	ND	ND	-	-		
02/25/93	MW-01	MOI	19.0	2.7	ND	ND	-	-		
01/22/92	MW-01	EPNG	<0.5	<0.5	<0.5	<0.5	-	-		
01/93	MW-01	EPNG	-	-	-	-	-	-		
04/28/92	MW-01	EPNG	<1.0	<1.0	<1.0	<1.0	<100	-		
04/06/93	MW-01	EPNG	ND	ND	ND	ND	-	-		
01/06/94	MW-01	EPNG	1.5	1.5	1.2	3.6				
09/14/94	MW-01	EPNG	<0.5	<0.5	<0.5	<1.0				
09/14/94	MW-01D	EPNG	<0.5	<0.5	1.4	1.1				
03/01/95	MW-01	MOI	<0.3	<0.3	<0.3	<0.6		<0.3	535	20.4
08/22/95	MW-01	EPNG	ND	87	9	49				
03/27/96	MW-01	MOI	ND	ND	ND	ND		ND	690	22.5
03/27/96	MW-01D	MOI	ND	ND	ND	ND		ND	650	25
08/27/96	MW-01	EPNG	ND	ND	ND	ND				
03/26/97	MW-01	CON	1.2	ND	ND	ND		0.6	660	24
08/27/97	MW-01	EPNG	ND	ND	ND	ND				
03/31/98	MW-01	CON	1.8	10	ND	11		ND	610	20
08/25/98	MW-01	EPNG	ND	ND	ND	ND				
08/25/98	MW-01D	EPNG	ND	ND	ND	ND				

**WINGATE PLANT
ANALYTICAL RESULTS**

SAMPLE DATE	WELL ID	Sampled by	Benzene	Toluene	Ethylbenzene	Total Xylenes	Gasoline	TPH	TDS	Chloride
			µg/L	µg/L	µg/L	µg/L		µg/L		
		Standard	10 µg/L	750 µg/L	750 µg/L	620 µg/L			1000	250
		MCLs	5 µg/L	1000 µg/L	700 µg/L	10000 µg/L				
11/15/91	MW-02	MOI	ND	ND	ND	0.1	-	2.6		
01/22/92	MW-02	MOI	ND	ND	ND	ND	-	-		
02/25/93	MW-02	MOI	ND	ND	ND	ND	-	-		
01/22/92	MW-02	EPNG	<0.5	<0.5	<0.5	<0.5	-	-		
04/28/92	MW-02	EPNG	0.002	<1.0	<1.0	<1.0	<100	-		
01/93	MW-02	EPNG	-	-	-	-	-	-		
04/06/93	MW-02	EPNG	2.0	2.0	ND	1.0	-	-		
09/14/94	MW-02	EPNG	<0.5	<0.5	<0.5	<1.0				
03/01/95	MW-02	MOI	<0.3	<0.3	<0.3	<0.6		<0.3	1030	57
08/22/95	MW-02	EPNG	ND	ND	ND	ND				
03/27/96	MW-02	MOI	ND	ND	ND	ND		ND	1120	53.7
08/27/96	MW-02	EPNG	ND	ND	ND	ND				
03/26/97	MW-02	CON	2.0	ND	ND	ND		0.5	1100	56
08/27/97	MW-02	EPNG	ND	ND	ND	ND				
03/31/98	MW-02	CON	ND	ND	ND	ND		ND	1140	60.8
08/25/98	MW-02	EPNG	ND	ND	ND	ND				

**WINGATE PLANT
ANALYTICAL RESULTS**

SAMPLE DATE	WELL ID	Sampled by	Benzene	Toluene	Ethylbenzene	Total Xylenes	Gasoline	TPH	TDS	Chloride
			µg/L	µg/L	µg/L	µg/L		µg/L		
		Standard	10 µg/L	750 µg/L	750 µg/L	620 µg/L			1000	250
		MCLs	5 µg/L	1000 µg/L	700 µg/L	10000 µg/L				
01/15/91	MW-03	MOI	0.2	0.2	0.4	1.7	ND	-		
01/21/92	MW-03	MOI	ND	3.9	0.6	4.4	-	-		
02/25/93	MW-03	MOI	ND	ND	ND	ND	-	-		
01/92	MW-03	EPNG	-	-	-	-	-	-		
04/28/92	MW-03	EPNG	<1.0	<1.0	<1.0	<1.0	<100	-		
01/12/93	MW-03	EPNG	<1.0	2.0	<1.0	<1.0	-	-		
04/06/93	MW-03	EPNG	ND	ND	ND	ND	-	-		
01/06/94	MW-03	EPNG	46	1.4	3.5	4.7				
01/06/94	MW-03	EPNG	1.5	1.4	1.2	3.4				
09/14/94	MW-03	EPNG	2	<0.5	<0.5	<1.0				
09/14/94	MW-03D	EPNG	1.4	<0.5	<0.5	<1.0				
03/01/95	MW-03	MOI	<0.3	<0.3	<0.3	<0.6		<0.3	481	18.7
08/22/95	MW-03	EPNG	ND	ND	ND	ND				
03/28/96	MW-03	MOI	ND	ND	ND	ND		ND	540	23.7
08/28/96	MW-03	EPNG	ND	ND	ND	ND				
03/26/97	MW-03	CON	9.2	ND	ND	ND		1.1	600	21
08/27/97	MW-03	EPNG	ND	ND	ND	ND				
03/31/98	MW-03	CON	ND	ND	ND	ND		ND	530	19.2
08/26/98	MW-03	EPNG	ND	ND	ND	ND				

**WINGATE PLANT
ANALYTICAL RESULTS**

SAMPLE DATE	WELL ID	Sampled by	Benzene	Toluene	Ethylbenzene	Total Xylenes	Gasoline	TPH	TDS	Chloride
			µg/L	µg/L	µg/L	µg/L		µg/L		
		Standard	10 µg/L	750 µg/L	750 µg/L	620 µg/L			1000	250
		MCLs	5 µg/L	1000 µg/L	700 µg/L	10000 µg/L				
07/10/91	WMW-01	MOI	ND	ND	ND	ND	-	9.5		
10/28/91	WMW-01	MOI	ND	ND	ND	ND	-	ND		
01/21/92	WMW-01	MOI	ND	1.3	8.2	7.9	-	-		
02/25/93	WMW-01	MOI	ND	ND	ND	ND	-	-		
02/05/92	WMW-01	EPNG	<0.5	<0.5	<0.5	<0.5	-	-		
04/29/92	WMW-01	EPNG	<1.0	<1.0	<1.0	<1.0	<100	-		
01/13/93	WMW-01	EPNG	<1.0	1.0	<1.0	<1.0	-	-		
04/07/93	WMW-01	EPNG	2.0	2.0	ND	1.0	-	-		
01/05/94	WMW-01	EPNG	3.8	1.2	1.8	3.9				
09/14/94	WMW-01	EPNG	2	<0.5	1	<1.0				
03/01/95	WMW-01	MOI	<0.3	<0.3	<0.3	<0.6		<0.3	4350	655
08/23/95	WMW-01	EPNG	ND	ND	ND	ND				
03/28/96	WMW-01	MOI	ND	ND	ND	ND		ND	3690	472
08/28/96	WMW-01	EPNG	ND	ND	ND	ND				
03/25/97	WMW-01	CON	ND	ND	ND	ND		1.7	4600	650
08/26/97	WMW-01	EPNG	ND	ND	ND	ND				
08/26/97	WMW-01D	EPNG	ND	ND	ND	ND				
03/30/98	WMW-01	CON	ND	ND	ND	ND		ND	4530	600
08/25/98	WMW-01	EPNG	ND	ND	ND	ND				

**WINGATE PLANT
ANALYTICAL RESULTS**

SAMPLE DATE	WELL ID	Sampled by	Benzene	Toluene	Ethylbenzene	Total Xylenes	Gasoline	TPH	TDS	Chloride
			µg/L	µg/L	µg/L	µg/L		µg/L		
		Standard	10 µg/L	750 µg/L	750 µg/L	620 µg/L			1000	250
		MCLs	5 µg/L	1000 µg/L	700 µg/L	10000 µg/L				
07/10/91	WMW-02	MOI	26800	6800	ND	1145	-	191,000		
09/01/91	WMW-02	MOI	5400	-	5400	1127	-	38,500	3050	732
10/28/91	WMW-02	MOI	5700	5300	164	1067	-	4,000		
11/01/91	WMW-02	MOI	2520	1610	990	-	-	6,800		
12/04/91	WMW-02	MOI	2520	1610	990	374	-	6,663		
12/31/91	WMW-02	MOI	2540	1600	2090	1900	-	18,460		
02/25/93	WMW-02	MOI	37000	3300	180	1230	-	-		
01/21/92	WMW-02	EPNG	3090	1320	129	1020	-	-		
02/06/92	WMW-02	EPNG	30000	6000	<500	<500	-	-		
04/29/92	WMW-02	EPNG	3700	2300	73	510	30000	-		
01/12/93	WMW-02	EPNG	30000	3300	40	400	-	-		
04/07/93	WMW-02	EPNG	37000	4200	120	980	-	-		
01/05/94	WMW-02	EPNG	17000	2500	200	990				
09/13/94	WMW-02	EPNG	35000	46	5000	640				
09/13/94	WMW-02D	EPNG	28000	66	4100	900				
03/01/95	WMW-02	MOI	12300	478	<200	<300		34.5	3200	819
08/23/95	WMW-02	EPNG	35000	3100	160	1110				
03/28/96	WMW-02	MOI	29800	3100	132	994		9.33	2450	500
08/28/96	WMW-02	EPNG	29000	3300	180	1420				
03/26/97	WMW-02	CON	36000	1600	140	960		24	2800	630
08/26/97	WMW-02	EPNG	26000	1600	130	1100				
03/30/98	WMW-02	CON	19000	320	ND	150		39	3110	710
08/26/98	WMW-02	EPNG	30000	ND	ND	ND				

**WINGATE PLANT
ANALYTICAL RESULTS**

SAMPLE DATE	WELL ID	Sampled by	Benzene	Toluene	Ethylbenzene	Total Xylenes	Gasoline	TPH	TDS	Chloride
			µg/L	µg/L	µg/L	µg/L		µg/L		
		Standard	10 µg/L	750 µg/L	750 µg/L	620 µg/L			1000	250
		MCLs	5 µg/L	1000 µg/L	700 µg/L	10000 µg/L				
07/10/91	WMW-03	MOI	ND	ND	ND	ND	-	7.8		
10/28/91	WMW-03	MOI	3.1	ND	ND	ND	-	ND		
01/22/92	WMW-03	MOI	44.3	18.3	1.3	7.7	-	-		
02/25/93	WMW-03	MOI	ND	ND	ND	ND	-	-		
01/22/92	WMW-03	EPNG	1.2	<0.5	<0.5	<0.5	-	-		
04/29/92	WMW-03	EPNG	<1.0	<1.0	<1.0	<1.0	<100	-		
01/13/93	WMW-03	EPNG	14.0	3.0	<1.0	<1.0	-	-		
04/07/93	WMW-03	EPNG	ND	1.0	ND	ND	-	-		
01/05/94	WMW-03	EPNG	1.8	1.1	1.3	3.5				
09/13/94	WMW-03	EPNG	<0.5	<0.5	<0.5	<1.0				
01/05/94	WMW-03	EPNG	1.8	1.1	1.3	3.5				
09/13/94	WMW-03	EPNG	<0.5	<0.5	<0.5	<1.0				
03/01/95	WMW-03	MOI	<0.3	<0.3	<0.3	<0.6		<0.3	4970	961
08/22/95	WMW-03	EPNG	ND	13	ND	10				
08/22/05	WMW-03D	EPNG	ND	ND	ND	ND				
03/28/96	WMW-03	MOI	ND	ND	ND	ND		ND	5060	810
08/27/96	WMW-03	EPNG	ND	ND	ND	ND				
03/25/97	WMW-03	CON	ND	ND	ND	ND		ND	5100	840
08/26/97	WMW-03	EPNG	ND	ND	ND	ND				
03/31/98	WMW-03	CON	ND	ND	ND	ND		ND	4950	850
08/25/98	WMW-03	EPNG	ND	ND	ND	ND				

**WINGATE PLANT
ANALYTICAL RESULTS**

SAMPLE DATE	WELL ID	Sampled by	Benzene	Toluene	Ethylbenzene	Total Xylenes	Gasoline	TPH	TDS	Chloride
			µg/L	µg/L	µg/L	µg/L		µg/L		
		Standard	10 µg/L	750 µg/L	750 µg/L	620 µg/L			1000	250
		MCLs	5 µg/L	1000 µg/L	700 µg/L	10000 µg/L				
07/10/91	WMW-04	MOI	ND	ND	ND	ND	-	14.7		
10/28/91	WMW-04	MOI	1.3	ND	ND	ND	-	ND		
01/21/92	WMW-04	MOI	1.9	4.0	1.1	5.1	-	-		
02/25/93	WMW-04	MOI	7.6	3.0	ND	ND	-	-		
02/06/92	WMW-04	EPNG	0.7	<0.5	<0.5	<0.5		-		
04/29/92	WMW-04	EPNG	3.0	<1.0	<1.0	<1.0	<100	-		
01/12/93	WMW-04	EPNG	68.0	8.0	<1.0	4.0	-	-		
04/07/93	WMW-04	EPNG	ND	1.0	ND	ND	-	-		
01/05/94	WMW-04	EPNG	13	1.5	3.3	5.6				
09/13/94	WMW-04	EPNG	<0.5	<0.5	2	2				
03/01/95	WMW-04	MOI	0.9	0.8	<0.3	<0.6		<0.3	1470	123
08/23/95	WMW-04	EPNG	ND	ND	ND	ND				
03/28/96	WMW-04	MOI	ND	ND	ND	ND		ND	1500	110
08/27/96	WMW-04	EPNG	ND	ND	ND	ND				
08/27/96	WMW-04D	EPNG	ND	ND	ND	ND				
03/25/97	WMW-04	CON	ND	ND	ND	ND		0.4	1500	120
08/26/97	WMW-04	EPNG	ND	ND	ND	ND				
03/30/98	WMW-04	CON	3.6	ND	ND	ND		ND	1440	110
08/25/98	WMW-04	EPNG	ND	ND	ND	ND				

**WINGATE PLANT
ANALYTICAL RESULTS**

SAMPLE DATE	WELL ID	Sampled by	Benzene	Toluene	Ethylbenzene	Total Xylenes	Gasoline	TPH	TDS	Chloride
			µg/L	µg/L	µg/L	µg/L		µg/L		
		Standard	10 µg/L	750 µg/L	750 µg/L	620 µg/L			1000	250
		MCLs	5 µg/L	1000 µg/L	700 µg/L	10000 µg/L				
01/05/94	WMW-05	EPNG	3.7	1.3	2.4	4.4				
09/14/94	WMW-05	EPNG	5	<0.5	0.8	<1.0				
03/01/95	WMW-05	MOI	<0.3	<0.3	<0.3	<0.6		<0.3	4250	485
08/23/95	WMW-05	EPNG	ND	ND	ND	12				
03/28/96	WMW-05	MOI	ND	ND	ND	ND		ND	4870	471
08/27/96	WMW-05	EPNG	ND	ND	ND	ND				
03/25/97	WMW-05	CON	ND	ND	ND	ND		ND	4700	550
03/25/97	WMW-05D	CON	1.0	ND	ND	ND		0.5	560	26
08/26/97	WMW-05	EPNG	0.94	ND	ND	ND				
03/30/98	WMW-05	CON	ND	ND	ND	ND		ND	5060	620
03/30/98	WMW-05D	CON	ND	ND	ND	ND		ND	4540	620
08/26/98	WMW-05	EPNG	ND	ND	ND	ND				

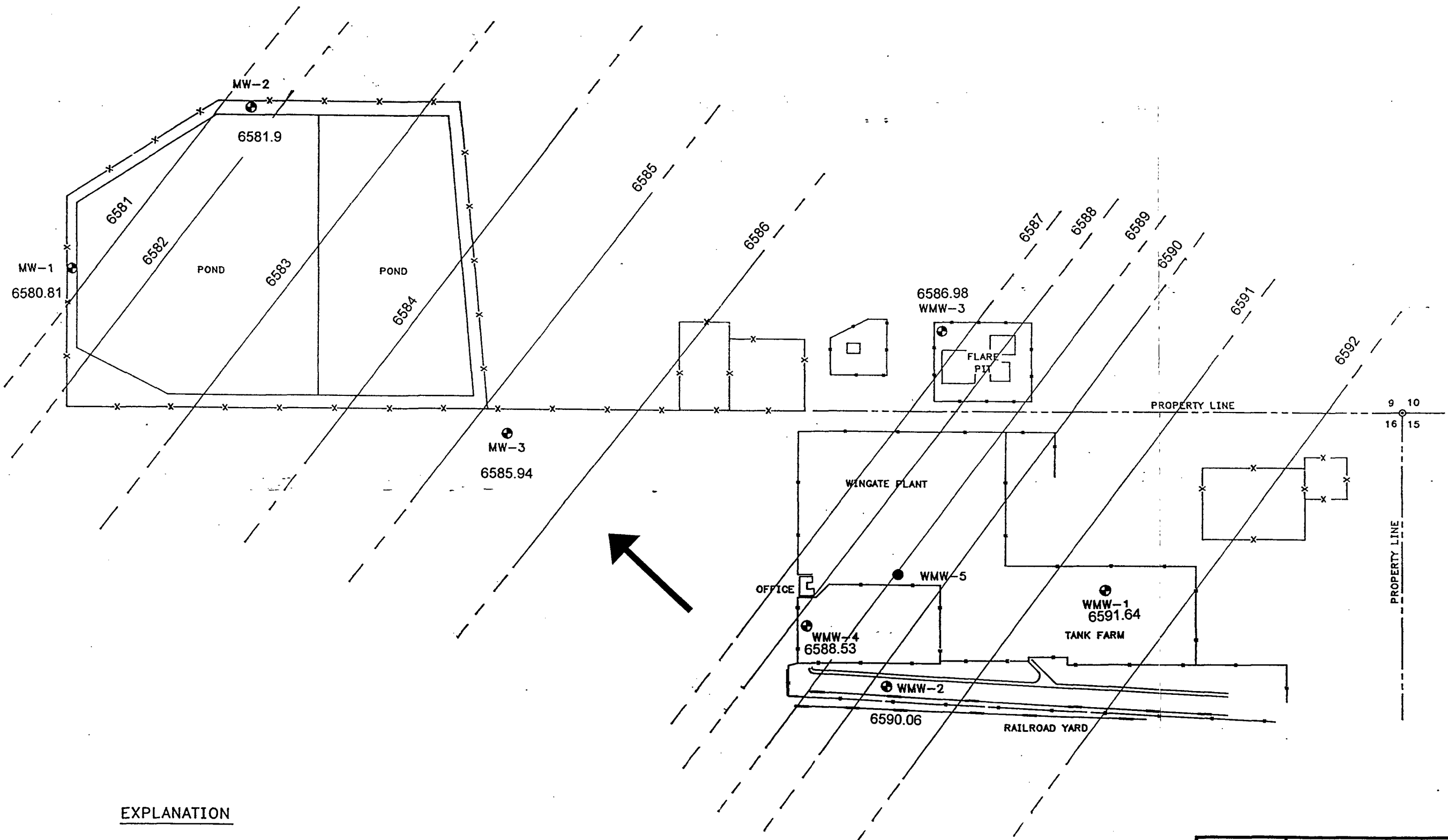
CHAIN OF CUSTODY

PROJECT NUMBER		PROJECT NAME			TOTAL NUMBER OF CONTAINERS	COMPOSITE OR GRAB	REQUESTED ANALYSIS						CONTRACT LABORATORY	
SAMPLERS: (Signature)		DATE:												
LAB ID	DATE	TIME	MATRIX	SAMPLE NUMBER			BTEX						REMARKS	
	8/25/98	0925	H ₂ O	S98-0303	12		X						P9808083-01 sample broken before shipping	
	8/25/98	0930	H ₂ O	S98-0304	2		X						-02	
	8/25/98	0935	H ₂ O	S98-0305	2		X						-03	
	8/25/98	1040	H ₂ O	S98-0306	2		X						-04	
	8/25/98	1130	H ₂ O	S98-0307	2		X						-05	
	8/25/98	1310	H ₂ O	S98-0308	2		X						-06	
	8/25/98	1445	H ₂ O	S98-0309	2		X						-07	
	8/25/98	1445	H ₂ O	S98-0310	2		X						-08	
	8/25/98	1600	H ₂ O	S98-0311	2		X						-09	
												Custody Seal intact? Y ☒ N ☐ None		
												Condition when received ☒ good		
RELINQUISHED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)		RELINQUISHED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)				
8/25/98		8/25/98 1700												
RELINQUISHED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)		RELINQUISHED BY: (Signature)		DATE/TIME		RECEIVED OF LABORATORY BY: (Signature)				
				Reyno Vallejo		Via FedEx		8/27/98 9:40 AM		From ENG				
REQUESTED TURNAROUND TIME: ☐ ROUTINE ☐ RUSH				SAMPLE RECEIPT REMARKS				RESULTS & INVOICES TO:						
CARRIER CO.				CHARGE CODE				TECHNICAL SERVICES DIVISION LABORATORY EL PASO NATURAL GAS COMPANY 8645 RAILROAD DRIVE EL PASO, TEXAS 79904 915-759-2229 FAX: 915-759-2335						
BILL NO.:														

PROJECT NUMBER		PROJECT NAME			TOTAL NUMBER OF CONTAINERS	COMPOSITE OR GRAB	REQUESTED ANALYSIS						CONTRACT LABORATORY	
SAMPLERS: (Signature)		DATE:												
LAB ID	DATE	TIME	MATRIX	SAMPLE NUMBER								REMARKS		
8/26/98	0930		H ₂ O	S98-0312	2		X					P9808083-10		
8/26/98	1115		H ₂ O	S98-0313	2		X					-11		
8/26/98	1235		H ₂ O	S98-0314	2		X					-12		
8/26/98	1307		H ₂ O	S98-0315	2		X					-13		
8/26/98	1315		H ₂ O	S98-0316	2		X					-14		
Custody Seal intact? Y ☒ N ☐ None Temp. <u>17°</u> Condition when received <u>good</u>														
RELINQUISHED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)		RELINQUISHED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)				
RELINQUISHED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)		RELINQUISHED BY: (Signature)		DATE/TIME		RECEIVED OF LABORATORY BY: (Signature)				
REQUESTED TURNAROUND TIME: ☐ ROUTINE ☐ RUSH				SAMPLE RECEIPT REMARKS				RESULTS & INVOICES TO:						
CARRIER CO.				CHARGE CODE				LABORATORY SERVICES EL PASO NATURAL GAS COMPANY 8645 RAILROAD DRIVE EL PASO, TEXAS 79904 915-759-2229 FAX: 915-759-2335						
BILL NO.:														

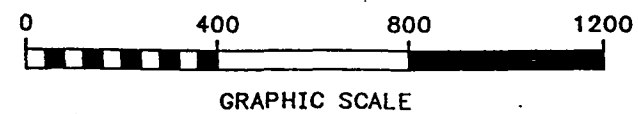
ANALYTICAL DATA

N



EXPLANATION

- RAILROAD
- x-x- FENCED AREA
- ⊕ WMW-4 APPROXIMATE MONITORING WELL LOCATION
- WMW-5 APPROXIMATE PROPOSED MONITORING WELL LOCATION



**WINGATE
GROUNDWATER MONITORING
WELL LOCATIONS**

August 1998

ENV080

SAMPLE KEY

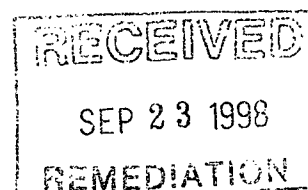
SAMPLE NUMBER: S98-0303 LOCATION: WINGATE PLANT
MATRIX: WATER
SAMPLE DESCRIPTION: PUMP BLANK BEFORE PURGING EMP #1
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 09:25 SAMPLE DATE: 08/25/98

SAMPLE KEY

SAMPLE NUMBER: S98-0304 LOCATION: WINGATE PLANT
MATRIX: WATER
SAMPLE DESCRIPTION: BAILER BLANK BEFORE SAMPLING
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 09:30 SAMPLE DATE: 08/25/98

SAMPLE KEY

SAMPLE NUMBER: S98-0305 LOCATION: WINGATE PLANT
MATRIX: WATER
SAMPLE DESCRIPTION: FIELD BLANK
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 09:35 SAMPLE DATE: 08/25/98



SAMPLE KEY

SAMPLE NUMBER: S98-0306 LOCATION: WINGATE PLANT
MATRIX: WATER
SAMPLE DESCRIPTION: MONITOR WELL WMW#1
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 10:40 SAMPLE DATE: 08/25/98

SAMPLE KEY

SAMPLE NUMBER: S98-0307 LOCATION: WINGATE PLANT
MATRIX: WATER
SAMPLE DESCRIPTION: MONITOR WELL WMW#3
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 11:30 SAMPLE DATE: 08/25/98

SAMPLE KEY

SAMPLE NUMBER: S98-0308 LOCATION: WINGATE PLANT
MATRIX: WATER
SAMPLE DESCRIPTION: MONITOR WELL MW#2
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 13:10 SAMPLE DATE: 08/25/98

SAMPLE KEY

SAMPLE NUMBER: S98-0309 LOCATION: WINGATE PLANT
MATRIX: WATER
SAMPLE DESCRIPTION: MONITOR WELL MW#1
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 14:45 SAMPLE DATE: 08/25/98

SAMPLE KEY

SAMPLE NUMBER: S98-0310 LOCATION: WINGATE PLANT
MATRIX: WATER
SAMPLE DESCRIPTION: MONITOR WELL MW#1 DUP.
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 14:45 SAMPLE DATE: 08/25/98

SAMPLE KEY

SAMPLE NUMBER: S98-0311 LOCATION: WINGATE PLANT
MATRIX: WATER
SAMPLE DESCRIPTION: MONITOR WELL WMW#1 DUP.
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 14:45 SAMPLE DATE: 08/25/98

SAMPLE KEY

SAMPLE NUMBER: S98-0312 LOCATION: WINGATE PLANT
MATRIX: WATER
SAMPLE DESCRIPTION: MONITOR WELL WMW#2
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 09:30 SAMPLE DATE: 08/26/98

SAMPLE KEY

SAMPLE NUMBER: S98-0313 LOCATION: WINGATE PLANT
MATRIX: WATER
SAMPLE DESCRIPTION: MONITOR WELL WMW#5
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 09:30 SAMPLE DATE: 08/26/98

SAMPLE KEY

SAMPLE NUMBER: S98-0314 LOCATION: WINGATE PLANT
MATRIX: WATER
SAMPLE DESCRIPTION: MONITOR WELL MW#3
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 12:35 SAMPLE DATE: 08/26/98

SAMPLE KEY

SAMPLE NUMBER: S98-0315 LOCATION: WINGATE PLANT
MATRIX: WATER
SAMPLE DESCRIPTION: BAILER BLANK AFTER SAMPLING
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 13:07 SAMPLE DATE: 08/26/98

SAMPLE KEY

SAMPLE NUMBER: S98-0316 LOCATION: WINGATE PLANT
MATRIX: WATER
SAMPLE DESCRIPTION: PUMP BLANK AFTER PURGING EMP #1
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 13:15 SAMPLE DATE: 08/26/98

NEL LABORATORIES

Reno • Las Vegas
Phoenix • Burbank

Reno Division
1030 Matley Lane • Reno, Nevada 89502
(702) 348-2522 • Fax: (702) 348-2546
1-800-368-5221

CLIENT: El Paso Natural Gas Co.
8645 Railroad Dr.
El Paso, TX 79904
ATTN: Darrell Campbell

PROJECT NAME:
PROJECT #:

NEL ORDER ID: P9808083

Attached are the analytical results for samples in support of the above referenced project.

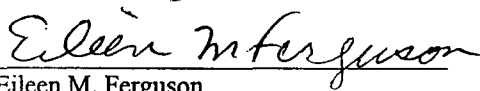
Samples submitted for this project were not sampled by NEL Laboratories. Samples were received by NEL in good condition, under chain of custody on 8/27/98.

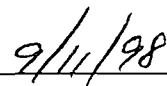
Samples were analyzed as received.

Where applicable we have included the following quality control data:

Method blank - used to demonstrate absence of contamination or interferences in the analytical process.
Laboratory Control Spike (LCS) - used to demonstrate laboratory ability to perform the method within specifications by spiking representative analytes into a clean matrix.
Surrogates - compounds added to each sample to ensure that the method requirements are met for each individual sample.

Should you have any questions or comments, please feel free to contact our Client Services department at (602) 437-0099.


Eileen M. Ferguson
Laboratory Manager


Date

CERTIFICATIONS:

	<u>Reno</u>	<u>Las Vegas</u>	<u>S. California</u>
Arizona	AZ0520	AZ0518	AZ0583
California	1707	2002	2264
US Army Corps of Engineers	Certified	Certified	Certified

	<u>Reno</u>	<u>Las Vegas</u>	<u>S. California</u>
Idaho	Certified	Certified	
Montana	Certified	Certified	
Nevada	NV033	NV052	CA084
Washington			Certified

NEL LABORATORIES

CLIENT: El Paso Natural Gas Co.
PROJECT ID:
PROJECT #:

CLIENT ID: S98-0303
DATE SAMPLED: 8/25/98
NEL SAMPLE ID: P9808083-01

TEST: Volatile Organic Compounds by EPA 8260B, December 1996
METHOD: EPA 8260A
MATRIX: Aqueous
DILUTION: 1

ANALYST: DJH
EXTRACTED: 8/30/98
ANALYZED: 8/30/98

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Benzene	8 µg/L	2. µg/L
Toluene	3 µg/L	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	2. µg/L

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
4-Bromofluorobenzene	101	86 - 115
Dibromofluoromethane	101	86 - 118
Toluene-d8	99	86 - 110

ND - Not Detected

This report shall not be reproduced except in full, without the written approval of the laboratory.

NEL LABORATORIES

CLIENT: El Paso Natural Gas Co.
PROJECT ID:
PROJECT #:

CLIENT ID: S98-0304
DATE SAMPLED: 8/25/98
NEL SAMPLE ID: P9808083-02

TEST: Volatile Organic Compounds by EPA 8260B, December 1996
METHOD: EPA 8260A
MATRIX: Aqueous
DILUTION: 1

ANALYST: DJH
EXTRACTED: 8/30/98
ANALYZED: 8/30/98

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	2. µg/L

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
4-Bromofluorobenzene	99	86 - 115
Dibromofluoromethane	101	86 - 118
Toluene-d8	99	86 - 110

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Co.
PROJECT ID:
PROJECT #:

CLIENT ID: S98-0305
DATE SAMPLED: 8/25/98
NEL SAMPLE ID: P9808083-03

TEST: Volatile Organic Compounds by EPA 8260B, December 1996
METHOD: EPA 8260A
MATRIX: Aqueous
DILUTION: 1

ANALYST: DJH
EXTRACTED: 8/30/98
ANALYZED: 8/30/98

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	2. µg/L

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
4-Bromofluorobenzene	99	86 - 115
Dibromofluoromethane	101	86 - 118
Toluene-d8	98	86 - 110

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Co.
PROJECT ID:
PROJECT #:

CLIENT ID: S98-0306
DATE SAMPLED: 8/25/98
NEL SAMPLE ID: P9808083-04

TEST: Volatile Organic Compounds by EPA 8260B, December 1996
METHOD: EPA 8260A
MATRIX: Aqueous
DILUTION: 1

ANALYST: DJH
EXTRACTED: 8/30/98
ANALYZED: 8/30/98

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	2. µg/L

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
4-Bromofluorobenzene	99	86 - 115
Dibromofluoromethane	100	86 - 118
Toluene-d8	98	86 - 110

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Co.
PROJECT ID:
PROJECT #:

CLIENT ID: S98-0307
DATE SAMPLED: 8/25/98
NEL SAMPLE ID: P9808083-05

TEST: Volatile Organic Compounds by EPA 8260B, December 1996
METHOD: EPA 8260A
MATRIX: Aqueous
DILUTION: 1

ANALYST: DJH
EXTRACTED: 8/30/98
ANALYZED: 8/30/98

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	2. µg/L

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
4-Bromofluorobenzene	99	86 - 115
Dibromofluoromethane	100	86 - 118
Toluene-d8	98	86 - 110

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Co.
PROJECT ID:
PROJECT #:

CLIENT ID: S98-0308
DATE SAMPLED: 8/25/98
NEL SAMPLE ID: P9808083-06

TEST: Volatile Organic Compounds by EPA 8260B, December 1996
METHOD: EPA 8260A
MATRIX: Aqueous
DILUTION: 1

ANALYST: DJH
EXTRACTED: 8/30/98
ANALYZED: 8/30/98

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	2. µg/L

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
4-Bromofluorobenzene	99	86 - 115
Dibromofluoromethane	101	86 - 118
Toluene-d8	98	86 - 110

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Co.
PROJECT ID:
PROJECT #:

CLIENT ID: S98-0309
DATE SAMPLED: 8/25/98
NEL SAMPLE ID: P9808083-07

TEST: Volatile Organic Compounds by EPA 8260B, December 1996
METHOD: EPA 8260A
MATRIX: Aqueous
DILUTION: 1

ANALYST: DJH
EXTRACTED: 8/30/98
ANALYZED: 8/30/98

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	2. µg/L

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
4-Bromofluorobenzene	99	86 - 115
Dibromofluoromethane	101	86 - 118
Toluene-d8	99	86 - 110

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Co.
PROJECT ID:
PROJECT #:

CLIENT ID: S98-0310
DATE SAMPLED: 8/25/98
NEL SAMPLE ID: P9808083-08

TEST: Volatile Organic Compounds by EPA 8260B, December 1996
METHOD: EPA 8260A
MATRIX: Aqueous
DILUTION: 1

ANALYST: DJH
EXTRACTED: 8/30/98
ANALYZED: 8/30/98

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	2. µg/L

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
4-Bromofluorobenzene	100	86 - 115
Dibromofluoromethane	101	86 - 118
Toluene-d8	99	86 - 110

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Co.
PROJECT ID:
PROJECT #:

CLIENT ID: S98-0311
DATE SAMPLED: 8/25/98
NEL SAMPLE ID: P9808083-09

TEST: Volatile Organic Compounds by EPA 8260B, December 1996
METHOD: EPA 8260A
MATRIX: Aqueous
DILUTION: 1

ANALYST: DJH
EXTRACTED: 8/30/98
ANALYZED: 8/30/98

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	2. µg/L

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
4-Bromofluorobenzene	100	86 - 115
Dibromofluoromethane	101	86 - 118
Toluene-d8	99	86 - 110

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Co.
PROJECT ID:
PROJECT #:

CLIENT ID: S98-0312
DATE SAMPLED: 8/25/98
NEL SAMPLE ID: P9808083-10

TEST: Volatile Organic Compounds by EPA 8260B, December 1996
METHOD: EPA 8260A
MATRIX: Aqueous
DILUTION: 1000

ANALYST: DJH
EXTRACTED: 8/31/98
ANALYZED: 8/31/98

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Benzene	30000 µg/L	2000. µg/L
Toluene	ND	2000. µg/L
Ethylbenzene	ND	2000. µg/L
Total Xylenes	ND	2000. µg/L

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
4-Bromofluorobenzene	104	86 - 115
Dibromofluoromethane	98	86 - 118
Toluene-d8	102	86 - 110

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Co.
PROJECT ID:
PROJECT #:

CLIENT ID: S98-0313
DATE SAMPLED: 8/25/98
NEL SAMPLE ID: P9808083-11

TEST: Volatile Organic Compounds by EPA 8260B, December 1996
METHOD: EPA 8260A
MATRIX: Aqueous
DILUTION: 1

ANALYST: DJH
EXTRACTED: 8/30/98
ANALYZED: 8/30/98

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	2. µg/L

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
4-Bromofluorobenzene	101	86 - 115
Dibromofluoromethane	99	86 - 118
Toluene-d8	100	86 - 110

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Co.
PROJECT ID:
PROJECT #:

CLIENT ID: S98-0314
DATE SAMPLED: 8/25/98
NEL SAMPLE ID: P9808083-12

TEST: Volatile Organic Compounds by EPA 8260B, December 1996
METHOD: EPA 8260A
MATRIX: Aqueous
DILUTION: 1

ANALYST: DJH
EXTRACTED: 8/30/98
ANALYZED: 8/30/98

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	2. µg/L

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
4-Bromofluorobenzene	102	86 - 115
Dibromofluoromethane	100	86 - 118
Toluene-d8	101	86 - 110

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Co.
PROJECT ID:
PROJECT #:

CLIENT ID: S98-0315
DATE SAMPLED: 8/25/98
NEL SAMPLE ID: P9808083-13

TEST: Volatile Organic Compounds by EPA 8260B, December 1996
METHOD: EPA 8260A
MATRIX: Aqueous
DILUTION: 1

ANALYST: DJH
EXTRACTED: 8/30/98
ANALYZED: 8/30/98

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Benzene	3 µg/L	2. µg/L
Toluene	19 µg/L	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	2. µg/L

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
4-Bromofluorobenzene	102	86 - 115
Dibromofluoromethane	98	86 - 118
Toluene-d8	101	86 - 110

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Co.
PROJECT ID:
PROJECT #:

CLIENT ID: S98-0316
DATE SAMPLED: 8/25/98
NEL SAMPLE ID: P9808083-14

TEST: Volatile Organic Compounds by EPA 8260B, December 1996
METHOD: EPA 8260A
MATRIX: Aqueous
DILUTION: 1

ANALYST: DJH
EXTRACTED: 8/31/98
ANALYZED: 8/31/98

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Benzene	3 µg/L	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	2. µg/L

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
4-Bromofluorobenzene	103	86 - 115
Dibromofluoromethane	97	86 - 118
Toluene-d8	102	86 - 110

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Co.
PROJECT ID:
PROJECT #:

CLIENT ID: Method Blank
DATE SAMPLED: NA
NEL SAMPLE ID: 083098-V1-8260B-BLK

TEST: Volatile Organic Compounds by EPA 8260B, December 1996
METHOD: EPA 8260A
MATRIX: Aqueous

ANALYST: DJH
EXTRACTED: 8/30/98
ANALYZED: 8/30/98

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	2. µg/L

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
4-Bromofluorobenzene	101	86 - 115
Dibromofluoromethane	99	86 - 118
Toluene-d8	99	86 - 110

ND - Not Detected

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CLIENT: El Paso Natural Gas Co.
PROJECT ID:
PROJECT #:

CLIENT ID: Method Blank
DATE SAMPLED: NA
NEL SAMPLE ID: 083198-V1-8260B-BLK

TEST: Volatile Organic Compounds by EPA 8260B, December 1996
METHOD: EPA 8260A
MATRIX: Aqueous

ANALYST: DJH
EXTRACTED: 8/31/98
ANALYZED: 8/31/98

<u>PARAMETER</u>	<u>Result</u>	<u>Reporting Limit</u>
Benzene	ND	2. µg/L
Toluene	ND	2. µg/L
Ethylbenzene	ND	2. µg/L
Total Xylenes	ND	2. µg/L

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>% Recovery</u>	<u>Acceptable Range</u>
4-Bromofluorobenzene	102	86 - 115
Dibromofluoromethane	97	86 - 118
Toluene-d8	102	86 - 110

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Co.
PROJECT ID:
PROJECT #:

CLIENT ID: Laboratory Control Spike
DATE SAMPLED: NA
NEL SAMPLE ID: 083098-V1-8260B-LCS

TEST: Volatile Organic Compounds by EPA 8260B, December 1996
MATRIX: Aqueous

ANALYST: DJH
EXTRACTED: 8/30/98
ANALYZED: 8/30/98

<u>PARAMETER</u>	<u>Percent Recovery</u>	<u>Acceptable Range</u>
Benzene	101	76 - 127
Toluene	101	76 - 125
Ethylbenzene	102	76 - 127
Total Xylenes	100	76 - 127
MTBE	100	76 - 127

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Acceptable Range</u>
4-Bromofluorobenzene	101	86 - 115
Dibromofluoromethane	101	86 - 118
Toluene-d8	101	86 - 110

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Co.
PROJECT ID:
PROJECT #:

CLIENT ID: Matrix Spike
DATE SAMPLED: NA
NEL SAMPLE ID: P9808083-02-MS

TEST: Volatile Organic Compounds by EPA 8260B, December 1996
MATRIX: Aqueous

ANALYST: EMF
EXTRACTED: 8/30/98
ANALYZED: 8/30/98

<u>PARAMETER</u>	<u>Percent Recovery</u>	<u>Acceptable Range</u>
Benzene	92	76 - 127
Toluene	90	76 - 125
Ethylbenzene	90	76 - 127
Total Xylenes	89	76 - 127
MTBE	90	76 - 127

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Acceptable Range</u>
4-Bromofluorobenzene	102	86 - 115
Dibromofluoromethane	101	86 - 118
Toluene-d8	102	86 - 110

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Co.
PROJECT ID:
PROJECT #:

CLIENT ID: Laboratory Control Spike
DATE SAMPLED: NA
NEL SAMPLE ID: 083198-V1-8260B-LCS

TEST: Volatile Organic Compounds by EPA 8260B, December 1996
MATRIX: Aqueous

ANALYST: DJH
EXTRACTED: 8/31/98
ANALYZED: 8/31/98

<u>PARAMETER</u>	<u>Percent Recovery</u>	<u>Acceptable Range</u>
Benzene	98	76 - 127
Toluene	100	76 - 125
Ethylbenzene	100	76 - 127
Total Xylenes	99	76 - 127
MTBE	107	76 - 127

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Acceptable Range</u>
4-Bromofluorobenzene	98	86 - 115
Dibromofluoromethane	100	86 - 118
Toluene-d8	100	86 - 110

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Co.
PROJECT ID:
PROJECT #:

CLIENT ID: Matrix Spike
DATE SAMPLED: NA
NEL SAMPLE ID: P9808083-10-MS

TEST: Volatile Organic Compounds by EPA 8260B, December 1996
MATRIX: Aqueous

ANALYST: EMF
EXTRACTED: 8/31/98
ANALYZED: 8/31/98

<u>PARAMETER</u>	<u>Percent Recovery</u>	<u>Acceptable Range</u>
Benzene	92	76 - 127
Toluene	98	76 - 125
Ethylbenzene	89	76 - 127
Total Xylenes	98	76 - 127
MTBE	92	76 - 127

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Acceptable Range</u>
4-Bromofluorobenzene	101	86 - 115
Dibromofluoromethane	100	86 - 118
Toluene-d8	103	86 - 110

ND - Not Detected

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NEL LABORATORIES

CLIENT: El Paso Natural Gas Co.
PROJECT ID:
PROJECT #:

CLIENT ID: Matrix Spike Duplicate
DATE SAMPLED: NA
NEL SAMPLE ID: P9808083-10-MSD

TEST: Volatile Organic Compounds by EPA 8260B, December 1996
MATRIX: Aqueous

ANALYST: DJH
EXTRACTED: 8/31/98
ANALYZED: 8/31/98

<u>PARAMETER</u>	<u>Percent Recovery</u>	<u>Acceptable Range</u>	<u>RPD</u>
Benzene	101	76 - 127	9.1
Toluene	104	76 - 125	5.5
Ethylbenzene	92	76 - 127	3.8
Total Xylenes	103	76 - 127	4.7
MTBE	101	76 - 127	9.3

QUALITY CONTROL DATA:

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Acceptable Range</u>
4-Bromofluorobenzene	102	86 - 115
Dibromofluoromethane	100	86 - 118
Toluene-d8	103	86 - 110

ND - Not Detected

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Larissa Forseth
Environmental Engineer
Engineering & Compliance
Natural Gas & Gas Products
Conoco Inc.

Conoco Inc.
600 N. Dairy Ashford
P.O. Box 2197—HU3038
Houston, TX 77252
(281) 293-3149

Certified Mail No. P 365 861 341
Return Receipt Requested

November 2, 1998

Mr. Jack Ford
Environmental Bureau
Energy, Minerals and Natural Resource Department
Oil Conservation Division
P.O. Box 6429
Santa Fe, NM 87505

**RE: Annual Evaporation Pond Sampling Results
Wingate Fractionating Plant
McKinley County, New Mexico**

Dear Mr. Ford,

Attached are the results from the annual evaporation pond sampling event at Conoco NG&GP's Wingate facility. The conditions of the Discharge Plan require that Conoco sample the ponds annually by January 21st; however, the OCD approved an extension on July 30, 1998. The samples were collected from the west and east ponds on September 15, 1998, and analyzed by Inter-Mountain Laboratories in Farmington, New Mexico.

If you have any questions regarding this sampling event, please contact me at (281) 293-3149. Thank you.

Sincerely,

Larissa Forseth

Attachment

NOV - 6 1998
OIL CONSERVATION DIVISION

CASE NARRATIVE

Date: October 1, 1998

Client: Conoco, Inc.

Project: Wingate Plant Sample No. 0398W05376-77 # Samples: 2

Dear Client:

The sample or samples were received for analysis at Inter-Mountain Laboratories (IML), Farmington, New Mexico. Enclosed are the results of these analyses.

Analytical results were obtained by approved methods. Practical quantitation limits (PQL) were determined for each parameter for various matrices, and standard preparation dilutions. Quantitative results are reported on an "as received" basis for non-aqueous matrices.

If you have any question, please call me at our toll free number 1 (800) 828-1409.



John Green
Water Lab Supervisor
IML-Farmington, NM

Client: Conoco, Inc.
Project: Wingate Plant
Sample ID: West Pond
Lab ID: 0398W05376
Matrix: Water
Condition: Cool/Intact

Date Received: 09/15/98
Date Reported: 10/01/98
Date Sampled: 09/15/98
Time Sampled: 0933

Parameter	Analytical Result	Units	Units	PQL	Method	Analysis		
						Date	Time	Init.
GENERAL PARAMETERS								
PH	8.2	s.u.		0.1	EPA 150.1	09/15/98	1600	BJ
Electrical Conductivity	199,000	µmhos/cm		10	EPA 120.1	09/15/98	1600	BJ
Solids - Total Dissolved	228,000	mg/L		10	EPA 160.1	09/18/98	1600	BJ
Cyanide (Total) - RFA	<0.01	mg/L		0.01	EPA 335.3	09/23/98	1100	MG
Alkalinity (CaCO3)	437	mg/L		1	EPA 310.1	09/28/98	1000	BJ
Hardness (CaCO3)	7,350	mg/L		1	Calculation	10/01/98	1125	JG
MAJOR ANIONS								
Bicarbonate (HCO3)	533	mg/L	8.74	meq/L	1	EPA 310.1	09/28/98	1000 BJ
Carbonate (CO3)	<1	mg/L	<0.01	meq/L	1	EPA 310.1	09/28/98	1000 BJ
Hydroxide (OH)	<1	mg/L	<0.01	meq/L	1	EPA 310.1	09/28/98	1000 BJ
Bromide (Br)	<2	mg/L	<0.01	meq/L	2	EPA 300.0	09/30/98	0850 JG
Chloride	116,000	mg/L	3,270	meq/L	1	EPA 300.0	09/25/98	0910 JG
Fluoride	0.76	mg/L	0.04	meq/L	0.05	EPA 340.2	09/21/98	0905 BJ
Nitrogen - Nitrate	0.06	mg/L	<0.01	meq/L	0.05	EPA 353.2	09/16/98	1105 SH
Sulfate	14,000	mg/L	292	meq/L	5	EPA 300.0	09/25/98	0910 JG
MAJOR CATIONS								
Calcium	278	mg/L	13.9	meq/L	0.2	EPA 200.7	09/15/98	1253 AP
Magnesium	1,620	mg/L	133	meq/L	0.2	EPA 200.7	09/15/98	1253 AP
Potassium	1,010	mg/L	25.7	meq/L	0.2	EPA 200.7	09/15/98	1253 AP
Sodium	65,100	mg/L	2,830	meq/L	10	EPA 200.7	09/15/98	1253 AP
CATION/ANION BALANCE QC INFORMATION								
Anion Sum			3,570	meq/L	N/A	Calculation	10/01/98	1125 JG
Cation Sum			3,010	meq/L	N/A	Calculation	10/01/98	1125 JG
Cation/Anion Balance			8.54	%	N/A	Calculation	10/01/98	1125 JG

Reference: EPA - "Methods for Chemical Analysis of Water and Wastes (MCAWW)" - EPA/600/4-79-020 - March, 1983.
EPA - "Methods for the Determination of Metals in Environmental Samples" - Supplement I - 600/R-94-111 - May, 1994.

Reviewed By:


John Green, Water Lab Supervisor

Client: Conoco, Inc.
Project: Wingate Plant
Sample ID: West Pond
Lab ID: 0398W05376
Matrix: Water
Condition: Cool/Intact

Date Received: 09/15/98
Date Reported: 10/01/98
Date Sampled: 09/15/98
Time Sampled: 0933

Parameter	Analytical Result	Units	Units	PQL	Method	Analysis		
						Date	Time	Init.
TOTAL METALS								
Arsenic	<0.005	mg/L		0.005	SM 3114B	09/25/98	1420	SH
Barium	<0.2	mg/L		0.2	EPA 200.7	09/24/98	1650	AP
Cadmium	<0.001	mg/L		0.001	EPA 200.9	09/29/98	0805	SW
Chromium	<0.01	mg/L		0.01	EPA 200.7	09/22/98	1505	AP
Lead	<0.005	mg/L		0.005	EPA 200.9	09/23/98	0850	SW
Mercury	<0.001	mg/L		0.001	EPA 245.2	09/24/98	0940	SH
Selenium	<0.005	mg/L		0.005	SM 3114B	09/25/98	1540	SH
Silica	39	mg/L		1	EPA 200.7	10/01/98	1055	AP
Silver	<0.01	mg/L		0.01	EPA 200.7	09/24/98	1650	AP

Reference: SM - "Standard Methods for the Examination of Water and Wastewater", APHA-AWWA-WEF, 19th Edition, 1995.
EPA - "Methods for the Determination of Metals in Environmental Samples" - Supplement I - 600/R-94-111 - May, 1994.

Reviewed By:


John Green, Water Lab Supervisor

Client: Conoco, Inc.
Project: Wingate Plant
Sample ID: East Pond
Lab ID: 0398W05377
Matrix: Water
Condition: Cool/Intact

Date Received: 09/15/98
Date Reported: 10/01/98
Date Sampled: 09/15/98
Time Sampled: 0925

Parameter	Analytical Result	Units		Units	PQL	Method	Analysis		
							Date	Time	Init.
GENERAL PARAMETERS									
PH	9.3	s.u.			0.1	EPA 150.1	09/15/98	1600	BJ
Electrical Conductivity	42,500	µmhos/cm			10	EPA 120.1	09/15/98	1600	BJ
Solids - Total Dissolved	29,100	mg/L			10	EPA 160.1	09/18/98	1600	BJ
Cyanide (Total) - RFA	<0.01	mg/L			0.01	EPA 335.3	09/23/98	1100	MG
Alkalinity (CaCO3)	176	mg/L			1	EPA 310.1	09/28/98	1000	BJ
Hardness (CaCO3)	3,160	mg/L			1	Calculation	10/01/98	1125	JG
MAJOR ANIONS									
Bicarbonate (HCO3)	201	mg/L	3.29	meq/L	1	EPA 310.1	09/28/98	1000	BJ
Carbonate (CO3)	7	mg/L	0.23	meq/L	1	EPA 310.1	09/28/98	1000	BJ
Hydroxide (OH)	<1	mg/L	<0.01	meq/L	1	EPA 310.1	09/28/98	1000	BJ
Bromide (Br)	<2	mg/L	<0.01	meq/L	2	EPA 300.0	09/30/98	0850	JG
Chloride	12,400	mg/L	349	meq/L	1	EPA 300.0	09/25/98	0910	JG
Fluoride	0.76	mg/L	0.04	meq/L	0.05	EPA 340.2	09/21/98	0905	BJ
Nitrogen - Nitrate	<0.05	mg/L	<0.01	meq/L	0.05	EPA 353.2	09/16/98	1105	SH
Sulfate	3,980	mg/L	83.0	meq/L	5	EPA 300.0	09/25/98	0910	JG
MAJOR CATIONS									
Calcium	670	mg/L	33.3	meq/L	20	EPA 200.7	09/15/98	1253	AP
Magnesium	360	mg/L	29.9	meq/L	20	EPA 200.7	09/15/98	1253	AP
Potassium	80	mg/L	2.06	meq/L	20	EPA 200.7	09/15/98	1253	AP
Sodium	7,570	mg/L	329	meq/L	20	EPA 200.7	09/15/98	1253	AP
CATION/ANION BALANCE QC INFORMATION									
Anion Sum			435	meq/L	N/A	Calculation	10/01/98	1125	JG
Cation Sum			395	meq/L	N/A	Calculation	10/01/98	1125	JG
Cation/Anion Balance			4.88	%	N/A	Calculation	10/01/98	1125	JG

Reference: EPA - "Methods for Chemical Analysis of Water and Wastes (MCAWW)" - EPA/600/4-79-020 - March, 1983.
 EPA - "Methods for the Determination of Metals in Environmental Samples" - Supplement I - 600/R-94-111 - May, 1994.

Reviewed By:


 John Green, Water Lab Supervisor

Client: Conoco, Inc.
Project: Wingate Plant
Sample ID: East Pond
Lab ID: 0398W05377
Matrix: Water
Condition: Cool/Intact

Date Received: 09/15/98
Date Reported: 10/01/98
Date Sampled: 09/15/98
Time Sampled: 0925

Parameter	Analytical Result	Units	Units	PQL	Method	Analysis		
						Date	Time	Init.
TOTAL METALS								
Arsenic	<0.005	mg/L		0.005	SM 3114B	09/25/98	1420	SH
Barium	<0.1	mg/L		0.1	EPA 200.7	09/24/98	1650	AP
Cadmium	<0.001	mg/L		0.001	EPA 200.9	09/29/98	0805	SW
Chromium	<0.01	mg/L		0.01	EPA 200.7	09/22/98	1505	AP
Lead	<0.005	mg/L		0.005	EPA 200.9	09/23/98	0850	SW
Mercury	<0.001	mg/L		0.001	EPA 245.2	09/24/98	0940	SH
Selenium	<0.005	mg/L		0.005	SM 3114B	09/25/98	1540	SH
Silica	42	mg/L		1	EPA 200.7	10/01/98	1055	AP
Silver	<0.01	mg/L		0.01	EPA 200.7	09/24/98	1650	AP

Reference: SM - "Standard Methods for the Examination of Water and Wastewater", APHA-AWWA-WEF, 19th Edition, 1995.
EPA - "Methods for the Determination of Metals in Environmental Samples" - Supplement I - 600/R-94-111 - May, 1994.

Reviewed By: 

John Green, Water Lab Supervisor

Client: Conoco, Inc.
Project: SDWA
Sample ID: West Pond
Lab ID: 0298W05051
Matrix: Water
Condition: Cool/Intact

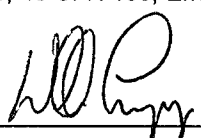
Date Reported: 09/29/98
Date Sampled: 09/15/98
Date Received: 09/16/98

Date Analyzed: 09/26/98

Parameter	Analytical Result	PQL	Units
Method 624 Page 1 of 2			
1,1,1,2-Tetrachloroethane	ND	5	µg/L
1,1,1-Trichloroethane	ND	5	µg/L
1,1,2,2-Tetrachloroethane	ND	5	µg/L
1,1,2-Trichloroethane	ND	5	µg/L
1,1-Dichloroethane	ND	5	µg/L
1,1-Dichloroethene	ND	5	µg/L
1,2-Dichlorobenzene	ND	5	µg/L
1,2-Dichloroethane	ND	5	µg/L
1,2-Dichloropropane	ND	5	µg/L
1,3-Dichlorobenzene	ND	5	µg/L
1,4-Dichlorobenzene	ND	5	µg/L
2-Chloroethylvinyl ether	ND	5	µg/L
Benzene	ND	5	µg/L
Bromochloromethane	ND	5	µg/L
Bromodichloromethane	ND	5	µg/L
Bromoform	ND	5	µg/L
Bromomethane	ND	5	µg/L
Carbon Tetrachloride	ND	5	µg/L
Chlorobenzene	ND	5	µg/L
Chloroethane	ND	5	µg/L
Chloroform	ND	5	µg/L
Chloromethane	ND	5	µg/L
cis-1,2-Dichloroethene	ND	5	µg/L
cis-1,3-Dichloropropene	ND	5	µg/L
Dibromochloromethane	ND	5	µg/L
Dichlorodifluoromethane	ND	5	µg/L
Ethylbenzene	ND	5	µg/L
Methylene chloride	ND	20	µg/L

ND - Parameter not detected at stated Practical Quantitation Limit.

Reference: Method 624 - Purgeables, Methods for Organic Chemical Analysis of Municipal and Industrial Discharges, Federal Register, 40 CFR 136, Environmental Protection Agency, July 1992.

Reviewed By: 

Client: Conoco, Inc.
Project: SDWA
Sample ID: West Pond
Lab ID: 0298W05051
Matrix: Water
Condition: Cool/Intact

Date Reported: 09/29/98
Date Sampled: 09/15/98
Date Received: 09/16/98

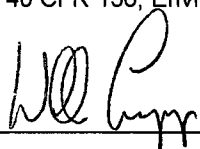
Date Analyzed: 09/26/98

Parameter	Analytical Result	PQL	Units
Method 624 Page 2 of 2			
Tetrachloroethene (PCE)	ND	5	µg/L
trans-1,2-Dichloroethene	ND	5	µg/L
trans-1,3-Dichloropropene	ND	5	µg/L
Trichloroethene (TCE)	ND	5	µg/L
Trichlorofluoromethane	ND	5	µg/L
Toluene	ND	5	µg/L
m,p-Xylene	ND	5	µg/L
o-Xylene	ND	5	µg/L
Vinyl Chloride	ND	5	µg/L

Quality Control - Surrogate Recovery	%	QC Limits
4-Bromofluorobenzene(SUR-624)	75	86 - 115
Dichloroethane-d4 (SUR-624)	99	80 - 120
Toluene-d8(SUR-624)	98	88 - 110

ND - Parameter not detected at stated Practical Quantitation Limit.

Reference: Method 624 - Purgeables, Methods for Organic Chemical Analysis of Municipal and Industrial Discharges, Federal Register, 40 CFR 136, Environmental Protection Agency, July 1992.

Reviewed By: 

Client: Conoco, Inc.
Project: SDWA
Sample ID: West Pond
Lab ID: 0298W05051
Matrix: Water
Condition: Cool/Intact

Date Reported: 09/24/98
Date Sampled: 09/15/98
Date Received: 09/16/98
Date Extracted: 09/18/98
Date Analyzed: 09/21/98

Parameter	Analytical Result	PQL	Units
Method 625 Page 1 of 2			
1,2,4-Trichlorobenzene	ND	20	µg/L
1,2-Dichlorobenzene	ND	20	µg/L
1,3-Dichlorobenzene	ND	20	µg/L
1,4-Dichlorobenzene	ND	20	µg/L
2,4,6-Trichlorophenol	ND	20	µg/L
2,4-Dichlorophenol	ND	20	µg/L
2,4-Dimethylphenol	ND	20	µg/L
2,4-Dinitrophenol	ND	100	µg/L
2,4-Dinitrotoluene	ND	20	µg/L
2,6-Dinitrotoluene	ND	20	µg/L
2-Chloronaphthalene	ND	20	µg/L
2-Chlorophenol	ND	20	µg/L
2-Nitrophenol	ND	20	µg/L
3,3'-Dichlorobenzidine	ND	40	µg/L
4,6-Dinitro-2-methylphenol	ND	100	µg/L
4-Bromophenyl phenyl ether	ND	20	µg/L
4-Chloro-3-methylphenol	ND	40	µg/L
4-Chlorophenyl phenyl ether	ND	20	µg/L
4-Nitrophenol	ND	40	µg/L
Acenaphthene	ND	20	µg/L
Acenaphthylene	ND	20	µg/L
Anthracene	ND	20	µg/L
Benzidine	ND	20	µg/L
Benzo(a)anthracene	ND	20	µg/L
Benzo(a)pyrene	ND	20	µg/L
Benzo(b)fluoranthene	ND	20	µg/L
Benzo(g,h,i)perylene	ND	20	µg/L
Benzo(k)fluoranthene	ND	20	µg/L
bis(2-Chloroethoxy)methane	ND	20	µg/L
bis(2-Chloroethyl)ether	ND	20	µg/L
bis(2-Chloroisopropyl)ether	ND	20	µg/L
bis(2-Ethylhexyl)phthalate	ND	20	µg/L
Butylbenzylphthalate	ND	20	µg/L
Chrysene	ND	20	µg/L

ND - Parameter not detected at stated Practical Quantitation Limit.

Reference: Method 625 - Base/Neutral and Acids, Methods for Organic Chemical Analysis of municipal and industrial Discharges, Federal Register, 40 CFR 136, Environmental Protection Agency, July 1992.

Reviewed By: JW

Client: Conoco, Inc.
Project: SDWA
Sample ID: West Pond
Lab ID: 0298W05051
Matrix: Water
Condition: Cool/Intact

Date Reported: 09/24/98
Date Sampled: 09/15/98
Date Received: 09/16/98
Date Extracted: 09/18/98
Date Analyzed: 09/21/98

Parameter	Analytical Result	PQL	Units
METHOD 625 Page 2 of 2			
Di-n-Butylphthalate	ND	20	µg/L
Di-n-Octylphthalate	ND	20	µg/L
Dibenz(a,h)anthracene	ND	20	µg/L
Diethylphthalate	ND	40	µg/L
Dimethylphthalate	ND	80	µg/L
Fluoranthene	ND	20	µg/L
Fluorene	ND	20	µg/L
Hexachlorobenzene	ND	20	µg/L
Hexachlorobutadiene	ND	20	µg/L
Hexachlorocyclopentadiene	ND	20	µg/L
Hexachloroethane	ND	20	µg/L
Indeno(1,2,3-cd)pyrene	ND	20	µg/L
Isophorone	ND	20	µg/L
N-Nitroso-di-n-propylamine	ND	20	µg/L
N-Nitroso-n-butylamine	ND	20	µg/L
N-Nitrosodimethylamine	ND	20	µg/L
N-Nitrosodiphenylamine/Diphenylamine **	ND	20	µg/L
Naphthalene	ND	20	µg/L
Nitrobenzene	ND	20	µg/L
Pentachlorophenol	ND	100	µg/L
Phenanthrene	ND	20	µg/L
Phenol	ND	20	µg/L
Pyrene	ND	20	µg/L

Quality Control - Surrogate Recovery	%	QC Limits
2-Fluorophenol(SUR-625)	48	21 - 110
Phenol-d6(SUR-625)	57	10 - 94
Nitrobenzene-d5(SUR-625)	42	35 - 114
2-Fluorobiphenyl(SUR-625)	43	43 - 116
2,4,6-Tribromophenol(SUR-625)	51	10 - 123
Terphenyl-d14(SUR-625)	55	33 - 141

ND - Parameter not detected at stated Practical Quantitation Limit.

Reference: Method 625 - Base/Neutral and Acids, Methods for Organic Chemical Analysis of municipal and industrial Discharges, Federal Register, 40 CFR 136, Environmental Protection Agency, July 1992.

Reviewed By: JW

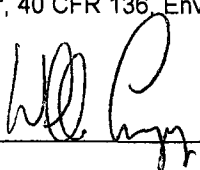
Client: Conoco, Inc.
Project: SDWA
Sample ID: East Pond
Lab ID: 0298W05052
Matrix: Water
Condition: Cool/Intact

Date Reported: 09/29/98
Date Sampled: 09/15/98
Date Received: 09/16/98
Date Analyzed: 09/26/98

Parameter	Analytical Result	PQL	Units
Method 624 Page 1 of 2			
1,1,1,2-Tetrachloroethane	ND	5	µg/L
1,1,1-Trichloroethane	ND	5	µg/L
1,1,2,2-Tetrachloroethane	ND	5	µg/L
1,1,2-Trichloroethane	ND	5	µg/L
1,1-Dichloroethane	ND	5	µg/L
1,1-Dichloroethene	ND	5	µg/L
1,2-Dichlorobenzene	ND	5	µg/L
1,2-Dichloroethane	ND	5	µg/L
1,2-Dichloropropane	ND	5	µg/L
1,3-Dichlorobenzene	ND	5	µg/L
1,4-Dichlorobenzene	ND	5	µg/L
2-Chloroethylvinyl ether	ND	5	µg/L
Benzene	ND	5	µg/L
Bromochloromethane	ND	5	µg/L
Bromodichloromethane	ND	5	µg/L
Bromoform	ND	5	µg/L
Bromomethane	ND	5	µg/L
Carbon Tetrachloride	ND	5	µg/L
Chlorobenzene	ND	5	µg/L
Chloroethane	ND	5	µg/L
Chloroform	ND	5	µg/L
Chloromethane	ND	5	µg/L
cis-1,2-Dichloroethene	ND	5	µg/L
cis-1,3-Dichloropropene	ND	5	µg/L
Dibromochloromethane	ND	5	µg/L
Dichlorodifluoromethane	ND	5	µg/L
Ethylbenzene	ND	5	µg/L
Methylene chloride	ND	20	µg/L

ND - Parameter not detected at stated Practical Quantitation Limit.

Reference: Method 624 - Purgeables, Methods for Organic Chemical Analysis of Municipal and Industrial Discharges, Federal Register, 40 CFR 136, Environmental Protection Agency, July 1992.

Reviewed By: 

Client: Conoco, Inc.
Project: SDWA
Sample ID: East Pond
Lab ID: 0298W05052
Matrix: Water
Condition: Cool/Intact

Date Reported: 09/29/98
Date Sampled: 09/15/98
Date Received: 09/16/98

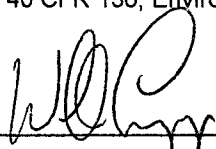
Date Analyzed: 09/26/98

Parameter	Analytical Result	PQL	Units
Method 624 Page 2 of 2			
Tetrachloroethene (PCE)	ND	5	µg/L
trans-1,2-Dichloroethene	ND	5	µg/L
trans-1,3-Dichloropropene	ND	5	µg/L
Trichloroethene (TCE)	ND	5	µg/L
Trichlorofluoromethane	ND	5	µg/L
Toluene	ND	5	µg/L
m,p-Xylene	ND	5	µg/L
o-Xylene	ND	5	µg/L
Vinyl Chloride	ND	5	µg/L

Quality Control - Surrogate Recovery	%	QC Limits
4-Bromofluorobenzene(SUR-624)	92	86 - 115
Dichloroethane-d4 (SUR-624)	97	80 - 120
Toluene-d8(SUR-624)	99	88 - 110

ND - Parameter not detected at stated Practical Quantitation Limit.

Reference: Method 624 - Purgeables, Methods for Organic Chemical Analysis of Municipal and Industrial Discharges, Federal Register, 40 CFR 136, Environmental Protection Agency, July 1992.

Reviewed By: 

Client: Conoco, Inc.
Project: SDWA
Sample ID: East Pond
Lab ID: 0298W05052
Matrix: Water
Condition: Cool/Intact

Date Reported: 09/25/98
Date Sampled: 09/15/98
Date Received: 09/16/98
Date Extracted: 09/18/98
Date Analyzed: 09/21/98

Parameter	Analytical Result	PQL	Units
Method 625 Page 1 of 2			
1,2,4-Trichlorobenzene	ND	20	µg/L
1,2-Dichlorobenzene	ND	20	µg/L
1,3-Dichlorobenzene	ND	20	µg/L
1,4-Dichlorobenzene	ND	20	µg/L
2,4,6-Trichlorophenol	ND	20	µg/L
2,4-Dichlorophenol	ND	20	µg/L
2,4-Dimethylphenol	ND	20	µg/L
2,4-Dinitrophenol	ND	100	µg/L
2,4-Dinitrotoluene	ND	20	µg/L
2,6-Dinitrotoluene	ND	20	µg/L
2-Chloronaphthalene	ND	20	µg/L
2-Chlorophenol	ND	20	µg/L
2-Nitrophenol	ND	20	µg/L
3,3'-Dichlorobenzidine	ND	40	µg/L
4,6-Dinitro-2-methylphenol	ND	100	µg/L
4-Bromophenyl phenyl ether	ND	20	µg/L
4-Chloro-3-methylphenol	ND	40	µg/L
4-Chlorophenyl phenyl ether	ND	20	µg/L
4-Nitrophenol	ND	40	µg/L
Acenaphthene	ND	20	µg/L
Acenaphthylene	ND	20	µg/L
Anthracene	ND	20	µg/L
Benzidine	ND	20	µg/L
Benzo(a)anthracene	ND	20	µg/L
Benzo(a)pyrene	ND	20	µg/L
Benzo(b)fluoranthene	ND	20	µg/L
Benzo(g,h,i)perylene	ND	20	µg/L
Benzo(k)fluoranthene	ND	20	µg/L
bis(2-Chloroethoxy)methane	ND	20	µg/L
bis(2-Chloroethyl)ether	ND	20	µg/L
bis(2-Chloroisopropyl)ether	ND	20	µg/L
bis(2-Ethylhexyl)phthalate	ND	20	µg/L
Butylbenzylphthalate	ND	20	µg/L
Chrysene	ND	20	µg/L

ND - Parameter not detected at stated Practical Quantitation Limit.

Reference: Method 625 - Base/Neutral and Acids, Methods for Organic Chemical Analysis of municipal and industrial Discharges, Federal Register, 40 CFR 136, Environmental Protection Agency, July 1992.

Reviewed By: JW

Client: Conoco, Inc.
Project: SDWA
Sample ID: East Pond
Lab ID: 0298W05052
Matrix: Water
Condition: Cool/Intact

Date Reported: 09/25/98
Date Sampled: 09/15/98
Date Received: 09/16/98
Date Extracted: 09/18/98
Date Analyzed: 09/21/98

Parameter	Analytical Result	PQL	Units
METHOD 625 Page 2 of 2			
Di-n-Butylphthalate	ND	20	µg/L
Di-n-Octylphthalate	ND	20	µg/L
Dibenz(a,h)anthracene	ND	20	µg/L
Diethylphthalate	ND	40	µg/L
Dimethylphthalate	ND	80	µg/L
Fluoranthene	ND	20	µg/L
Fluorene	ND	20	µg/L
Hexachlorobenzene	ND	20	µg/L
Hexachlorobutadiene	ND	20	µg/L
Hexachlorocyclopentadiene	ND	20	µg/L
Hexachloroethane	ND	20	µg/L
Indeno(1,2,3-cd)pyrene	ND	20	µg/L
Isophorone	ND	20	µg/L
N-Nitroso-di-n-propylamine	ND	20	µg/L
N-Nitroso-n-butylamine	ND	20	µg/L
N-Nitrosodimethylamine	ND	20	µg/L
N-Nitrosodiphenylamine/Diphenylamine **	ND	20	µg/L
Naphthalene	ND	20	µg/L
Nitrobenzene	ND	20	µg/L
Pentachlorophenol	ND	20	µg/L
Phenanthrene	ND	20	µg/L
Phenol	ND	20	µg/L
Pyrene	ND	20	µg/L

Quality Control - Surrogate Recovery	%	QC Limits
2-Fluorophenol(SUR-625)	51	21 - 110
Phenol-d6(SUR-625)	46	10 - 94
Nitrobenzene-d5(SUR-625)	57	35 - 114
2-Fluorobiphenyl(SUR-625)	52	43 - 116
2,4,6-Tribromophenol(SUR-625)	56	10 - 123
Terphenyl-d14(SUR-625)	75	33 - 141

ND - Parameter not detected at stated Practical Quantitation Limit.

Reference: Method 625 - Base/Neutral and Acids, Methods for Organic Chemical Analysis of municipal and industrial Discharges, Federal Register, 40 CFR 136, Environmental Protection Agency, July 1992.

Reviewed By: JW

QUALITY ASSURANCE/QUALITY CONTROL

QUALITY ASSURANCE/QUALITY CONTROL

METHOD 624

METHOD BLANK

File Name MB0268
Date Analyzed 09/25/98

PARAMETER	Analytical Result	PQL	Units
1,1,1-Trichloroethane	ND	5	ug/l
1,1,2,2-Tetrachloroethane	ND	5	ug/l
1,1,2-Trichloroethane	ND	5	ug/l
1,1-Dichloroethane	ND	5	ug/l
1,1-Dichloroethene	ND	5	ug/l
1,2-Dichlorobenzene	ND	5	ug/l
1,2-Dichloroethane	ND	5	ug/l
1,2-Dichloropropane	ND	5	ug/l
1,3-Dichlorobenzene	ND	5	ug/l
1,4-Dichlorobenzene	ND	5	ug/l
2-Chloroethylvinyl ether	ND	5	ug/l
Benzene	ND	5	ug/l
Bromochloromethane	ND	5	ug/l
Bromodichloromethane	ND	5	ug/l
Bromoform	ND	5	ug/l
Bromomethane	ND	5	ug/l
Carbon Tetrachloride	ND	5	ug/l
Chlorobenzene	ND	5	ug/l
Chloroethane	ND	5	ug/l
Chloroform	ND	5	ug/l
Chloromethane	ND	5	ug/l
Dibromochloromethane	ND	5	ug/l
Ethyl Benzene	ND	5	ug/l
Methylene Chloride	ND	20	ug/l
Naphthalene	ND	5	ug/l
Styrene	ND	5	ug/l
Tetrachloroethene (PCE)	ND	5	ug/l
Toluene	ND	5	ug/l
Trichloroethene (TCE)	ND	5	ug/l
Trichlorofluoromethane	ND	5	ug/l
Vinyl Chloride	ND	5	ug/l
cis-1,2-Dichloroethene	ND	5	ug/l
cis-1,2-Dichloropropene	ND	5	ug/l
m,p-Xylene	ND	5	ug/l
o-Xylene	ND	5	ug/l
trans-1,2-Dichloroethene	ND	5	ug/l
trans-1,3-Dichloropropene	ND	5	ug/l

Quality Control - Surrogate Recovery	%	QC Limits
Dichloroethane-d4	86	80-120
Toluene-d6	103	88-110
Bromofluorobenzene	93	86-115

ND = Parameter not detected at stated Practical Quantitation Limit

Reference: 40 CFR PART 136 APPENDIX A

Reviewed By: 

**SEMIVOLATILE ANALYSIS
QUALITY ASSURANCE/QUALITY CONTROL REPORT
WATER BLANK SPIKE/BLANK SPIKE DUPLICATE RECOVERY****Date Extracted** 09/03/98**Date Analyzed** 09/15/98

Compound	Conc Spike	Sample Result	Conc. MS	% Rec	Conc. MSD	% Rec	RPD	QC Limits	
								RPD	Recovery
Pentachlorophenol	200	0	126	63	141	71	11	50	9-103
Phenol	200	0	96	48	83	42	15	42	12-89
2-Chlorophenol	200	0	132	66	130	65	2	40	27-123
4-Chloro-3-Methylphenol	200	0	132	66	143	72	8	42	23-97
4-Nitrophenol	200	0	77	39	82	41	6	50	10-80
1,2,4-Trichlorobenzene	100	0	69	69	65	65	6	28	39-98
Acenaphthene	100	0	71	71	78	78	9	31	46-118
2,4-Dinitrotoluene	100	0	62	62	73	73	16	38	24-96
Di-n-Butylphthalate	100	0		0		0	#DIV/0!	40	11-117
Pyrene	100	0	105	105	119	119	13	31	26-127
N-Nitroso-Di-n-Propylamine	100	0	80	80	83	83	4	38	41-116
1,4-Dichlorobenzene	100	0	64	64	62	62	3	28	36-97



CHAIN OF CUSTODY RECORD

Client/Project Name		Project Location		ANALYSES / PARAMETERS					
Sampler: (Signature)		Chain of Custody Tape No.		No. of Containers		Remarks			
Sample No./ Identification	Date	Time	Lab Number	Matrix	No. of Containers				
West Pond	9-15-98	0933		H ₂ O	8	1			
East Pond	+	0925		L	8	1			
						Method 624			
						Protein contamination			
						Sample taken			
						from 625 to			
						until 624-01			
						pf			
						cool-on ice			
						intact, hand			
						del.			
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time		
Don Lott		9-15-98	12:30						
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time		
Relinquished by: (Signature)		Date	Time	Received by laboratory: (Signature)		Date	Time		
				Chris Rayner		9-15-98	1230		
Inter-Mountain Laboratories, Inc.									54199
☐ 1633 Terra Avenue Sheridan, Wyoming 82801 Telephone (307) 672-8945	☐ 1701 Phillips Circle Gillette, Wyoming 82718 Telephone (307) 682-8945	☐ 2506 West Main Street Farmington, NM 87401 Telephone (505) 326-4737	☐ 1160 Research Drive Bozeman, Montana 59718 Telephone (406) 586-8450	☐ 11183 State Hwy. 30 College Station, TX 77845 Telephone (409) 776-8945					



Industrial Services Group
Central Region

November 27, 2000

Project 62800022

Mr. Louis Ferrari
Conoco, Inc.
General Delivery
Rehoboth, NM 87332

**RE: Report for Groundwater Monitoring and Sampling at Conoco Inc.'s
Wingate Gas Plant, Gallup, New Mexico**

Dear Mr. Ferrari:

On October 13, 2000, PSC collected groundwater samples from monitoring wells located at Conoco, Inc.'s (Conoco) Wingate Natural Gas Fractionation Plant (Wingate), located near Gallup, New Mexico. A site map showing the locations of the monitoring wells is presented in Figure 1. Conoco required groundwater sample collection at four groundwater monitoring wells located in and around Wingate. Philip performed the following scope of work for this project:

- Collected depth-to-groundwater and total well-depth measurements.
- Purged a minimum of three well-casing volumes at each well, and measured pH, conductivity, and temperature, until all three parameters stabilized.
- Collected groundwater samples following purging.
- Submitted samples for laboratory analysis for the parameters presented in Table 1.

METHODOLOGY

Prior to purging each monitoring well, static groundwater levels were measured using an electronic water level indicator. A total well-depth measurement was also taken at each monitoring well, which was used to calculate the volume of water in each well. Monitoring well WMH-4 was purged using a designated disposable bailer with an approximate volume of one liter. Monitor wells MW-1, MW-2, and MW-3 were purged using a Grundfos® submersible pump due to the depth of the wells. The pump was decontaminated prior to use at each well by pumping an Alconox®-soap and potable-water solution through the pump, followed by a distilled-water rinse.

Combining the Strengths of Philip Services Corp., Allwaste and Serv-Tech



Field water quality measurements for pH, conductivity, temperature and visual clarity were recorded periodically during the purging of each well to ensure that the water sampled was representative of ambient groundwater in the aquifer. Purging continued until a minimum of three well casing volumes were removed and all water quality parameters were stabilized. All field measurements were documented on Well Development and Purging Forms, which are presented in Appendix A.

Following well purging, groundwater samples were collected from each well using high-density polyethylene disposable bailers. The groundwater samples were collected in the upper 3 to 5 feet of the aquifer. One duplicate sample was collected from WMH-4 (identified as MW-54) for laboratory quality assurance. In addition to the groundwater samples, one equipment blank (identified as EB-1) was collected from a disposable bailer to check the sampling equipment. One volatile organic analysis trip blank accompanied the groundwater samples to the laboratory.

All samples were labeled with a unique sample number (well number), the date and time of collection, sample collector, analysis required, and preservatives, if any. The samples were packed on ice and shipped overnight via Greyhound Lines to Pinnacle Laboratories in Albuquerque, NM, following strict chain-of-custody procedures. Laboratory reports and chain-of-custody forms are presented in Appendix B.

RESULTS

Analytical results for all sampled monitor wells indicate benzene levels below the New Mexico Water Quality Control Commission (NMWQCC) standard of 10 micrograms per liter (ug/L) and chloride levels below the NMWQCC standard of 250 mg/L. Monitoring wells WMH-4 and MW-2 measured concentrations of total dissolved solids at 1,400 mg/L and 1,020 mg/l respectively, which exceeds the NMWQCC'S standard of 1,000 mg/L. The concentrations of TDS were below the NMWQCC standard of 1,000 mg/L in the other wells. Analytical results from this sampling event are presented in Table 1; the Laboratory Report is presented in Appendix B. Groundwater elevation data for each monitoring well is presented in Table 2; a Potentiometric Surface Map is presented in Figure 1.

Mr. Louis Ferrari
November 27, 2000
Page 3

PSC appreciates the opportunity to provide professional services to Conoco. We look forward to working with you in the future. If you have any questions or require further information, please contact me at (800) 326-2262.

Respectfully submitted,

PSC

A handwritten signature in black ink, appearing to read "Robert Thompson", written over the printed name.

Robert Thompson
Project Manager

Attachments -
As stated

J:\628\62800022\Report.doc

TABLES

Conoco, Inc.

Gallup, New Mexico

TABLE 1

Wingate

2000 Groundwater Analytical Results

<i>ANALYTES</i>	<i>MW-1</i>	<i>MW-2</i>	<i>MW-3</i>	<i>WMH-4</i>	<i>WMH-54</i>	<i>EB-1</i>	<i>Trip Blank</i>	<i>NMWQCC Standard</i>
Benzene (ug/L)	ND	ND	ND	ND	ND	ND	ND	10
Toluene (ug/L)	3.9	1.3	3.4	ND	ND	ND	ND	750
Ethylbenzene (ug/L)	0.6	ND	0.5	ND	ND	ND	ND	750
Total Xylenes (ug/L)	5.4	1.6	4.5	ND	ND	ND	ND	620
TPH - GRO (ug/L)	52	ND	ND	260	230	ND	ND	NA
Chloride (mg/L)	2.50	ND	1.75	4.00	4.00	ND	-	250
TDS - Measured (mg/L)	724	1,020	497	1,400	1,460	15	-	1000

ND - Analyte not detected at detection limit
TPH Analyzed by Method 8015B Gasoline Range Organics
BTEX Analyzed by Method 8021
EB - Equipment Blank
WMH-54 - Duplicate of WMH-4
NMWQCC - New Mexico Water Quality Control Commision
Samples collected on October 13, 2000

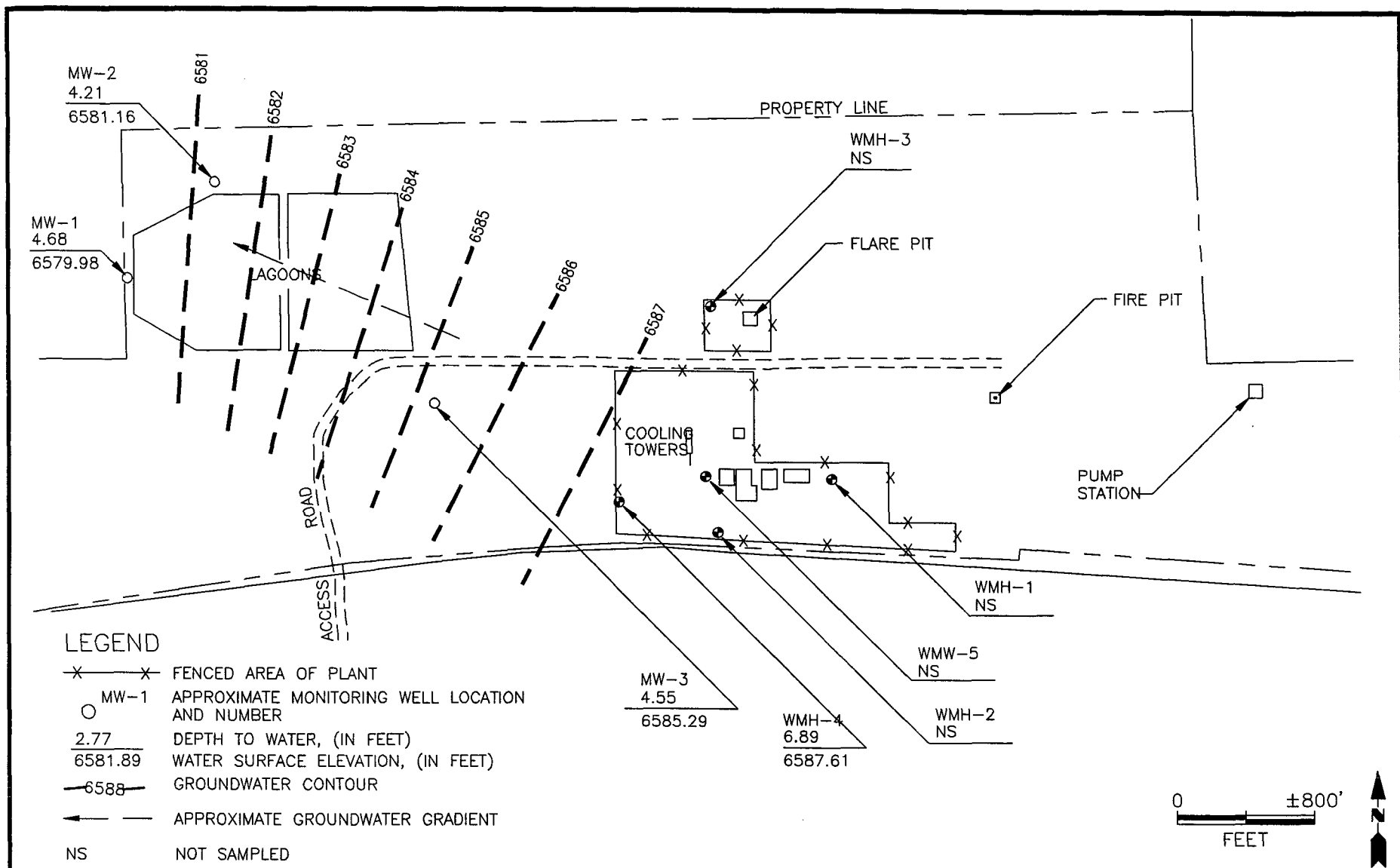
Conoco, Inc.
Gallup, New Mexico

TABLE 2
October 2000

Wingate
Groundwater Elevation Data

<i>Well Number</i>	<i>Top of Riser Elevation</i>	<i>Depth to Groundwater</i>	<i>Groundwater Elevation</i>
WMH-4	6,594.50	6.89	6,587.61
MW-3	6,589.84	4.55	6,585.29
MW-2	6,585.37	4.21	6,581.16
MW-1	6,584.66	4.68	6,579.98
NOTE Data given is in feet Elevation Data Supplied by MOI (Burlington Resources) NA - Not Available Depth to Water Data Collected on October 13, 2000			

FIGURES



COL 628\00022A-001



TITLE:

WINGATE GROUNDWATER
POTENTIOMETRIC SURFACE MAP
OCTOBER, 2000

DWN:	DES.:	PROJECT NO.: 62800022
TMM	RT	
CHKD:	APPD:	CONOCO-WINGATE WINGATE, NM
RT		
DATE:	REV.:	FIGURE 1
11/22/00	0	

APPENDIX A

Well Number MW 01☐ Development
☒ Purging

WELL DEVELOPMENT AND PURGING DATA

Serial No. WDPD-Page 1 of 1Project Name CONOCO wingateProject Manager R ThompsonProject No. 62800022Client Company CONOCOPhase/Task No. 0301Site Name CONOCO wingateSite Address Gallup NM

Development Criteria

☒ 3 to 5 Casing Volumes of Water Removal☒ Stabilization of Indicator Parameters☐ Other _____

Water Volume Calculation

Initial Depth of Well (feet) 95.20Initial Depth to Water (feet) 4.68Height of Water Column in Well (feet) 40.52

Diameter (inches): Well _____ Gravel Pack _____

Instruments

☒ pH Meter☐ DO Monitor☒ Conductivity Meter☒ Temperature Meter☐ Other _____

Serial No. (if applicable)

HydacHydacHydac

Methods of Development

Pump

Boiler

☐ Centrifugal☐ Bottom Valve☒ Submersible☐ Double Check Valve☐ Peristaltic☐ Stainless-steel Kemmerer☐ Other _____

Item	Water Volume In Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing	<u>40.52</u>	<u>2.45 x 3</u>	<u>79.35</u>
Gravel Pack			
Drilling Fluids			
Total			<u>79.35</u>

Water Disposal

Lagoon 5

Water Removal Data

Date	Time	Development Method		Removal Rate (gal/min)	Intake Depth (feet)	Ending Water Depth (feet)	Water Volume Removed (gallons)		Product Volume Removed (gallons)		Temperature (°C)	pH	Conductivity (mmhos/cm)	Dissolved Oxygen (mg/l)	Comments
		Pump	Boiler				Increment	Cumulative	Increment	Cumulative					
10-13-00	1242	x		3.33	44.20		10	10			16.1	7.96	2150		Clear Bottom egg odor
	1245			3.33	44.20		10	20			15.7	7.87	1980		Clear Bottom egg odor
	1248			3.33	44.20		10	30			15.6	7.82	1890		" "
	1251			3.33	44.20		10	40			15.5	7.78	1820		" "
	1254			3.33	44.20		10	50			15.0	7.75	1740		" "
	1257			3.33	44.20		10	60			15.1	7.73	1710		" "
	1300			3.33	44.20		10	70			15.0	7.71	1680		" "
	1303			3.33	44.20		10	80			15.2	7.71	1790		" "
	1306			3.33	44.20		10	90			15.0	7.72	1790		no change

Circle the date and time that the development criteria are met.

Comments Sampled 1309Developer's Signature(s) Eric A. MayDate 10-13-00Reviewer RTDate 11/22/00

Well Number MW-02

Serial No. WDPD- _____

☐ Development
☒ Purging

WELL DEVELOPMENT AND PURGING DATA

Page 1 of 1Project Name Conoco wingateProject Manager R ThompsonProject No. 629 00022Client Company ConocoPhase/Task No. 0301Site Name Conoco wingateSite Address Gallup N.M.

Development Criteria

☒ 3 to 5 Casing Volumes of Water Removal☒ Stabilization of Indicator Parameters☐ Other _____

Water Volume Calculation

Initial Depth of Well (feet) 46.50Initial Depth to Water (feet) 4.21Height of Water Column in Well (feet) 42.29

Diameter (inches): Well _____ Gravel Pack _____

Item	Water Volume In Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing	<u>42.29</u>	<u>27.60</u>	<u>82.8</u>
Gravel Pack			
Drilling Fluids			
Total			<u>82.8</u>

Instruments

Serial No. (if applicable)

☒ pH MeterHydac☐ DO Monitor☒ Conductivity MeterHydac☒ Temperature MeterHydac☐ Other _____

Water Disposal

Lagoon 5

Methods of Development

Pump

Bailer

☐ Centrifugal☐ Bottom Valve☒ Submersible☐ Double Check Valve☐ Peristaltic☐ Stainless-steel Kemmerer☐ Other _____

Water Removal Data

Date	Time	Development Method		Removal Rate (gal/min)	Intake Depth (feet)	Ending Water Depth (feet)	Water Volume Removed (gallons)		Product Volume Removed (gallons)		Temperature (°C)	pH	Conductivity (mmhos/cm)	Dissolved Oxygen (mg/l)	Comments
		Pump	Bailer				Increment	Cumulative	Increment	Cumulative					
10-13-00	1136	X		3.33	45.50		10	10			17.8	2.84	2210		Clear
	1140	X		3.33	45.50		10	20			15.5	7.72	2170		Clear
	1143	X		3.33	45.50		10	30			14.6	7.86	2190		Clear
	1146	X		3.33	45.50		10	40			14.3	7.64	2210		Clear
	1149	X		3.33	45.50		10	50			14.1	7.56	2260		Clear
	1152	X		3.33	45.50		10	60			14.0	7.51	2340		Clear
	1155	X		3.33	45.50		10	70			13.7	7.47	2400		Clear
	1158	X		3.33	45.50		10	80			13.5	7.45	2460		Clear
	1201	X		3.33	45.50		10	90			13.4	7.44	2450		Clear

Circle the date and time that the development criteria are met.

Comments Sampled 1205Developer's Signature(s) Chris A. MayDate 10-13-00Reviewer RTDate 11/22/00

Well Number MW-03☐ Development
☒ Purging

WELL DEVELOPMENT AND PURGING DATA

Serial No. WDPD-Page 1 of 1Project Name Conoco wingateProject Manager R Thompson

Project No. _____

Client Company CONOCO

Phase/Task No. _____

Site Name CONOCO wingateSite Address Gallup N.M.

Development Criteria

☒ 3 to 5 Casing Volumes of Water Removal☒ Stabilization of Indicator Parameters☐ Other _____

Water Volume Calculation

Initial Depth of Well (feet) 46.42Initial Depth to Water (feet) 4.55Height of Water Column in Well (feet) 41.87

Diameter (inches): Well _____ Gravel Pack _____

Item	Water Volume In Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing	41.87	27.33 x 3	81.99
Gravel Pack			
Drilling Fluids			
Total			81.99

Instruments

☒ pH Meter☐ DO Monitor☒ Conductivity Meter☒ Temperature Meter☐ Other _____

Serial No. (if applicable)

HydacHydacHydac

Methods of Development

Pump

Bailer

☐ Centrifugal☐ Bottom Valve☒ Submersible☐ Double Check Valve☐ Peristaltic☐ Stainless-steel Kemmerer☐ Other _____

Water Disposal

in conoco pond

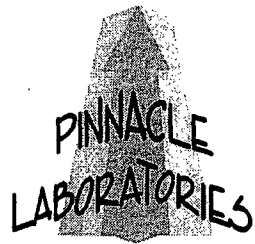
Water Removal Data

Date	Time	Development Method		Removal Rate (gal/min)	Intake Depth (feet)	Ending Water Depth (feet)	Water Volume Removed (gallons)		Product Volume Removed (gallons)		Temperature (°C)	pH	Conductivity (mmhos/cm)	Dissolved Oxygen (mg/L)	Comments
		Pump	Bailer				Increment	Cumulative	Increment	Cumulative					
10-13-00	1403	X		3.33	45.42		10	10			16.4	7.61	1250		Clear
	1406	X		3.33	45.42		10	20			14.7	7.31	1230		Clear
	1409	X		3.33	45.42		10	30			13.7	7.24	1220		Clear
	1412	X		3.33	45.42		10	40			12.9	7.20	1220		Clear
	1415	X		3.33	45.42		10	50			12.9	7.18	1240		Clear
	1418	X		3.33	45.42		10	60			13.0	7.17	1250		Clear
	1421	X		3.33	45.42		10	70			13.1	7.16	1260		Clear
	1424	X		3.33	45.42		10	80			13.1	7.16	1260		Clear
	1427	X		3.33	45.42		10	90			13.1	7.17	1240		Clear

Circle the date and time that the development criteria are met.

Comments SAMPLED 1430Developer's Signature(s) Don A. MayDate 10-13-00Reviewer RT Date 11/22/00

APPENDIX B



2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

NOV - 6 2000

Pinnacle Lab ID number **010057**
November 03, 2000

PHILIP ENVIRONMENTAL
4000 MONROE ROAD
FARMINGTON, NM 87401

Project Name CONOCO WINGATE
Project Number 62800022

Attention: ROBERT THOMPSON

On 10/16/00 Pinnacle Laboratories, Inc., (ADHS License No. AZ0592 pending), received a request to analyze **aqueous** samples. The samples were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

Chloride and TDS analyses were performed by Environmental Services Laboratory, Inc., Portland, OR.

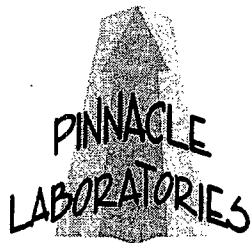
All other analyses were performed by Pinnacle Laboratories, Inc., Albuquerque, NM.

If you have any questions or comments, please do not hesitate to contact us at (505)344-3777.

H. Mitchell Rubenstein, Ph. D.
General Manager

MR: jt

Enclosure



2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

CLIENT	: PHILIP ENVIRONMENTAL	PINNACLE ID	: 010057
PROJECT #	: 62800022	DATE RECEIVED	: 10/16/00
PROJECT NAME	: CONOCO WINGATE	REPORT DATE	: 11/03/00

PIN			DATE
ID. #	CLIENT DESCRIPTION	MATRIX	COLLECTED
01	CONOCO WINGATE MW03	AQUEOUS	10/13/00
02	CONOCO WINGATE MW02	AQUEOUS	10/13/00
03	CONOCO WINGATE MW01	AQUEOUS	10/13/00
04	CONOCO WINGATE MW04	AQUEOUS	10/13/00
05	CONOCO WINGATE EB1	AQUEOUS	10/13/00
06	CONOCO WINGATE MW54	AQUEOUS	10/13/00



2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8021 MODIFIED / 8015 GRO
CLIENT : PHILIP ENVIRONMENTAL
PROJECT # : 62800022
PROJECT NAME : CONOCO WINGATE

PINNACLE I.D.: 010057

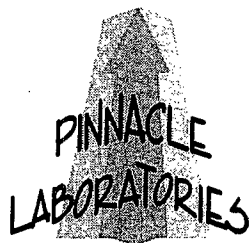
SAMPLE			DATE	DATE	DATE	DIL.
ID. #	CLIENT I.D.	MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
01	CONOCO WINGATE MW03	AQUEOUS	10/13/00	NA	10/18/00	1
02	CONOCO WINGATE MW02	AQUEOUS	10/13/00	NA	10/18/00	1
03	CONOCO WINGATE MW01	AQUEOUS	10/13/00	NA	10/18/00	1

PARAMETER	DET. LIMIT	UNITS	CONOCO WINGATE MW03	CONOCO WINGATE MW02	CONOCO WINGATE MW01
FUEL HYDROCARBONS	50	UG/L	< 50	< 50	52
HYDROCARBON RANGE			C6-C14	C6-C14	C6-C14
HYDROCARBONS QUANTITATED USING			GASOLINE	GASOLINE	GASOLINE
BENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
TOLUENE	0.5	UG/L	3.4	1.3	3.9
ETHYLBENZENE	0.5	UG/L	0.5	< 0.5	0.6
TOTAL XYLENES	0.5	UG/L	4.5	1.6	5.4

SURROGATE:					
BROMOFLUOROBENZENE (%)			99	93	99
SURROGATE LIMITS	(80 - 120)				

CHEMIST NOTES:

/A



2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8021 MODIFIED / 8015 GRO
CLIENT : PHILIP ENVIRONMENTAL
PROJECT # : 62800022
PROJECT NAME : CONOCO WINGATE

PINNACLE I.D.: 010057

AMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
04	CONOCO WINGATE MW04	AQUEOUS	10/13/00	NA	10/18/00	1
5	CONOCO WINGATE EB1	AQUEOUS	10/13/00	NA	10/18/00	1
06	CONOCO WINGATE MW54	AQUEOUS	10/13/00	NA	10/18/00	1

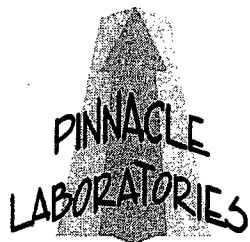
PARAMETER	DET. LIMIT	UNITS	CONOCO WINGATE MW04	CONOCO WINGATE EB1	CONOCO WINGATE MW54
FUEL HYDROCARBONS	50	UG/L	260	< 50	230
HYDROCARBON RANGE			C6-C14	C6-C14	C6-C14
HYDROCARBONS QUANTITATED USING			GASOLINE	GASOLINE	GASOLINE
BENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
TOLUENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
ETHYLBENZENE	0.5	UG/L	< 0.5	< 0.5	< 0.5
TOTAL XYLENES	0.5	UG/L	< 0.5	< 0.5	< 0.5

SURROGATE:

PROMOFLUOROBENZENE (%)		97	96	93
SURROGATE LIMITS	(80 - 120)			

CHEMIST NOTES:

/A



2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

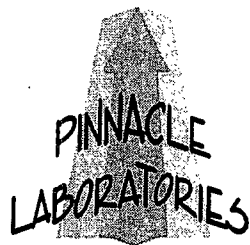
GAS CHROMATOGRAPHY RESULTS
REAGENT BLANK

TEST	: EPA 8021 MODIFIED / 8015 GRO		
BLANK I.D.	: 101800	PINNACLE I.D.	: 010057
CLIENT	: PHILIP ENVIRONMENTAL	DATE EXTRACTED	: NA
PROJECT #	: 62800022	DATE ANALYZED	: 10/18/00
PROJECT NAME	: CONOCO WINGATE	SAMPLE MATRIX	: AQUEOUS

PARAMETER	UNITS	
FUEL HYDROCARBONS	UG/L	<50
HYDROCARBON RANGE		C6-C14
HYDROCARBONS QUANTITATED USING		GASOLINE
BENZENE	UG/L	<0.5
TOLUENE	UG/L	<0.5
ETHYLBENZENE	UG/L	<0.5
TOTAL XYLENES	UG/L	<0.5
SURROGATE:		
BROMOFLUOROBENZENE (%)		94
SURROGATE LIMITS (80 - 120)		

CHEMIST NOTES:

/A



2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

GAS CHROMATOGRAPHY QUALITY CONTROL
MSMSD

TEST : EPA 8021 MODIFIED / 8015 GRO
MSMSD # : 101800
CLIENT : PHILIP ENVIRONMENTAL
PROJECT # : 62800022
PROJECT NAME : CONOCO WINGATE

PINNACLE I.D. : 010057
DATE EXTRACTED : NA
DATE ANALYZED : 10/18/00
SAMPLE MATRIX : AQUEOUS
UNITS : UG/L

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
BENZENE	<0.5	20.0	17.3	87	18.2	91	5	(80 - 120)	20
TOLUENE	<0.5	20.0	18.9	95	18.3	92	3	(80 - 120)	20
ETHYLBENZENE	<0.5	20.0	20.2	101	19.6	98	3	(80 - 120)	20
TOTAL XYLENES	<0.5	60.0	58.7	98	57.1	95	3	(80 - 120)	20

CHEMIST NOTES:
N/A

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

Environmental Services Laboratory, Inc.



17400 SW Upper Boones Ferry Road • Suite 270 • Portland, OR 97224 • (503) 670-8520

October 31, 2000

Jacinta A. Tenorio
Pinnacle Laboratories
2709-D Pan American Fwy NE
Albuquerque, NM 87107
TEL: 505-344-3777
FAX (505) 344-4413

RE: 010057/PHIL

Order No.: 0010121

Dear Jacinta A. Tenorio,

Environmental Services Laboratory received 6 samples on 10/18/00 for the analyses presented in the following report.

The Samples were analyzed for the following tests:

Chloride (EPA 325.3)

Total Dissolved Solids (EPA 160.1)

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative. Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety, without the written approval from the Laboratory.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Nichole Karl

Nichole Karl
Project Manager

Keith Hunter

Technical Review

Environmental Services Laboratory

Date: 31-Oct-00

CLIENT: Pinnacle Laboratories
Lab Order: 0010121
Project: 010057/PHIL
Lab ID: 0010121-01A

Client Sample ID: 010057-01
Tag Number:
Collection Date: 10/13/00
Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
CHLORIDE		EPA 325.3				Analyst: gvs
Chloride	1.75	0.500		mg/L	1	10/27/00
TOTAL DISSOLVED SOLIDS		EPA 160.1				Analyst: gvs
Total Dissolved Solids (Residue, Filterable)	497	10.0		mg/L	1	10/19/00

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Environmental Services Laboratory

Date: 31-Oct-00

CLIENT: Pinnacle Laboratories
Lab Order: 0010121
Project: 010057/PHIL
Lab ID: 0010121-02A

Client Sample ID: 010057-02
Tag Number:
Collection Date: 10/13/00
Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
CHLORIDE		EPA 325.3				Analyst: gvs
Chloride	ND	0.500		mg/L	1	10/27/00
TOTAL DISSOLVED SOLIDS		EPA 160.1				Analyst: gvs
Total Dissolved Solids (Residue, Filterable)	1,020	10.0		mg/L	1	10/19/00

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Environmental Services Laboratory

Date: 31-Oct-00

CLIENT: Pinnacle Laboratories
Lab Order: 0010121
Project: 010057/PHIL
Lab ID: 0010121-03A

Client Sample ID: 010057-03
Tag Number:
Collection Date: 10/13/00
Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
CHLORIDE		EPA 325.3				Analyst: gvs
Chloride	2.50	0.500		mg/L	1	10/27/00
TOTAL DISSOLVED SOLIDS		EPA 160.1				Analyst: gvs
Total Dissolved Solids (Residue, Filterable)	724	10.0		mg/L	1	10/19/00

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Environmental Services Laboratory**Date:** 31-Oct-00

CLIENT: Pinnacle Laboratories
Lab Order: 0010121
Project: 010057/PHIL
Lab ID: 0010121-04A

Client Sample ID: 010057-04
Tag Number:
Collection Date: 10/13/00
Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
CHLORIDE		EPA 325.3				Analyst: gvs
Chloride	4.00	0.500		mg/L	1	10/27/00
TOTAL DISSOLVED SOLIDS		EPA 160.1				Analyst: gvs
Total Dissolved Solids (Residue, Filterable)	1,400	10.0		mg/L	1	10/19/00

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Environmental Services Laboratory

Date: 31-Oct-00

CLIENT: Pinnacle Laboratories
Lab Order: 0010121
Project: 010057/PHIL
Lab ID: 0010121-05A

Client Sample ID: 010057-05
Tag Number:
Collection Date: 10/13/00
Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
CHLORIDE		EPA 325.3				Analyst: gvs
Chloride	0.50	0.500		mg/L	1	10/27/00
TOTAL DISSOLVED SOLIDS		EPA 160.1				Analyst: gvs
Total Dissolved Solids (Residue, Filterable)	15.0	10.0		mg/L	1	10/19/00

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Environmental Services Laboratory

Date: 31-Oct-00

CLIENT: Pinnacle Laboratories
Lab Order: 0010121
Project: 010057/PHIL
Lab ID: 0010121-06A

Client Sample ID: 010057-06
Tag Number:
Collection Date: 10/13/00
Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
CHLORIDE		EPA 325.3				Analyst: gvs
Chloride, Diss	4.00	0.500		mg/L	1	10/27/00
TOTAL DISSOLVED SOLIDS		EPA 160.1				Analyst: gvs
Total Dissolved Solids (Residue, Filterable)	1,460	10.0		mg/L	1	10/19/00

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Environmental Services Laboratory

Date: 31-Oct-00

CLIENT: Pinnacle Laboratories
Work Order: 0010121
Project: 010057/PHIL

QC SUMMARY REPORT

Method Blank

Sample ID: MBlank	Batch ID: 01 CL A-10/3	Test Code: EPA 325.3	Units: mg/L	Analysis Date 10/27/00				Prep Date:			
Client ID:	0010121	Run ID:	NO INST_001027D		SeqNo:		56785				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	ND	0.5									

Sample ID: MBlank	Batch ID: 01 TDS-10/21/	Test Code: EPA 160.1	Units: mg/L	Analysis Date 10/19/00				Prep Date:			
Client ID:	0010121	Run ID:	NO INST_001019A		SeqNo:		55471				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera	ND	10									

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Environmental Services Laboratory

Date: 31-Oct-00

CLIENT: Pinnacle Laboratories
Work Order: 0010121
Project: 010057/PHIL

QC SUMMARY REPORT

Sample Duplicate

Sample ID: 0010095-02B DUP		Batch ID: 01 CL A-10/3	Test Code: EPA 325.3		Units: mg/L	Analysis Date 10/27/00			Prep Date:		
Client ID:		0010121	Run ID: NO INST_001027D			SeqNo: 56789					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride, Diss	ND	0.5	0	0	0.0%	0	0	0	0.0%	20	
Sample ID: 0010104-05A DUP		Batch ID: 01 TDS-10/21/	Test Code: EPA 160.1		Units: mg/L	Analysis Date 10/19/00			Prep Date:		
Client ID:		0010121	Run ID: NO INST_001019A			SeqNo: 55490					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera	144	20	0	0	0.0%	0	0	152	5.4%	20	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Environmental Services Laboratory

Date: 31-Oct-00

CLIENT: Pinnacle Laboratories
Work Order: 0010121
Project: 010057/PHIL

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: 0010095-02B MS	Batch ID: 01 CL A-10/3	Test Code: EPA 325.3	Units: mg/L	Analysis Date 10/27/00				Prep Date:			
Client ID:	0010121	Run ID:	NO INST_001027D		SeqNo:		56790				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride, Diss	4.25	0.5	5	0	85.0%	75	125	0			

Sample ID: 0010095-02B MSD	Batch ID: 01 CL A-10/3	Test Code: EPA 325.3	Units: mg/L	Analysis Date 10/27/00				Prep Date:			
Client ID:	0010121	Run ID:	NO INST_001027D		SeqNo:		56791				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride, Diss	5	0.5	5	0	100.0%	75	125	4.25	16.2%	20	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Environmental Services Laboratory

Date: 31-Oct-00

CLIENT: Pinnacle Laboratories
Work Order: 0010121
Project: 010057/PHIL

QC SUMMARY REPORT
Laboratory Control Spike - generic

Sample ID: LCS	Batch ID: 01 CL A-10/3	Test Code: EPA 325.3	Units: mg/L	Analysis Date 10/27/00				Prep Date:			
Client ID:	0010121	Run ID: NO INST_001027D	SeqNo: 56786								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloride	10	0.5	10	0	100.0%	85	115	0			
Sample ID: LCS	Batch ID: 01 TDS-10/21/	Test Code: EPA 160.1	Units: mg/L	Analysis Date 10/19/00				Prep Date:			
Client ID:	0010121	Run ID: NO INST_001019A	SeqNo: 55472								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids (Residue, Filtera	2330	20	2293	0	101.6%	85	115	0			

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank



Pinnacle Laboratories, Inc.

Interlab Chain of Custody

Date: 10/17 Page: 1 of 1

Network Project Manager: Jacinta A. Tenorio

ANALYSIS REQUEST

Pinnacle Laboratories, Inc.
2709-D Pan American Freeway, NE
Albuquerque, New Mexico 87107
(505) 344-3777 Fax (505) 344-4413

Watch hold times for TDS!
Expires 10/20/00!

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Metals (8) RCRA	RCRA TCLP METALS	Metals-13 PP List	Metals-TAL (23 METALS)	TOX	TOC	Gen Chemistry: TDS, Cl	Oil and Grease	Volatile Organics GC/MS (8260)	BOD	COD	PESTICIDES/PCB (608/8082)	Herbicides (615/8151)	PNA (8310)/8270 SIMS	8240 (TCLP 1311) ZHE	Base/Neutral Acid Compounds GC/MS (625/8270)	URANIUM (ICP-MS)	RADIUM 226+228	Gross Alpha/Beta	TO-14	NUMBER OF CONTAINERS
010057-01	10/13	1430	AQ	01							X														
-02		1205		02							X														
-03		1309		03							X														
-04		0930		04							X														
-05		1500		05							X														
-06	↓	0930	↓	06							X														

PROJECT INFORMATION				SAMPLE RECEIPT		SAMPLES SENT TO:		RELINQUISHED BY: 1		RELINQUISHED BY: 2	
PROJECT #: 010057				Total Number of Containers		PENSACOLA - STL-FL		Signature: Francine Tenorio		Time: 1730	
PROJ. NAME: PHIL				Chain of Custody Seals		ESL - OR		Printed Name: Francine Tenorio		Date: 10/17/00	
QC LEVEL: (STD) IV				Received Intact?		STL - CT		Pinnacle Laboratories, Inc.		Company	
QC REQUIRED: MS MSD BLANK				Received Good Cond./Cold		ATEL - AZ		RECEIVED BY: 1		RECEIVED BY: 2	
TAT: (STANDARD) RUSHII				LAB NUMBER: 0010121		ATEL - MARION		Signature: Nichole Karl		Time: 10:00	
						ATEL - MELMORE		Printed Name: Nichole Karl		Date: 10/18	
DUE DATE: 10/31				COMMENTS:		BARRINGER		Signature:		Time:	
RUSH SURCHARGE: -						ENVIRO TEST LABS		Printed Name:		Date:	
CLIENT DISCOUNT: -						WCAS		Company			
SPECIAL CERTIFICATION REQUIRED: YES (NO)						WOHL					



Chain of Custody Record

010057

4000 Monroe Road
Farmington, NM 87401

(505) 326-2262 Phone
(505) 326-2388 FAX

COC Serial No. C 2676

Project Name <u>CONOCO wingate</u>				Total Number of Bottles	Type of Analysis and Bottle <u>BTEX 8021</u> <u>TPH 8015 GRO</u> <u>TDS</u> <u>Chloride</u> <u>Lab ID</u>													
Project Number <u>2800022</u> Phase . Task <u>0301</u>																		
Samplers <u>C. MAERZ</u>																		
Laboratory Name <u>PINNACLE</u> Location <u>ALBQ N.M.</u>																		
Sample Number (and depth)	Date	Time	Matrix															Comments
CONOCO wingate MW 03	10-13-00	1430	H ₂ O	3	X	X	X	X		01								CONOCO wingate
CONOCO wingate MW 02	10-13-00	1205	H ₂ O	3	X	X	X	X		02								CONOCO wingate
CONOCO wingate MW 01	10-13-00	1309	H ₂ O	3	X	X	X	X		03								CONOCO wingate
CONOCO wingate MW 04	10-13-00	0930	H ₂ O	3	X	X	X	X		04								CONOCO wingate
CONOCO wingate-EB1	10-13-00	1500	H ₂ O	3	X	X	X	X		05								CONOCO wingate
CONOCO wingate MW 54	10-13-00	0930	H ₂ O	3	X	X	X	X		06								CONOCO wingate

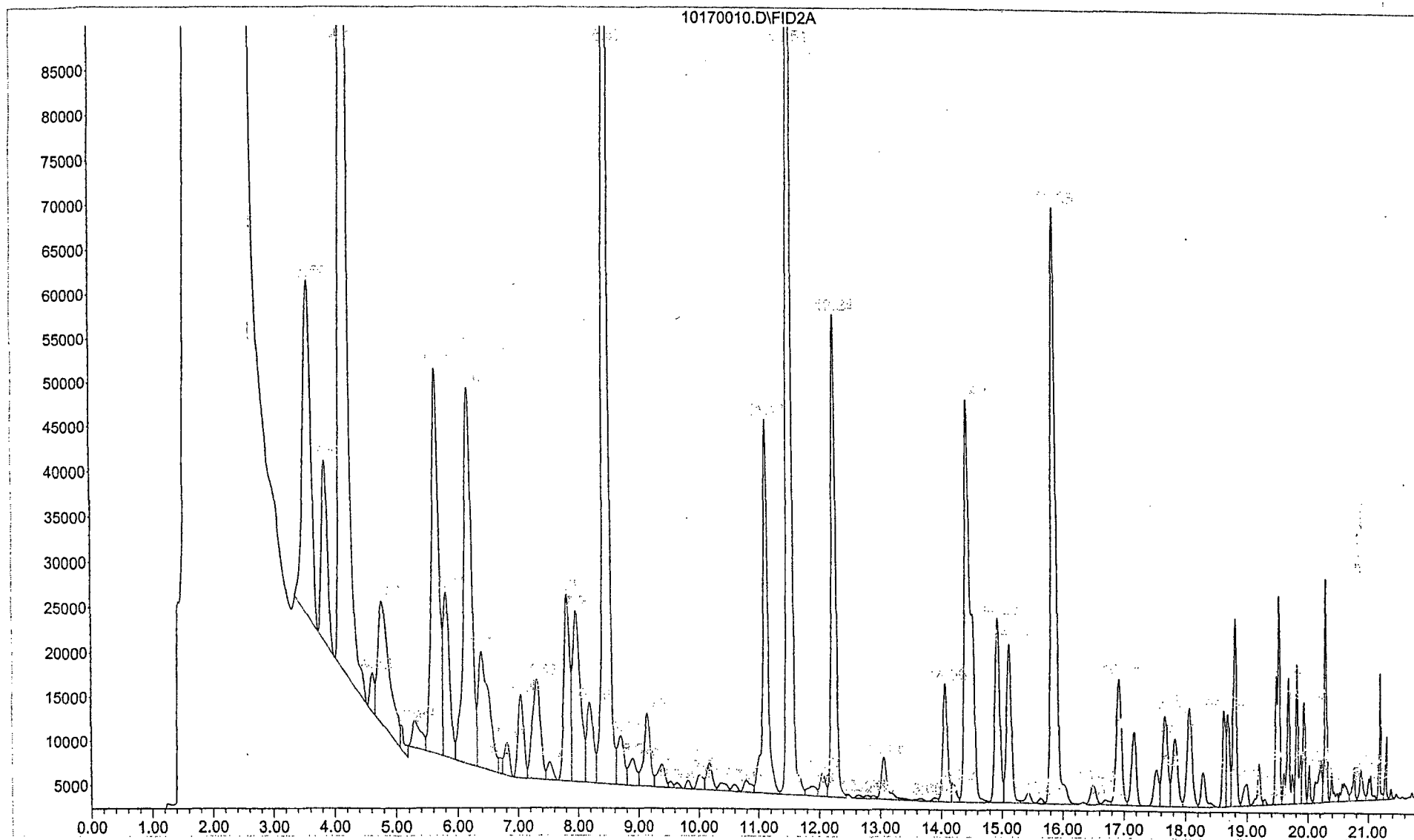
Relinquished by:

Received By:

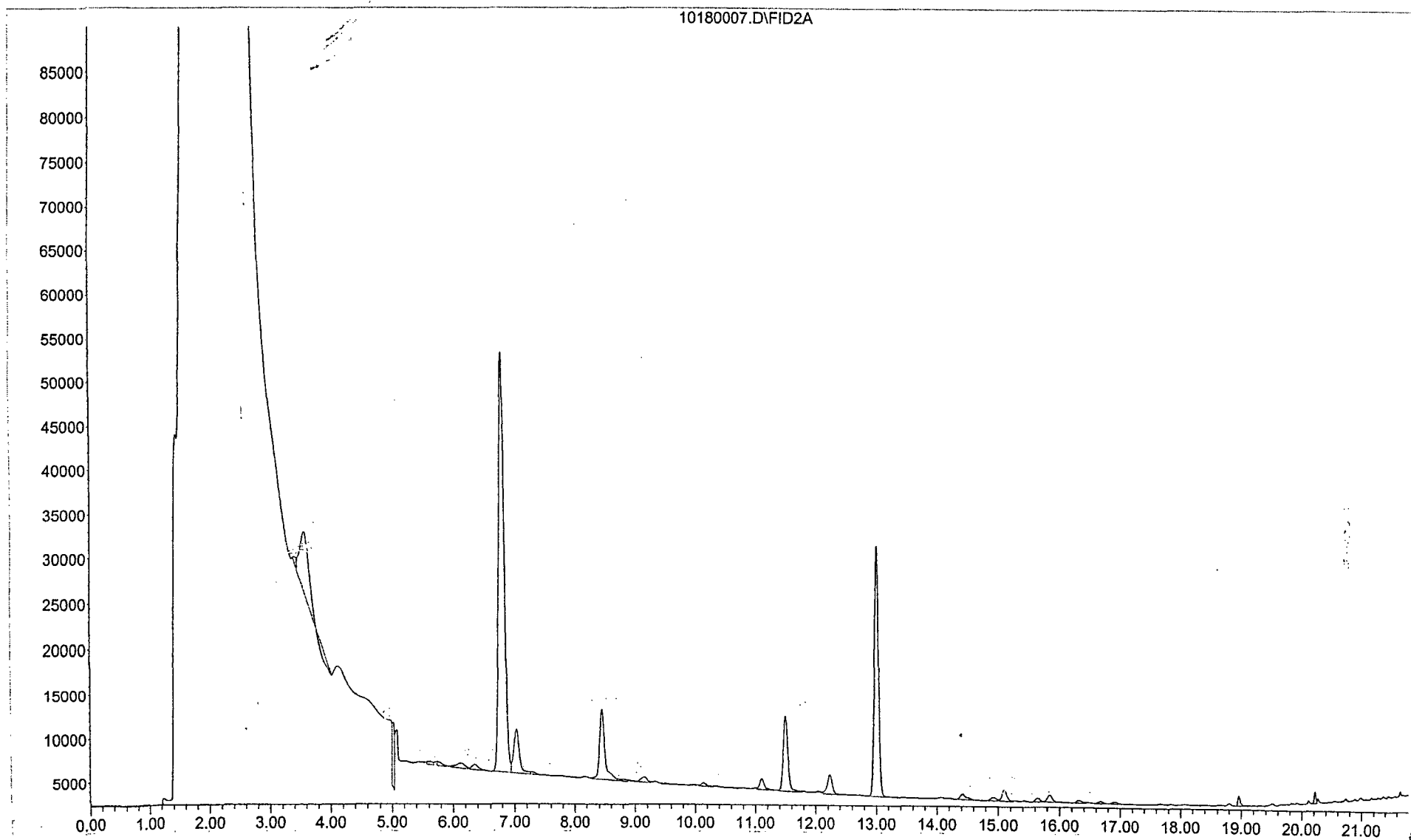
Signature	Date	Time	Signature	Date	Time
<u>[Signature]</u>	<u>10-13-00</u>	<u>1130</u>	<u>[Signature]</u>	<u>10/16/00</u>	<u>2115</u>

Samples Iced: ☒ Yes ☐ No	Carrier: <u>Greyhound</u>	Airbill No. <u>SLI/606918210</u>			
Preservatives (ONLY for Water Samples) ☐ Cyanide Sodium hydroxide (NaOH) ☒ Volatile Organic Analysis Hydrochloric acid (HCl) ☐ Metals Nitric acid (HNO ₃) ☐ TPH (418.1) Sulfuric acid (H ₂ SO ₄) ☐ Other (Specify) _____ ☐ Other (Specify) _____			Shipping and Lab Notes: <u>4°C 50</u>		

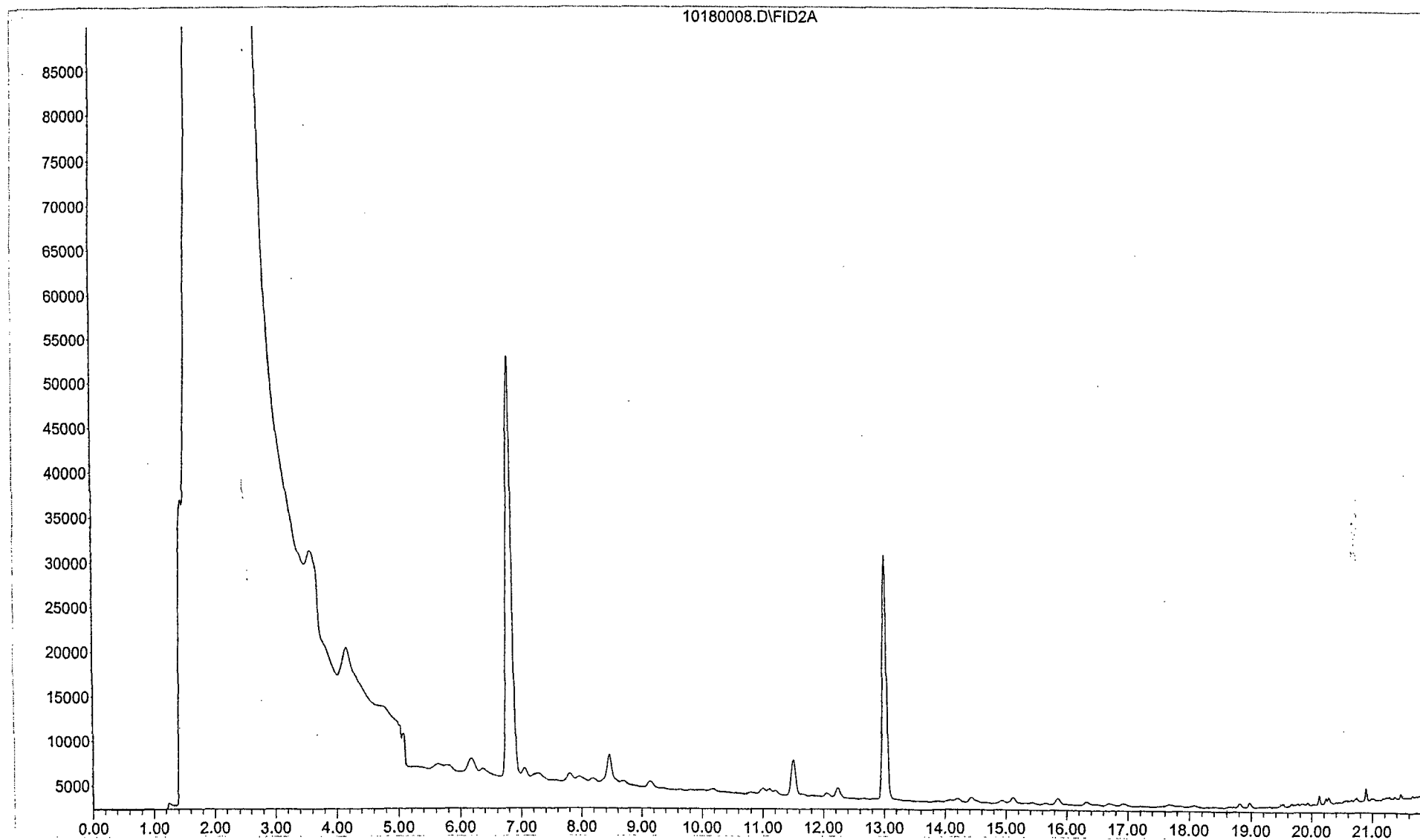
File : C:\HPCHEM\1\DATA\101700\10170010.D
Operator :
Acquired : 17 Oct 2000 18:22 using AcqMethod BTEX0522.M
Instrument : GC-2
Sample Name: gas crv 1000ug/l
Misc Info :
Vial Number: 4



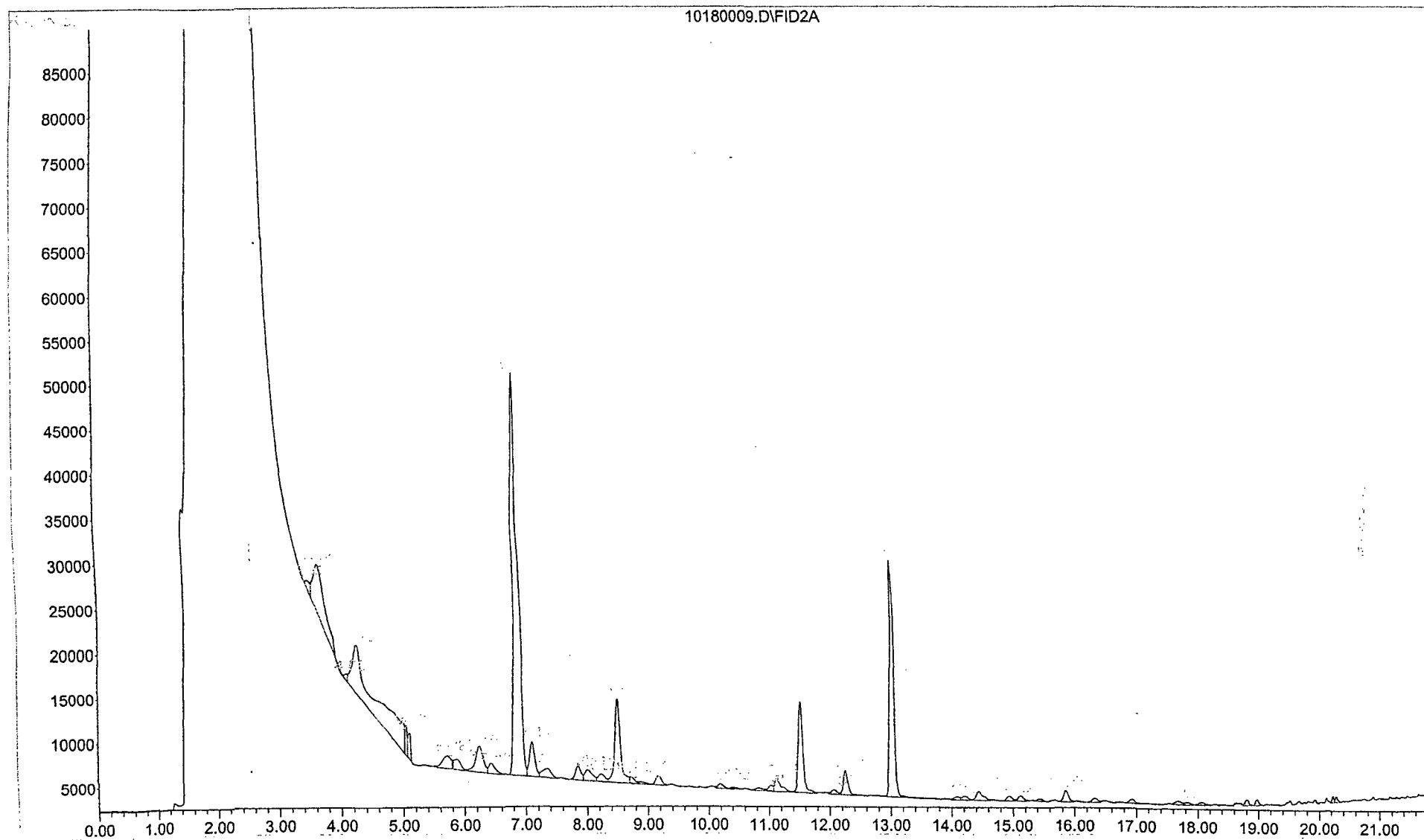
File : C:\HPCHEM\1\DATA\101800\10180007.D
Operator :
Acquired : 18 Oct 2000 16:13 using AcqMethod BTEX1017.M
Instrument : GC-2
Sample Name: 010057-01
Misc Info :
Vial Number: 4



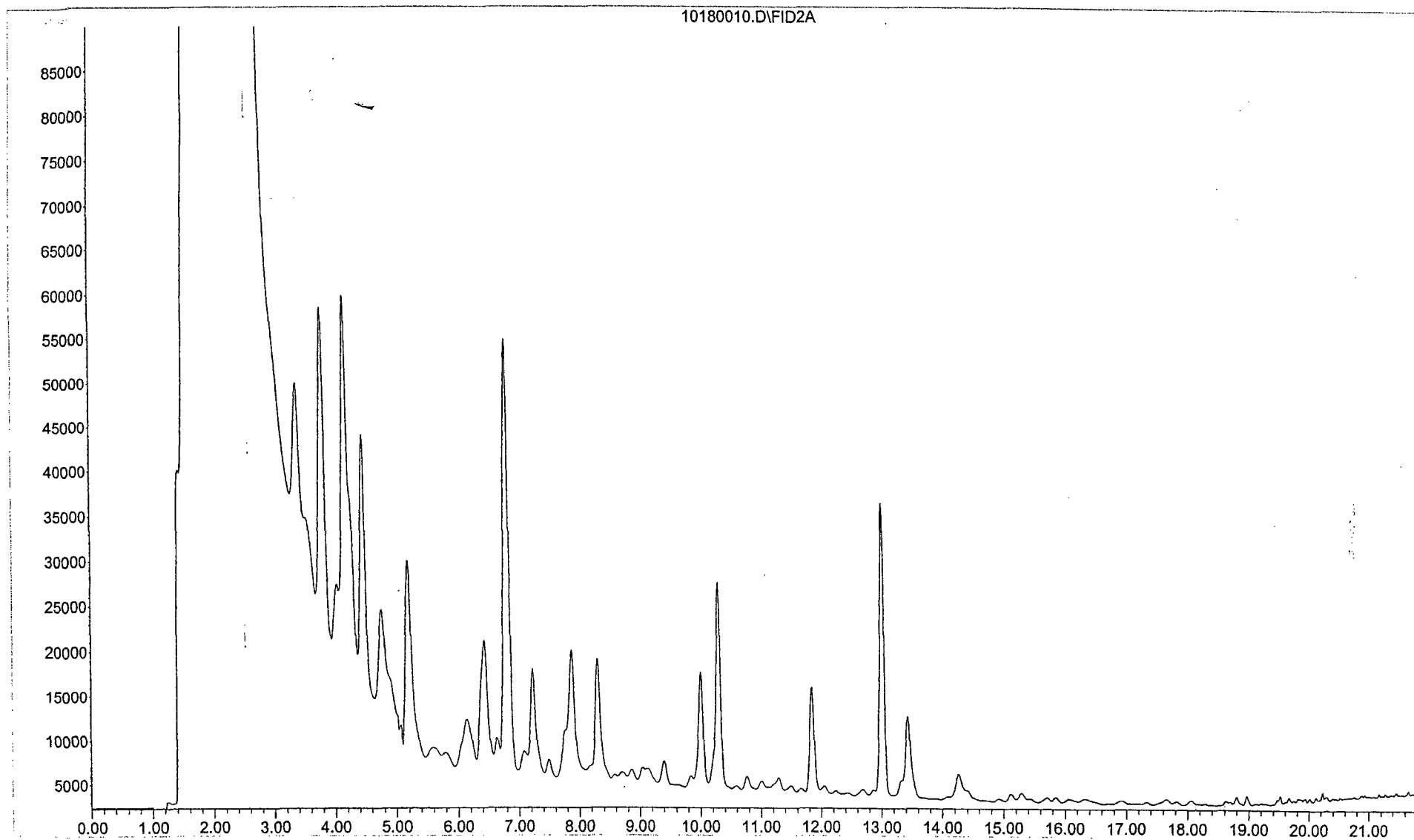
File : C:\HPCHEM\1\DATA\101800\10180008.D
Operator :
Acquired : 18 Oct 2000 16:47 using AcqMethod BTEX1017.M
Instrument : GC-2
Sample Name: 010057-02
Misc Info :
Vial Number: 5



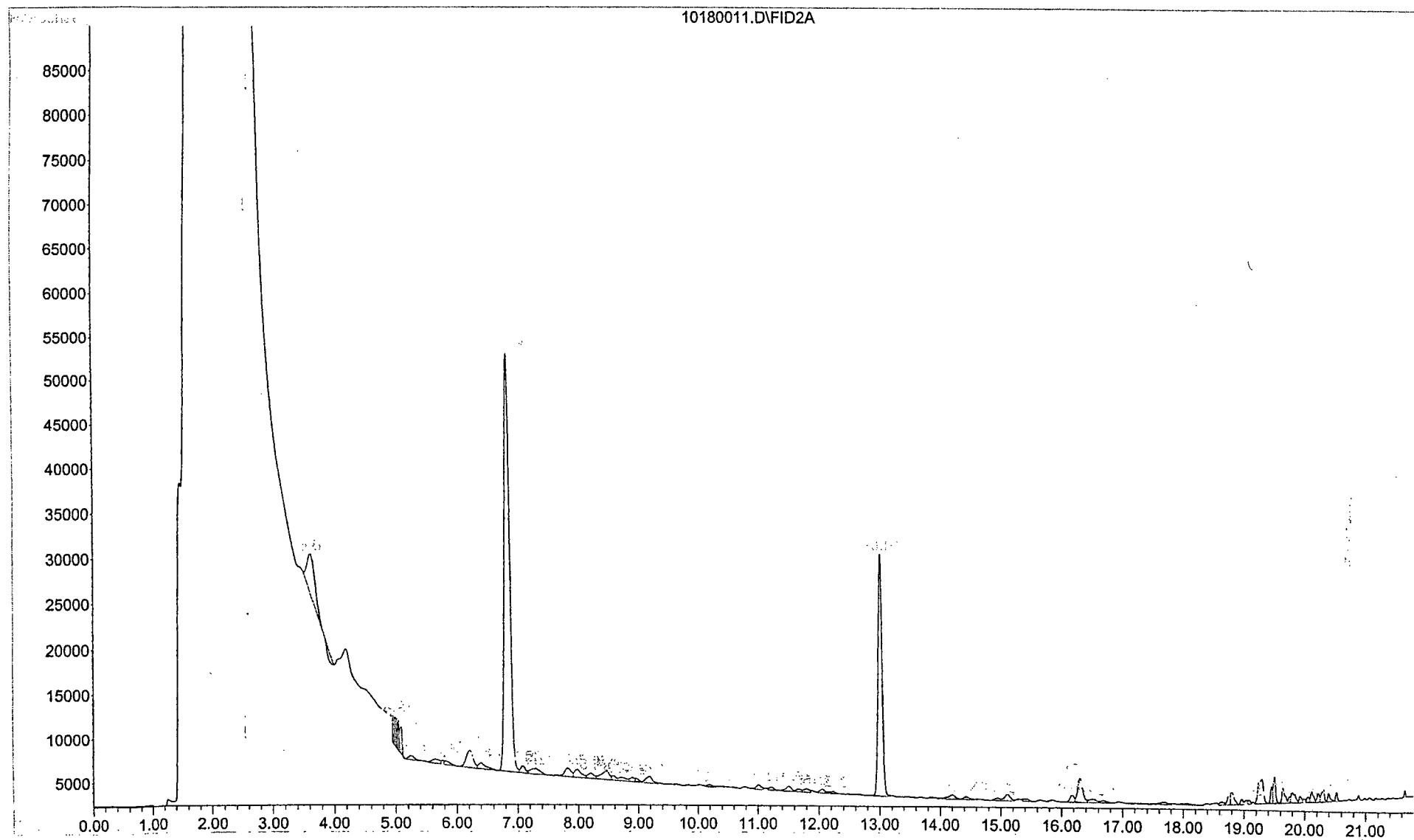
File : C:\HPCHEM\1\DATA\101800\10180009.D
Operator :
Acquired : 18 Oct 2000 17:21 using AcqMethod BTEX1017.M
Instrument : GC-2
Sample Name: 010057-03
Misc Info :
Vial Number: 6



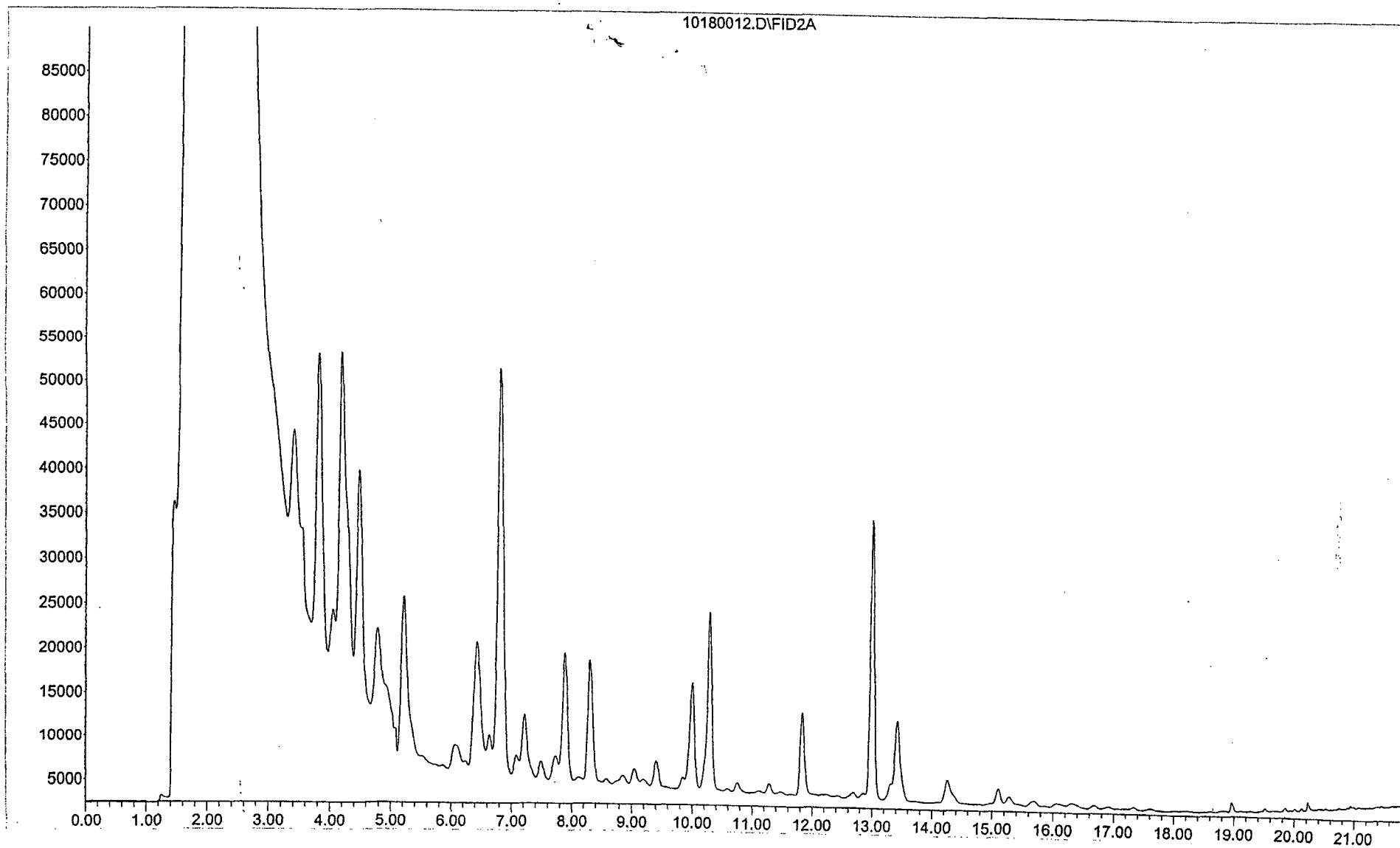
File : C:\HPCHEM\1\DATA\101800\10180010.D
Operator :
Acquired : 18 Oct 2000 17:55 using AcqMethod BTEX1017.M
Instrument : GC-2
Sample Name: 010057-04
Misc Info :
Vial Number: 7



File : C:\HPCHEM\1\DATA\101800\10180011.D
Operator :
Acquired : 18 Oct 2000 18:28 using AcqMethod BTEX1017.M
Instrument : GC-2
Sample Name: 010057-05
Misc Info :
Vial Number: 8



File : C:\HPCHEM\1\DATA\101800\10180012.D
Operator :
Acquired : 18 Oct 2000 19:02 using AcqMethod BTEX1017.M
Instrument : GC-2
Sample Name: 010057-06
Misc Info :
Vial Number: 9



Larissa Forseth
Environmental Engineer
Environmental Engineering & Compliance
Natural Gas & Gas Products
Conoco Inc.

Conoco Inc.
600 N. Dairy Ashford
P.O. Box 2197—HU3038
Houston, TX 77252
(281) 293-3149

Certified Mail No. P 365 861 359
Return Receipt Requested

April 23, 1998

Mr. William C. Olson
Environmental Bureau
Energy, Minerals and Natural Resource Department
Oil Conservation District
P.O. Box 6429
Santa Fe, NM 87505

RECEIVED

RE: Wingate Plant Semiannual Groundwater Sampling Event

Dear Mr. Olson:

Enclosed please find the semi-annual groundwater sampling report for the Wingate Fractionation Plant. Philip Services Corp. collected the samples on March 30th and 31st. If you have any questions, please contact me.

Thank you,

Larissa Forseth

Larissa Forseth

Attachments

SEMI-ANNUAL GROUNDWATER MONITORING

MARCH 1998

**Conoco Inc. - Wingate Gas Plant
Gallup, New Mexico**

Prepared For

**CONOCO INC.
HOUSTON, TEXAS**

Project 19364



**4000 Monroe Road
Farmington, New Mexico 87401
(505) 326-2262**



Industrial Services Group
Central Region

April 21, 1998

Project 19364

Ms. Larissa Forseth
Conoco, Inc.
P.O. Box 2197
Houston, TX 77252

**RE: Report for Groundwater Monitoring and Sampling at Conoco Inc.'s
Wingate Gas Plant, Gallup, New Mexico**

Dear Ms. Forseth:

On March 30-31, 1998, Philip Services Corporation (Philip) collected groundwater samples from monitoring wells located at Conoco, Inc.'s (Conoco) Wingate Natural Gas Fractionation Plant (Wingate), located near Gallup, New Mexico. A site map showing the locations of the monitoring wells is presented in Figure 1. Conoco required groundwater sample collection at eight groundwater monitoring wells located in and around Wingate. Philip performed the following scope of work for this project:

- Collected depth-to-groundwater and total well-depth measurements.
- Purged a minimum of three well-casing volumes at each well, and monitored pH, conductivity, and temperature, until all three parameters stabilized.
- Collected groundwater samples following purging; and submitted samples for laboratory analysis for the parameters presented in Table 1.

METHODOLOGY

Prior to purging each monitoring well, static groundwater levels were obtained using an electronic water level indicator. A total well-depth measurement was also taken at each monitoring well, which was used to calculate the volume of water in each. Monitor wells WMH-1, WMH-2, WMH-3, WMH-4, and WMW-5 were purged using a designated disposable bailer, with an approximate volume of one liter. Monitor wells MW-1, MW-2, and MW-3 were purged using a Grundfos® submersible pump, due to the depth of the wells. The pump was decontaminated prior to use at each

Combining the Strengths of Philip Services Corp., Allwaste and Serv-Tech



well by pumping an Alconox®-soap and potable-water solution through the pump, followed by a distilled-water rinse.

Field water quality measurements of pH, conductivity, temperature and visual clarity were recorded periodically during the purging of each well, to ensure that the water sampled was representative of ambient groundwater in the aquifer. Purging continued until a minimum of three well casing volumes were removed and all water quality parameters were stabilized. All field measurements were documented on Well Development and Purging Forms, presented in Appendix A.

Following well purging, groundwater samples were collected from each well using high-density polyethylene disposable bailers. The groundwater samples were collected in the upper 3 to 5 feet of the aquifer. One duplicate sample was collected from WMH-1 (identified as WMH-51) for laboratory quality assurance. In addition to the groundwater samples, one equipment blank (identified as EB-1) was collected from a disposable bailer, as a check of sampling equipment. One volatile organic analysis trip blank accompanied the groundwater samples to the laboratory.

All samples were labeled with a unique sample number (well number), the date and time of collection, sample collector, analysis required, and preservatives, if any. The samples were packed on ice and hand delivered to SPL's Farmington laboratory, following strict chain-of-custody procedures. Laboratory reports and chain-of-custody forms are presented in Appendix B.

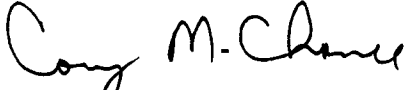
RESULTS

Analytical results for monitor well WMH-2 indicate benzene levels in excess of New Mexico Water Quality Control Commission (NMWQCC) standard of 10 micrograms per liter (ug/L). WMH-1, WMH-2, WMH-3, and WMW-5 were in excess of NMWQCC's standard of 250 mg/L for chloride. In addition, monitor wells MW-2, WMH-1, WMH-2, WMH-3, WMH-4, and WMW-5 were in excess of NMWQCC'S standard of 1,000 mg/L for total dissolved solids. All analytical results from this sampling event are presented in Table 1, and the Laboratory Report is presented in Appendix B. Groundwater elevation data for each monitoring well is presented in Table 2, and a Potentiometric Surface Map is presented in Figure 1.

Philip appreciates the opportunity to provide professional services to Conoco, and we look forward to working with you in the future. If you have any questions or require further information, please contact Cory Chance at (800) 326-2262.

Respectfully submitted,

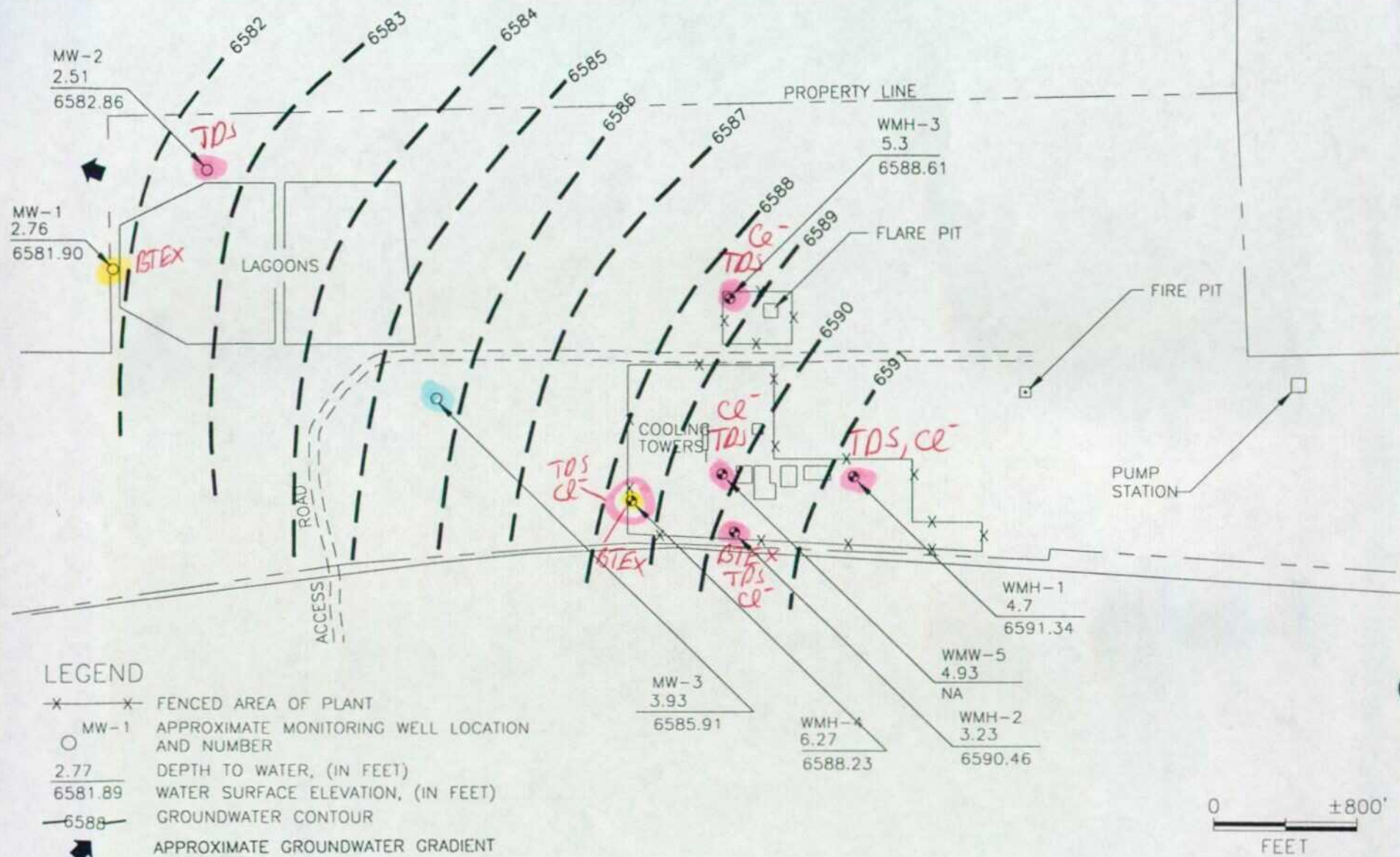
PHILIP SERVICES CORPORATION

A handwritten signature in black ink that reads "Cory M. Chance". The signature is written in a cursive style with a large, stylized "C" at the beginning.

Cory M. Chance
Geologist

Attachments -
As stated

FIGURES



TITLE:

WINGATE GROUNDWATER
POTENTIOMETRIC SURFACE MAP
MARCH, 1998

DWN:

TMM

DES.:

CC

PROJECT NO.:

19364

CHKD:

CC

APPD:

CC

CONOCO-WINGATE
WINGATE, NM

DATE:

4/7/98

REV.:

0

FIGURE 1

TABLES

Conoco, Inc.
Houston, Texas

TABLE 1

Wingate
1998 Groundwater Analytical Results

ANALYTES	MW-1	MW-2	MW-3	WMH-1	WMH-2	WMH-3	WMH-4	WMW-5	WMH-51	EB-1	Trip Blank	NMWQCC
Benzene (ug/L)	1.8	ND	ND	ND	19,000	ND	3.6	ND	ND	ND	ND	10
Toluene (ug/L)	10	ND	ND	ND	320	ND	ND	ND	ND	ND	ND	750
Ethylbenzene (ug/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	750
Total Xylenes (ug/L)	11	ND	ND	ND	150	ND	ND	ND	ND	ND	ND	620
TPH - GRO (ug/L)	ND	ND	ND	ND	39	ND	ND	ND	ND	ND	ND	NA
Chloride (mg/L)	20	60.8	19.2	600	710	850	110	620	620	12.5	-	250
TDS - Measured (mg/L)	610	1,140	530	4,530	3,110	4,950	1,440	5,060	4,540	48	-	1000

ND - Analyte not detected at detection limit

TPH Analyzed by Method 8015B Gasoline Range Organics

BTEX Analyzed by Method 8020A

EB - Equipment Blank

WMH-51 - Duplicate of WMH-1

NMWQCC - New Mexico Water Quality Control Commission

Samples collected on March 30 and 31, 1998

Conoco, Inc.
Houston, Texas

TABLE 2
March 1998

Wingate
Groundwater Elevation Data

Well Number	Top of Riser Elevation	Depth to Groundwater	Groundwater Elevation
WMH-1	6,596.04	4.7	6,591.34
WMH-2	6,593.69	3.23	6,590.46
WMH-4	6,594.50	6.27	6,588.23
WMH-3	6,593.91	5.3	6,588.61
MW-3	6,589.84	3.93	6,585.91
MW-2	6,585.37	2.51	6,582.86
MW-1	6,584.66	2.76	6,581.90
WMW-5	N/A	4.93	N/A
NOTE Data given is in feet Elevation Data Supplied by MOI (Burlington Resources) NA - Not Available Depth to Water Data Collected on March 30, 31, 1998			

APPENDIX A

Serial No WDPD.

Project Name Conoco W, NGATE

Project Manager Cory Chance

Project No. 19364

Client Company Conoco

Phase.Task No. 3000.98

Site Name Conoco Winnet

Site Address Campus NM

Development Criteria

☒ 3 to 5 Casing Volumes of Water Removal
☐ Stabilization of Indicator Parameters
☐ Other

Water Volume Calculation

Initial Depth of Well (feet) 17.27' 70R
Initial Depth to Water (feet) 4.70' 70R
Height of Water Column in Well (feet) 12.57'
Diameter (inches): Well 2 Gravel Pack

Instruments	Serial No. (if applicable)
-------------	----------------------------

045722

☐ Other

Methods of Development

Pump

- ☐ Centrifugal
- ☐ Submersible
- ☐ Peristaltic
- ☐ Other

Bailer

- ☒ Bottom Valve
- ☐ Double Check Valve
- ☐ Stainless-steel Kemmerer

Diameter (inches): Well 2 Gravel Pack: 2

Item	Water Volume in Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing	12.57'	2.05 x 3	6.15
Gravel Pack			
Drilling Fluids			
Total			6.15

Water Disposal
LAGOON

Water Removal Data

[illegible]

Circle the date and time that the development criteria are met.

Comments

Robert Thompson

Developer's Signature(s)

Date 3.30.98

Reviewer Cheng

4/2/98

Location No. WMH-1

WATER SAMPLING DATA

Serial No. WSD

Group List Number _____

Sample Type: ☒ Groundwater ☐ Surface Water ☐ Other _____ Date 3-30-98Project Name CONOCO WINGATE Project No. 19364Project Manager CORY CHANCE Phase/Task No. 3000-98Site Name CONOCO WINGATE

Sampling Specifications

Requested Sampling

Depth Interval (feet) TOP 3'

Requested Wait Following

Development/Purging (hours) NONE

Initial Measurements

Time Elapsed From Final Development/Purging (hours) 15 MIN.Initial Water Depth (feet) 17.27' TORNonaqueous Liquids Present (Describe) NONE

Water Quality/Water Collection

DO = Dissolved Oxygen; Cond. = Conductivity

Date	Time	Sampler Initials	Water Quality Readings				Water Collection Data					Notes (Explain in Comment Below)
			Temp. (°C)	pH	DO (mg/L)	Cond. (µmhos/cm)	Volume Removed (gallons)	Removal Rate (gal/min)	Pump Intake Depth (ft)	Bail	Final Water Depth (ft)	

SEE WELL DEVELOPMENT & PURGING DATA FORM

Container Type: G = Clear Glass; A = Amber Glass; P = Plastic; V = VOA Vial (Glass); O = Other (Specify)

Sample Containers

Preservatives: H = HCl; N = HNO₃; S = H₂SO₄; A = NaOH; O = Other (Specify); ... = None

Analytical Parameter List	Container			Field Filtered		Preserved	Cooled During Collection		Comments
	Number	Type	Volume (mL)	Yes	No		Yes	No	
BTEX - GASOLY TPH - GRO	2	✓	40		X	—	X		SAMPLED AT 1150
TDS CHLORIDE	1	P	500		X	—	X		" " 1150

Filter Type N/A Chain-of-Custody Form Number 62236

Comments _____

Signature Paul Thompson Date 3-30-98 Reviewer mc Date 4/2/98



Well Number WMA-2

Serial No. WDPD

Project Name CONOCO WINGATE

Client Company CONOCO

Site Name CONOCO WINGATE

WELL DEVELOPMENT AND PURGING DATA

☐ Development
☒ Purging

Page 1 of 1

Project Manager CORY CHANCE

Project No. 19364

Phase/Task No. 3000-98

Site Address GAULF, NM

Development Criteria

- ☒ 3 to 5 Casing Volumes of Water Removal
☐ Stabilization of Indicator Parameters
☐ Other _____

Methods of Development

- Pump _____
Bailer _____
☐ Centrifugal ☒ Bottom Valve
☐ Submersible ☐ Double Check Valve
☐ Peristaltic ☐ Stainless-steel Kemmerer
☐ Other _____

Water Volume Calculation

Initial Depth of Well (feet) 20.12' TOR
Initial Depth to Water (feet) 3.23' TOR
Height of Water Column in Well (feet) 16.89'
Diameter (inches): Well 2 Gravel Pack _____

Item	Water Volume in Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing	<u>16.89'</u>	<u>2.76 x 3</u>	<u>8.28</u>
Gravel Pack			
Drilling Fluids			
Total			<u>8.28</u>

Instruments

- Serial No. (if applicable) _____
☒ pH Meter OYSTER
☐ DO Monitor _____
☒ Conductivity Meter OYSTER
☒ Temperature Meter OYSTER
☐ Other _____

Water Disposal
LAGOONS

Water Removal Data

Date	Time	Development Method	Removal Rate (gal/min)	Initial Depth (feet)	Ending Water Depth (feet)	Water Volume Removed (gallons)		Product Volume Removed (gallons)		Temperature (°C)	pH	Conductivity (mmhos/cm)	Dissolved Oxygen (mg/L)	Comments
						Incremental	Cumulative	Incremental	Cumulative					
3-30-98	1418		X			2.0	2.0			10.6	8.59	5050		GRAYISH
3-30-98	1424		X			2.0	4.0			11.3	8.42	5070		GRAYISH
3-30-98	1430		X			2.0	6.0			11.0	8.39	5180		GRAYISH
3-30-98	1434		X			2.25	8.25			11.3	8.50	4740		GRAYISH

Circle the date and time that the development criteria are met.

Comments

Developer's Signature(s) Robert Thompson

Date 3-30-98

Reviewer SC

Date 4/2/98



Well Number WMW-5
Serial No. WDPD

WELL DEVELOPMENT AND PURGING DATA

Page 1 of 1
Project No. 19364
Phase/Task No. 300.98

Project Manager Cory Chance

Site Address Garner, NM

Client Company Canoco

Site Name Canoco WINGATE

Development Criteria

- ☒ 3 to 5 Casing Volumes of Water Removal
☐ Stabilization of Indicator Parameters
☐ Other

Methods of Development

- Pump Bailer
☐ Centrifugal ☒ Bottom Valve
☐ Submersible ☐ Double Check Valve
☐ Peristaltic ☐ Stainless-steel Kemmerer
☐ Other

Water Volume Calculation

Initial Depth of Well (feet) 20.20' TOR
Initial Depth to Water (feet) 4.93' TOR
Height of Water Column in Well (feet) 15.27'
Diameter (inches): Well 4 Gravel Pack

Item	Water Volume in Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing	<u>15.27'</u>	<u>9.97 x 3</u>	<u>29.91</u>
Gravel Pack			
Drilling Fluids			
Total			<u>29.91</u>

Instruments

- ☒ pH Meter
☐ DO Monitor
☒ Conductivity Meter
☒ Temperature Meter
☐ Other

Serial No. (if applicable)

OYSTER

OYSTER

OYSTER

Water Disposal
Lagoons

Water Removal Data

Date	Time	Development Method	Removal Rate (gal/min)	Intake Depth (feet)	Ending Water Depth (feet)	Water Volume Removed (gallons)		Temperature (°C)	pH	Conductivity (mmho/cm)	Dissolved Oxygen (mg/L)	Comments
						Incremental	Cumulative					
3-30-98	1534	X				5.0	5.0	11.8	8.05	5630		Cloudy
3-30-98	1543	X				5.0	10.0	10.8	8.11	5500		Cloudy
3-30-98	1610	X				5.0	15.0	11.5	8.04	5600		Cloudy
3-30-98	1618	X				5.0	20.0	11.1	8.03	5640		LIGHT BROWN
3-30-98	1626	X				5.0	25.0	11.2	8.01	5640		LIGHT BROWN
3-30-98	1634	X				5.0	30.0	11.3	8.01	5650		LIGHT BROWN

Circle the date and time that the development criteria are met.

Comments

Robert Thompson

Developer's Signature(s) _____ Date 3-30-98 Reviewer Cec Date 4/2/98

Project Name CONOCO WINGATE Project Manager CORY CHANCE Project No. 19364

Client Company Conoco Phase/Task No. 3000.98

Site Name CONOCO WINGATE Site Address GALLUP NM

Development Criteria	Water Volume Calculation	Instruments	Serial No. (if applicable)
1. Accuracy of measurements	1.1. Volume of water used in the experiment	1.1.1. Volumetric flask	1.1.1.1. 100 mL
2. Precision of measurements	2.1. Volume of water used in the experiment	2.1.1. Volumetric flask	2.1.1.1. 100 mL
3. Reliability of measurements	3.1. Volume of water used in the experiment	3.1.1. Volumetric flask	3.1.1.1. 100 mL
4. Reproducibility of measurements	4.1. Volume of water used in the experiment	4.1.1. Volumetric flask	4.1.1.1. 100 mL
5. Sensitivity of measurements	5.1. Volume of water used in the experiment	5.1.1. Volumetric flask	5.1.1.1. 100 mL
6. Specificity of measurements	6.1. Volume of water used in the experiment	6.1.1. Volumetric flask	6.1.1.1. 100 mL
7. Validity of measurements	7.1. Volume of water used in the experiment	7.1.1. Volumetric flask	7.1.1.1. 100 mL
8. Feasibility of measurements	8.1. Volume of water used in the experiment	8.1.1. Volumetric flask	8.1.1.1. 100 mL
9. Cost-effectiveness of measurements	9.1. Volume of water used in the experiment	9.1.1. Volumetric flask	9.1.1.1. 100 mL
10. Safety of measurements	10.1. Volume of water used in the experiment	10.1.1. Volumetric flask	10.1.1.1. 100 mL

☒ 3 to 5 Casing Volumes of Water Removal

☐ Stabilization of Indicator Parameters

Initial Depth of Well (feet) 21.41' TOR

Initial Depth to Water (feet) 6.27' TOR

~~X~~ pH Meter

Oyster Creek

☐ Other _____

☐ DO Monitor _____

Height of Water Column in Well (feet) 15.14

Methods of Development

Diameter (inches):	well	Gravel Pack
	Water Volume in Well	Gallons to be

☒ Conductivity Meter

☒ 0.512

Pump	Bailer	Item	Cubic Feet	Gallons	Removed
☐ Centrifugal	☒ Bottom Valve	Well Casing	15 III	217.3	7 III

~~X~~ Temperature Meter

OXYGEN

☒ Conventional Valve			
☐ Submersible			
☐ Double Check Valve			
Gravel Pack			
Screen Coating	LS-19	Z-9/X-3	7-1

	Drilling Fluids	Water Disposal
☐ Peristaltic		
☐ Stainless-steel Kemmerer		
☐ Other		
	Total	— (u)

100			1.5
-----	--	--	-----

LAGOONS

Water Removal Data

[illegible]

Circle the date and time that the development criteria are met.

Comments

Developer's Signature(s) Robert Thompson Date 3.30.98 Reviewer eng Date 4/2/98

WELL DEVELOPMENT AND PURGING DATA

☐ Development
☒ Purging

Well Number MW-3

Serial No. WDPD

Page 1 of 1

Project Name CONOCO WINGATE

Project Manager COY CHANCE

Project No. 19364

Client Company CONOCO

Phase/Task No. 3000.98

Site Name CONOCO WINGATE

Site Address GRUMP, NM

Development Criteria

- ☒ 3 to 5 Casing Volumes of Water Removal
☐ Stabilization of Indicator Parameters
☐ Other

Water Volume Calculation

Initial Depth of Well (feet) 46.42' TOP
Initial Depth to Water (feet) 3.93' TOP
Height of Water Column in Well (feet) 42.49'
Diameter (inches): Well 4 Gravel Pack

Item	Water Volume in Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing	<u>42.49'</u>	<u>27.74x3</u>	<u>83.22</u>
Gravel Pack			
Drilling Fluids			
Total			<u>83.22</u>

Methods of Development

- Pump ☐ Bailer
☐ Centrifugal ☐ Bottom Valve
☒ Submersible ☐ Double Check Valve
☐ Peristaltic ☐ Stainless-steel Kemmerer
☐ Other

Instruments

- Serial No. (if applicable)
☒ pH Meter Oyster
☐ DO-Monitor
☒ Conductivity Meter Oyster
☒ Temperature Meter Oyster
☐ Other

Water Disposal

LAKE

Water Removal Data

Date	Time	Development Method	Removal Rate (gall/min)	Intake Depth (feet)	Ending Water Depth (feet)	Water Volume Removed (gallons)		Product Volume Removed (gallons)		Temperature (°C)	pH	Conductivity (mmhos/cm)	Dissolved Oxygen (mg/L)	Comments
						Increment	Cumulative	Increment	Cumulative					
3-31-98	0853	X	5	45.42'		10.0	10.0			12.9	8.93	680		Cloudy
3-31-98	0855	X	"	45.42'		10.0	20.0			13.7	8.77	690		Cloudy
3-31-98	0857	X	"	45.42'		10.0	30.0			13.6	8.76	690		Cloudy
3-31-98	0859	X	"	45.42'		10.0	40.0			13.8	8.67	700		CLEAR
3-31-98	0901	X	"	45.42'		10.0	50.0			13.5	8.61	710		CLEAR
3-31-98	0903	X	"	45.42'		10.0	60.0			13.6	8.58	720		CLEAR
3-31-98	0905	X	"	45.42'		10.0	70.0			13.5	8.50	730		CLEAR
3-31-98	0907	X	"	45.42'		10.0	80.0			13.5	8.53	720		CLEAR

Circle the date and time that the development criteria are met.

Comments

Robert Thompson

Developer's Signature(s)

Date 3.31.98

Reviewer Luc Date 4/2/98

Location No. MW-3

WATER SAMPLING DATA

Serial No. WSD

Group List Number _____

Sample Type: ☒ Groundwater ☐ Surface Water ☐ Other _____ Date 3.31.98Project Name CONOCO WINGATE Project No. 19364Project Manager CORY CHANCE Phase/Task No. 3000.98Site Name CONOCO WINGATE

Sampling Specifications

Requested Sampling

Depth Interval (feet) TOP 3'

Requested Wait Following

Development/Purging (hours) NONE

Initial Measurements

Time Elapsed From Final Development/Purging (hours) 18 MIN.Initial Water Depth (feet) 3.93' TORNonaqueous Liquids Present (Describe) NONE

Water Quality/Water Collection

DO = Dissolved Oxygen; Cond. = Conductivity

Date	Time	Sampler Initials	Water Quality Readings				Water Collection Data					Notes (Explain in Comment Below)
			Temp. (°C)	pH	DO (mg/L)	Cond. (µmhos/cm)	Volume Removed (gallons)	Removal Rate (gal/min)	Pump Intake Depth (ft)	Bail	Final Water Depth (ft)	

SEE WELL DEVELOPMENT & PURGING DATA FORM

Container Type: G = Clear Glass; A = Amber Glass; P = Plastic; V = VOA Vial (Glass); O = Other (Specify)

Sample Containers

Preservatives: H = HCl; N = HNO₃; S = H₂SO₄; A = NaOH; O = Other (Specify); ... = None

Analytical Parameter List	Container			Field Filtered		Preserved	Cooled During Collection		Comments
	Number	Type	Volume (mL)	Yes	No		Yes	No	
<u>cmf</u> BTEX-GAC ONLY TPH-GRO	<u>2</u>	<u>V</u>	<u>40</u>		<u>X</u>	<u>—</u>	<u>X</u>		<u>SAMPLED AT 0925</u>
<u>YDS</u> CHLORIDE	<u>1</u>	<u>P</u>	<u>500</u>		<u>X</u>	<u>—</u>	<u>X</u>		<u>" " 0925</u>

Filter Type NONE Chain-of-Custody Form Number C 2236

Comments _____

Signature Robert Champion Date 3.31.98 Reviewer cmf Date 4/2/98

WELL DEVELOPMENT AND PURGING DATA

☐ Development
☒ Purging

Well Number MW-1

Serial No. WDPO

Page 1 of 1

Project Name CONOCO WINGATE

Project Manager Corey Chaner

Project No. 19364

Client Company CONOCO

Phase/Task No. 3000.78

Site Name CONOCO WINGATE

Site Address Garup, NM

Development Criteria

- ☒ 2 to 5 Casing Volumes of Water Removal
☐ Stabilization of Indicator Parameters
☐ Other

Water Volume Calculation

Initial Depth of Well (feet) 45.20' TOR
Initial Depth to Water (feet) 2.76' TOR
Height of Water Column in Well (feet) 42.44'
Diameter (inches): Well 4 Gravel Pack

Item	Water Volume in Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing	42.44'	27.70 x 3	83.10
Gravel Pack			
Drilling Fluids			
Total			83.10

Methods of Development

- Pump ☐ Bailor
☐ Centrifugal ☐ Bottom Valve
☒ Submersible ☐ Double Check Valve
☐ Peristaltic ☐ Stainless-steel Kemmerer
☐ Other

Instruments

- Serial No. (if applicable)
☒ pH Meter Oyster
☐ DO Monitor 0
☒ Conductivity Meter Oyster
☒ Temperature Meter Oyster
☐ Other

Water Disposal At Good

Water Removal Data

Date	Time	Development Method		Removal Rate (gal/min)	Intake Depth (feet)	Ending Water Depth (feet)	Water Volume Removed (gallons)		Temperature (°C)	pH	Conductivity (mmhos/cm)	Dissolved Oxygen (mg/L)	Comments
		Pump	Bailor				Increment	Cumulative					
3-31-98	1029	X			44.20'		10.0	10.0	15.9	8.73	1160		GREENISH
3-31-98	1033	X			"		10.0	20.0	15.0	8.83	1060		GREENISH
3-31-98	1038	X			"		10.0	30.0	15.1	8.89	970		GREENISH
3-31-98	1042	X			"		10.0	40.0	14.3	8.80	1090		GREENISH
3-31-98	1045	X			"		10.0	50.0	14.2	8.84	1060		Cloudy
3-31-98	1048	X			"		10.0	60.0	14.5	8.88	1000		Cloudy
3-31-98	1051	X			"		10.0	70.0	14.9	8.89	1020		CLEAR
3-31-98	1053	X			"		10.0	80.0	15.0	8.90	1000		CLEAR

Circle the date and time that the development criteria are met.

Comments

Robert Thompson

Developer's Signature(s) _____ Date 3-31-98

Reviewer Cue Date 4/2/98

Well Number MW-2
 Serial No. WDPD

WELL DEVELOPMENT AND PURGING DATA

Project Name CONOCO WINGATE Project Manager CORY CHANCE Page 1 of 1
 Client Company CONOCO Site Address GALLUP, NM Project No. 19364
 Site Name CONOCO WINGATE Phase/Task No. 3000.98

Development Criteria
☒ 3 to 5 Casing Volumes of Water Removal
☐ Stabilization of Indicator Parameters
☐ Other _____

Methods of Development

- Pump ☐ Bailor
☐ Centrifugal ☐ Bottom Valve
☒ Submersible ☐ Double Check Valve
☐ Peristaltic ☐ Stainless-steel Kemmerer
☐ Other _____

Water Volume Calculation

Initial Depth of Well (feet) 46.50' TOR
 Initial Depth to Water (feet) 2.51' TOR
 Height of Water Column in Well (feet) 43.99'
 Diameter (inches): Well 4 Gravel Pack _____

Item	Water Volume in Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing	<u>43.99'</u>	<u>28.72 x 3</u>	<u>86.16</u>
Gravel Pack			
Drilling Fluids			
Total			<u>86.16</u>

Instruments
☒ pH Meter
☐ DO Monitor
☒ Conductivity Meter
☒ Temperature Meter
☐ Other _____
 Serial No. (if applicable) OYSTER
OYSTER
OYSTER

Water Disposal
Lagoon

Water Removal Data

Date	Time	Development Method	Pump	Removal Rate (gal/min)	Intake Depth (feet)	Ending Water Depth (feet)	Water Volume Removed (gallons)		Temperature (°C)	pH	Conductivity (mmhos/cm)	Dissolved Oxygen (mg/l)	Comments
							Increment	Cumulative					
3-31-98	1147	X			45.50'		10.0	10.0	14.0	8.73	1340		LIGHT BROWN
3-31-98	1150	X			"		10.0	20.0	13.6	8.73	1310		LIGHT BROWN
3-31-98	1153	X			"		10.0	30.0	13.4	8.72	1250		CLOUDY
3-31-98	1155	X			"		10.0	40.0	13.4	8.70	1340		CLOUDY
3-31-98	1157	X			"		10.0	50.0	13.5	8.65	1340		CLOUDY
3-31-98	1201	X			"		10.0	60.0	13.8	8.65	1340		CLEAR
3-31-98	1204	X			"		10.0	70.0	14.0	8.62	1350		CLEAR
3-31-98	1208	X			"		10.0	80.0	14.0	8.62	1360		CLEAR
3-31-98	1211	X			"		5.0	85.0	14.3	8.61	1350		CLEAR

Circle the date and time that the development criteria are met.

Comments

Developer's Signature(s) [Signature] Date 3-31-98 Reviewer cm Date 4/2/98

Well Number WMH-3

Serial No. WDPD

Project Name CONOCO WINGATE

Client Company CONOCO

Site Name CONOCO WINGATE

WELL DEVELOPMENT AND PURGING DATA

Page 1 of 1

Project Manager CORY CHANCE

Project No. 19364

Phase/Task No. 3000.98

Site Address GALLUP, NM

Development Criteria

- ☒ 5 Casing Volumes of Water Removal
☐ Stabilization of Indicator Parameters
☐ Other _____

Methods of Development

- Pump Bailer
☐ Centrifugal ☒ Bottom Valve
☐ Submersible ☐ Double Check Valve
☐ Peristaltic ☐ Stainless-steel Kemmerer
☐ Other _____

Water Volume Calculation

Initial Depth of Well (feet) 20.21' TOP
 Initial Depth to Water (feet) 5.30' TOP
 Height of Water Column in Well (feet) 14.91'
 Diameter (inches): Well 2 Gravel Pack

Item	Water Volume in Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing	<u>14.91'</u>	<u>2.43 x 3</u>	<u>7.29</u>
Gravel Pack			
Drilling Fluids			
Total			<u>7.29</u>

Instruments

- ☒ pH Meter
☐ DO Monitor
☒ Conductivity Meter
☒ Temperature Meter
☐ Other _____

Serial No. (if applicable)

OYSTER
OYSTER
OYSTER

Water Disposal LAGOON

Water Removal Data

Date	Time	Development Method	Removal Rate (gal/min)	Intake Depth (feet)	Ending Water Depth (feet)	Water Volume Removed (gallons)		Temperature (°C)	pH	Conductivity (mmhos/cm)	Dissolved Oxygen (mg/l)	Comments
						Increment	Cumulative					
3-31-98	1332	X				1.5	1.5	11.3	8.10	6300		Cloudy
3-31-98	1337	X				1.5	3.0	11.4	8.05	6470		Cloudy
3-31-98	1341	X				1.5	4.5	12.1	8.05	6500		Cloudy
3-31-98	1346	X				1.5	6.0	12.9	8.04	6440		Cloudy
3-31-98	1354	X				1.5	7.5	13.4	8.04	6340		Cloudy

Circle the date and time that the development criteria are met.

Comments

Robert Thompson

Developer's Signature(s) _____ Date 3-31-98

Reviewer CRC Date 4/2/98

Location No. WMH-3

WATER SAMPLING DATA

Serial No. WSD

Group List Number _____

Sample Type: ☒ Groundwater ☐ Surface Water ☐ Other _____ Date 3.31.98Project Name CONOCO WINGATE Project No. 19364Project Manager CORY CHANCE Phase Task No. 3000.98Site Name CONOCO WINGATE

Sampling Specifications

Requested Sampling

Depth Interval (feet) TOP 3'

Requested Wait Following

Development/Purging (hours) NONE

Initial Measurements

Time Elapsed From Final Development/Purging (hours) 11 MIN.Initial Water Depth (feet) 5.30' TORNonaqueous Liquids Present (Describe) NONE

Water Quality/Water Collection

DO = Dissolved Oxygen; Cond. = Conductivity

Date	Time	Sampler Initials	Water Quality Readings				Water Collection Data					Notes (Explain in Comment Below)
			Temp (°C)	pH	DO (mg/L)	Cond. (µmhos/cm)	Volume Removed (gallons)	Removal Rate (gal/min)	Pump Intake Depth (ft)	Bail	Final Water Depth (ft)	

Container Type: G = Clear Glass; A = Amber Glass; P = Plastic; V = VOA Vial (Glass); O = Other (Specify)

Sample Containers

Preservatives: H = HCl; N = HNO₃; S = H₂SO₄; A = NaOH; O = Other (Specify); --- = None

Analytical Parameter List	Container			Field Filtered		Preserved	Cooled During Collection		Comments
	Number	Type	Volume (mL)	Yes	No		Yes	No	
BTEX-GAS ONLY	2	V	40		X	—	X		SAMPLED AT 1405
TPH-GRO									
TDS	1	P	500		X	—	X		" " 1405
CHLORIDE									

Filter Type NONE Chain-of-Custody Form Number C 2236

Comments _____

Signature Peter Thompson Date 3.31.98 Reviewer me Date 4/2/98

APPENDIX B

PHILIP

LABORATORY

Chain of Custody Record

4000 Monroe Road
Farmingington, NM 87401

(505) 326-2262 Phone
(505) 326-2388 FAX

COC Serial No. C 2236

Project Name <u>CONOCO WINGATE</u>		Type of Analysis and Bottle		Total Number of Bottles		Comments	
Project Number <u>19364</u> Phase Task <u>3000 . 98</u>		BTEX 8020 - GRS		3			
Samplers <u>R. THOMPSON</u>		TD5 8015 - GRS		3			
Laboratory		CHLORIDE		3			
Name <u>SPL</u>							
Location <u>FARMINGTON, NM</u>							
Sample Number (and depth)	Date	Time	Matrix				
EB1	3.30.98	1145	H2O	X	X	X	
WMH-1	3.30.98	1150	H2O	X	X	X	
WMH-51	3.30.98	1155	H2O	X	X	X	
WMH-2	3.30.98	1448	H2O	X	X	X	
WMW-5	3.30.98	1640	H2O	X	X	X	
WMH-4	3.30.98	1730	H2O	X	X	X	
MW-3	3.31.98	0925	H2O	X	X	X	
MW-1	3.31.98	1110	H2O	X	X	X	
MW-2	3.31.98	1220	H2O	X	X	X	
WMH-3	3.31.98	1405	H2O	X	X	X	
TRIP BLANK			H2O	X	X	X	

Relinquished by:		Received By:	
Signature <u>R. Thompson</u>	Date <u>4.1.98</u>	Signature <u>T. L. Clark</u>	Date <u>4/1/98</u>
	Time <u>8:30 AM</u>		Time <u>8:30 AM</u>

Samples Iced: ☒ Yes ☐ No	Carrier:
Preservatives (ONLY for Water Samples)	Shipping and Lab Notes:
☐ Cyanide	
☐ Volatile Organic Analysis	
☐ Metals	
☐ TPH (418.1)	
☐ Other (Specify)	
☐ Other (Specify)	



Water Analysis
Phillip Environmental Services

FARMINGTON LABORATORY

807 S. CARLTON
FARMINGTON, NM 87499-1289
(505) 326-2588

Sample ID: WMH-1
Matrix: Water
Lab ID: 9804001-02

Date Reported: 04/16/98
Date Sampled: 03/30/98
Date Received: 04/01/98

Parameter	Analytical Result	Units
-----------	-------------------	-------

General

TDS (calc)	4,590	mg/L
TDS (measured)	4,530	mg/L

Anions

Chloride	600	mg/L
----------	-----	------

Organic Analysis

	Results	Detection Limit	Units
Benzene	ND	1.0	µg/L
Toluene	ND	1.0	µg/L
Ethylbenzene	ND	1.0	µg/L
Total Xylene	ND	1.0	µg/L
Total Volatile Aromatic Hydrocarbons	ND		µg/L

Surrogate

% Recovery

1,4-Difluorobenzene	93
4-Bromofluorobenzene	83

Method 8020A***

Analyzed by: DN
Date: 04/03/98

Gasoline Range Organics

ND 0.1 µg/L

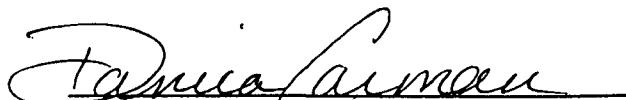
Surrogate

% Recovery

4-Bromofluorobenzene	80
1,4-Difluorobenzene	93

Method 8015B*** for Gasoline

Analyzed by: DN
Date: 04/03/98


Danica Carman, Lab Director



Water Analysis
Phillip Environmental Services

FARMINGTON LABORATORY

807 S. CARLTON
FARMINGTON, NM 87499-1289
(505) 326-2588

Sample ID: WMH-51
Matrix: Water
Lab ID: 9804001-03

Date Reported: 04/16/98
Date Sampled: 03/30/98
Date Received: 04/01/98

Parameter	Analytical Result	Units
-----------	-------------------	-------

General

TDS (calc)	4,670	mg/L
TDS (measured)	4,540	mg/L

Anions

Chloride	620	mg/L
----------	-----	------

Organic Analysis

	Results	Detection Limit	Units
Benzene	ND	1.0	µg/L
Toluene	ND	1.0	µg/L
Ethylbenzene	ND	1.0	µg/L
Total Xylene	ND	1.0	µg/L
Total Volatile Aromatic Hydrocarbons	ND		µg/L

Surrogate

% Recovery

1,4-Difluorobenzene	87
4-Bromofluorobenzene	63

Method 8020A***

Analyzed by: DN

Date: 04/03/98

Gasoline Range Organics

ND	0.1	µg/L
----	-----	------

Surrogate

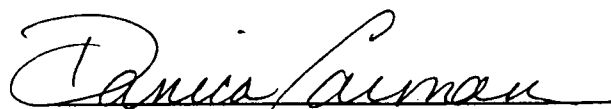
% Recovery

4-Bromofluorobenzene	60
1,4-Difluorobenzene	87

Method 8015B*** for Gasoline

Analyzed by: DN

Date: 04/03/98


Danica Carman, Lab Director



Water Analysis
Phillip Environmental Services

FARMINGTON LABORATORY

807 S. CARLTON
FARMINGTON, NM 87499-1289
(505) 326-2588

Sample ID: WMH-2
Matrix: Water
Lab ID: 9804001-04

Date Reported: 04/16/98
Date Sampled: 03/30/98
Date Received: 04/01/98

Parameter	Analytical Result	Units
-----------	----------------------	-------

General

TDS (calc)	2,990	mg/L
TDS (measured)	3,110	mg/L

Anions

Chloride	710	mg/L
----------	-----	------

Organic Analysis

	Results	Detection Limit	Units
Benzene	19000	100	µg/L
Toluene	320	100	µg/L
Ethylbenzene	ND	100	µg/L
Total Xylene	150	100	µg/L
Total Volatile Aromatic Hydrocarbons	19470		µg/L

Surrogate

% Recovery

1,4-Difluorobenzene	103
4-Bromofluorobenzene	100

Method 8020A***

Analyzed by: HS

Date: 04/05/98

Gasoline Range Organics

39	10	µg/L
----	----	------

Surrogate

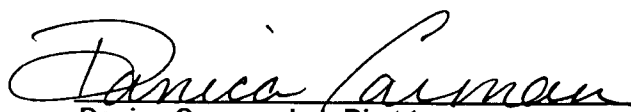
% Recovery

4-Bromofluorobenzene	103
1,4-Difluorobenzene	100

Method 8015B*** for Gasoline

Analyzed by: HS

Date: 04/05/98


Danica Carman, Lab Director

**FARMINGTON LABORATORY**807 S. CARLTON
FARMINGTON, NM 87499-1289
(505) 326-2588**Water Analysis**
Phillip Environmental ServicesSample ID: WMH-3
Matrix: Water
Lab ID: 9804001-10Date Reported: 04/16/98
Date Sampled: 03/31/98
Date Received: 04/01/98

Parameter	Analytical Result	Units
-----------	-------------------	-------

General

TDS (calc)	4,960	mg/L
TDS (measured)	4,950	mg/L

Anions

Chloride	850	mg/L
----------	-----	------

Organic Analysis

	Results	Detection Limit	Units
Benzene	ND	1.0	µg/L
Toluene	ND	1.0	µg/L
Ethylbenzene	ND	1.0	µg/L
Total Xylene	ND	1.0	µg/L
Total Volatile Aromatic Hydrocarbons	ND		µg/L

Surrogate**% Recovery**

1,4-Difluorobenzene	90
4-Bromofluorobenzene	100

Method 8020A***

Analyzed by: DN

Date: 04/04/98

Gasoline Range Organics

ND	0.1	µg/L
----	-----	------

Surrogate**% Recovery**

4-Bromofluorobenzene	100
1,4-Difluorobenzene	93

Method 8015B*** for Gasoline

Analyzed by: DN

Date: 04/04/98

Danica Carman, Lab Director

**FARMINGTON LABORATORY**

807 S. CARLTON
FARMINGTON, NM 87499-1289
(505) 326-2588

Water Analysis
Phillip Environmental Services

Sample ID: WMH-4
Matrix: Water
Lab ID: 9804001-06

Date Reported: 04/16/98
Date Sampled: 03/30/98
Date Received: 04/01/98

Parameter	Analytical Result	Units
-----------	-------------------	-------

General

TDS (calc)	1,440	mg/L
TDS (measured)	1,440	mg/L

Anions

Chloride	110	mg/L
----------	-----	------

Organic Analysis

	Results	Detection Limit	Units
Benzene	3.6	1.0	µg/L
Toluene	ND	1.0	µg/L
Ethylbenzene	ND	1.0	µg/L
Total Xylene	ND	1.0	µg/L
Total Volatile Aromatic Hydrocarbons	3.6		µg/L

Surrogate**% Recovery**

1,4-Difluorobenzene	93
4-Bromofluorobenzene	67

Method 8020A***

Analyzed by: DN

Date: 04/03/98

Gasoline Range Organics

ND	0.1	µg/L
----	-----	------

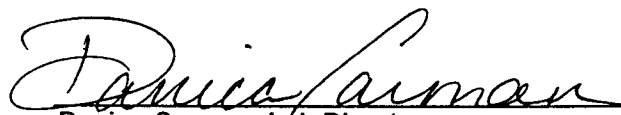
Surrogate**% Recovery**

4-Bromofluorobenzene	90
1,4-Difluorobenzene	67

Method 8015B*** for Gasoline

Analyzed by: DN

Date: 04/03/98


Danica Carman, Lab Director

**FARMINGTON LABORATORY**807 S. CARLTON
FARMINGTON, NM 87499-1289
(505) 326-2588**Water Analysis**
Phillip Environmental ServicesSample ID: WMW-5
Matrix: Water
Lab ID: 9804001-05Date Reported: 04/16/98
Date Sampled: 03/30/98
Date Received: 04/01/98

Parameter	Analytical Result	Units
-----------	-------------------	-------

General

TDS (calc)	5,150	mg/L
TDS (measured)	5,060	mg/L

Anions

Chloride	620	mg/L
----------	-----	------

Organic Analysis

	Results	Detection Limit	Units
Benzene	ND	1.0	µg/L
Toluene	ND	1.0	µg/L
Ethylbenzene	ND	1.0	µg/L
Total Xylene	ND	1.0	µg/L
Total Volatile Aromatic Hydrocarbons	ND		µg/L

Surrogate**% Recovery**

1,4-Difluorobenzene	93
4-Bromofluorobenzene	100

Method 8020A***

Analyzed by: DN

Date: 04/03/98

Gasoline Range Organics

ND	0.1	µg/L
----	-----	------

Surrogate**% Recovery**

4-Bromofluorobenzene	67
1,4-Difluorobenzene	87

Method 8015B*** for Gasoline

Analyzed by: DN

Date: 04/03/98

Danica Carman, Lab Director



Water Analysis
Phillip Environmental Services

FARMINGTON LABORATORY
807 S. CARLTON
FARMINGTON, NM 87499-1289
(505) 326-2588

Sample ID: MW-1
Matrix: Water
Lab ID: 9804001-08

Date Reported: 04/16/98
Date Sampled: 03/31/98
Date Received: 04/01/98

Parameter	Analytical Result	Units
-----------	-------------------	-------

General

TDS (calc)	580	mg/L
TDS (measured)	610	mg/L

Anions

Chloride	20	mg/L
----------	----	------

Organic Analysis

	Results	Detection Limit	Units
Benzene	1.8	1.0	µg/L
Toluene	10	1.0	µg/L
Ethylbenzene	ND	1.0	µg/L
Total Xylene	11	1.0	µg/L
Total Volatile Aromatic Hydrocarbons	22.8		µg/L

Surrogate

% Recovery

1,4-Difluorobenzene	93
4-Bromofluorobenzene	100

Method 8020A***

Analyzed by: DN

Date: 04/03/98

Gasoline Range Organics

ND	0.1	µg/L
----	-----	------

Surrogate

% Recovery

4-Bromofluorobenzene	100
1,4-Difluorobenzene	90

Method 8015B*** for Gasoline

Analyzed by: DN

Date: 04/03/98


Danica Carman, Lab Director

**FARMINGTON LABORATORY**807 S. CARLTON
FARMINGTON, NM 87499-1289
(505) 326-2588**Water Analysis**
Phillip Environmental ServicesSample ID: MW-2
Matrix: Water
Lab ID: 9804001-09Date Reported: 04/16/98
Date Sampled: 03/31/98
Date Received: 04/01/98

Parameter	Analytical Result	Units
-----------	-------------------	-------

General

TDS (calc)	1,090	mg/L
TDS (measured)	1,140	mg/L

Anions

Chloride	60.8	mg/L
----------	------	------

Organic Analysis

	Results	Detection Limit	Units
Benzene	ND	1.0	µg/L
Toluene	ND	1.0	µg/L
Ethylbenzene	ND	1.0	µg/L
Total Xylene	ND	1.0	µg/L
Total Volatile Aromatic Hydrocarbons	ND		µg/L

Surrogate**% Recovery**

1,4-Difluorobenzene	93
4-Bromofluorobenzene	100

Method 8020A***

Analyzed by: DN

Date: 04/03/98

Gasoline Range Organics

ND	0.1	µg/L
----	-----	------

Surrogate**% Recovery**

4-Bromofluorobenzene	97
1,4-Difluorobenzene	93

Method 8015B*** for Gasoline

Analyzed by: DN

Date: 04/03/98

Danica Carman, Lab Director

**FARMINGTON LABORATORY**807 S. CARLTON
FARMINGTON, NM 87499-1289
(505) 326-2588**Water Analysis**
Phillip Environmental ServicesSample ID: MW-3
Matrix: Water
Lab ID: 9804001-07Date Reported: 04/16/98
Date Sampled: 03/31/98
Date Received: 04/01/98

Parameter	Analytical Result	Units
-----------	-------------------	-------

General

TDS (calc)	520	mg/L
TDS (measured)	530	mg/L

Anions

Chloride	19.2	mg/L
----------	------	------

Organic Analysis

	Results	Detection Limit	Units
Benzene	ND	1.0	µg/L
Toluene	ND	1.0	µg/L
Ethylbenzene	ND	1.0	µg/L
Total Xylene	ND	1.0	µg/L
Total Volatile Aromatic Hydrocarbons	ND		µg/L

Surrogate	% Recovery
1,4-Difluorobenzene	93
4-Bromofluorobenzene	100

Method 8020A***

Analyzed by: DN

Date: 04/03/98

Gasoline Range Organics	ND	0.1	µg/L
-------------------------	----	-----	------

Surrogate	% Recovery
4-Bromofluorobenzene	107
1,4-Difluorobenzene	97

Method 8015B*** for Gasoline

Analyzed by: DN

Date: 04/03/98

Danica Carman, Lab Director



Water Analysis
Phillip Environmental Services

FARMINGTON LABORATORY

807 S. CARLTON
FARMINGTON, NM 87499-1289
(505) 326-2588

Sample ID: EB1
Matrix: Water
Lab ID: 9804001-01

Date Reported: 04/16/98
Date Sampled: 03/30/98
Date Received: 04/01/98

Parameter	Analytical Result	Units
-----------	-------------------	-------

General

TDS (calc)	30	mg/L
TDS (measured)	48	mg/L

Anions

Chloride	12.5	mg/L
----------	------	------

Organic Analysis

	Results	Detection Limit	Units
Benzene	ND	1.0	µg/L
Toluene	ND	1.0	µg/L
Ethylbenzene	ND	1.0	µg/L
Total Xylene	ND	1.0	µg/L
Total Volatile Aromatic Hydrocarbons	ND		µg/L

Surrogate

% Recovery

1,4-Difluorobenzene	93
4-Bromofluorobenzene	83

Method 8020A***

Analyzed by: DN

Date: 04/03/98

Gasoline Range Organics

ND	0.1	µg/L
----	-----	------

Surrogate

% Recovery

4-Bromofluorobenzene	83
1,4-Difluorobenzene	93

Method 8015B*** for Gasoline

Analyzed by: DN

Date: 04/03/98


Danica Carman, Lab Director



Water Analysis
Phillip Environmental Services

FARMINGTON LABORATORY

807 S. CARLTON
FARMINGTON, NM 87499-1289
(505) 326-2588

Sample ID: Trip Blank
Matrix: Water
Lab ID: 9804001-11

Date Reported: 04/16/98
Date Sampled: 03/30/98
Date Received: 04/01/98

Parameter	Analytical Result	Units
-----------	-------------------	-------

Organic Analysis

	Results	Detection Limit	Units
Benzene	ND	1.0	µg/L
Toluene	ND	1.0	µg/L
Ethylbenzene	ND	1.0	µg/L
Total Xylene	ND	1.0	µg/L
Total Volatile Aromatic Hydrocarbons	ND		µg/L

Surrogate

% Recovery

1,4-Difluorobenzene
4-Bromofluorobenzene

97
100

Method 8020A***

Analyzed by: DN

Date: 04/04/98

Gasoline Range Organics

ND

0.1

µg/L

Surrogate

% Recovery

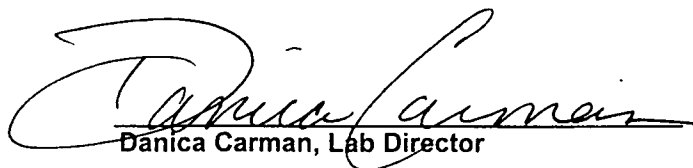
4-Bromofluorobenzene
1,4-Difluorobenzene

97
93

Method 8015B*** for Gasoline

Analyzed by: DN

Date: 04/04/98


Danica Carman, Lab Director

Larissa V. Forseth
Associate Engineer-Environmental
Environmental Engineering & Compliance

Natural Gas & Gas Products

Conoco Inc.
600 N. Dairy Ashford
P.O. Box 2197 - HU3038
Houston, TX 77252
(281) 293-3149

Certified Mail No. 365 861 358
Return Receipt Requested

RECEIVED
MAR 27 1998

MAR 27 1998

ENVIRONMENTAL
OIL CONSERVATION DIVISION

March 23, 1998

Mr. William C. Olson
Environmental Bureau
Energy, Minerals and Natural Resource Department
Oil Conservation District
P.O. Box 6429
Santa Fe, NM 87505

RE: Wingate Facility Semi-Annual Groundwater Sampling Results

Dear Mr. Olson:

Enclosed please find the results of groundwater samples taken at the Wingate fractionation facility in August 1997. Conoco NG&GP received these results from El Paso Energy last November.

Due to personnel changes within the department last year, the submittal of these data to your agency was inadvertently overlooked. Conoco sincerely apologizes for this oversight and assures you that future submittals will be handled in a more prudent manner.

If you have any questions, please contact me at (281) 293-3149. Thank you very much for your assistance.

Sincerely,

Larissa Forseth

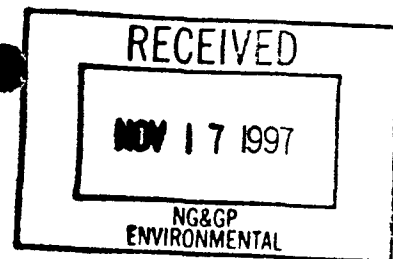
Larissa Forseth

Attachments

Cc: Alan Higginbotham, Wingate
ENV. 223-2-37

w/o attachments
Gerry Garibay
Sr. Environmental Scientist
El Paso Natural Gas
P.O. Box 1492
El Paso, TX 79978

Keith M. Boedecker
Sr. Staff Environmental Representative
Meridian Oil
3535 East 30th Street
Farmington, NM 87501



November 13, 1997

Terry
Ms. Kathy A. Kanocz
Conoco, Inc.
P.O. Box 2197, HU 3086
Houston, Texas 77525

**RE: Wingate Plant
Second Semiannual Ground Water Sampling**

Dear Ms. Kanocz:

Enclosed please find the above referenced analytical results for submittal to the New Mexico Oil Conservation Division (NMOCD). Ground water samples were collected from all on-site wells (WMW#1-5) and from three monitoring wells located off-site (MW#1-3) on August 26 and 27, 1997.

Water level measurements were taken on August 26 and 27, 1997. Ground water elevations for all monitoring wells were calculated using Top of Riser measurements, consistent with the data previously submitted to NMOCD. A potentiometric surface map is enclosed for submittal to NMOCD.

Please contact me at (713) 757-3827 if you have questions or comments.

Sincerely,

Gerry Garibay
Gerry Garibay
Senior Environmental Scientist
Environmental Remediation Department

Enclosure

Ms. Kathy A. Kanoz
Conoco, Inc.
November 13, 1997
Page 2

Copy with enclosures sent to:

cc: Keith M. Boedecker
Sr. Staff Environmental Representative
Meridian Oil, Inc.
3535 East 30th Street
Farmington, New Mexico 87501

**WINGATE PLANT
GROUNDWATER ELEVATIONS
August-97**

WELL NUMBER	TOP OF RISER ELEVATION	DEPTH TO WATER	GROUNDWATER ELEVATION
MW-1	6,584.66	3.67	6,580.99
MW-2	6,585.37	3.32	6,582.05
MW-3	6,589.84	3.10	6,586.74
WMW-1	6,596.04	4.53	6,591.51
WMW-2	6,593.69	3.72	6,589.97
WMW-3	6,593.91	6.76	6,587.15
WMW-4	6,594.50	6.10	6,588.40
WMW-5	NA	4.56	NA
Data provided in feet.			
Depth to Water data collected on August 26 and August 27, 1997.			

SAMPLE KEY

SAMPLE NUMBER: S97-0436 LOCATION: WINGATE PLANT
MATRIX: WATER
SAMPLE DESCRIPTION: BAILER BLANK BEFORE SAMPLING
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 08:20 SAMPLE DATE: 08/26/97

SAMPLE KEY

SAMPLE NUMBER: S97-0437 LOCATION: WINGATE PLANT
MATRIX: WATER
SAMPLE DESCRIPTION: EMP#2 BLANK BEFORE PURGING WELL'S
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 10:22 SAMPLE DATE: 08/26/97

SAMPLE KEY

SAMPLE NUMBER: S97-0438 LOCATION: WINGATE PLANT
MATRIX: WATER
SAMPLE DESCRIPTION: MONITOR WELL WMW#4
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 11:00 SAMPLE DATE: 08/26/97

SAMPLE KEY

SAMPLE NUMBER: S97-0439 LOCATION: WINGATE PLANT
MATRIX: WATER
SAMPLE DESCRIPTION: MONITOR WELL WMW#2
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 01:06 SAMPLE DATE: 08/26/97

SAMPLE KEY

SAMPLE NUMBER: S97-0440 LOCATION: WINGATE PLANT
MATRIX: WATER
SAMPLE DESCRIPTION: FIELD BLANK
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 01:15 SAMPLE DATE: 08/26/97

SAMPLE KEY

SAMPLE NUMBER: S97-0441 LOCATION: WINGATE PLANT
MATRIX: WATER
SAMPLE DESCRIPTION: MONITOR WELL WMW#5
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 02:12 SAMPLE DATE: 08/26/97

SAMPLE KEY

SAMPLE NUMBER: S97-0442 LOCATION: WINGATE PLANT
MATRIX: WATER
SAMPLE DESCRIPTION: MONITOR WELL WMW#1
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 03:00 SAMPLE DATE: 08/26/97

SAMPLE KEY

SAMPLE NUMBER: S97-0443 LOCATION: WINGATE PLANT
MATRIX: WATER
SAMPLE DESCRIPTION: MONITOR WELL WMW#1 DUPLICATE
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 03:00 SAMPLE DATE: 08/26/97

SAMPLE KEY

SAMPLE NUMBER: S97-0444 LOCATION: WINGATE PLANT
MATRIX: WATER
SAMPLE DESCRIPTION: MONITOR WELL WMW#3
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 04:45 SAMPLE DATE: 08/26/97

SAMPLE KEY

SAMPLE NUMBER: S97-0445 LOCATION: WINGATE PLANT
MATRIX: WATER
SAMPLE DESCRIPTION: BAILER BLANK MIDDLE OF SAMPLING
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 08:35 SAMPLE DATE: 08/27/97

SAMPLE KEY

SAMPLE NUMBER: S97-0446 LOCATION: WINGATE PLANT
MATRIX: WATER
SAMPLE DESCRIPTION: MONITOR WELL #MW3
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 09:05 SAMPLE DATE: 08/27/97

SAMPLE KEY

SAMPLE NUMBER: S97-0447 LOCATION: WINGATE PLANT
MATRIX: WATER
SAMPLE DESCRIPTION: MONITOR WELL #MW2
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 10:45 SAMPLE DATE: 08/27/97

SAMPLE KEY

SAMPLE NUMBER: S97-0448 LOCATION: WINGATE PLANT
MATRIX: WATER
SAMPLE DESCRIPTION: MONITOR WELL #MW1
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 01:45 SAMPLE DATE: 08/27/97

SAMPLE KEY

SAMPLE NUMBER: S97-0449 LOCATION: WINGATE PLANT
MATRIX: WATER
SAMPLE DESCRIPTION: EMP#2 AFTER PURGING WELL'S
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 01:52 SAMPLE DATE: 08/27/97

SAMPLE KEY

SAMPLE NUMBER: S97-0450 LOCATION: WINGATE PLANT
MATRIX: WATER
SAMPLE DESCRIPTION: BAILER BLANK AFTER SAMPLING WELL'S
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 02:00 SAMPLE DATE: 08/27/97



PARAGON ANALYTICS, INC.

225 Commerce Drive ♦ Fort Collins, CO 80524 ♦ (800) 443-1511 ♦ (970) 490-1511 ♦ FAX (970) 490-1522

September 18, 1997

Mr. Darrell Campbell
El Paso Natural Gas CO.
8645 Railroad Drive
El Paso, TX 79904

RE: Paragon Workorder: 97-08-335
Client Project Name: S97-0436
Client Project Number: Not Submitted

Dear Mr. Campbell:

Fifteen water samples were received from El Paso Natural Gas Co. on August 28, 1997. The samples were scheduled for Aromatic Volatiles analysis. The results for this analysis are contained in the enclosed report pages 1-21.

Thank you for your confidence in Paragon Analytics, Inc. Should you have any questions, please call.

Sincerely,

Paragon Analytics, Inc.
Victoria Bayly
Project Manager

VB/jjc
Enclosure: report



Paragon Analytics, Inc.

Aromatic Volatile Organics Case Narrative

El Paso Natural Gas Co.

S97-0436

Order Number - 9708335

1. This report consists of 15 water samples received by Paragon on 08/28/97.
2. These samples were prepared and analyzed according to SW-846, 3rd Edition procedures. Specifically, the water samples were prepared by heating and purging 5 mls using purge and trap procedures based on Method 5030. The calibration curve was also prepared using the heated purge.
3. The samples were analyzed using a GC with a DB-VRX capillary column and a PID detector according to protocols based on SW-846 Method 8020. All positive results were quantitated using the responses from the initial calibration curve using the internal standard technique. Second column confirmation was performed on all samples with positive results on a DB-624 capillary column.
4. All samples with the exception of 9708335-3, -4, and -6 were analyzed within the established holding times. The samples were originally analyzed within holding times but could not be reported due to failed continuing calibration standards. Samples 4 and 6 had confirmation data that was also run within holding times. All values for the re-analysis of the samples compared with the original and/or confirmation analysis. Only the re-analysis data was reported.
5. The method blanks associated with this project were below the reporting limits for all analytes.
6. All matrix spike and matrix spike duplicate criteria were met with the following exceptions.



Spike Compound
M,P-Xylene

Sample
9708335-13MS

Criteria
%Recovery

The recoveries of this compound in the blank spike and blank spike duplicate were within control limits, which demonstrated the spike outliers in the matrix spikes were due to matrix effects, so no further action is needed. Blank spike and blank spike duplicate results are included.

7. All blank spike and blank spike duplicate recoveries and RPDs were within the acceptance criteria.
8. All surrogate recoveries were within acceptance criteria.
9. All internal standard recoveries were within acceptance criteria.
10. Due to high levels of target analytes sample 9708335-4 was analyzed at a higher dilution. The reporting limits have been adjusted accordingly.
11. All initial and continuing calibration criteria were within acceptance criteria.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, Paragon Analytics, Inc. certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.

Roland P. Bruggeman
Roland P. Bruggeman
Organics Manager

9-18-97
Date

WS
Reviewer's Initials

9-18-97
Date

Paragon Analytics, Inc.

SAMPLE NUMBER(S) CROSS-REFERENCE TABLE

Client Name: El Paso Natural Gas Co.

Client Project ID: S97-0436

PAI-ID	Client ID	MATRIX	DATE
			SAMPLED
9708335-1	S97-0436	Water	08/26/97
9708335-2	S97-0437	Water	08/26/97
9708335-3	S97-0438	Water	08/26/97
9708335-4	S97-0439	Water	08/26/97
9708335-5	S97-0440	Water	08/26/97
9708335-6	S97-0441	Water	08/26/97
9708335-7	S97-0442	Water	08/26/97
9708335-8	S97-0443	Water	08/26/97
9708335-9	S97-0444	Water	08/26/97
9708335-10	S97-0445	Water	08/27/97
9708335-11	S97-0446	Water	08/27/97
9708335-12	S97-0447	Water	08/27/97
9708335-13	S97-0448	Water	08/27/97
9708335-14	S97-0449	Water	08/27/97
9708335-15	S97-0450	Water	08/27/97

000003

AROMATIC VOLATILE ORGANICS

Method 8020

Sample ID

Lab Name: Paragon Analytics, Inc.
Client Name: El Paso Natural Gas Co.
Client Project ID: S97-0436

Reagent Blank

Lab Sample ID: WRB1 09/03/97

Date Collected: N/A
Date Extracted: 9/03/97
Date Analyzed: 9/03/97

Sample Matrix: Water

Sample Volume: 5 mL
Dilution Factor: 1

Analyte	Conc (ug/L)	Reporting Limit (ug/L)
Benzene	ND	0.50
Toluene	ND	0.50
Ethylbenzene	ND	0.50
M,P-Xylene	ND	1.0
O-Xylene	ND	0.50
Total Xylenes	ND	1.0

SURROGATE RECOVERY

Analyte	% Recovery	% Rec Limits
2,3,4-Trifluorotoluene	99	88 - 119

ND = Not Detected at or above client requested reporting limit.

000004

AROMATIC VOLATILE ORGANICS

Method 8020

Sample ID

S97-0436

Lab Name: Paragon Analytics, Inc.
Client Name: El Paso Natural Gas Co.
Client Project ID: S97-0436

Lab Sample ID: 9708335-1

Date Collected: 8/26/97
Date Extracted: 9/03/97
Date Analyzed: 9/03/97

Sample Matrix: Water

Sample Volume: 5 mL
Dilution Factor: 1

Analyte	Conc (ug/L)	Reporting Limit (ug/L)
Benzene	ND	0.50
Toluene	ND	0.50
Ethylbenzene	ND	0.50
M,P-Xylene	ND	1.0
O-Xylene	ND	0.50
Total Xylenes	ND	1.0

SURROGATE RECOVERY

Analyte	% Recovery	% Rec Limits
2,3,4-Trifluorotoluene	98	88 - 119

ND = Not Detected at or above client requested reporting limit.

000005

AROMATIC VOLATILE ORGANICS

Method 8020

Sample ID

Lab Name: Paragon Analytics, Inc.
Client Name: El Paso Natural Gas Co.
Client Project ID: S97-0436

S97-0437

Lab Sample ID: 9708335-2

Date Collected: 8/26/97

Date Extracted: 9/03/97

Date Analyzed: 9/03/97

Sample Matrix: Water

Sample Volume: 5 mL

Dilution Factor: 1

Analyte	Conc (ug/L)	Reporting Limit (ug/L)
Benzene	ND	0.50
Toluene	ND	0.50
Ethylbenzene	ND	0.50
M,P-Xylene	ND	1.0
O-Xylene	ND	0.50
Total Xylenes	ND	1.0

SURROGATE RECOVERY

Analyte	% Recovery	% Rec Limits
2,3,4-Trifluorotoluene	100	88 - 119

ND = Not Detected at or above client requested reporting limit.

000006

AROMATIC VOLATILE ORGANICS

Method 8020

Sample ID

Lab Name: Paragon Analytics, Inc.
Client Name: El Paso Natural Gas Co.
Client Project ID: S97-0436

S97-0438

Lab Sample ID: 9708335-3

Date Collected: 8/26/97

Date Extracted: 9/03/97

Date Analyzed: 9/03/97

Sample Matrix: Water

Sample Volume: 5 mL

Dilution Factor: 1

Analyte	Conc (ug/L)	Reporting Limit (ug/L)
Benzene	ND	0.50
Toluene	ND	0.50
Ethylbenzene	ND	0.50
M,P-Xylene	ND	1.0
O-Xylene	ND	0.50
Total Xylenes	ND	1.0

SURROGATE RECOVERY

Analyte	% Recovery	% Rec Limits
2,3,4-Trifluorotoluene	99	88 - 119

ND = Not Detected at or above client requested reporting limit.

AROMATIC VOLATILE ORGANICS

Method 8020

Sample ID

Lab Name: Paragon Analytics, Inc.
Client Name: El Paso Natural Gas Co.
Client Project ID: S97-0436

S97-0439

Lab Sample ID: 9708335-4

Date Collected: 8/26/97

Date Extracted: 9/03/97

Date Analyzed: 9/03/97

Sample Matrix: Water

Sample Volume: 5 mL

Dilution Factor: 100

Analyte	Conc (ug/L)	Reporting Limit (ug/L)
Benzene	26,000	50
Toluene	1,600	50
Ethylbenzene	130	50
M,P-Xylene	810	100
O-Xylene	240	50
Total Xylenes	1,100	100

SURROGATE RECOVERY

Analyte	% Recovery	% Rec Limits
2,3,4-Trifluorotoluene	101	88 - 119

ND = Not Detected at or above client requested reporting limit.

000008

AROMATIC VOLATILE ORGANICS

Method 8020

Sample ID

S97-0440

Lab Name: Paragon Analytics, Inc.

Client Name: El Paso Natural Gas Co.

Client Project ID: S97-0436

Lab Sample ID: 9708335-5

Date Collected: 8/26/97

Date Extracted: 9/03/97

Date Analyzed: 9/03/97

Sample Matrix: Water

Sample Volume: 5 mL

Dilution Factor: 1

Analyte	Conc (ug/L)	Reporting Limit (ug/L)
Benzene	ND	0.50
Toluene	ND	0.50
Ethylbenzene	ND	0.50
M,P-Xylene	ND	1.0
O-Xylene	ND	0.50
Total Xylenes	ND	1.0

SURROGATE RECOVERY

Analyte	% Recovery	% Rec Limits
2,3,4-Trifluorotoluene	97	88 - 119

ND = Not Detected at or above client requested reporting limit.

000009

AROMATIC VOLATILE ORGANICS

Method 8020

Sample ID

Lab Name: Paragon Analytics, Inc.
Client Name: El Paso Natural Gas Co.
Client Project ID: S97-0436

S97-0441

Lab Sample ID: 9708335-6

Date Collected: 8/26/97
Date Extracted: 9/03/97
Date Analyzed: 9/03/97

Sample Matrix: Water

Sample Volume: 5 mL
Dilution Factor: 1

Analyte	Conc (ug/L)	Reporting Limit (ug/L)
Benzene	0.94	0.50
Toluene	ND	0.50
Ethylbenzene	ND	0.50
M,P-Xylene	ND	1.0
O-Xylene	ND	0.50
Total Xylenes	ND	1.0

SURROGATE RECOVERY

Analyte	% Recovery	% Rec Limits
2,3,4-Trifluorotoluene	101	88 - 119

ND = Not Detected at or above client requested reporting limit.

000010

AROMATIC VOLATILE ORGANICS

Method 8020

Sample ID

S97-0442

Lab Name: Paragon Analytics, Inc.
Client Name: El Paso Natural Gas Co.
Client Project ID: S97-0436

Lab Sample ID: 9708335-7

Date Collected: 8/26/97
Date Extracted: 9/03/97
Date Analyzed: 9/03/97

Sample Matrix: Water

Sample Volume: 5 mL
Dilution Factor: 1

Analyte	Conc (ug/L)	Reporting Limit (ug/L)
Benzene	ND	0.50
Toluene	ND	0.50
Ethylbenzene	ND	0.50
M,P-Xylene	ND	1.0
O-Xylene	ND	0.50
Total Xylenes	ND	1.0

SURROGATE RECOVERY

Analyte	% Recovery	% Rec Limits
2,3,4-Trifluorotoluene	100	88 - 119

ND = Not Detected at or above client requested reporting limit.

000011

AROMATIC VOLATILE ORGANICS

Method 8020

Sample ID

S97-0443

Lab Name: Paragon Analytics, Inc.

Client Name: El Paso Natural Gas Co.

Client Project ID: S97-0436

Lab Sample ID: 9708335-8

Date Collected: 8/26/97

Date Extracted: 9/03/97

Date Analyzed: 9/03/97

Sample Matrix: Water

Sample Volume: 5 mL

Dilution Factor: 1

Analyte	Conc (ug/L)	Reporting Limit (ug/L)
Benzene	ND	0.50
Toluene	ND	0.50
Ethylbenzene	ND	0.50
M,P-Xylene	ND	1.0
O-Xylene	ND	0.50
Total Xylenes	ND	1.0

SURROGATE RECOVERY

Analyte	% Recovery	% Rec Limits
2,3,4-Trifluorotoluene	102	88 - 119

ND = Not Detected at or above client requested reporting limit.

000012

AROMATIC VOLATILE ORGANICS

Method 8020

Sample ID

S97-0444

Lab Name: Paragon Analytics, Inc.
Client Name: El Paso Natural Gas Co.
Client Project ID: S97-0436

Lab Sample ID: 9708335-9

Date Collected: 8/26/97
Date Extracted: 9/03/97
Date Analyzed: 9/03/97

Sample Matrix: Water

Sample Volume: 5 mL
Dilution Factor: 1

Analyte	Conc (ug/L)	Reporting Limit (ug/L)
Benzene	ND	0.50
Toluene	ND	0.50
Ethylbenzene	ND	0.50
M,P-Xylene	ND	1.0
O-Xylene	ND	0.50
Total Xylenes	ND	1.0

SURROGATE RECOVERY

Analyte	% Recovery	% Rec Limits
2,3,4-Trifluorotoluene	100	88 - 119

ND = Not Detected at or above client requested reporting limit.

000013

Bailer blank
middle of sample

AROMATIC VOLATILE ORGANICS

Method 8020

Sample ID

S97-0445

Lab Name: Paragon Analytics, Inc.

Client Name: El Paso Natural Gas Co.

Client Project ID: S97-0436

Lab Sample ID: 9708335-10

Date Collected: 8/27/97

Date Extracted: 9/03/97

Date Analyzed: 9/03/97

Sample Matrix: Water

Sample Volume: 5 mL

Dilution Factor: 1

Analyte	Conc (ug/L)	Reporting Limit (ug/L)
Benzene	ND	0.50
Toluene	ND	0.50
Ethylbenzene	ND	0.50
M,P-Xylene	ND	1.0
O-Xylene	ND	0.50
Total Xylenes	ND	1.0

SURROGATE RECOVERY

Analyte	% Recovery	% Rec Limits
2,3,4-Trifluorotoluene	98	88 - 119

ND = Not Detected at or above client requested reporting limit.

000014

AROMATIC VOLATILE ORGANICS

Method 8020

Sample ID

Lab Name: Paragon Analytics, Inc.
Client Name: El Paso Natural Gas Co.
Client Project ID: S97-0436

S97-0446

Lab Sample ID: 9708335-11

Date Collected: 8/27/97

Date Extracted: 9/03/97

Date Analyzed: 9/04/97

Sample Matrix: Water

Sample Volume: 5 mL

Dilution Factor: 1

Analyte	Conc (ug/L)	Reporting Limit (ug/L)
Benzene	ND	0.50
Toluene	ND	0.50
Ethylbenzene	ND	0.50
M,P-Xylene	ND	1.0
O-Xylene	ND	0.50
Total Xylenes	ND	1.0

SURROGATE RECOVERY

Analyte	% Recovery	% Rec Limits
2,3,4-Trifluorotoluene	100	88 - 119

ND = Not Detected at or above client requested reporting limit.

000015

MW-2

AROMATIC VOLATILE ORGANICS

Method 8020

Sample ID

S97-0447

Lab Name: Paragon Analytics, Inc.
Client Name: El Paso Natural Gas Co.
Client Project ID: S97-0436

Lab Sample ID: 9708335-12

Date Collected: 8/27/97
Date Extracted: 9/03/97
Date Analyzed: 9/04/97

Sample Matrix: Water

Sample Volume: 5 mL
Dilution Factor: 1

Analyte	Conc (ug/L)	Reporting Limit (ug/L)
Benzene	ND	0.50
Toluene	ND	0.50
Ethylbenzene	ND	0.50
M,P-Xylene	ND	1.0
O-Xylene	ND	0.50
Total Xylenes	ND	1.0

SURROGATE RECOVERY

Analyte	% Recovery	% Rec Limits
2,3,4-Trifluorotoluene	101	88 - 119

ND = Not Detected at or above client requested reporting limit.

000016

AROMATIC VOLATILE ORGANICS

Method 8020

Sample ID

S97-0448

Lab Name: Paragon Analytics, Inc.

Client Name: El Paso Natural Gas Co.

Client Project ID: S97-0436

Lab Sample ID: 9708335-13

Date Collected: 8/27/97

Date Extracted: 9/03/97

Date Analyzed: 9/03/97

Sample Matrix: Water

Sample Volume: 5 mL

Dilution Factor: 1

Analyte	Conc (ug/L)	Reporting Limit (ug/L)
Benzene	ND	0.50
Toluene	ND	0.50
Ethylbenzene	ND	0.50
M,P-Xylene	ND	1.0
O-Xylene	ND	0.50
Total Xylenes	ND	1.0

SURROGATE RECOVERY

Analyte	% Recovery	% Rec Limits
2,3,4-Trifluorotoluene	101	88 - 119

ND = Not Detected at or above client requested reporting limit.

000017

After purging wells

AROMATIC VOLATILE ORGANICS

Method 8020

Sample ID

S97-0449

Lab Name: Paragon Analytics, Inc.

Client Name: El Paso Natural Gas Co.

Client Project ID: S97-0436

Lab Sample ID: 9708335-14

Date Collected: 8/27/97

Date Extracted: 9/03/97

Date Analyzed: 9/04/97

Sample Matrix: Water

Sample Volume: 5 mL

Dilution Factor: 1

Analyte	Conc (ug/L)	Reporting Limit (ug/L)
Benzene	ND	0.50
Toluene	ND	0.50
Ethylbenzene	ND	0.50
M,P-Xylene	ND	1.0
O-Xylene	ND	0.50
Total Xylenes	ND	1.0

SURROGATE RECOVERY

Analyte	% Recovery	% Rec Limits
2,3,4-Trifluorotoluene	99	88 - 119

ND = Not Detected at or above client requested reporting limit.

000018

Bailer blank after
sampling wells

AROMATIC VOLATILE ORGANICS

Method 8020

Sample ID

Lab Name: Paragon Analytics, Inc.
Client Name: El Paso Natural Gas Co.
Client Project ID: S97-0436

S97-0450

Lab Sample ID: 9708335-15

Date Collected: 8/27/97
Date Extracted: 9/03/97
Date Analyzed: 9/04/97

Sample Matrix: Water

Sample Volume: 5 mL
Dilution Factor: 1

Analyte	Conc (ug/L)	Reporting Limit (ug/L)
Benzene	ND	0.50
Toluene	ND	0.50
Ethylbenzene	ND	0.50
M,P-Xylene	ND	1.0
O-Xylene	ND	0.50
Total Xylenes	ND	1.0

SURROGATE RECOVERY

Analyte	% Recovery	% Rec Limits
2,3,4-Trifluorotoluene	98	88 - 119

ND = Not Detected at or above client requested reporting limit.

0000'9

AROMATIC VOLATILE ORGANICS BLANK SPIKE

Method 8020

Sample ID

Blank Spike

Lab Name: Paragon Analytics, Inc.

Client Name: El Paso Natural Gas Co.

Client Project ID: S97-0436

Lab Sample ID: WBS1 09/03/97

Date Extracted: 9/03/97

Date Analyzed: 9/03/97

Sample Matrix: Water

Sample Volume: 5 mL

Analyte	Spike Added (ug/L)	BS Concentration (ug/L)	BS Percent Recovery	QC Limits % Rec
Benzene	40.0	41.3	103	85 - 115
Toluene	40.0	42.2	106	85 - 115
Ethylbenzene	40.0	42.7	107	85 - 115
M,P-Xylene	80.0	91.5	114	85 - 115
O-Xylene	40.0	43.4	108	85 - 115
Total Xylenes	120	135	112	85 - 115

Analyte	Spike Added (ug/L)	BSD Concentration (ug/L)	BSD Percent Recovery	RPD	QC Limits RPD
Benzene	40.0	40.1	100	3	20
Toluene	40.0	40.9	102	3	20
Ethylbenzene	40.0	41.8	105	2	20
M,P-Xylene	80.0	89.5	112	2	20
O-Xylene	40.0	42.2	106	3	20
Total Xylenes	120	132	110	2	20

SURROGATE RECOVERY BS/BSD

Analyte	% Recovery BS	% Recovery BSD	% Rec Limits
2,3,4-Trifluorotoluene	101	99	88 - 119

D = Detected

000020

AROMATIC VOLATILE ORGANICS MATRIX SPIKE

Method 8020

Sample ID

S97-0448

Lab Name: Paragon Analytics, Inc.
Client Name: El Paso Natural Gas Co.
Client Project ID: S97-0436

Lab Sample ID: 9708335-13MS

Sample Matrix: Water

Date Collected: 8/27/97

Date Extracted: 9/03/97

Date Analyzed: 9/03/97

Sample Volume: 5 mL

Dilution Factor: 1

Analyte	Spike Added (ug/L)	Sample Concentration (ug/L)	MS Concentration (ug/L)	MS Percent Recovery	QC Limits % Rec
Benzene	40.0	ND	41.8	105	85 - 115
Toluene	40.0	ND	42.6	106	85 - 115
Ethylbenzene	40.0	ND	43.5	109	85 - 115
M,P-Xylene	80.0	ND	93.6	117 *	85 - 115
O-Xylene	40.0	ND	43.7	109	85 - 115
Total Xylenes	120	ND	137	114	85 - 115

Analyte	Spike Added (ug/L)	MSD Concentration (ug/L)	MSD Percent Recovery	RPD	QC Limits RPD
Benzene	40.0	40.6	101	3	20
Toluene	40.0	41.2	103	3	20
Ethylbenzene	40.0	42.1	105	3	20
M,P-Xylene	80.0	91.4	114	2	20
O-Xylene	40.0	43.1	108	1	20
Total Xylenes	120	135	112	2	20

SURROGATE RECOVERY MS/MSD

Analyte	% Recovery MS	% Recovery MSD	% Rec Limits
2,3,4-Trifluorotoluene	102	99	88 - 119

ND = Not Detected

000021

PROJECT NUMBER		PROJECT NAME			TOTAL NUMBER OF CONTAINERS	COMPOSITE OR GRAB	REQUESTED ANALYSIS					CONTRACT LABORATORY P. O. NUMBER		
SAMPLERS (Signature)		DATE												
LAB ID	DATE	TIME	MATRIX	SAMPLE NUMBER			BTEX					REMARKS		
01	8/26/97	0800	H ₂ O	597-0436	2		X							
02	8/26/97	1000	H ₂ O	597-0437	2		X							
03	8/26/97	1100	H ₂ O	597-0438	2		X					"NO HCl added to sample's"		
04	8/26/97	1300	H ₂ O	597-0439	2		X					"NO HCl added to sample's"		
05	8/26/97	1315	H ₂ O	597-0440	2		X							
06	8/26/97	1412	H ₂ O	597-0441	2		X					"NO HCl added to sample's"		
07	8/26/97	1500	H ₂ O	597-0442	2		X							
08	8/26/97	1500	H ₂ O	597-0443	2		X							
09	8/26/97	1645	H ₂ O	597-0444	2		X							
RELEINQUISHED BY: (Signature) 8/27/97 1600 RECEIVED BY: (Signature) FDX RELEINQUISHED BY: (Signature) FDX RECEIVED BY: (Signature) 8/27/97 100														
REQUESTED TURNAROUND TIME ☐ ROUTINE ☐ RUSH					SAMPLE RECEIPT REMARKS 					RESULTS & INVOICES TO: 				
CARRIER CO.					CHARGE CODE					TRANSMISSION OPERATIONS LABORATORY EL PASO NATURAL GAS COMPANY 8645 RAILROAD DRIVE EL PASO, TEXAS 79904 915-759-2229 FAX: 915-759-2335				
BILL NO.:														

CONDITION OF SAMPLE UPON RECEIPT

CLIENT: EPAGSHIPPING CONTAINER #: C-1212WORKORDER NO. 970835INITIALS: JSDATE: 8/29/97

1.	Does this project require special handling according to NEESA, Level 3, or CLP protocols? If yes, complete a. and b. a. Cooler Temperature _____ b. Lot No's. _____ c. Airbill Number _____	Yes	<u>No</u>
2.	Are custody seals on the cooler intact? If so, how many _____	<u>N/A</u>	Yes No
3.	Are custody seals on sample containers intact? _____	<u>N/A</u>	Yes No
4.	Is there a Chain of Custody (COC) or other representative documents, letters or shipping memos?	<u>Yes</u>	No
5.	Is the COC complete? Relinquished: Yes <u>No</u> Requested Analysis: Yes <u>No</u>	<u>N/A</u>	<u>Yes</u> No
6.	Is the COC in agreement with the samples received? No. of Samples: Yes <u>No</u> Sample ID's: Yes <u>No</u> Matrix: Yes <u>No</u> No. of Containers: Yes <u>No</u>	<u>Yes</u>	No
7.	Are the samples requiring chemical preservation preserved correctly? _____	<u>N/A</u>	Yes <u>No</u>
8.	Is there enough sample? If so, are they in the proper containers?	<u>Yes</u>	No
9.	Are all samples within holding times for the requested analyses?	<u>Yes</u>	No
10.	Were the sample(s) shipped on ice? _____	<u>N/A</u>	<u>Yes</u> No
11.	Were all sample containers received intact? (not broken or leaking, etc.) _____	<u>Yes</u>	No
12.	Are samples requiring no headspace, headspace free? _____	<u>N/A</u>	<u>Yes</u> No
13.	Do the samples require quarantine?	Yes	<u>No</u>
14.	Do samples require Paragon disposal?	<u>Yes</u>	No
15.	Did the client return any unused bottles?	Yes	<u>No</u>

Describe "NO" items (except No's 1, 13, & 14): (7) - Samples 03, 04, & 13 not preserved according to COC

Was the client contacted? Yes _____ No _____
If yes, Date: _____ Name of person contacted: _____

Describe actions taken or client instructions: _____

Group Leader's Signature: _____ Date: _____

Cooler Temperature: 21°C

**WINGATE PLANT
ANALYTICAL RESULTS**

SAMPLE DATE	WELL ID	Sampled by	Benzene	Toluene	Ethylbenzene	Total Xylenes	Gasoline	TPH	TDS	Chloride
			µg/L	µg/L	µg/L	µg/L		µg/L		
		Standard	10 µg/L	750 µg/L	750 µg/L	620 µg/L			1000	250
		MCLs	5 µg/L	1000 µg/L	700 µg/L	10000 µg/L				
11/15/91	MW-01	MOI	ND	ND	ND	ND	-	ND		
01/22/92	MW-01	MOI	ND	ND	ND	ND	-	-		
02/25/93	MW-01	MOI	19.0	2.7	ND	ND	-	-		
01/22/92	MW-01	EPNG	<0.5	<0.5	<0.5	<0.5	-	-		
01/93	MW-01	EPNG	-	-	-	-	-	-		
04/28/92	MW-01	EPNG	<1.0	<1.0	<1.0	<1.0	<100	-		
04/06/93	MW-01	EPNG	ND	ND	ND	ND	-	-		
01/06/94	MW-01	EPNG	1.5	1.5	1.2	3.6				
09/14/94	MW-01	EPNG	<0.5	<0.5	<0.5	<1.0				
09/14/94	MW-01D	EPNG	<0.5	<0.5	1.4	1.1				
03/01/95	MW-01	MOI	<0.3	<0.3	<0.3	<0.6		<0.3	535	20.4
08/22/95	MW-01	EPNG	ND	87	9	49				
03/27/96	MW-01	MOI	ND	ND	ND	ND		ND	690	22.5
03/27/96	MW-01D	MOI	ND	ND	ND	ND		ND	650	25
08/27/96	MW-01	EPNG	ND	ND	ND	ND				
08/27/97	MW-01	EPNG	ND	ND	ND	ND				
11/15/91	MW-02	MOI	ND	ND	ND	0.1	-	2.6		
01/22/92	MW-02	MOI	ND	ND	ND	ND	-	-		
02/25/93	MW-02	MOI	ND	ND	ND	ND	-	-		
01/22/92	MW-02	EPNG	<0.5	<0.5	<0.5	<0.5	-	-		
04/28/92	MW-02	EPNG	0.002	<1.0	<1.0	<1.0	<100	-		
01/93	MW-02	EPNG	-	-	-	-	-	-		
04/06/93	MW-02	EPNG	2.0	2.0	ND	1.0	-	-		
09/14/94	MW-02	EPNG	<0.5	<0.5	<0.5	<1.0				
03/01/95	MW-02	MOI	<0.3	<0.3	<0.3	<0.6		<0.3	1030	57
08/22/95	MW-02	EPNG	ND	ND	ND	ND				
03/27/96	MW-02	MOI	ND	ND	ND	ND		ND	1120	53.7
08/27/96	MW-02	EPNG	ND	ND	ND	ND				
08/27/97	MW-02	EPNG	ND	ND	ND	ND				
01/15/91	MW-03	MOI	0.2	0.2	0.4	1.7	ND	-		
01/21/92	MW-03	MOI	ND	3.9	0.6	4.4	-	-		
02/25/93	MW-03	MOI	ND	ND	ND	ND	-	-		
01/92	MW-03	EPNG	-	-	-	-	-	-		

**WINGATE PLANT
ANALYTICAL RESULTS**

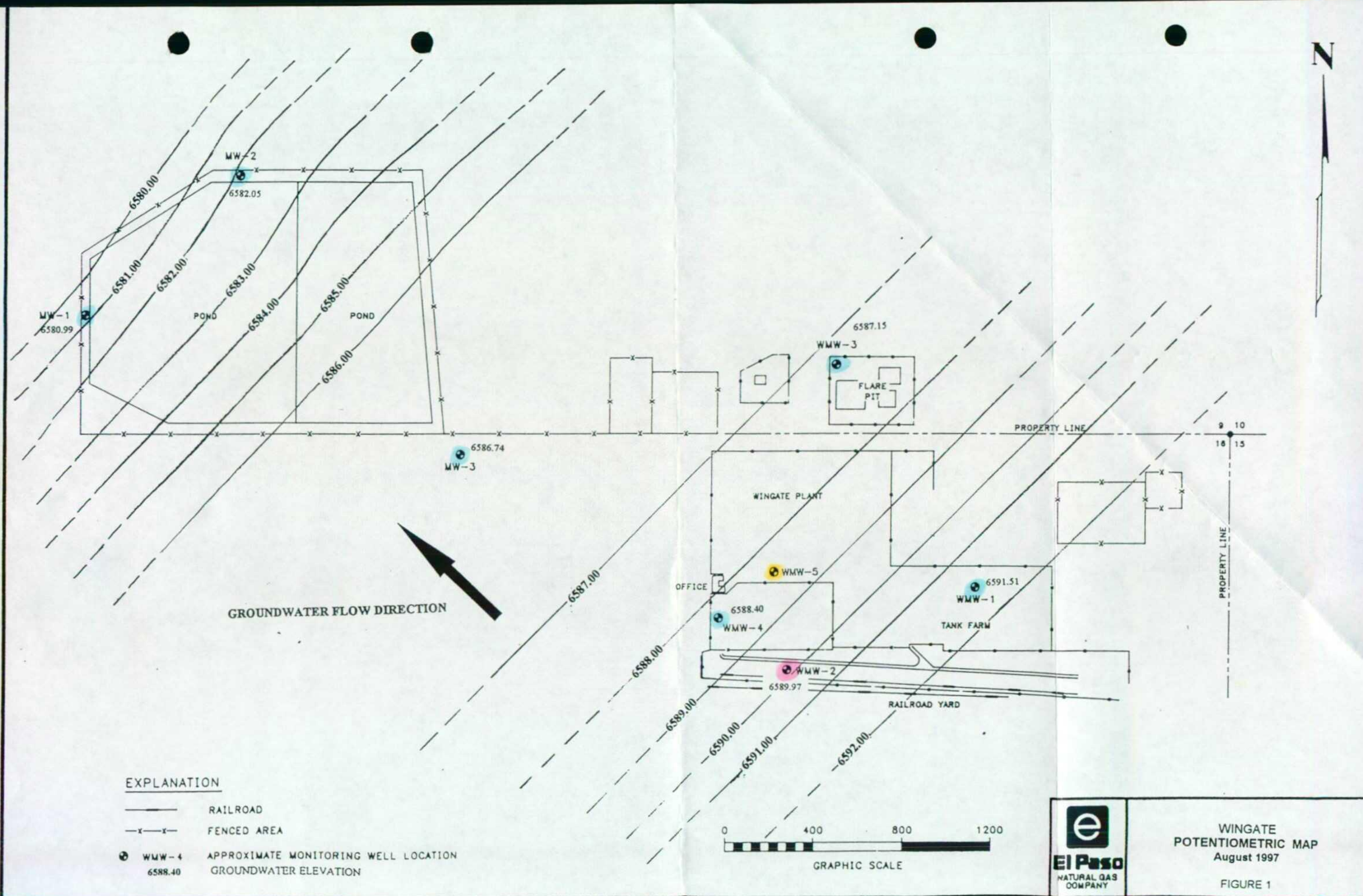
SAMPLE DATE	WELL ID	Sampled by	Benzene	Toluene	Ethylbenzene	Total Xylenes	Gasoline	TPH	TDS	Chloride
			µg/L	µg/L	µg/L	µg/L		µg/L		
		Standard	10 µg/L	750 µg/L	750 µg/L	620 µg/L			1000	250
		MCLs	5 µg/L	1000 µg/L	700 µg/L	10000 µg/L				
04/28/92	MW-03	EPNG	<1.0	<1.0	<1.0	<1.0	<100	-		
01/12/93	MW-03	EPNG	<1.0	2.0	<1.0	<1.0	-	-		
04/06/93	MW-03	EPNG	ND	ND	ND	ND	-	-		
01/06/94	MW-03	EPNG	46	1.4	3.5	4.7				
01/06/94	MW-03	EPNG	1.5	1.4	1.2	3.4				
09/14/94	MW-03	EPNG	2	<0.5	<0.5	<1.0				
09/14/94	MW-03D	EPNG	1.4	<0.5	<0.5	<1.0				
03/01/95	MW-03	MOI	<0.3	<0.3	<0.3	<0.6		<0.3	481	18.7
08/22/95	MW-03	EPNG	ND	ND	ND	ND				
03/28/96	MW-03	MOI	ND	ND	ND	ND		ND	540	23.7
08/28/96	MW-03	EPNG	ND	ND	ND	ND				
08/27/97	MW-03	EPNG	ND	ND	ND	ND				
07/10/91	WMW-01	MOI	ND	ND	ND	ND	-	9.5		
10/28/91	WMW-01	MOI	ND	ND	ND	ND	-	ND		
01/21/92	WMW-01	MOI	ND	1.3	8.2	7.9	-	-		
02/25/93	WMW-01	MOI	ND	ND	ND	ND	-	-		
02/05/92	WMW-01	EPNG	<0.5	<0.5	<0.5	<0.5	-	-		
04/29/92	WMW-01	EPNG	<1.0	<1.0	<1.0	<1.0	<100	-		
01/13/93	WMW-01	EPNG	<1.0	1.0	<1.0	<1.0	-	-		
04/07/93	WMW-01	EPNG	2.0	2.0	ND	1.0	-	-		
01/05/94	WMW-01	EPNG	3.8	1.2	1.8	3.9				
09/14/94	WMW-01	EPNG	2	<0.5	1	<1.0				
03/01/95	WMW-01	MOI	<0.3	<0.3	<0.3	<0.6		<0.3	4350	655
08/23/95	WMW-01	EPNG	ND	ND	ND	ND				
03/28/96	WMW-01	MOI	ND	ND	ND	ND		ND	3690	472
08/28/96	WMW-01	EPNG	ND	ND	ND	ND				
08/26/97	WMW-01	EPNG	ND	ND	ND	ND				
08/26/97	WMW-01D	EPNG	ND	ND	ND	ND				
07/10/91	WMW-02	MOI	26800	6800	ND	1145	-	191,000		
09/01/91	WMW-02	MOI	5400	-	5400	1127	-	38,500	3050	732
10/28/91	WMW-02	MOI	5700	5300	164	1067	-	4,000		
11/01/91	WMW-02	MOI	2520	1610	990	-	-	6,800		
12/04/91	WMW-02	MOI	2520	1610	990	374	-	6,663		

**WINGATE PLANT
ANALYTICAL RESULTS**

SAMPLE DATE	WELL ID	Sampled by	Benzene	Toluene	Ethylbenzene	Total Xylenes	Gasoline	TPH	TDS	Chloride
			µg/L	µg/L	µg/L	µg/L		µg/L		
		Standard	10 µg/L	750 µg/L	750 µg/L	620 µg/L			1000	250
		MCLs	5 µg/L	1000 µg/L	700 µg/L	10000 µg/L				
12/31/91	WMW-02	MOI	2540	1600	2090	1900	-	18,460		
02/25/93	WMW-02	MOI	37000	3300	180	1230	-	-		
01/21/92	WMW-02	EPNG	3090	1320	129	1020	-	-		
02/06/92	WMW-02	EPNG	30000	6000	<500	<500	-	-		
04/29/92	WMW-02	EPNG	3700	2300	73	510	30000	-		
01/12/93	WMW-02	EPNG	30000	3300	40	400	-	-		
04/07/93	WMW-02	EPNG	37000	4200	120	980	-	-		
01/05/94	WMW-02	EPNG	17000	2500	200	990				
09/13/94	WMW-02	EPNG	35000	46	5000	640				
09/13/94	WMW-02D	EPNG	28000	66	4100	900				
03/01/95	WMW-02	MOI	12300	478	<200	<300		34.5	3200	819
08/23/95	WMW-02	EPNG	35000	3100	160	1110				
03/28/96	WMW-02	MOI	29800	3100	132	994		9.33	2450	500
08/28/96	WMW-02	EPNG	29000	3300	180	1420				
08/26/97	WMW-02	EPNG	26000	1600	130	1100				
07/10/91	WMW-03	MOI	ND	ND	ND	ND	-	7.8		
10/28/91	WMW-03	MOI	3.1	ND	ND	ND	-	ND		
01/22/92	WMW-03	MOI	44.3	18.3	1.3	7.7	-	-		
02/25/93	WMW-03	MOI	ND	ND	ND	ND	-	-		
01/22/92	WMW-03	EPNG	1.2	<0.5	<0.5	<0.5	-	-		
04/29/92	WMW-03	EPNG	<1.0	<1.0	<1.0	<1.0	<100	-		
01/13/93	WMW-03	EPNG	14.0	3.0	<1.0	<1.0	-	-		
04/07/93	WMW-03	EPNG	ND	1.0	ND	ND	-	-		
01/05/94	WMW-03	EPNG	1.8	1.1	1.3	3.5				
09/13/94	WMW-03	EPNG	<0.5	<0.5	<0.5	<1.0				
01/05/94	WMW-03	EPNG	1.8	1.1	1.3	3.5				
09/13/94	WMW-03	EPNG	<0.5	<0.5	<0.5	<1.0				
03/01/95	WMW-03	MOI	<0.3	<0.3	<0.3	<0.6		<0.3	4970	961
08/22/95	WMW-03	EPNG	ND	13	ND	10				
08/22/95	WMW-03D	EPNG	ND	ND	ND	ND				
03/28/96	WMW-03	MOI	ND	ND	ND	ND		ND	5060	810
08/27/96	WMW-03	EPNG	ND	ND	ND	ND				
08/26/97	WMW-03	EPNG	ND	ND	ND	ND				

**WINGATE PLANT
ANALYTICAL RESULTS**

SAMPLE DATE	WELL ID	Sampled by	Benzene	Toluene	Ethylbenzene	Total Xylenes	Gasoline	TPH	TDS	Chloride
			µg/L	µg/L	µg/L	µg/L		µg/L		
		Standard	10 µg/L	750 µg/L	750 µg/L	620 µg/L			1000	250
		MCLs	5 µg/L	1000 µg/L	700 µg/L	10000 µg/L				
07/10/91	WMW-04	MOI	ND	ND	ND	ND	-	14.7		
10/28/91	WMW-04	MOI	1.3	ND	ND	ND	-	ND		
01/21/92	WMW-04	MOI	1.9	4.0	1.1	5.1	-	-		
02/25/93	WMW-04	MOI	7.6	3.0	ND	ND	-	-		
02/06/92	WMW-04	EPNG	0.7	<0.5	<0.5	<0.5		-		
04/29/92	WMW-04	EPNG	3.0	<1.0	<1.0	<1.0	<100	-		
01/12/93	WMW-04	EPNG	68.0	8.0	<1.0	4.0	-	-		
04/07/93	WMW-04	EPNG	ND	1.0	ND	ND	-	-		
01/05/94	WMW-04	EPNG	13	1.5	3.3	5.6				
09/13/94	WMW-04	EPNG	<0.5	<0.5	2	2				
03/01/95	WMW-04	MOI	0.9	0.8	<0.3	<0.6		<0.3	1470	123
08/23/95	WMW-04	EPNG	ND	ND	ND	ND				
03/28/96	WMW-04	MOI	ND	ND	ND	ND		ND	1500	110
08/27/96	WMW-04	EPNG	ND	ND	ND	ND				
08/27/96	WMW-04D	EPNG	ND	ND	ND	ND				
08/26/97	WMW-04	EPNG	ND	ND	ND	ND				
01/05/94	WMW-05	EPNG	3.7	1.3	2.4	4.4				
09/14/94	WMW-05	EPNG	5	<0.5	0.8	<1.0				
03/01/95	WMW-05	MOI	<0.3	<0.3	<0.3	<0.6		<0.3	4250	485
08/23/95	WMW-05	EPNG	ND	ND	ND	12				
03/28/96	WMW-05	MOI	ND	ND	ND	ND		ND	4870	471
08/27/96	WMW-05	EPNG	ND	ND	ND	ND				
08/26/97	WMW-05	EPNG	0.94	ND	ND	ND				





Kathy A. Kanocz
Environmental Engineer
Safety & Environmental Services
Natural Gas & Gas Products

Conoco Inc.
P.O. Box 2197, HU 3086
Houston, TX 77525
(281) 293-4067
Fax: (281) 293-1214

Certified Mail - Return Receipt Requested
P 365 728 033

Mr. William C. Olson
Environmental Bureau
Energy, Minerals and Natural Resource Department
Oil Conservation Division
P.O. Box 6429
Santa Fe, NM 87505

RE: Wingate Plant Remediation Semiannual Sampling Event

Dear Mr. Olson,

Please find attached the semi-annual sampling report for the Wingate Plant.

If you have any questions about the sampling or anything else associated with the project, please let me know.

Thank you for your assistance,


Kathy A. Kanocz

Attachments



P.O. BOX 1492
EL PASO, TEXAS 79978
PHONE: 915-541-2600

November 11, 1996

Ms. Kathy A. Kanocz
Conoco, Inc.
P.O. Box 2197, HU 3086
Houston, Texas 77525

**RE: Wingate Plant
Second Semiannual Ground Water Sampling**

Dear Ms. Kanocz:

Enclosed please find the above referenced analytical results for submittal to the New Mexico Oil Conservation Division (NMOCD). Ground water samples were collected from all on-site wells (WMW#1-5) and from three monitoring wells located off-site (MW#1-3) on August 27 and 28.

Water level measurements were taken on August 27, 1996. Ground water elevations for all monitoring wells were calculated using Top of Riser measurements, consistent with the data previously submitted to NMOCD. A potentiometric surface map is enclosed for submittal to NMOCD.

Please contact me at (915) 694-5764 if you have questions or comments.

Sincerely,

A handwritten signature in cursive script, appearing to read "Garibay".

Gerry Garibay
Senior Environmental Scientist
Environmental Affairs Department

Enclosure

Ms. Kathy A. Kanocz
Conoco, Inc.
November 11, 1996
Page 2

Copy with enclosures sent to:

cc: Keith M. Boedecker
Sr. Staff Environmental Representative
Meridian Oil, Inc.
3535 East 30th Street
Farmington, New Mexico 87501

**WINGATE PLANT
GROUNDWATER ELEVATIONS
August-96**

WELL NUMBER	TOP OF RISER ELEVATION	DEPTH TO WATER	GROUNDWATER ELEVATION
MW-1	6,584.66	4.22	6,580.44
MW-2	6,585.37	3.89	6,581.48
MW-3	6,589.84	4.17	6,585.67
WMW-1	6,596.04	4.59	6,591.45
WMW-2	6,593.69	3.94	6,589.75
WMW-3	6,593.91	6.95	6,586.96
WMW-4	6,594.50	6.39	6,588.11
WMW-5	NA	5.20	NA
Data provided in feet.			
Depth to Water data collected on August 27 and August 28, 1996.			

**WINGATE PLANT
ANALYTICAL RESULTS**

SAMPLE DATE	WELL ID	Sampled by	Benzene	Toluene	Ethylbenzene	Total Xylenes	Gasoline	TPH	TDS	Chloride
			µg/L	µg/L	µg/L	µg/L		µg/L		
		Standard	10 µg/L	750 µg/L	750 µg/L	620 µg/L			1000	250
		MCLs	5 µg/L	1000 µg/L	700 µg/L	10000 µg/L				
11/15/91	MW-01	MOI	ND	ND	ND	ND	-	ND		
01/22/92	MW-01	MOI	ND	ND	ND	ND	-	-		
02/25/93	MW-01	MOI	19.0	2.7	ND	ND	-	-		
01/22/92	MW-01	EPNG	<0.5	<0.5	<0.5	<0.5	-	-		
01/93	MW-01	EPNG	-	-	-	-	-	-		
04/28/92	MW-01	EPNG	<1.0	<1.0	<1.0	<1.0	<100	-		
04/06/93	MW-01	EPNG	ND	ND	ND	ND	-	-		
01/06/94	MW-01	EPNG	1.5	1.5	1.2	3.6				
09/14/94	MW-01	EPNG	<0.5	<0.5	<0.5	<1.0				
09/14/94	MW-01D	EPNG	<0.5	<0.5	1.4	1.1				
03/01/95	MW-1	MOI	<0.3	<0.3	<0.3	<0.6		<0.3	535	20.4
08/22/95	MW-1	EPNG	ND	87	9	49				
03/27/96	MW-1	MOI	ND	ND	ND	ND		ND	690	22.5
03/27/96	MW-1D	MOI	ND	ND	ND	ND		ND	650	25
08/27/96	MW-1	EPNG	ND	ND	ND	ND				
11/15/91	MW-02	MOI	ND	ND	ND	0.1	-	2.6		
01/22/92	MW-02	MOI	ND	ND	ND	ND	-	-		
02/25/93	MW-02	MOI	ND	ND	ND	ND	-	-		
01/22/92	MW-02	EPNG	<0.5	<0.5	<0.5	<0.5	-	-		
04/28/92	MW-02	EPNG	0.002	<1.0	<1.0	<1.0	<100	-		
01/93	MW-02	EPNG	-	-	-	-	-	-		
04/06/93	MW-02	EPNG	2.0	2.0	ND	1.0	-	-		
09/14/94	MW-02	EPNG	<0.5	<0.5	<0.5	<1.0				
03/01/95	MW-02	MOI	<0.3	<0.3	<0.3	<0.6		<0.3	1030	57
08/22/95	MW-02	EPNG	ND	ND	ND	ND				
03/27/96	MW-02	MOI	ND	ND	ND	ND		ND	1120	53.7
08/27/96	MW-02	EPNG	ND	ND	ND	ND				

**WINGATE PLANT
ANALYTICAL RESULTS**

SAMPLE DATE	WELL ID	Sampled by	Benzene	Toluene	Ethylbenzene	Total Xylenes	Gasoline	TPH	TDS	Chloride
			µg/L	µg/L	µg/L	µg/L		µg/L		
		Standard	10 µg/L	750 µg/L	750 µg/L	620 µg/L			1000	250
		MCLs	5 µg/L	1000 µg/L	700 µg/L	10000 µg/L				
01/15/91	MW-03	MOI	0.2	0.2	0.4	1.7	ND	-		
01/21/92	MW-03	MOI	ND	3.9	0.6	4.4	-	-		
02/25/93	MW-03	MOI	ND	ND	ND	ND	-	-		
01/92	MW-03	EPNG	-	-	-	-	-	-		
04/28/92	MW-03	EPNG	<1.0	<1.0	<1.0	<1.0	<100	-		
01/12/93	MW-03	EPNG	<1.0	2.0	<1.0	<1.0	-	-		
04/06/93	MW-03	EPNG	ND	ND	ND	ND	-	-		
01/06/94	MW-03	EPNG	46	1.4	3.5	4.7				
01/06/94	MW-03	EPNG	1.5	1.4	1.2	3.4				
09/14/94	MW-03	EPNG	2	<0.5	<0.5	<1.0				
09/14/94	MW-03D	EPNG	1.4	<0.5	<0.5	<1.0				
03/01/95	MW-03	MOI	<0.3	<0.3	<0.3	<0.6		<0.3	481	18.7
08/22/95	MW-03	EPNG	ND	ND	ND	ND				
03/28/96	MW-03	MOI	ND	ND	ND	ND		ND	540	23.7
08/28/96	MW-03	EPNG	ND	ND	ND	ND				
07/10/91	WMW-01	MOI	ND	ND	ND	ND	-	9.5		
10/28/91	WMW-01	MOI	ND	ND	ND	ND	-	ND		
01/21/92	WMW-01	MOI	ND	1.3	8.2	7.9	-	-		
02/25/93	WMW-01	MOI	ND	ND	ND	ND	-	-		
02/05/92	WMW-01	EPNG	<0.5	<0.5	<0.5	<0.5	-	-		
04/29/92	WMW-01	EPNG	<1.0	<1.0	<1.0	<1.0	<100	-		
01/13/93	WMW-01	EPNG	<1.0	1.0	<1.0	<1.0	-	-		
04/07/93	WMW-01	EPNG	2.0	2.0	ND	1.0	-	-		
01/05/94	WMW-01	EPNG	3.8	1.2	1.8	3.9				
09/14/94	WMW-01	EPNG	2	<0.5	1	<1.0				
03/01/95	WMW-01	MOI	<0.3	<0.3	<0.3	<0.6		<0.3	4350	655
08/23/95	WMW-01	EPNG	ND	ND	ND	ND				
03/28/96	WMW-01	MOI	ND	ND	ND	ND		ND	3690	472
08/28/96	WMW-01	EPNG	ND	ND	ND	ND				

**WINGATE PLANT
ANALYTICAL RESULTS**

SAMPLE DATE	WELL ID	Sampled by	Benzene	Toluene	Ethylbenzene	Total Xylenes	Gasoline	TPH	TDS	Chloride
			µg/L	µg/L	µg/L	µg/L		µg/L		
		Standard	10 µg/L	750 µg/L	750 µg/L	620 µg/L			1000	250
		MCLs	5 µg/L	1000 µg/L	700 µg/L	10000 µg/L				
07/10/91	WMW-02	MOI	26800	6800	ND	1145	-	191,000		
09/01/91	WMW-02	MOI	5400	-	5400	1127	-	38,500	3050	732
10/28/91	WMW-02	MOI	5700	5300	164	1067	-	4,000		
11/01/91	WMW-02	MOI	2520	1610	990	-	-	6,800		
12/04/91	WMW-02	MOI	2520	1610	990	374	-	6,663		
12/31/91	WMW-02	MOI	2540	1600	2090	1900	-	18,460		
02/25/93	WMW-02	MOI	37000	3300	180	1230	-	-		
01/21/92	WMW-02	EPNG	3090	1320	129	1020	-	-		
02/06/92	WMW-02	EPNG	30000	6000	<500	<500	-	-		
04/29/92	WMW-02	EPNG	3700	2300	73	510	30000	-		
01/12/93	WMW-02	EPNG	30000	3300	40	400	-	-		
04/07/93	WMW-02	EPNG	37000	4200	120	980	-	-		
01/05/94	WMW-02	EPNG	17000	2500	200	990				
09/13/94	WMW-02	EPNG	35000	46	5000	640				
09/13/94	WMW-02D	EPNG	28000	66	4100	900				
03/01/95	WMW-02	MOI	12300	478	<200	<300		34.5	3200	819
08/23/95	WMW-02	EPNG	35000	3100	160	1110				
03/28/96	WMW-02	MOI	29800	3100	132	994		9.33	2450	500
08/28/96	WMW-02	EPNG	29000	3300	180	1420				

**WINGATE PLANT
ANALYTICAL RESULTS**

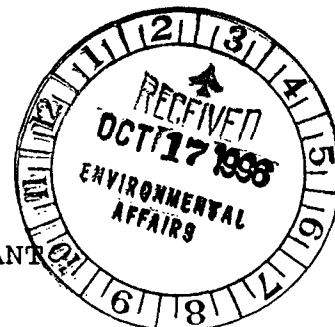
SAMPLE DATE	WELL ID	Sampled by	Benzene	Toluene	Ethylbenzene	Total Xylenes	Gasoline	TPH	TDS	Chloride
			µg/L	µg/L	µg/L	µg/L		µg/L		
		Standard	10 µg/L	750 µg/L	750 µg/L	620 µg/L			1000	250
		MCLs	5 µg/L	1000 µg/L	700 µg/L	10000 µg/L				
07/10/91	WMW-03	MOI	ND	ND	ND	ND	-	7.8		
10/28/91	WMW-03	MOI	3.1	ND	ND	ND	-	ND		
01/22/92	WMW-03	MOI	44.3	18.3	1.3	7.7	-	-		
02/25/93	WMW-03	MOI	ND	ND	ND	ND	-	-		
01/22/92	WMW-03	EPNG	1.2	<0.5	<0.5	<0.5	-	-		
04/29/92	WMW-03	EPNG	<1.0	<1.0	<1.0	<1.0	<100	-		
01/13/93	WMW-03	EPNG	14.0	3.0	<1.0	<1.0	-	-		
04/07/93	WMW-03	EPNG	ND	1.0	ND	ND	-	-		
01/05/94	WMW-03	EPNG	1.8	1.1	1.3	3.5				
09/13/94	WMW-03	EPNG	<0.5	<0.5	<0.5	<1.0				
01/05/94	WMW-03	EPNG	1.8	1.1	1.3	3.5				
09/13/94	WMW-03	EPNG	<0.5	<0.5	<0.5	<1.0				
03/01/95	WMW-03	MOI	<0.3	<0.3	<0.3	<0.6		<0.3	4970	961
08/22/95	WMW-03	EPNG	ND	13	ND	10				
08/22/95	WMW-03D	EPNG	ND	ND	ND	ND				
03/28/96	WMW-03	MOI	ND	ND	ND	ND		ND	5060	810
08/27/96	WMW-03	EPNG	ND	ND	ND	ND				

**WINGATE PLANT
ANALYTICAL RESULTS**

SAMPLE DATE	WELL ID	Sampled by	Benzene	Toluene	Ethylbenzene	Total Xylenes	Gasoline	TPH	TDS	Chloride
			µg/L	µg/L	µg/L	µg/L		µg/L		
		Standard	10 µg/L	750 µg/L	750 µg/L	620 µg/L			1000	250
		MCLs	5 µg/L	1000 µg/L	700 µg/L	10000 µg/L				
07/10/91	WMW-04	MOI	ND	ND	ND	ND	-	14.7		
10/28/91	WMW-04	MOI	1.3	ND	ND	ND	-	ND		
01/21/92	WMW-04	MOI	1.9	4.0	1.1	5.1	-	-		
02/25/93	WMW-04	MOI	7.6	3.0	ND	ND	-	-		
02/06/92	WMW-04	EPNG	0.7	<0.5	<0.5	<0.5		-		
04/29/92	WMW-04	EPNG	3.0	<1.0	<1.0	<1.0	<100	-		
01/12/93	WMW-04	EPNG	68.0	8.0	<1.0	4.0	-	-		
04/07/93	WMW-04	EPNG	ND	1.0	ND	ND	-	-		
01/05/94	WMW-04	EPNG	13	1.5	3.3	5.6				
09/13/94	WMW-04	EPNG	<0.5	<0.5	2	2				
03/01/95	WMW-04	MOI	0.9	0.8	<0.3	<0.6		<0.3	1470	123
08/23/95	WMW-04	EPNG	ND	ND	ND	ND				
03/28/96	WMW-04	MOI	ND	ND	ND	ND		ND	1500	110
08/27/96	WMW-04	EPNG	ND	ND	ND	ND				
08/27/96	WMW-04D	EPNG	ND	ND	ND	ND				
01/05/94	WMW-05	EPNG	3.7	1.3	2.4	4.4				
09/14/94	WMW-05	EPNG	5	<0.5	0.8	<1.0				
03/01/95	WMW-05	MOI	<0.3	<0.3	<0.3	<0.6		<0.3	4250	485
08/23/95	WMW-05	EPNG	ND	ND	ND	12				
03/28/96	WMW-05	MOI	ND	ND	ND	ND		ND	4870	471
08/27/96	WMW-05	EPNG	ND	ND	ND	ND				

SAMPLE KEY

SAMPLE NUMBER: S96-0393 LOCATION: WINGATE PLANT
MATRIX: WATER
SAMPLE DESCRIPTION: FIELD BLANK
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 10:15 SAMPLE DATE: 08/27/96



SAMPLE KEY

SAMPLE NUMBER: S96-0394 LOCATION: WINGATE PLANT
MATRIX: WATER
SAMPLE DESCRIPTION: BAILER BLANK BEFORE
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 10:25 SAMPLE DATE: 08/27/96

SAMPLE KEY

SAMPLE NUMBER: S96-0395 LOCATION: WINGATE PLANT
MATRIX: WATER
SAMPLE DESCRIPTION: #1 EMP BLANK BEFORE PURGING
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 10:45 SAMPLE DATE: 08/27/96

SAMPLE KEY

SAMPLE NUMBER: S96-0396 LOCATION: WINGATE PLANT
MATRIX: WATER
SAMPLE DESCRIPTION: MONITOR WELL: MW #2
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 11:50 SAMPLE DATE: 08/27/96

SAMPLE KEY

SAMPLE NUMBER: S96-0397 LOCATION: WINGATE PLANT
MATRIX: WATER
SAMPLE DESCRIPTION: MONITOR WELL: MW #1
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 13:30 SAMPLE DATE: 08/27/96

SAMPLE KEY

SAMPLE NUMBER: S96-0398 LOCATION: WINGATE PLANT
MATRIX: WATER
SAMPLE DESCRIPTION: MONITOR WELL: WMW #3
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 14:30 SAMPLE DATE: 08/27/96

SAMPLE KEY

SAMPLE NUMBER: S96-0399 LOCATION: WINGATE PLANT
MATRIX: WATER
SAMPLE DESCRIPTION: MONITOR WELL: WMW #4
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 15:18 SAMPLE DATE: 08/27/96

SAMPLE KEY

SAMPLE NUMBER: S96-0400 LOCATION: WINGATE PLANT
MATRIX: WATER
SAMPLE DESCRIPTION: MONITOR WELL: WMW #4
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 15:18 SAMPLE DATE: 08/27/96

SAMPLE KEY

SAMPLE NUMBER: S96-0401 LOCATION: WINGATE PLANT
MATRIX: WATER
SAMPLE DESCRIPTION: MONITOR WELL: WMW #2
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 09:35 SAMPLE DATE: 08/28/96

SAMPLE KEY

SAMPLE NUMBER: S96-0402 LOCATION: WINGATE PLANT
MATRIX: WATER
SAMPLE DESCRIPTION: MONITOR WELL: WMW #1
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 10:23 SAMPLE DATE: 08/28/96

SAMPLE KEY

SAMPLE NUMBER: S96-0403 LOCATION: WINGATE PLANT
MATRIX: WATER
SAMPLE DESCRIPTION: MONITOR WELL: WMW #5
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 12:02 SAMPLE DATE: 08/28/96

SAMPLE KEY

SAMPLE NUMBER: S96-0404 LOCATION: WINGATE PLANT
MATRIX: WATER
SAMPLE DESCRIPTION: MONITOR WELL: MW #3
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 13:37 SAMPLE DATE: 08/28/96

SAMPLE KEY

SAMPLE NUMBER: S96-0405 LOCATION: WINGATE PLANT
MATRIX: WATER
SAMPLE DESCRIPTION: BAILER BLANK AFTER SAMPLING
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 14:00 SAMPLE DATE: 08/28/96

SAMPLE KEY

SAMPLE NUMBER: S96-0406 LOCATION: WINGATE PLANT
MATRIX: WATER
SAMPLE DESCRIPTION: #1 EMP AFTER PUGING WELLS
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 14:05 SAMPLE DATE: 08/28/96

Certificate of Analysis

CLIENT INFORMATION

Attention: Darrell Campbell
Client Name: El Paso Natural Gas Company
Project:
Project Desc:

Address: 8645 Railroad Drive
El Paso, TX
79904

Fax Number: 915-541-9335

Phone Number: 915-759-2228

LABORATORY INFORMATION

Contact: Ada Blythe, B.Sc., C.Chem.
Project: AN960104
Date Received: 96/08/30
Date Reported: 96/09/09

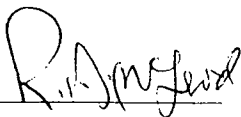
Submission No.: 6H0820
Sample No.: 034290-034304

NOTES: '-' = not analysed '<' = less than Method Detection Limit (MDL) 'NA' = no data available
LOQ can be determined for all analytes by multiplying the appropriate MDL X 3.33
Solids data is based on dry weight except for biota analyses.
Organic analyses are not corrected for extraction recovery standards except for isotope dilution methods, (i.e. CARB 429 PAH, all PCDD/F and DBD/DBF analyses)

Methods used by Zenon are based upon those found in 'Standard Methods for the Examination of Water and Wastewater', Seventeenth Edition. Other methods are based on the principles of MISA or EPA methodologies.

All work recorded herein has been done in accordance with normal professional standards using accepted testing methodologies, quality assurance and quality control procedures except where otherwise agreed to by the client and testing company in writing. Any and all use of these test results shall be limited to the actual cost of the pertinent analysis done. There is no other warranty expressed or implied. Your samples will be retained at Zenon for a period of three weeks from receipt of data or as per contract.

COMMENTS:

Certified by: 

Zenon Environmental Laboratories - Certificate of Analysis

Client ID:

Zenon ID:

Date Sampled:

Method

Blank

034290 96

96/08/27

2-MW

596-0396

34294 96

96/08/27

17W-1

S96-0397

034295 96

96/08/27

WMW-3

S96-0398

034296 96

96/08/27

Wm W - C

S96-0399

034297 96

96/08/27

7-10-4

S96-0400

034298 96

96/08/27

Component	MDL	Units
1.1	1.1	1.1
1.2	1.2	1.2
1.3	1.3	1.3
1.4	1.4	1.4
1.5	1.5	1.5
1.6	1.6	1.6
1.7	1.7	1.7
1.8	1.8	1.8
1.9	1.9	1.9
1.10	1.10	1.10
1.11	1.11	1.11
1.12	1.12	1.12
1.13	1.13	1.13
1.14	1.14	1.14
1.15	1.15	1.15
1.16	1.16	1.16
1.17	1.17	1.17
1.18	1.18	1.18
1.19	1.19	1.19
1.20	1.20	1.20
1.21	1.21	1.21
1.22	1.22	1.22
1.23	1.23	1.23
1.24	1.24	1.24
1.25	1.25	1.25
1.26	1.26	1.26
1.27	1.27	1.27
1.28	1.28	1.28
1.29	1.29	1.29
1.30	1.30	1.30
1.31	1.31	1.31
1.32	1.32	1.32
1.33	1.33	1.33
1.34	1.34	1.34
1.35	1.35	1.35
1.36	1.36	1.36
1.37	1.37	1.37
1.38	1.38	1.38
1.39	1.39	1.39
1.40	1.40	1.40
1.41	1.41	1.41
1.42	1.42	1.42
1.43	1.43	1.43
1.44	1.44	1.44
1.45	1.45	1.45
1.46	1.46	1.46
1.47	1.47	1.47
1.48	1.48	1.48
1.49	1.49	1.49
1.50	1.50	1.50
1.51	1.51	1.51
1.52	1.52	1.52
1.53	1.53	1.53
1.54	1.54	1.54
1.55	1.55	1.55
1.56	1.56	1.56
1.57	1.57	1.57
1.58	1.58	1.58
1.59	1.59	1.59
1.60	1.60	1.60
1.61	1.61	1.61
1.62	1.62	1.62
1.63	1.63	1.63
1.64	1.64	1.64
1.65	1.65	1.65
1.66	1.66	1.66
1.67	1.67	1.67
1.68	1.68	1.68
1.69	1.69	1.69
1.70	1.70	1.70
1.71	1.71	1.71
1.72	1.72	1.72
1.73	1.73	1.73
1.74	1.74	1.74
1.75	1.75	1.75
1.76	1.76	1.76
1.77	1.77	1.77
1.78	1.78	1.78
1.79	1.79	1.79
1.80	1.80	1.80
1.81	1.81	1.81
1.82	1.82	1.82
1.83	1.83	1.83
1.84	1.84	1.84
1.85	1.85	1.85
1.86	1.86	1.86
1.87	1.87	1.87
1.88	1.88	1.88
1.89	1.89	1.89
1.90	1.90	1.90
1.91	1.91	1.91
1.92	1.92	1.92
1.93	1.93	1.93
1.94	1.94	1.94
1.95	1.95	1.95
1.96	1.96	1.96
1.97	1.97	1.97
1.98	1.98	1.98
1.99	1.99	1.99
2.00	2.00	2.00
2.01	2.01	2.01
2.02	2.02	2.02
2.03	2.03	2.03
2.04	2.04	2.04
2.05	2.05	2.05
2.06	2.06	2.06
2.07	2.07	2.07
2.08	2.08	2.08
2.09	2.09	2.09
2.10	2.10	2.10
2.1		

	ug/L
Benzene	1.0
Toluene	1.0
Ethylbenzene	1.0
m&p-Xylene	1.0
o-Xylene	1.0
Surrogate Recoveries	%
d4-1,2-Dichloroethane	
d8-Toluene	
Bromofluorobenzene	

Zenon Environmental Laboratories - Certificate of Analysis

Client ID: W44W-2
Zenon ID: S96-0401
Date Sampled: 96/08/28

W44W-2
 S96-0401
 034299 96
 96/08/28

W44W-1
 S96-0402
 034300 96
 96/08/28

W44W-5
 S96-0403
 034301 96
 96/08/28

W44W-3
 S96-0404
 034302 96
 96/08/28

S96-0405
 034303 96
 96/08/28

S96-0406
 034304 96
 96/08/28

Component MDL Units

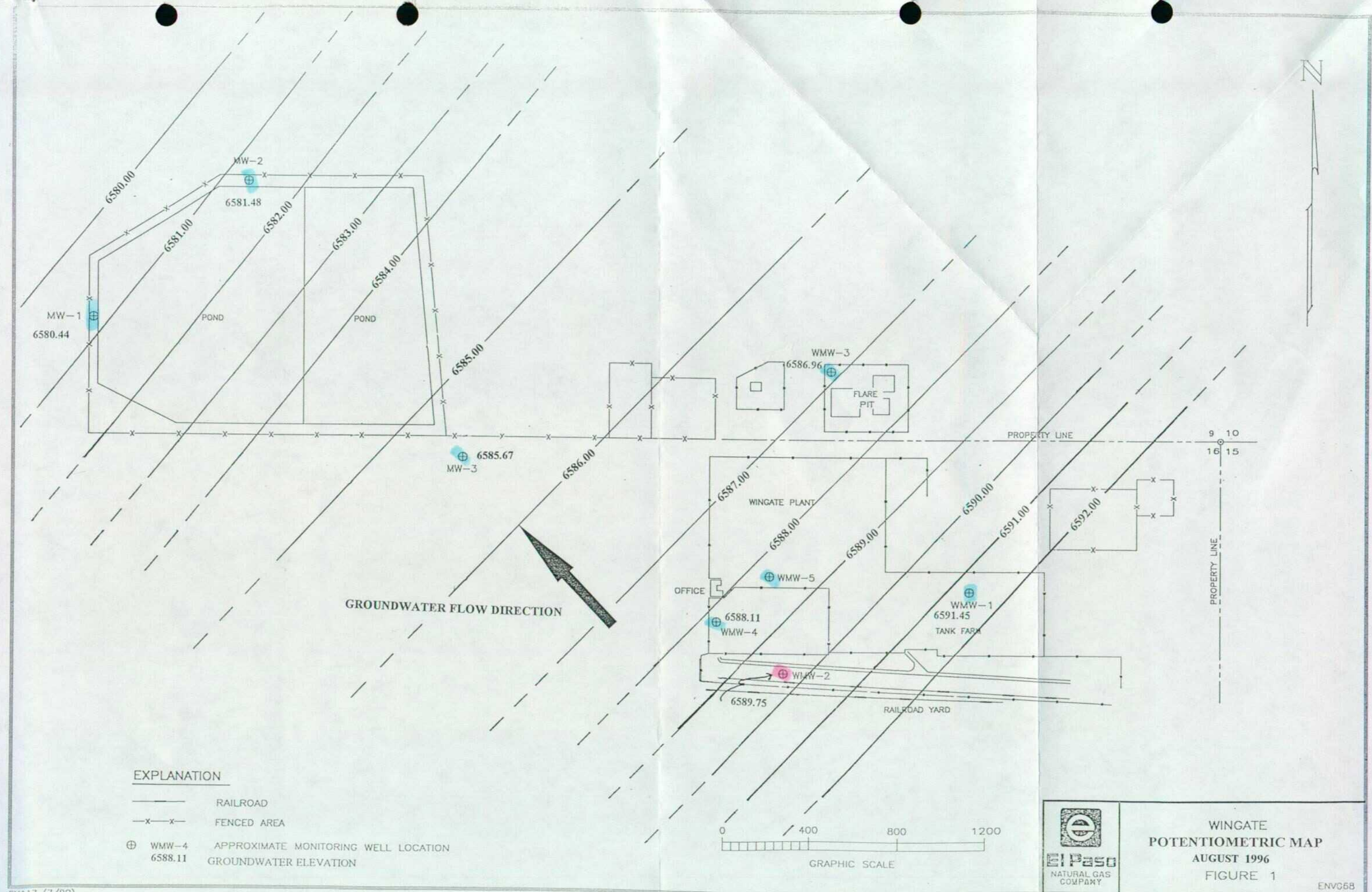
Benzene	1.0	ug/L	29000	<	<	<	<	<	1.8
Toluene	1.0	"	3300	<	<	<	<	<	2.0
Ethylbenzene	1.0	"	180	<	<	<	<	<	<
m&p-Xylene	1.0	"	1100	<	<	<	<	<	3.2
o-Xylene	1.0	"	320	<	<	<	<	<	1.1
Surrogate Recoveries		%							
d4-1,2-Dichloroethane			96	99	92	96	104	95	
d8-Toluene			91	93	90	88	91	91	
Bromofluorobenzene			95	101	100	98	94	95	

1471

CHAIN OF CUSTODY RECORD

Page _____ of _____

PROJECT NUMBER		PROJECT NAME			TOTAL NUMBER OF CONTAINERS	COMPOSITE OR GRAB	REQUESTED ANALYSIS						CONTRACT LABORATORY P. O. NUMBER	
SAMPLERS: (Signature)		DATE:												
LAB ID	DATE	TIME	MATRIX	SAMPLE NUMBER									REMARKS	
34291	8/27/96	1015	H ₂ O	S96-0393	2		X							
	8/27/96	1025	H ₂ O	S96-0394	2		X							
	8/27/96	1045	H ₂ O	S96-0395	2		X							
	8/27/96	1150	H ₂ O	S96-0396	2		X							
	8/27/96	1330	H ₂ O	S96-0397	2		X							
	8/27/96	1430	H ₂ O	S96-0398	2		X							
	8/27/96	1518	H ₂ O	S96-0399	2		X							
	8/27/96	1518	H ₂ O	S96-0400	2		X							
	8/28/96	0935	H ₂ O	S96-0401	2		X							
	8/28/96	1023	H ₂ O	S96-0402	2		X							
	8/28/96	1202	H ₂ O	S96-0403	2		X							
	8/28/96	1337	H ₂ O	S96-0404	2		X							
RELINQUISHED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)			RELINQUISHED BY: (Signature)			DATE/TIME		RECEIVED BY: (Signature)		
[Signature]		8/28/96 0700		Aney Sebastian						9/6/08/30 12:00				
RELINQUISHED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)			RELINQUISHED BY: (Signature)			DATE/TIME		RECEIVED OF LABORATORY BY: (Signature)		
REQUESTED TURNAROUND TIME:				SAMPLE RECEIPT REMARKS				RESULTS & INVOICES TO:						
☐ ROUTINE ☐ RUSH														
CARRIER CO.				CHARGE CODE				TRANSMISSION OPERATIONS LABORATORY EL PASO NATURAL GAS COMPANY 8645 RAILROAD DRIVE EL PASO, TEXAS 79904 915-759-2229 FAX: 915-759-2335						
BILL NO.:														
				186-1126.01-0911-0072-4-1255										



EXPLANATION

- RAILROAD
- x-x- FENCED AREA
- ⊕ WMW-4 APPROXIMATE MONITORING WELL LOCATION
- 6588.11 GROUNDWATER ELEVATION



WINGATE
POTENTIOMETRIC MAP
AUGUST 1996
FIGURE 1

ENV068

MERIDIAN OIL

December 18, 1995

Certified Mail #P 895 114 272

William C. Olson
Environmental Bureau
Energy, Minerals and Natural Resources Dept.
Oil Conservation Division
2040 S. Pacheco
Santa Fe, NM 87504

RECEIVED

DEC 21 1995

Re: **Wingate Plant**
Second Semiannual Ground Water Monitoring

Dear Mr. Olson:

Enclosed please find the above referenced ground water monitoring report. Ground water samples were collected from all on-site monitoring wells (WMW#1-5) and from three monitoring wells located off-site (MW#1-3) on August 22 and 23, 1995.

Water level measurements were taken on August 22. Ground water elevations for all monitoring wells were calculated using Top of Riser measurements, consistent with the data previously submitted to your department. A potentiometric surface map is also enclosed with the report.

Should you have any additional questions, I can be reached at (505) 326-9537.

Sincerely,



Craig A. Bock
Environmental Representative

Attached: (1) Second Semiannual Ground Water Sampling Report

cc: Gerry Garibay - EPNG
Greg Kardos - MOI

file: Wingate Plant GW Contamination: Correspondence
s:\craig\projman\dischrgpln\95secsub.doc

**WINGATE PLANT
ANALYTICAL RESULTS**

SAMPLE DATE	WELL ID	Sampled by	Benzene µg/L	Toluene µg/L	Ethylbenzene µg/L	Total Xylenes µg/L	Gasoline	TPH µg/L	TDS	Chloride
		Standard	10 µg/L	750 µg/L	750 µg/L	620 µg/L			1000	250
		MCLs	5 µg/L	1000 µg/L	700 µg/L	10000 µg/L				
11/15/91	MW-01	MOI	ND	ND	ND	ND	-	ND		
01/22/92	MW-01	MOI	ND	ND	ND	ND	-	-		
02/25/93	MW-01	MOI	19.0	2.7	ND	ND	-	-		
01/22/92	MW-01	EPNG	<0.5	<0.5	<0.5	<0.5	-	-		
01/93	MW-01	EPNG	-	-	-	-	-	-		
04/28/92	MW-01	EPNG	<1.0	<1.0	<1.0	<1.0	<100	-		
04/06/93	MW-01	EPNG	ND	ND	ND	ND	-	-		
01/06/94	MW-01	EPNG	1.5	1.5	1.2	3.6				
09/14/94	MW-01	EPNG	<0.5	<0.5	<0.5	<1.0				
09/14/94	MW-01D	EPNG	<0.5	<0.5	1.4	1.1				
03/01/95	MW-1	MOI	<0.3	<0.3	<0.3	<0.6		<0.3	535	20.4
08/22/95	MW-1	EPNG	ND	87	9	49				
11/15/91	MW-02	MOI	ND	ND	ND	0.1	-	2.6		
01/22/92	MW-02	MOI	ND	ND	ND	ND	-	-		
02/25/93	MW-02	MOI	ND	ND	ND	ND	-	-		
01/22/92	MW-02	EPNG	<0.5	<0.5	<0.5	<0.5	-	-		
04/28/92	MW-02	EPNG	0.002	<1.0	<1.0	<1.0	<100	-		
01/93	MW-02	EPNG	-	-	-	-	-	-		
04/06/93	MW-02	EPNG	2.0	2.0	ND	1.0	-	-		
09/14/94	MW-02	EPNG	<0.5	<0.5	<0.5	<1.0				
03/01/95	MW-02	MOI	<0.3	<0.3	<0.3	<0.6		<0.3	1030	57
08/22/95	MW-02	EPNG	ND	ND	ND	ND				
01/15/91	MW-03	MOI	0.2	0.2	0.4	1.7	ND	-		
01/21/92	MW-03	MOI	ND	3.9	0.6	4.4	-	-		
02/25/93	MW-03	MOI	ND	ND	ND	ND	-	-		
01/92	MW-03	EPNG	-	-	-	-	-	-		
04/28/92	MW-03	EPNG	<1.0	<1.0	<1.0	<1.0	<100	-		
01/12/93	MW-03	EPNG	<1.0	2.0	<1.0	<1.0	-	-		

**WINGATE PLANT
ANALYTICAL RESULTS**

SAMPLE	WELL ID	Sampled by	Benzene	Toluene	Ethylbenzene	Total Xylenes	Gasoline	TPH	TDS	Chloride
DATE			µg/L	µg/L	µg/L	µg/L		µg/L		
		Standard	10 µg/L	750 µg/L	750 µg/L	620 µg/L			1000	250
		MCLs	5 µg/L	1000 µg/L	700 µg/L	10000 µg/L				
04/06/93	MW-03	EPNG	ND	ND	ND	ND	-	-		
01/06/94	MW-03	EPNG	46	1.4	3.5	4.7				
01/06/94	MW-03	EPNG	1.5	1.4	1.2	3.4				
09/14/94	MW-03	EPNG	2	<0.5	<0.5	<1.0				
09/14/94	MW-03D	EPNG	1.4	<0.5	<0.5	<1.0				
03/01/95	MW-03	MOI	<0.3	<0.3	<0.3	<0.6		<0.3	481	18.7
08/22/95	MW-03	EPNG	ND	ND	ND	ND				
07/10/91	WMW-01	MOI	ND	ND	ND	ND	-	9.5		
10/28/91	WMW-01	MOI	ND	ND	ND	ND	-	ND		
01/21/92	WMW-01	MOI	ND	1.3	8.2	7.9	-	-		
02/25/93	WMW-01	MOI	ND	ND	ND	ND	-	-		
02/05/92	WMW-01	EPNG	<0.5	<0.5	<0.5	<0.5	-	-		
04/29/92	WMW-01	EPNG	<1.0	<1.0	<1.0	<1.0	<100	-		
01/13/93	WMW-01	EPNG	<1.0	1.0	<1.0	<1.0	-	-		
04/07/93	WMW-01	EPNG	2.0	2.0	ND	1.0	-	-		
01/05/94	WMW-01	EPNG	3.8	1.2	1.8	3.9				
09/14/94	WMW-01	EPNG	2	<0.5	1	<1.0				
03/01/95	WMW-01	MOI	<0.3	<0.3	<0.3	<0.6		<0.3	4350	655
08/23/95	WMW-01	EPNG	ND	ND	ND	ND				
07/10/91	WMW-02	MOI	26800	6800	ND	1145	-	191,000		
09/01/91	WMW-02	MOI	5400	-	5400	1127	-	38,500	3050	732
10/28/91	WMW-02	MOI	5700	5300	164	1067	-	4,000		
11/01/91	WMW-02	MOI	2520	1610	990	-	-	6,800		
12/04/91	WMW-02	MOI	2520	1610	990	374	-	6,663		
12/31/91	WMW-02	MOI	2540	1600	2090	1900	-	18,460		
02/25/93	WMW-02	MOI	37000	3300	180	1230	-	-		
01/21/92	WMW-02	EPNG	3090	1320	129	1020	-	-		
02/06/92	WMW-02	EPNG	30000	6000	<500	<500	-	-		

**WINGATE PLANT
ANALYTICAL RESULTS**

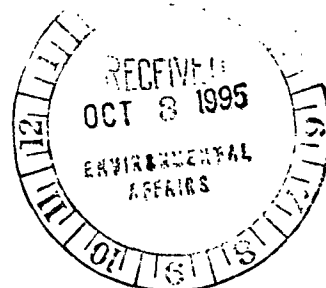
SAMPLE	WELL ID	Sampled by	Benzene	Toluene	Ethylbenzene	Total Xylenes	Gasoline	TPH	TDS	Chloride
DATE			µg/L	µg/L	µg/L	µg/L		µg/L		
		Standard	10 µg/L	750 µg/L	750 µg/L	620 µg/L			1000	250
		MCLs	5 µg/L	1000 µg/L	700 µg/L	10000 µg/L				
04/29/92	WMW-02	EPNG	3700	2300	73	510	30000	-		
01/12/93	WMW-02	EPNG	30000	3300	40	400	-	-		
04/07/93	WMW-02	EPNG	37000	4200	120	980	-	-		
01/05/94	WMW-02	EPNG	17000	2500	200	990				
09/13/94	WMW-02	EPNG	35000	46	5000	640				
09/13/94	WMW-02D	EPNG	28000	66	4100	900				
03/01/95	WMW-02	MOI	12300	478	<200	<300		34.5	3200	819
08/23/95	WMW-02	EPNG	35000	3100	160	1110				
07/10/91	WMW-03	MOI	ND	ND	ND	ND	-	7.8		
10/28/91	WMW-03	MOI	3.1	ND	ND	ND	-	ND		
01/22/92	WMW-03	MOI	44.3	18.3	1.3	7.7	-	-		
02/25/93	WMW-03	MOI	ND	ND	ND	ND	-	-		
01/22/92	WMW-03	EPNG	1.2	<0.5	<0.5	<0.5	-	-		
04/29/92	WMW-03	EPNG	<1.0	<1.0	<1.0	<1.0	<100	-		
01/13/93	WMW-03	EPNG	14.0	3.0	<1.0	<1.0	-	-		
04/07/93	WMW-03	EPNG	ND	1.0	ND	ND	-	-		
01/05/94	WMW-03	EPNG	1.8	1.1	1.3	3.5				
09/13/94	WMW-03	EPNG	<0.5	<0.5	<0.5	<1.0				
01/05/94	WMW-03	EPNG	1.8	1.1	1.3	3.5				
09/13/94	WMW-03	EPNG	<0.5	<0.5	<0.5	<1.0				
03/01/95	WMW-03	MOI	<0.3	<0.3	<0.3	<0.6		<0.3	4970	961
08/22/95	WMW-03	EPNG	ND	13	ND	10				
08/22/95	WMW-03D	EPNG	ND	ND	ND	ND				
07/10/91	WMW-04	MOI	ND	ND	ND	ND	-	14.7		
10/28/91	WMW-04	MOI	1.3	ND	ND	ND	-	ND		
01/21/92	WMW-04	MOI	1.9	4.0	1.1	5.1	-	-		
02/25/93	WMW-04	MOI	7.6	3.0	ND	ND	-	-		
02/06/92	WMW-04	EPNG	0.7	<0.5	<0.5	<0.5		-		

**WINGATE PLANT
ANALYTICAL RESULTS**

SAMPLE	WELL ID	Sampled by	Benzene	Toluene	Ethylbenzene	Total Xylenes	Gasoline	TPH	TDS	Chloride
DATE			µg/L	µg/L	µg/L	µg/L		µg/L		
		Standard	10 µg/L	750 µg/L	750 µg/L	620 µg/L			1000	250
		MCLs	5 µg/L	1000 µg/L	700 µg/L	10000 µg/L				
04/29/92	WMW-04	EPNG	3.0	<1.0	<1.0	<1.0	<100	-		
01/12/93	WMW-04	EPNG	68.0	8.0	<1.0	4.0	-	-		
04/07/93	WMW-04	EPNG	ND	1.0	ND	ND	-	-		
01/05/94	WMW-04	EPNG	13	1.5	3.3	5.6				
09/13/94	WMW-04	EPNG	<0.5	<0.5	2	2				
03/01/95	WMW-04	MOI	0.9	0.8	<0.3	<0.6		<0.3	1470	123
08/23/95	WMW-04	EPNG	ND	ND	ND	ND				
01/05/94	WMW-05	EPNG	3.7	1.3	2.4	4.4				
09/14/94	WMW-05	EPNG	5	<0.5	0.8	<1.0				
03/01/95	WMW-05	MOI	<0.3	<0.3	<0.3	<0.6		<0.3	4250	485
08/23/95	WMW-05	EPNG	ND	ND	ND	12				

SAMPLE KEY

SAMPLE NUMBER: S95-0431 LOCATION: WINGATE PLANT
MATRIX: WATER
SAMPLE DESCRIPTION: BAILER BLANK BEFORE SAMPLING
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 07:30 SAMPLE DATE: 08/22/95



SAMPLE KEY

SAMPLE NUMBER: S95-0432 LOCATION: WINGATE PLANT
MATRIX: WATER
SAMPLE DESCRIPTION: PUMP BLANK #1 EMP BEFORE PURGING
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 08:17 SAMPLE DATE: 08/22/95

SAMPLE KEY

SAMPLE NUMBER: S95-0433 LOCATION: WINGATE PLANT
MATRIX: WATER
SAMPLE DESCRIPTION: MONITOR WELL #3
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 10:47 SAMPLE DATE: 08/22/95

SAMPLE KEY

SAMPLE NUMBER: S95-0434 LOCATION: WINGATE PLANT
MATRIX: WATER
SAMPLE DESCRIPTION: MONITOR WELL #2
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 12:00 SAMPLE DATE: 08/22/95

SAMPLE KEY

SAMPLE NUMBER: S95-0435 LOCATION: WINGATE PLANT
MATRIX: WATER
SAMPLE DESCRIPTION: MONITOR WELL #1
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 13:37 SAMPLE DATE: 08/22/95

SAMPLE KEY

SAMPLE NUMBER: S95-0436 LOCATION: WINGATE PLANT
MATRIX: WATER
SAMPLE DESCRIPTION: MONITOR WELL #3
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 15:14 SAMPLE DATE: 08/22/95

SAMPLE KEY

SAMPLE NUMBER: S95-0437 LOCATION: WINGATE PLANT
MATRIX: WATER
SAMPLE DESCRIPTION: MONITOR WELL #3 DUPLICATE
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 15:14 SAMPLE DATE: 08/22/95

SAMPLE KEY

SAMPLE NUMBER: S95-0438 LOCATION: WINGATE PLANT
MATRIX: WATER
SAMPLE DESCRIPTION: MONITOR WELL #4
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 07:55 SAMPLE DATE: 08/23/95

SAMPLE KEY

SAMPLE NUMBER: S95-0439 LOCATION: WINGATE PLANT
MATRIX: WATER
SAMPLE DESCRIPTION: MONITOR WELL #5
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 09:05 SAMPLE DATE: 08/23/95

SAMPLE KEY

SAMPLE NUMBER: S95-0440 LOCATION: WINGATE PLANT
MATRIX: WATER
SAMPLE DESCRIPTION: MONITOR WELL #1
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 09:52 SAMPLE DATE: 08/23/95

SAMPLE KEY

SAMPLE NUMBER: S95-0441 LOCATION: WINGATE PLANT
MATRIX: WATER
SAMPLE DESCRIPTION: PUMP BLANK #1 EMP AFTER PURGING
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 10:24 SAMPLE DATE: 08/23/95

SAMPLE KEY

SAMPLE NUMBER: S95-0442 LOCATION: WINGATE PLANT
MATRIX: WATER
SAMPLE DESCRIPTION: MONITOR WELL #2
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 12:10 SAMPLE DATE: 08/23/95

SAMPLE KEY

SAMPLE NUMBER: S95-0443 LOCATION: WINGATE PLANT
MATRIX: WATER
SAMPLE DESCRIPTION: BAILER BLANK AFTER SAMPLING
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 12:30 SAMPLE DATE: 08/23/95

SAMPLE KEY

SAMPLE NUMBER: S95-0444 LOCATION: WINGATE PLANT
MATRIX: WATER
SAMPLE DESCRIPTION: FIELD BLANK
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 13:00 SAMPLE DATE: 08/23/95

PHILIP ENVIRONMENTAL INC.
CORPORATE LABORATORY
ANALYTICAL REPORT

Client:

El Paso Natural Gas Co.
Transmission Operations Lab
8645 Railroad Drive
El Paso, TX
79904

Project Name: WINGATE PLANT

Date Received: 8/25/95

Date Sampled: 8/23/95

Date Reported: 9/ 6/95

Laboratory No.: 95-A15051

Sample ID.: S95-0431

Job Number: 4653

Analyte	Results	Units	Method	Analyst	Date
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NOTES:

see attached results

Reviewed By : *Carl F. King*

9/ 6/95

BURLINGTON ENVIRONMENTAL INC. -CORPORATE LABORATORY

EPA Method 624/8260

SAMPLE: S95-0431
GCMS FILE: 082826.D
LAB ID: 95A15051
DIL. FAC: 5
ML SAMP: 1 ml

ANALYZED: 08/28/95
RECEIVED: 08/25/95
ANALYST: Backer

SURR. REC%
SS1 = 101
SS2 = 98
SS3 = 96

CAS NO.	COMPOUND	DETECTION LIMIT PPB	SAMPLE UG/L PPB	(FLAGS)
71-43-2	Benzene	5	ND	
108-88-3	Toluene	10	ND	
100-41-4	Ethylbenzene	5	ND	
108-38-3	m-Xylene	5	ND	
106-42-3	p-Xylene	5	ND	
95-47-6	o-Xylene	5	ND	

ND = NOT DETECTED AT DETECTION LIMIT; B = IN BLANK; J = DETECTED BELOW DL.
E= THE CONCENTRATION OF THIS ANALYTE EXCEEDED THE INSTRUMENT CALIBRATION RANGE.

PHILIP ENVIRONMENTAL INC.
CORPORATE LABORATORY
ANALYTICAL REPORT

Client:

El Paso Natural Gas Co.
Transmission Operations Lab
8645 Railroad Drive
El Paso, TX
79904

Project Name: WINGATE PLANT

Date Received: 8/25/95

Date Sampled: 8/23/95

Date Reported: 9/ 6/95

Laboratory No.: 95-A15052

Sample ID.: S95-0432

Job Number: 4653

Analyte	Results	Units	Method	Analyst	Date
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NOTES:

see attached results

Reviewed By : *Art Liles*

9/ 6/95

BURLINGTON ENVIRONMENTAL INC. -CORPORATE LABORATORY

EPA Method 624/8260

SAMPLE: S95-0432
GCMS FILE: 082827.D
LAB ID: 95A15052
DIL. FAC: 5
ML SAMP: 1 ml

ANALYZED: 08/28/95
RECEIVED: 08/25/95
ANALYST: Backer

SURR. REC%
SS1 = 100
SS2 = 98
SS3 = 96

CAS NO.	COMPOUND	DETECTION LIMIT PPB	SAMPLE UG/L PPB	(FLAGS)
71-43-2	Benzene	5	7	
108-88-3	Toluene	10	ND	
100-41-4	Ethylbenzene	5	ND	
108-38-3	m-Xylene	5	ND	
106-42-3	p-Xylene	5	ND	
95-47-6	o-Xylene	5	ND	

ND = NOT DETECTED AT DETECTION LIMIT; B = IN BLANK; J = DETECTED BELOW DL.
E = THE CONCENTRATION OF THIS ANALYTE EXCEEDED THE INSTRUMENT CALIBRATION RANGE.

PHILIP ENVIRONMENTAL INC.
CORPORATE LABORATORY
ANALYTICAL REPORT

Client:

El Paso Natural Gas Co.
Transmission Operations Lab
8645 Railroad Drive
El Paso, TX
79904

Project Name: WINGATE PLANT

Date Received: 8/25/95

Date Sampled: 8/23/95

Date Reported: 9/ 6/95

Laboratory No.: 95-A15056

Sample ID.: S95-0436

Job Number: 4653

Analyte	Results	Units	Method	Analyst	Date
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NOTES:

see attached results

Reviewed By : *Ol Flores*

9/ 6/95

BURLINGTON ENVIRONMENTAL INC. -CORPORATE LABORATORY

EPA Method 624/8260

SAMPLE: S95-0435
GCMS FILE: 082835.D
LAB ID: 95a15055
DIL. FAC: 5
ML SAMP: 1ml

ANALYZED: 08/29/95
RECEIVED: 08/25/95
ANALYST: Backer

SURR. REC%
SS1 = 103
SS2 = 98
SS3 = 96

CAS NO.	COMPOUND	DETECTION LIMIT PPB	SAMPLE UG/L PPB	(FLAGS)
71-43-2	Benzene	5	ND	
108-88-3	Toluene	10	87	
100-41-4	Ethylbenzene	5	9	
108-38-3	m-Xylene	5	21	
106-42-3	p-Xylene	5	21	
95-47-6	o-Xylene	5	7	

ND = NOT DETECTED AT DETECTION LIMIT; B = IN BLANK; J = DETECTED BELOW DL.
E= THE CONCENTRATION OF THIS ANALYTE EXCEEDED THE INSTRUMENT CALIBRATION RANGE.

PHILIP ENVIRONMENTAL INC.
CORPORATE LABORATORY
ANALYTICAL REPORT

Client:

El Paso Natural Gas Co.
Transmission Operations Lab
8645 Railroad Drive
El Paso, TX
79904

Project Name: WINGATE PLANT

Date Received: 8/25/95

Date Sampled: 8/23/95

Date Reported: 9/ 6/95

Laboratory No.: 95-A15060

Sample ID.: S95-0440

Job Number: 4653

Analyte	Results	Units	Method	Analyst	Date
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NOTES:

see attached results

Reviewed By : Al Flores

9/ 6/95

BURLINGTON ENVIRONMENTAL INC. -CORPORATE LABORATORY

EPA Method 624/8260

SAMPLE: S95-0440
GCMS FILE: 082840.D
LAB ID: 95a15060
DIL. FAC: 5
ML SAMP: 1ml

ANALYZED: 08/29/95
RECEIVED: 08/25/95
ANALYST: Backer

SURR. REC%
SS1 = 100
SS2 = 98
SS3 = 97

CAS NO.	COMPOUND	DETECTION LIMIT PPB	SAMPLE UG/L PPB	(FLAGS)
71-43-2	Benzene	5	ND	
108-88-3	Toluene	10	ND	
100-41-4	Ethylbenzene	5	ND	
108-38-3	m-Xylene	5	ND	
106-42-3	p-Xylene	5	ND	
95-47-6	o-Xylene	5	ND	

ND = NOT DETECTED AT DETECTION LIMIT; B = IN BLANK; J = DETECTED BELOW DL.
E = THE CONCENTRATION OF THIS ANALYTE EXCEEDED THE INSTRUMENT CALIBRATION RANGE.

PHILIP ENVIRONMENTAL INC.
CORPORATE LABORATORY
ANALYTICAL REPORT

Client:

El Paso Natural Gas Co.
Transmission Operations Lab
8645 Railroad Drive
El Paso, TX
79904

Project Name: WINGATE PLANT

Date Received: 8/25/95

Date Sampled: 8/23/95

Date Reported: 9/ 6/95

Laboratory No.: 95-A15054

Sample ID.: S95-0434

Job Number: 4653

Analyte	Results	Units	Method	Analyst	Date
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NOTES:

see attached results

Reviewed By :

al flos

9/ 6/95

BURLINGTON ENVIRONMENTAL INC. -CORPORATE LABORATORY

EPA Method 624/8260

SAMPLE: S95-0434
GCMS FILE: 082834.D
LAB ID: 95a15054
DIL. FAC: 5
ML SAMP: 1ml

ANALYZED: 08/29/95
RECEIVED: 08/25/95
ANALYST: Backer

SURR. REC%
SS1 = 106
SS2 = 99
SS3 = 97

CAS NO.	COMPOUND	DETECTION LIMIT PPB	SAMPLE UG/L PPB	(FLAGS)
71-43-2	Benzene	5	ND	
108-88-3	Toluene	10	ND	
100-41-4	Ethylbenzene	5	ND	
108-38-3	m-Xylene	5	ND	
106-42-3	p-Xylene	5	ND	
95-47-6	o-Xylene	5	ND	

ND = NOT DETECTED AT DETECTION LIMIT; B = IN BLANK; J = DETECTED BELOW DL.
E = THE CONCENTRATION OF THIS ANALYTE EXCEEDED THE INSTRUMENT CALIBRATION RANGE.

PHILIP ENVIRONMENTAL INC.
CORPORATE LABORATORY
ANALYTICAL REPORT

Client:

El Paso Natural Gas Co.
Transmission Operations Lab
8645 Railroad Drive
El Paso, TX
79904

Project Name: WINGATE PLANT

Date Received: 8/25/95

Date Sampled: 8/23/95

Date Reported: 9/ 6/95

Laboratory No.: 95-A15063

Sample ID.: S95-0443

Job Number: 4653

Analyte	Results	Units	Method	Analyst	Date
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NOTES:

see attached results

Reviewed By : *DL Idar*

9/ 6/95

BURLINGTON ENVIRONMENTAL INC. -CORPORATE LABORATORY

EPA Method 624/8260

SAMPLE:	S95-0442	ANALYZED: 08/29/95	SURR. REC%
GCMS FILE:	082842.D	RECEIVED: 08/25/95	SS1 = 98
LAB ID:	95a15062	ANALYST: Backer	SS2 = 96
DIL. FAC:	5		SS3 = 99
ML SAMP:	1ml		

CAS NO.	COMPOUND	DETECTION LIMIT PPB	SAMPLE UG/L PPB	(FLAGS)
71-43-2	Benzene	500	35,000	**
108-88-3	Toluene	100	3,100	*
100-41-4	Ethylbenzene	5	160	
108-38-3	m-Xylene	5	430	
106-42-3	p-Xylene	5	430	
95-47-6	o-Xylene	5	250	

* Final Dilution Factor = 50.

** Final Dilution Factor = 500.

ND = NOT DETECTED AT DETECTION LIMIT; B = IN BLANK; J = DETECTED BELOW DL.

E = THE CONCENTRATION OF THIS ANALYTE EXCEEDED THE INSTRUMENT CALIBRATION RANGE.

PHILIP ENVIRONMENTAL INC.
CORPORATE LABORATORY
ANALYTICAL REPORT

Client:

El Paso Natural Gas Co.
Transmission Operations Lab
8645 Railroad Drive
El Paso, TX
79904

Project Name: WINGATE PLANT

Date Received: 8/25/95

Date Sampled: 8/23/95

Date Reported: 9/ 6/95

Laboratory No.: 95-A15053

Sample ID.: S95-0433

Job Number: 4653

Analyte	Results	Units	Method	Analyst	Date
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NOTES:

see attached results

Reviewed By :

Al Hars

9/ 6/95

BURLINGTON ENVIRONMENTAL INC. -CORPORATE LABORATORY

EPA Method 624/8260

SAMPLE: S95-0433
GCMS FILE: 082833.D
LAB ID: 95a15053
DIL. FAC: 5
ML SAMP: 1ml

ANALYZED: 08/28/95
RECEIVED: 08/25/95
ANALYST: Backer

SURR. REC%
SS1 = 105
SS2 = 99
SS3 = 97

CAS NO.	COMPOUND	DETECTION LIMIT PPB	SAMPLE UG/L PPB	(FLAGS)
71-43-2	Benzene	5	ND	
108-88-3	Toluene	10	ND	
100-41-4	Ethylbenzene	5	ND	
108-38-3	m-Xylene	5	ND	
106-42-3	p-Xylene	5	ND	
95-47-6	o-Xylene	5	ND	

ND = NOT DETECTED AT DETECTION LIMIT; B = IN BLANK; J = DETECTED BELOW DL.
E = THE CONCENTRATION OF THIS ANALYTE EXCEEDED THE INSTRUMENT CALIBRATION RANGE.

PHILIP ENVIRONMENTAL INC.
CORPORATE LABORATORY
ANALYTICAL REPORT

Client:

El Paso Natural Gas Co.
Transmission Operations Lab
8645 Railroad Drive
El Paso, TX
79904

Project Name: WINGATE PLANT

Date Received: 8/25/95

Date Sampled: 8/23/95

Date Reported: 9/ 6/95

Laboratory No.: 95-A15057

Sample ID.: S95-0437

Job Number: 4653

Analyte	Results	Units	Method	Analyst	Date
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NOTES:

see attached results

Reviewed By : *Al Flores*

9/ 6/95

BURLINGTON ENVIRONMENTAL INC. -CORPORATE LABORATORY

EPA Method 624/8260

SAMPLE: S95-0436
GCMS FILE: 082836.D
LAB ID: 95a15056
DIL. FAC: 5
ML SAMP: 1ml

ANALYZED: 08/29/95
RECEIVED: 08/25/95
ANALYST: Backer

SURR. REC%
SS1 = 105
SS2 = 97
SS3 = 98

CAS NO.	COMPOUND	DETECTION LIMIT PPB	SAMPLE UG/L PPB	(FLAGS)
71-43-2	Benzene	5	ND	
108-88-3	Toluene	10	13	
100-41-4	Ethylbenzene	5	ND	
108-38-3	m-Xylene	5	5	
106-42-3	p-Xylene	5	5	
95-47-6	o-Xylene	5	ND	

ND = NOT DETECTED AT DETECTION LIMIT; B = IN BLANK; J = DETECTED BELOW DL.
E = THE CONCENTRATION OF THIS ANALYTE EXCEEDED THE INSTRUMENT CALIBRATION RANGE.

PHILIP ENVIRONMENTAL INC.
CORPORATE LABORATORY
ANALYTICAL REPORT

Client:

El Paso Natural Gas Co.
Transmission Operations Lab
8645 Railroad Drive
El Paso, TX
79904

Project Name: WINGATE PLANT

Date Received: 8/25/95
Date Sampled: 8/23/95
Date Reported: 9/ 6/95

Laboratory No.: 95-A15055
Sample ID.: S95-0435

Job Number: 4653

Analyte	Results	Units	Method	Analyst	Date
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NOTES:

see attached results

Reviewed By : Al Hor

9/ 6/95

BURLINGTON ENVIRONMENTAL INC. -CORPORATE LABORATORY

EPA Method 624/8260

SAMPLE: S95-0437
GCMS FILE: 082837.D
LAB ID: 95a15057
DIL. FAC: 5
ML SAMP: 1ml

ANALYZED: 08/29/95
RECEIVED: 08/25/95
ANALYST: Backer

SURR. REC%
SS1 = 104
SS2 = 99
SS3 = 96

CAS NO.	COMPOUND	DETECTION LIMIT PPB	SAMPLE UG/L PPB	(FLAGS)
71-43-2	Benzene	5	ND	
108-88-3	Toluene	10	ND	
100-41-4	Ethylbenzene	5	ND	
108-38-3	m-Xylene	5	ND	
106-42-3	p-Xylene	5	ND	
95-47-6	o-Xylene	5	ND	

ND = NOT DETECTED AT DETECTION LIMIT; B = IN BLANK; J = DETECTED BELOW DL.
E = THE CONCENTRATION OF THIS ANALYTE EXCEEDED THE INSTRUMENT CALIBRATION RANGE.

PHILIP ENVIRONMENTAL INC.
CORPORATE LABORATORY
ANALYTICAL REPORT

Client:

El Paso Natural Gas Co.
Transmission Operations Lab
8645 Railroad Drive
El Paso, TX
79904

Project Name: WINGATE PLANT

Date Received: 8/25/95

Date Sampled: 8/23/95

Date Reported: 9/ 6/95

Laboratory No.: 95-A15058

Sample ID.: S95-0438

Job Number: 4653

Analyte	Results	Units	Method	Analyst	Date
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NOTES:

see attached results

Reviewed By :

Phil Flores

9/ 6/95

BURLINGTON ENVIRONMENTAL INC. -CORPORATE LABORATORY

EPA Method 624/8260

SAMPLE:	S95-0438	ANALYZED: 08/29/95	SURR. REC%
GCMS FILE:	082838.D	RECEIVED: 08/25/95	SS1 = 104
LAB ID:	95a15058	ANALYST: Backer	SS2 = 98
DIL. FAC:	5		SS3 = 96
ML SAMP:	1ml		

CAS NO.	COMPOUND	DETECTION LIMIT PPB	SAMPLE UG/L PPB	(FLAGS)
=====				
71-43-2	Benzene	5	ND	
108-88-3	Toluene	10	ND	
100-41-4	Ethylbenzene	5	ND	
108-38-3	m-Xylene	5	ND	
106-42-3	p-Xylene	5	ND	
95-47-6	o-Xylene	5	ND	

ND = NOT DETECTED AT DETECTION LIMIT; B = IN BLANK; J = DETECTED BELOW DL.
E = THE CONCENTRATION OF THIS ANALYTE EXCEEDED THE INSTRUMENT CALIBRATION RANGE.

PHILIP ENVIRONMENTAL INC.
CORPORATE LABORATORY
ANALYTICAL REPORT

Client:

El Paso Natural Gas Co.
Transmission Operations Lab
8645 Railroad Drive
El Paso, TX
79904

Project Name: WINGATE PLANT

Date Received: 8/25/95

Date Sampled: 8/23/95

Date Reported: 9/ 6/95

Laboratory No.: 95-A15059

Sample ID.: S95-0439

Job Number: 4653

Analyte	Results	Units	Method	Analyst	Date
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NOTES:

see attached results

Reviewed By :

Orl Adams

9/ 6/95

BURLINGTON ENVIRONMENTAL INC. -CORPORATE LABORATORY

EPA Method 624/8260

SAMPLE: S95-0439
GCMS FILE: 082839.D
LAB ID: 95a15059
DIL. FAC: 5
ML SAMP: 1ml

ANALYZED: 08/29/95
RECEIVED: 08/25/95
ANALYST: Backer

SURR. REC%
SS1 = 102
SS2 = 91
SS3 = 101

CAS NO.	COMPOUND	DETECTION LIMIT PPB	SAMPLE UG/L PPB	(FLAGS)
71-43-2	Benzene	5	ND	
108-88-3	Toluene	10	ND	
100-41-4	Ethylbenzene	5	ND	
108-38-3	m-Xylene	5	6	
106-42-3	p-Xylene	5	6	
95-47-6	o-Xylene	5	ND	

ND = NOT DETECTED AT DETECTION LIMIT; B = IN BLANK; J = DETECTED BELOW DL.
E = THE CONCENTRATION OF THIS ANALYTE EXCEEDED THE INSTRUMENT CALIBRATION RANGE.

PHILIP ENVIRONMENTAL INC.
CORPORATE LABORATORY
ANALYTICAL REPORT

Client:

El Paso Natural Gas Co.
Transmission Operations Lab
8645 Railroad Drive
El Paso, TX
79904

Project Name: WINGATE PLANT

Date Received: 8/25/95

Date Sampled: 8/23/95

Date Reported: 9/ 6/95

Laboratory No.: 95-A15061

Sample ID.: S95-0441

Job Number: 4653

Analyte	Results	Units	Method	Analyst	Date
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NOTES:

see attached results

Reviewed By :

Al Flores

9/ 6/95

BURLINGTON ENVIRONMENTAL INC. -CORPORATE LABORATORY

EPA Method 624/8260

SAMPLE:	S95-0441	ANALYZED: 08/29/95	SURR. REC%
GCMS FILE:	082841.D	RECEIVED: 08/25/95	SS1 = 104
LAB ID:	95a15061	ANALYST: Backer	SS2 = 97
DIL. FAC:	5		SS3 = 97
ML SAMP:	1ml		

CAS NO.	COMPOUND	DETECTION LIMIT PPB	SAMPLE UG/L PPB	(FLAGS)
=====				
71-43-2	Benzene	5	ND	
108-88-3	Toluene	10	ND	
100-41-4	Ethylbenzene	5	ND	
108-38-3	m-Xylene	5	ND	
106-42-3	p-Xylene	5	ND	
95-47-6	o-Xylene	5	ND	

ND = NOT DETECTED AT DETECTION LIMIT; B = IN BLANK; J = DETECTED BELOW DL.
 E= THE CONCENTRATION OF THIS ANALYTE EXCEEDED THE INSTRUMENT CALIBRATION RANGE.

PHILIP ENVIRONMENTAL INC.
CORPORATE LABORATORY
ANALYTICAL REPORT

Client:

El Paso Natural Gas Co.
Transmission Operations Lab
8645 Railroad Drive
El Paso, TX
79904

Project Name: WINGATE PLANT

Date Received: 8/25/95

Date Sampled: 8/23/95

Date Reported: 9/ 6/95

Laboratory No.: 95-A15062

Sample ID.: S95-0442

Job Number: 4653

Analyte	Results	Units	Method	Analyst	Date
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NOTES:

see attached results

Reviewed By : Ol f lere

9/ 6/95

BURLINGTON ENVIRONMENTAL INC. -CORPORATE LABORATORY

EPA Method 624/8260

SAMPLE: S95-0443
GCMS FILE: 082929.D
LAB ID: 95a15063
DIL. FAC: 5
ML SAMP: 1 ml

ANALYZED: 08/29/95
RECEIVED: 08/25/95
ANALYST: Backer

SURR. REC%
SS1 = 100
SS2 = 97
SS3 = 97

CAS NO.	COMPOUND	DETECTION LIMIT PPB	SAMPLE UG/L PPB	(FLAGS)
=====				
71-43-2	Benzene	5	12	
108-88-3	Toluene	10	ND	
100-41-4	Ethylbenzene	5	ND	
108-38-3	m-Xylene	5	ND	
106-42-3	p-Xylene	5	ND	
95-47-6	o-Xylene	5	ND	

ND = NOT DETECTED AT DETECTION LIMIT; B = IN BLANK; J = DETECTED BELOW DL.
E = THE CONCENTRATION OF THIS ANALYTE EXCEEDED THE INSTRUMENT CALIBRATION RANGE.

BURLINGTON ENVIRONMENTAL INC. -CORPORATE LABORATORY

EPA Method 624/8260

SAMPLE: S95-0444
GCMS FILE: 082844.D
LAB ID: 95a15064
DIL. FAC: 5
ML SAMP: 1ml

ANALYZED: 08/29/95
RECEIVED: 08/25/95
ANALYST: Backer

SURR. REC%
SS1 = 105
SS2 = 100
SS3 = 96

CAS NO.	COMPOUND	DETECTION LIMIT PPB	SAMPLE UG/L PPB	(FLAGS)
71-43-2	Benzene	5	ND	
108-88-3	Toluene	10	ND	
100-41-4	Ethylbenzene	5	ND	
108-38-3	m-Xylene	5	ND	
106-42-3	p-Xylene	5	ND	
95-47-6	o-Xylene	5	ND	

ND = NOT DETECTED AT DETECTION LIMIT; B = IN BLANK; J = DETECTED BELOW DL.
E= THE CONCENTRATION OF THIS ANALYTE EXCEEDED THE INSTRUMENT CALIBRATION RANGE.



JOB #4653

CHAIN OF CUSTODY RECORD

Page _____ of _____

SENT BY: EL PASO NATURAL GAS CO.: 8-24-95: 15:22 T.O.E. LABORATORY-4

PROJECT NUMBER		PROJECT NAME		DATE		TOTAL NUMBER OF CONTAINERS	COMPOSITE OR GRAB	REQUESTED ANALYSIS					CONTRACT LABORATORY P. O. NUMBER	
SAMPLE(S) (Signature)		Wingate Plant		8/23/95				BTEX						
LAB ID	DATE	TIME	MATRIX	SAMPLE NUMBER								Lab #	REMARKS	
	8/22/95	0730	H ₂ O	595-0431		2		X				95A15051		
	8/22/95	0817	H ₂ O	595-0432		2		X				95A15052		
	8/22/95	1047	H ₂ O	595-0433		2		X				95A15053		
	8/22/95	1200	H ₂ O	595-0434		2		X				95A15054		
	8/22/95	1337	H ₂ O	595-0435		2		X				95A15055	No HCl added to samples.	
	8/23/95	1514	H ₂ O	595-0436		2		X				95A15056	No HCl added to samples.	
	8/22/95	1514	H ₂ O	595-0437		2		X				95A15057	No HCl added to samples.	
	8/23/95	0755	H ₂ O	595-0438		2		X				95A15058		
	8/23/95	0905	H ₂ O	595-0439		2		X				95A15059	No HCl added to samples.	
	8/23/95	0952	H ₂ O	595-0440		2		X				95A15060	No HCl added to samples.	
	8/23/95	1024	H ₂ O	595-0441		2		X				95A15061		
	8/23/95	1210	H ₂ O	595-0442		2		X				95A15062		
RELINQUISHED BY: (Signature)			DATE/TIME		RECEIVED BY: (Signature)			DATE/TIME			RECEIVED BY: (Signature)			
					8/25/95 Bridget Kelly 930 am									
RELINQUISHED BY: (Signature)			DATE/TIME		RECEIVED BY: (Signature)			DATE/TIME			RECEIVED OF LABORATORY BY: (Signature)			
REQUESTED TURNAROUND TIME: ☐ ROUTINE ☐ RUSH					SAMPLE RECEIPT REMARKS					RESULTS & INVOICES TO:				
CARRIER CO.										TRANSMISSION OPERATIONS LABORATORY EL PASO NATURAL GAS COMPANY 8645 RAILROAD DRIVE EL PASO, TEXAS 79904				
BILL NO.:					CHARGE CODE:					915-541-9228 FAX: 915-541-9335				

White - Testing Laboratory Canary - EPWG Lab Pink - Field Sampler

FM-08-0566 (Rev. 11-92)

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CHAIN OF CUSTODY RECORD

Page _____ of _____

[illegible]

White - Testing Laboratory Canary - EPNG Lab Pink - Field Sampler

FD-302a (Rev. 11-92)

SENT BY: EL PASO NATURAL GAS CO; 8-24-95 ; 15:22 ; T.O.E. LABORATORY-

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